

ApplinX 9.9.0.0000 API

Specification

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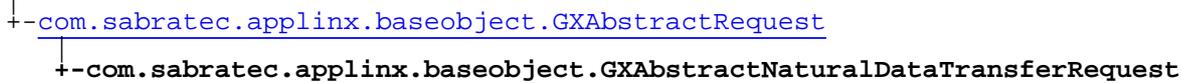
Package

com.sabratec.applinx.baseobject

Contains classes and interfaces which are the core of the ABO API.

com.sabratec.applinx.baseobject Class GXAbstractNaturalDataTransferRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

Direct Known Subclasses:

[GXNaturalDataTransferUploadRequest](#), [GXNaturalDataTransferDownloadRequest](#)

public abstract class **GXAbstractNaturalDataTransferRequest**
extends [GXAbstractRequest](#)

Common request for Natural Data Transfer messages.

Constructor Summary

public	GXAbstractNaturalDataTransferRequest ()
--------	---------------------------------------------------------

Method Summary

int	getFormatType () Return the transfer data type.
void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

GXAbstractNaturalDataTransferRequest

public **GXAbstractNaturalDataTransferRequest**()

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Methods

getFormatType

```
public int getFormatType()
```

Return the transfer data type.

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject

Class GXAbstractNaturalDataTransferResponse

java.lang.Object

└-com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferResponse

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXNaturalDataTransferUploadResponse](#), [GXNaturalDataTransferDownloadResponse](#)

public abstract class **GXAbstractNaturalDataTransferResponse**

extends Object

implements java.io.Serializable

Response data message for Natural Data Transfer download/upload requests.

Constructor Summary

public	GXAbstractNaturalDataTransferResponse()
--------	---------------------------------------------------------

Method Summary

int	getNumProcessedRecords() The number of records that were already processed.
boolean	isComplete() Whether the transfer has been completed or not.
void	setComplete(boolean complete) Set whether the Natural data transfer session has been completed or not.
void	setNumProcessedRecords(int numProcessedRecords) Set the number of processed record.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXAbstractNaturalDataTransferResponse

public **GXAbstractNaturalDataTransferResponse()**

Methods

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isComplete

```
public boolean isComplete()
```

Whether the transfer has been completed or not.

getNumProcessedRecords

```
public int getNumProcessedRecords()
```

The number of records that were already processed.

setNumProcessedRecords

```
public void setNumProcessedRecords(int numProcessedRecords)
```

Set the number of processed record.

setComplete

```
public void setComplete(boolean complete)
```

Set whether the Natural data transfer session has been completed or not.

com.sabratec.applinx.baseobject Class GXAbstractRequest

java.lang.Object

└─com.sabratec.applinx.baseobject.GXAbstractRequest

All Implemented Interfaces:

Cloneable, java.io.Externalizable

Direct Known Subclasses:

[GXSetVariablesRequest](#), [GXGetScreenRequest](#), [GXBinaryRequest](#), [GXBidiTranslatorRequest](#),
[GXAbstractSetToHostRequest](#), [GXAbstractSessionConnectionRequest](#), [GXAbstractNaturalDataTransferRequest](#)

```
public abstract class GXAbstractRequest
extends Object
implements java.io.Externalizable, Cloneable
```

Common settings for all requests.

Method Summary

void	addVariable (GXIVariable var)
void	addVariable (String varName, String varValue)
void	addVariableArray (String varName, String[] varValues)
Object	clone ()
boolean	equals (Object obj)
Hashtable	getVariables ()
int	hashCode ()
void	readExternal (java.io.ObjectInput in)
void	setVariables (Hashtable variables)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Methods

addVariable

```
public void addVariable(GXIVariable var)
```

Parameters:

var - a variable object

See Also:

[GXBaseObjectConstants](#)

addVariable

```
public void addVariable(String varName,  
    String varValue)
```

Parameters:

varName - the variable name

varValue - the variable value

See Also:

[GXBaseObjectConstants](#)

addVariableArray

```
public void addVariableArray(String varName,  
    String[] varValues)
```

Parameters:

varName - the variable name

varValues - a variable values array

getVariables

```
public Hashtable getVariables()
```

Returns:

a variables Hashtable of: variable name(key) -> [GXIVariable](#)(value)

setVariables

```
public void setVariables(Hashtable variables)
```

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readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

hashCode

```
public int hashCode()
```

equals

```
public boolean equals(Object obj)
```

clone

```
public Object clone()
```

com.sabratec.applinx.baseobject Class GXAbstractSessionConnectionRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

Direct Known Subclasses:

[GXEndSessionRequest](#), [GXCreateSessionRequest](#), [GXAttachToSessionRequest](#)

```
public class GXAbstractSessionConnectionRequest
extends GXAbstractRequest
```

Abstract connection request to a specific session.

Constructor Summary

public	GXAbstractSessionConnectionRequest()
--------	------------------------------------------------------

Method Summary

String	getApplicationName()
String	getClientId()
GXIApplicationServerContext	getServerContext()
String	getServerURL()
String	getSessionID()
String	getSessionPassword()
void	readExternal (java.io.ObjectInput in)
void	setApplicationName (String applicationName)
void	setClientId (String clientId) Set the client unique id to use.
void	setServerContext (GXIApplicationServerContext serverContext) Sets the ApplinX server context for the session.
void	setServerURL (String serverURL) Sets the URL of ApplinX Server to which the GXIClientBaseObject will be connected.

void	setSessionID (String sessionID)
void	setSessionPassword (String sessionPassword)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

GXAbstractSessionConnectionRequest

```
public GXAbstractSessionConnectionRequest()
```

Methods

getSessionID

```
public String getSessionID()
```

Returns:

the session ID.

setSessionID

```
public void setSessionID(String sessionID)
```

Parameters:

sessionID - the ID of the session to which the [GXIClientBaseObject](#) will be attached.

setApplicationName

```
public void setApplicationName(String applicationName)
```

Parameters:

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applicationName - the name of the application on ApplinX Server to which the session should be connected.

getApplicationName

```
public String getApplicationName()
```

Returns:

the name of the ApplinX application.

setSessionPassword

```
public void setSessionPassword(String sessionPassword)
```

Parameters:

sessionPassword - the session password to use for the connection. In [GXCreateSessionRequest](#), this password is optional. When choosing to set the password it must also be set in any [GXAttachToSessionRequest](#).

getSessionPassword

```
public String getSessionPassword()
```

Returns:

the session password.

setServerURL

```
public void setServerURL(String serverURL)
```

Sets the URL of ApplinX Server to which the [GXIClientBaseObject](#) will be connected.

Parameters:

serverURL - the URL of ApplinX server.

getServerURL

```
public String getServerURL()
```

Returns:

the ApplinX Server URL.

setServerContext

```
public void setServerContext(GXIAplicationServerContext serverContext)
```

Sets the ApplinX server context for the session. Used in "Local mode".

Parameters:

serverContext - the context to set.

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getServerContext

```
public GXIApplicationServerContext getServerContext()
```

Returns:

the server context used for the session.

setClientId

```
public void setClientId(String clientId)
```

Set the client unique id to use. This option is for advanced users only.

Parameters:

clientId - the id of all this client's connections.

getClientId

```
public String getClientId()
```

Returns:

the client unique id (all connections from same client will have same id).

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXAbstractSetToHostRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

Direct Known Subclasses:

[GXTableRequest](#), [GXSendKeysRequest](#), [GXPathRequest](#), [GXNavigateRequest](#)

public abstract class **GXAbstractSetToHostRequest**
extends [GXAbstractRequest](#)

Abstract class for SendKeys and Execute Path requests.

Method Summary	
void	addInputField (GXIField field, String fieldValue)
void	addInputField (GXInputField field)
void	addInputField (GXPosition position, String fieldValue)
void	addInputField (String fieldName, GXPosition position, String fieldValue)
void	addInputField (String fieldName, int fieldIndex, String fieldValue)
void	addInputField (String fieldName, String fieldValue)
void	addInputFields (GXInputField[] fields)
void	changeInputField (GXInputField field)
GXInputField[]	getInputFields ()
int	getSeqScreenNumber () Get the sequence screen number which the send request should send against.
boolean	isWindowRelativePositioning ()
void	readExternal (java.io.ObjectInput in)
void	removeInputField (GXInputField field)

void	setSeqScreenNumber (int seqScreenNumber) Defines the screen sequence number in which the send request should be send against If the sequence doesn't match the current screen sequence in the host, an exception is thrown during the send.
void	setWindowRelativePositioning (boolean positionsIgnoreWindow)
String	toString ()
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Methods

getInputFields

```
public GXInputField[] getInputFields()
```

addInputField

```
public void addInputField(GXInputField field)
```

addInputField

```
public void addInputField(GXIField field,  
String fieldValue)
```

addInputField

```
public void addInputField(String fieldName,  
String fieldValue)
```

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addInputField

```
public void addInputField(String fieldName,  
    int fieldIndex,  
    String fieldValue)
```

addInputField

```
public void addInputField(String fieldName,  
    GXPosition position,  
    String fieldValue)
```

addInputField

```
public void addInputField(GXPosition position,  
    String fieldValue)
```

removeInputField

```
public void removeInputField(GXInputField field)
```

changeInputField

```
public void changeInputField(GXInputField field)
```

addInputFields

```
public void addInputFields(GXInputField\[\] fields)
```

setWindowRelativePositioning

```
public void setWindowRelativePositioning(boolean positionsIgnoreWindow)
```

isWindowRelativePositioning

```
public boolean isWindowRelativePositioning()
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
    ClassNotFoundException
```

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writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

toString

```
public String toString()
```

getSeqScreenNumber

```
public int getSeqScreenNumber()
```

Get the sequence screen number which the send request should send against. If the sequence doesn't match the current screen sequence in the host, an exception is thrown during the send.

Returns:

screen sequence number

setSeqScreenNumber

```
public void setSeqScreenNumber(int seqScreenNumber)
```

Defines the screen sequence number in which the send request should be send against If the sequence doesn't match the current screen sequence in the host, an exception is thrown during the send.

Parameters:

`seqScreenNumber` - a screen sequence number which the data should be send against

com.sabratec.applinx.baseobject Class GXAbstractWaitCondition

java.lang.Object

└-com.sabratec.applinx.baseobject.GXAbstractWaitCondition

All Implemented Interfaces:

[GXWaitCondition](#)

Direct Known Subclasses:

[GXWaitHostQuiet](#), [GXAbstractWaitString](#), [GXAbstractWaitScreen](#), [GXAbstractWaitCursor](#)

public abstract class **GXAbstractWaitCondition**

extends Object

implements [GXWaitCondition](#)

Abstract class for all wait conditions.

Method Summary

long	getFlicker()
long	getTimeout()
void	setFlicker(long flicker)
void	setTimeout(long timeout)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

getTimeout

public long **getTimeout()**

setTimeout

public void **setTimeout(long timeout)**

getFlicker

public long **getFlicker()**

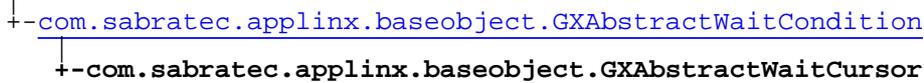
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setFlicker

```
public void setFlicker(long flicker)
```

com.sabratec.applinx.baseobject Class GXAbstractWaitCursor

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

Direct Known Subclasses:

[GXWaitWhileCursor](#), [GXWaitForCursor](#)

public abstract class **GXAbstractWaitCursor**
extends [GXAbstractWaitCondition](#)

Abstract class for wait conditions involving the cursor.

Method Summary

GXPosition	getLowerRightPosition()
GXPosition	getUpperLeftPosition()
void	setLowerRightPosition(GXPosition lowerRight)
void	setUpperLeftPosition(GXPosition upperLeft)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods

getUpperLeftPosition

public [GXPosition](#) [getUpperLeftPosition\(\)](#)

getLowerRightPosition

public [GXPosition](#) [getLowerRightPosition\(\)](#)

setUpperLeftPosition

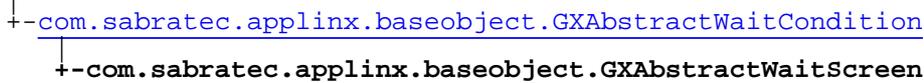
```
public void setUpperLeftPosition(GXPosition upperLeft)
```

setLowerRightPosition

```
public void setLowerRightPosition(GXPosition lowerRight)
```

com.sabratec.applinx.baseobject Class GXAbstractWaitScreen

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

Direct Known Subclasses:

[GXWaitWhileScreen](#), [GXWaitForScreen](#)

public abstract class **GXAbstractWaitScreen**
extends [GXAbstractWaitCondition](#)

Abstract class for wait conditions involving a screen.

Method Summary

String	getScreenName()
void	setScreenName (String screenName) Sets the screen name.

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods

getScreenName

```
public String getScreenName()
```

Returns:

the screen name

setScreenName

```
public void setScreenName(String screenName)
```

Sets the screen name.

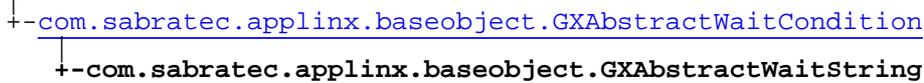
Parameters:

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screenName - the screen name to set

com.sabratec.applinx.baseobject Class GXAbstractWaitString

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

Direct Known Subclasses:

[GXWaitWhileString](#), [GXWaitForString](#)

public abstract class **GXAbstractWaitString**
extends [GXAbstractWaitCondition](#)

Abstract class for wait conditions involving String on the host screen.

Method Summary

GXPosition	getLowerRightPosition()
String	getString()
GXPosition	getUpperLeftPosition()
boolean	isCaseSensitive()
void	setIsCaseSensitive(boolean isSensitive)
void	setLowerRightPosition(GXPosition lowerRight)
void	setString(String string)
void	setUpperLeftPosition(GXPosition upperLeft)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods

(continued from last page)

getString

```
public String getString()
```

setString

```
public void setString(String string)
```

getUpperLeftPosition

```
public GXPosition getUpperLeftPosition()
```

setUpperLeftPosition

```
public void setUpperLeftPosition(GXPosition upperLeft)
```

getLowerRightPosition

```
public GXPosition getLowerRightPosition()
```

setLowerRightPosition

```
public void setLowerRightPosition(GXPosition lowerRight)
```

isCaseSensitive

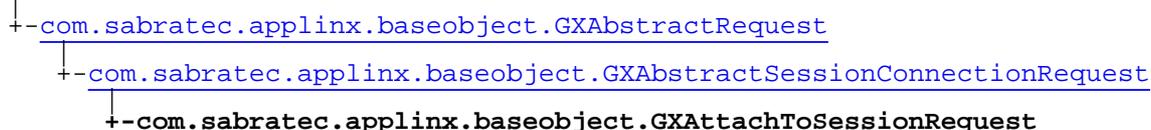
```
public boolean isCaseSensitive()
```

setIsCaseSensitive

```
public void setIsCaseSensitive(boolean isSensitive)
```

com.sabratec.applinx.baseobject Class GXAttachToSessionRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXAttachToSessionRequest**
extends [GXAbstractSessionConnectionRequest](#)

Settings for attach request.

Constructor Summary

public	GXAttachToSessionRequest ()
public	GXAttachToSessionRequest (GXIApplicationServerContext serverContext, String sessionID) Constructor
public	GXAttachToSessionRequest (String serverURL, String sessionID, String sessionPassword) Constructor

Method Summary

void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class

[com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest](#)

[getApplicationName](#), [getClientId](#), [getServerContext](#), [getServerURL](#), [getSessionID](#), [getSessionPassword](#), [readExternal](#), [setApplicationName](#), [setClientId](#), [setServerContext](#), [setServerURL](#), [setSessionID](#), [setSessionPassword](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

```
readExternal, writeExternal
```

Constructors

GXAttachToSessionRequest

```
public GXAttachToSessionRequest()
```

GXAttachToSessionRequest

```
public GXAttachToSessionRequest(GXIApplicationServerContext serverContext,  
                                String sessionID)
```

Constructor

Parameters:

serverContext - ApplinX Server context.
sessionID - ID of the session to attach to.

GXAttachToSessionRequest

```
public GXAttachToSessionRequest(String serverURL,  
                                String sessionID,  
                                String sessionPassword)
```

Constructor

Parameters:

serverURL - the URL of ApplinX server.
sessionID - ID to which the session will be attached.
sessionPassword - password used to attach to the existing session on ApplinX server. Should be set ONLY if a password was set in the [GXCreateSessionRequest](#).

Methods

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXBaseObjectConstants

java.lang.Object

└-com.sabratec.applinx.baseobject.GXBaseObjectConstants

public class **GXBaseObjectConstants**
extends Object

This class holds all the constants of the base object.

Field Summary

public static final	ANY_IDENTIFIED_SCREEN This constant should be used when adding a wait condition which should wait for any identified screen Sample code: if (gx_session.getScreen().getName().equals("UNKNOWN")){ GXGetScreenRequest req = new GXGetScreenRequest(); req.addWaitCondition(new GXWaitForScreen(GXBaseObjectConstants.ANY_IDENTIFIED_SCREEN,5000,0)) ; gx_session.getScreen(req); }
public static final	GX_FIELD_ADJUST_LEFT
public static final	GX_FIELD_ADJUST_NONE
public static final	GX_FIELD_ADJUST_RIGHT
public static final	GX_FIELD_ADJUST_RIGHT_BLANK_FILL
public static final	GX_FIELD_ADJUST_RIGHT_ZERO_FILL
public static final	GX_FIELD_COLOR_AQUA Value: 3
public static final	GX_FIELD_COLOR_BLACK Value: 0
public static final	GX_FIELD_COLOR_BLUE Value: 1
public static final	GX_FIELD_COLOR_BROWN Value: 6
public static final	GX_FIELD_COLOR_GRAY Value: 8
public static final	GX_FIELD_COLOR_GREEN Value: 2

public static final	GX_FIELD_COLOR_LIGHT_AQUA Value: 11
public static final	GX_FIELD_COLOR_LIGHT_BLUE Value: 9
public static final	GX_FIELD_COLOR_LIGHT_GREEN Value: 10
public static final	GX_FIELD_COLOR_LIGHT_PURPLE Value: 13
public static final	GX_FIELD_COLOR_LIGHT_RED Value: 12
public static final	GX_FIELD_COLOR_LIGHT_WHITE Value: 15
public static final	GX_FIELD_COLOR_NONE Value: -1
public static final	GX_FIELD_COLOR_PURPLE Value: 5
public static final	GX_FIELD_COLOR_RED Value: 4
public static final	GX_FIELD_COLOR_WHITE Value: 7
public static final	GX_FIELD_COLOR_YELLOW Value: 14
public static final	GX_FIELD_DATA_TYPE_ALPHA_ONLY
public static final	GX_FIELD_DATA_TYPE_ALPHANUMERIC
public static final	GX_FIELD_DATA_TYPE_DBCS_CAN_CREATE_SISO
public static final	GX_FIELD_DATA_TYPE_DBCS_ONLY
public static final	GX_FIELD_DATA_TYPE_DIGITS_ONLY
public static final	GX_FIELD_DATA_TYPE_KATAKANA_SHIFT
public static final	GX_FIELD_DATA_TYPE_NUMERIC
public static final	GX_FIELD_DATA_TYPE_REVERSED

public static final	GX_FIELD_DATA_TYPE_SIGNED_NUMERIC
public static final	GX_VAR_APPLICATION_LANGUAGE The language configured for the application used by the current session. Value: com.sabratec.applinx.config.application_language
public static final	GX_VAR_APPLY_TRANSFORMATIONS Indicates if transformations should be applied to the next screen requested. Value: com.sabratec.applinx.apply.transformations
public static final	GX_VAR_DEVICE_NAME The device name to be used in the current session. Value: com.sabratec.applinx.emulation.device_name
public static final	GX_VAR_DEVICE_TYPE The device type to be used in the current session. Value: com.sabratec.applinx.emulation.device_type
public static final	GX_VAR_DISPLAY_HIDDEN_FIELDS Indicates whether or not to retrieve the contents of hidden fields. Value: com.sabratec.applinx.screen.content.displayHiddenFields
public static final	GX_VAR_ENCODING_LOGICAL Indicates that data should be converted from Visual to Logical. Value: com.sabratec.applinx.screen.content.encoding.logical
public static final	GX_VAR_FIELDS_WITH_SUGGESTED_NAMES Value: com.sabratec.applinx.fields.with.suggested.names
public static final	GX_VAR_HOST_ADDRESS The host IP address. Value: com.sabratec.applinx.emulation.host_address
public static final	GX_VAR_HOST_PORT The host's port address. Value: com.sabratec.applinx.emulation.host_port
public static final	GX_VAR_HOST_WINDOW_ENABLED Indicates that the host window should be ignored in the current screen. Value: com.sabratec.applinx.screen.window.enabled
public static final	GX_VAR_INCLUDE_HOST_FIELDS Indicates whether to retrieve host fields as well as application fields or just application fields. Value: com.sabratec.applinx.screen.content.hostFields
public static final	GX_VAR_NATURAL_DATA_TRANSFER_DELIMITER Relevant when downloading CSV files, determines the delimiter to be used. Value: com.softwareag.applinx.ndt.delimiter
public static final	GX_VAR_NATURAL_DATA_TRANSFER_HEADERS_USED Determines whether to print the name of the field as the column header. Value: com.softwareag.applinx.ndt.headers.used

public static final	GX_VAR_NATURAL_DATA_TRANSFER_STREAM Determines whether to stream the download file from the host through the server to the client or download the file as a whole. Value: com.softwareag.applinx.ndt.stream
public static final	GX_VAR_REMOVE_CHARACTER Indicates that the character configured to be removed should be removed. Value: com.sabratec.applinx.screen.content.remove_underline
public static final	GX_VAR_REMOVE_CHARACTER_BOTH_SIDES Indicates that the character configured to be removed should be removed from both sides of fields. Value: com.sabratec.applinx.screen.content.remove_underline.sides
public static final	GX_VAR_REPLAY_DELAY Replay delay. Value: com.sabratec.applinx.config.replay_delay
public static final	GX_VAR_REPLAY_FILE The replay file configured for the current session. Value: com.sabratec.applinx.config.replay_file
public static final	GX_VAR_RETURN_FIELDS Indicates whether the fields should be returned Used with the ACTION_SESSION_GET_SCREEN request. Value: com.softwareag.applinx.return.fields
public static final	GX_VAR_RETURN_SCREEN_BUFFERS Indicates which buffer types should be returned in the screen object. Value: com.sabratec.applinx.screen.buffer
public static final	GX_VAR_SCREEN_DIRECTION The current screen direction of the application. Value: com.sabratec.applinx.screen.direction
public static final	GX_VAR_THROW_EXCEPTION_ON_INVALID_INPUT Indicates whether or not to throw an exception if an invalid input was sent to a field Value: com.sabratec.applinx.screen.content.invalidInputThrowsException
public static final	GX_VAR_TRACE_FILE The trace file configured for the current session. Value: com.sabratec.applinx.config.trace_file
public static final	GX_VAR_TRANSLATION_LANGUAGE The translation language used by the current session. Value: com.sabratec.applinx.localizer.translation_language
public static final	GX_VAR_TRIM_FIELDS Variable indicating which fields should be trimmed. Value: com.sabratec.applinx.screen.content.trim.fields
public static final	GX_VAR_TRIM_MODE Variable indicating the trimming mode of fields. Value: com.sabratec.applinx.screen.content.trim

public static final	GX_VAR_UPPERCASE_INPUT Flag to turn all data sent to the host to uppercase. Value: com.sabratec.applinx.emulation.uppercase_input
public static final	GX_VAR_VAL_BUFFERS_FIELD_ATTRIBUTES Three field attribute buffers are returned: field attributes, extended field attributes and field color attributes. Value: com.sabratec.applinx.screen.buffer.attributes
public static final	GX_VAR_VAL_BUFFERS_NONE No screen buffers are returned. Value: com.sabratec.applinx.screen.buffer.none
public static final	GX_VAR_VAL_BUFFERS_SCREEN_DATA Screen data buffer (the fields' content) is returned. Value: com.sabratec.applinx.screen.buffer.screen_data
public static final	GX_VAR_VAL_REMOVE_CHARACTER_ALL The character to be removed should be removed from all fields including input fields and labels. Value: all
public static final	GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_ALL_FIELDS Removes character from both sides of all fields. Value: all
public static final	GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_NUMERIC_FIELDS_ONLY Removes character from both sides of numeric fields only. Value: numeric
public static final	GX_VAR_VAL_REMOVE_CHARACTER_INPUT The character to be removed should be removed only from input fields. Value: input
public static final	GX_VAR_VAL_REMOVE_CHARACTER_NONE The character to be removed should not be removed. Value: none
public static final	GX_VAR_VAL_REPLAY_DELAY_NO_DELAY Run replay as fast as possible. Value: 0
public static final	GX_VAR_VAL_REPLAY_DELAY_SIMULATE_HOST Run replay as recorded by host. Value: -1
public static final	GX_VAR_VAL_SCREEN_DIRECTION_LTR Screen direction is left to right. Value: LTR
public static final	GX_VAR_VAL_SCREEN_DIRECTION_RTL Screen direction is right to left. Value: RTL
public static final	GX_VAR_VAL_TRIM_FIELDS_ALL Indicates that data of all fields should be trimmed. Value: all

public static final	GX_VAR_VAL_TRIM_FIELDS_INPUT_AND_BOTH Indicates that data of input fields and application fields defined as "both" should be trimmed. Value: input_both
public static final	GX_VAR_VAL_TRIM_FIELDS_INPUT_ONLY Indicates that data of input fields only should be trimmed. Value: input_only
public static final	GX_VAR_VAL_TRIM_FIELDS_NONE Indicates that field data should not be trimmed. Value: none
public static final	GX_VAR_VAL_TRIM_MODE_BOTH_SIDES Indicates trimming should be done on both sides. Value: bothSides
public static final	GX_VAR_VAL_TRIM_MODE_BY_FIELD_DIRECTION Indicates trimming should be done according to field direction. Value: fieldDirection
public static final	GX_VAR_VAL_VT_SEND_CURSOR_ARROWS Determines that the cursor should be set using the arrow keys. Value: arrows
public static final	GX_VAR_VAL_VT_SEND_CURSOR_NONE Determines that the cursor should NOT be set to the host. Value: none
public static final	GX_VAR_VAL_VT_SEND_CURSOR_TAB Determines that the cursor should be set using a tab key. Value: tab_key
public static final	GX_VAR_VT_AUTO_SKIP_WHEN_FIELD_IS_FULL Flag that states whether or not the cursor will jump automatically from the current field to the next input field when the current input field is filled with content. Value: com.sabratec.applinx.vt.blockmode.input_fields.auto_skip
public static final	GX_VAR_VT_DYNAMIC_INPUT_CHECK Flag that invokes the dynamic input check. Value: com.sabratec.applinx.vt.blockmode.input_fields.dynamicCheck
public static final	GX_VAR_VT_KEY_JUMP_BETWEEN_INPUT_FIELDS The key ApplinX server should use in order to move between input fields in the host screen. Value: com.sabratec.applinx.vt.blockmode.input_fields.jumpkey
public static final	GX_VAR_VT_SEND_CURSOR Determines the way the cursor should be set to a character mode host. Value: com.sabratec.applinx.vt.blockmode.send_cursor
public static final	GX_VAR_WORKING_FOLDER The working folder for the current session. Value: com.sabratec.applinx.folder.working_folder

Constructor Summary

public	GXBaseObjectConstants()
--------	-----------------------------------------

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Fields

GX_FIELD_COLOR_NONE

```
public static final int GX_FIELD_COLOR_NONE
```

Constant value: -1

GX_FIELD_COLOR_BLACK

```
public static final int GX_FIELD_COLOR_BLACK
```

Constant value: 0

GX_FIELD_COLOR_BLUE

```
public static final int GX_FIELD_COLOR_BLUE
```

Constant value: 1

GX_FIELD_COLOR_GREEN

```
public static final int GX_FIELD_COLOR_GREEN
```

Constant value: 2

GX_FIELD_COLOR_AQUA

```
public static final int GX_FIELD_COLOR_AQUA
```

Constant value: 3

GX_FIELD_COLOR_RED

```
public static final int GX_FIELD_COLOR_RED
```

Constant value: 4

GX_FIELD_COLOR_PURPLE

```
public static final int GX_FIELD_COLOR_PURPLE
```

Constant value: 5

GX_FIELD_COLOR_BROWN

```
public static final int GX_FIELD_COLOR_BROWN
```

Constant value: 6

GX_FIELD_COLOR_WHITE

```
public static final int GX_FIELD_COLOR_WHITE
```

Constant value: 7

GX_FIELD_COLOR_GRAY

```
public static final int GX_FIELD_COLOR_GRAY
```

Constant value: 8

GX_FIELD_COLOR_LIGHT_BLUE

```
public static final int GX_FIELD_COLOR_LIGHT_BLUE
```

Constant value: 9

GX_FIELD_COLOR_LIGHT_GREEN

```
public static final int GX_FIELD_COLOR_LIGHT_GREEN
```

Constant value: 10

GX_FIELD_COLOR_LIGHT_AQUA

```
public static final int GX_FIELD_COLOR_LIGHT_AQUA
```

Constant value: 11

GX_FIELD_COLOR_LIGHT_RED

```
public static final int GX_FIELD_COLOR_LIGHT_RED
```

Constant value: 12

GX_FIELD_COLOR_LIGHT_PURPLE

```
public static final int GX_FIELD_COLOR_LIGHT_PURPLE
```

Constant value: 13

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GX_FIELD_COLOR_YELLOW

```
public static final int GX_FIELD_COLOR_YELLOW
```

Constant value: 14

GX_FIELD_COLOR_LIGHT_WHITE

```
public static final int GX_FIELD_COLOR_LIGHT_WHITE
```

Constant value: 15

GX_VAR_DEVICE_NAME

```
public static final java.lang.String GX_VAR_DEVICE_NAME
```

The device name to be used in the current session.

Constant value: **com.sabratec.applinx.emulation.device_name**

GX_VAR_DEVICE_TYPE

```
public static final java.lang.String GX_VAR_DEVICE_TYPE
```

The device type to be used in the current session.

Constant value: **com.sabratec.applinx.emulation.device_type**

GX_VAR_HOST_ADDRESS

```
public static final java.lang.String GX_VAR_HOST_ADDRESS
```

The host IP address.

Constant value: **com.sabratec.applinx.emulation.host_address**

GX_VAR_HOST_PORT

```
public static final java.lang.String GX_VAR_HOST_PORT
```

The host's port address.

Constant value: **com.sabratec.applinx.emulation.host_port**

GX_VAR_UPPERCASE_INPUT

```
public static final java.lang.String GX_VAR_UPPERCASE_INPUT
```

Flag to turn all data sent to the host to uppercase. Possible values: true or false.

Constant value: **com.sabratec.applinx.emulation.uppercase_input**

GX_VAR_VT_SEND_CURSOR

```
public static final java.lang.String GX_VAR_VT_SEND_CURSOR
```

Determines the way the cursor should be set to a character mode host.

Constant value: **com.sabratec.applinx.vt.blockmode.send_cursor**

See Also:

[GX_VAR_VAL_VT_SEND_CURSOR_TAB](#)

[GX_VAR_VAL_VT_SEND_CURSOR_ARROWS](#)

[GX_VAR_VAL_VT_SEND_CURSOR_NONE](#)

GX_VAR_VAL_VT_SEND_CURSOR_TAB

```
public static final java.lang.String GX_VAR_VAL_VT_SEND_CURSOR_TAB
```

Determines that the cursor should be set using a tab key. Possible value of GX_VAR_VT_SEND_CURSOR.
Constant value: **tab_key**

See Also:

[GX_VAR_VT_SEND_CURSOR](#)

[GX_VAR_VT_KEY_JUMP_BETWEEN_INPUT_FIELDS](#)

GX_VAR_VAL_VT_SEND_CURSOR_ARROWS

```
public static final java.lang.String GX_VAR_VAL_VT_SEND_CURSOR_ARROWS
```

Determines that the cursor should be set using the arrow keys. Possible value of GX_VAR_VT_SEND_CURSOR.
Constant value: **arrows**

See Also:

[GX_VAR_VT_SEND_CURSOR](#)

GX_VAR_VAL_VT_SEND_CURSOR_NONE

```
public static final java.lang.String GX_VAR_VAL_VT_SEND_CURSOR_NONE
```

Determines that the cursor should NOT be set to the host. Possible value of GX_VAR_VT_SEND_CURSOR.
Constant value: **none**

See Also:

[GX_VAR_VT_SEND_CURSOR](#)

GX_VAR_VT_KEY_JUMP_BETWEEN_INPUT_FIELDS

```
public static final java.lang.String GX_VAR_VT_KEY_JUMP_BETWEEN_INPUT_FIELDS
```

The key ApplinX server should use in order to move between input fields in the host screen. (Example value: "[tab]").
Constant value: **com.sabratec.applinx.vt.blockmode.input_fields.jumpkey**

GX_VAR_VT_AUTO_SKIP_WHEN_FIELD_IS_FULL

```
public static final java.lang.String GX_VAR_VT_AUTO_SKIP_WHEN_FIELD_IS_FULL
```

Flag that states whether or not the cursor will jump automatically from the current field to the next input field when the current input field is filled with content. Possible values: true, false.
Constant value: **com.sabratec.applinx.vt.blockmode.input_fields.auto_skip**

GX_VAR_VT_DYNAMIC_INPUT_CHECK

```
public static final java.lang.String GX_VAR_VT_DYNAMIC_INPUT_CHECK
```

Flag that invokes the dynamic input check. The dynamic input check sends the key used to move between input fields in order to determine in runtime where there are input fields on the host screen. Possible values: true, false.
Constant value: **com.sabratec.applinx.vt.blockmode.input_fields.dynamicCheck**

GX_VAR_APPLICATION_LANGUAGE

```
public static final java.lang.String GX_VAR_APPLICATION_LANGUAGE
```

The language configured for the application used by the current session.

(continued from last page)

Constant value: **com.sabratec.applinx.config.application_language**

GX_VAR_REPLAY_FILE

```
public static final java.lang.String GX_VAR_REPLAY_FILE
```

The replay file configured for the current session.

Constant value: **com.sabratec.applinx.config.replay_file**

GX_VAR_REPLAY_DELAY

```
public static final java.lang.String GX_VAR_REPLAY_DELAY
```

Replay delay. Either a number as string, or [GX_VAR_VAL_REPLAY_DELAY_NO_DELAY](#) or [GX_VAR_VAL_REPLAY_DELAY_SIMULATE_HOST](#).

Constant value: **com.sabratec.applinx.config.replay_delay**

GX_VAR_VAL_REPLAY_DELAY_NO_DELAY

```
public static final java.lang.String GX_VAR_VAL_REPLAY_DELAY_NO_DELAY
```

Run replay as fast as possible. Possible value of GX_VAR_REPLAY_DELAY.

Constant value: **0**

See Also:

[GX_VAR_REPLAY_DELAY](#)

GX_VAR_VAL_REPLAY_DELAY_SIMULATE_HOST

```
public static final java.lang.String GX_VAR_VAL_REPLAY_DELAY_SIMULATE_HOST
```

Run replay as recorded by host. Possible value of GX_VAR_REPLAY_DELAY.

Constant value: **-1**

See Also:

[GX_VAR_REPLAY_DELAY](#)

GX_VAR_TRACE_FILE

```
public static final java.lang.String GX_VAR_TRACE_FILE
```

The trace file configured for the current session.

Constant value: **com.sabratec.applinx.config.trace_file**

GX_VAR_TRANSLATION_LANGUAGE

```
public static final java.lang.String GX_VAR_TRANSLATION_LANGUAGE
```

The translation language used by the current session. These are the possible values: Afrikaans Albanian Arabic Basque Belarusian Bulgarian Catalan Chinese Croatian Czech Danish Dutch English Estonian Faeroese Farsi Finnish French German Greek Hebrew Hungarian Icelandic Indonesian Italian Japanese Korean Latvian Lithuanian Norwegian Polish Portuguese Romanian Russian Serbian Slovak Slovenian Spanish Swedish Thai Turkish Ukrainian Vietnamese

Constant value: **com.sabratec.applinx.localizer.translation_language**

GX_VAR_WORKING_FOLDER

```
public static final java.lang.String GX_VAR_WORKING_FOLDER
```

The working folder for the current session.

Constant value: **com.sabratec.applinx.folder.working_folder**

GX_VAR_SCREEN_DIRECTION

```
public static final java.lang.String GX_VAR_SCREEN_DIRECTION
```

The current screen direction of the application.

Constant value: **com.sabratec.applinx.screen.direction**

See Also:

[GX_VAR_VAL_SCREEN_DIRECTION_RTL](#)

[GX_VAR_VAL_SCREEN_DIRECTION_LTR](#)

GX_VAR_VAL_SCREEN_DIRECTION_RTL

```
public static final java.lang.String GX_VAR_VAL_SCREEN_DIRECTION_RTL
```

Screen direction is right to left. Possible value of GX_VAR_SCREEN_DIRECTION.

Constant value: **RTL**

See Also:

[GX_VAR_SCREEN_DIRECTION](#)

GX_VAR_VAL_SCREEN_DIRECTION_LTR

```
public static final java.lang.String GX_VAR_VAL_SCREEN_DIRECTION_LTR
```

Screen direction is left to right. Possible value of GX_VAR_SCREEN_DIRECTION.

Constant value: **LTR**

See Also:

[GX_VAR_SCREEN_DIRECTION](#)

GX_VAR_RETURN_SCREEN_BUFFERS

```
public static final java.lang.String GX_VAR_RETURN_SCREEN_BUFFERS
```

Indicates which buffer types should be returned in the screen object.

Constant value: **com.sabratec.applinx.screen.buffer**

See Also:

[GX_VAR_VAL_BUFFERS_NONE](#)

[GX_VAR_VAL_BUFFERS_SCREEN_DATA](#)

[GX_VAR_VAL_BUFFERS_FIELD_ATTRIBUTES](#)

GX_VAR_VAL_BUFFERS_NONE

```
public static final java.lang.String GX_VAR_VAL_BUFFERS_NONE
```

No screen buffers are returned. Possible value of GX_VAR_RETURN_SCREEN_BUFFERS.

Constant value: **com.sabratec.applinx.screen.buffer.none**

See Also:

[GX_VAR_RETURN_SCREEN_BUFFERS](#)

GX_VAR_VAL_BUFFERS_SCREEN_DATA

```
public static final java.lang.String GX_VAR_VAL_BUFFERS_SCREEN_DATA
```

Screen data buffer (the fields' content) is returned. Possible value of GX_VAR_RETURN_SCREEN_BUFFERS.

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Constant value: **com.sabratec.applinx.screen.buffer.screen_data**

See Also:

[GX_VAR_RETURN_SCREEN_BUFFERS](#)

GX_VAR_VAL_BUFFERS_FIELD_ATTRIBUTES

```
public static final java.lang.String GX_VAR_VAL_BUFFERS_FIELD_ATTRIBUTES
```

Three field attribute buffers are returned: field attributes, extended field attributes and field color attributes. Possible value of GX_VAR_RETURN_SCREEN_BUFFERS.

Constant value: **com.sabratec.applinx.screen.buffer.attributes**

See Also:

[GX_VAR_RETURN_SCREEN_BUFFERS](#)

GX_VAR_REMOVE_CHARACTER

```
public static final java.lang.String GX_VAR_REMOVE_CHARACTER
```

Indicates that the character configured to be removed should be removed.

Constant value: **com.sabratec.applinx.screen.content.remove_underline**

See Also:

[GX_VAR_VAL_REMOVE_CHARACTER_ALL](#)

[GX_VAR_VAL_REMOVE_CHARACTER_INPUT](#)

[GX_VAR_VAL_REMOVE_CHARACTER_NONE](#)

GX_VAR_VAL_REMOVE_CHARACTER_ALL

```
public static final java.lang.String GX_VAR_VAL_REMOVE_CHARACTER_ALL
```

The character to be removed should be removed from all fields including input fields and labels. Possible value of GX_VAR_REMOVE_CHARACTER.

Constant value: **all**

See Also:

[GX_VAR_REMOVE_CHARACTER](#)

GX_VAR_VAL_REMOVE_CHARACTER_INPUT

```
public static final java.lang.String GX_VAR_VAL_REMOVE_CHARACTER_INPUT
```

The character to be removed should be removed only from input fields. Possible value of GX_VAR_REMOVE_CHARACTER.

Constant value: **input**

See Also:

[GX_VAR_REMOVE_CHARACTER](#)

GX_VAR_VAL_REMOVE_CHARACTER_NONE

```
public static final java.lang.String GX_VAR_VAL_REMOVE_CHARACTER_NONE
```

The character to be removed should not be removed. Possible value of GX_VAR_REMOVE_CHARACTER.

Constant value: **none**

See Also:

[GX_VAR_REMOVE_CHARACTER](#)

GX_VAR_REMOVE_CHARACTER_BOTH_SIDES

```
public static final java.lang.String GX_VAR_REMOVE_CHARACTER_BOTH_SIDES
```

Indicates that the character configured to be removed should be removed from both sides of fields.

Constant value: **com.sabratec.applinx.screen.content.remove_underline.sides**

See Also:

[GX_VAR_REMOVE_CHARACTER_BOTH_SIDES](#)

[GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_ALL_FIELDS](#)

GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_NUMERIC_FIELDS_ONLY

```
public static final java.lang.String  
GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_NUMERIC_FIELDS_ONLY
```

Removes character from both sides of numeric fields only. Possible value of GX_VAR_REMOVE_CHARACTER_BOTH_SIDES.

Constant value: **numeric**

See Also:

[GX_VAR_REMOVE_CHARACTER_BOTH_SIDES](#)

GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_ALL_FIELDS

```
public static final java.lang.String GX_VAR_VAL_REMOVE_CHARACTER_BOTH_SIDES_ALL_FIELDS
```

Removes character from both sides of all fields. Possible value of GX_VAR_REMOVE_CHARACTER_BOTH_SIDES.

Constant value: **all**

See Also:

[GX_VAR_REMOVE_CHARACTER_BOTH_SIDES](#)

GX_VAR_ENCODING_LOGICAL

```
public static final java.lang.String GX_VAR_ENCODING_LOGICAL
```

Indicates that data should be converted from Visual to Logical. Used by right to left languages (such as Hebrew). Possible values: true, false.

Constant value: **com.sabratec.applinx.screen.content.encoding.logical**

GX_VAR_TRIM_FIELDS

```
public static final java.lang.String GX_VAR_TRIM_FIELDS
```

Variable indicating which fields should be trimmed. It is useful when displaying the fields' data.

Constant value: **com.sabratec.applinx.screen.content.trim.fields**

See Also:

[GX_VAR_VAL_TRIM_FIELDS_ALL](#)

[GX_VAR_VAL_TRIM_FIELDS_NONE](#)

[GX_VAR_VAL_TRIM_FIELDS_INPUT_ONLY](#)

[GX_VAR_VAL_TRIM_FIELDS_INPUT_AND_BOTH](#)

GX_VAR_VAL_TRIM_FIELDS_INPUT_ONLY

```
public static final java.lang.String GX_VAR_VAL_TRIM_FIELDS_INPUT_ONLY
```

(continued from last page)

Indicates that data of input fields only should be trimmed. Possible value of `GX_VAR_TRIM_FIELDS`.
Constant value: **input_only**

See Also:

[GX_VAR_TRIM_FIELDS](#)

GX_VAR_VAL_TRIM_FIELDS_INPUT_AND_BOTH

```
public static final java.lang.String GX_VAR_VAL_TRIM_FIELDS_INPUT_AND_BOTH
```

Indicates that data of input fields and application fields defined as "both" should be trimmed. Possible value of `GX_VAR_TRIM_FIELDS`.
Constant value: **input_both**

See Also:

[GX_VAR_TRIM_FIELDS](#)

GX_VAR_VAL_TRIM_FIELDS_NONE

```
public static final java.lang.String GX_VAR_VAL_TRIM_FIELDS_NONE
```

Indicates that field data should not be trimmed. Possible value of `GX_VAR_TRIM_FIELDS`.
Constant value: **none**

See Also:

[GX_VAR_TRIM_FIELDS](#)

GX_VAR_VAL_TRIM_FIELDS_ALL

```
public static final java.lang.String GX_VAR_VAL_TRIM_FIELDS_ALL
```

Indicates that data of all fields should be trimmed. Possible value of `GX_VAR_TRIM_FIELDS`.
Constant value: **all**

See Also:

[GX_VAR_TRIM_FIELDS](#)

GX_VAR_TRIM_MODE

```
public static final java.lang.String GX_VAR_TRIM_MODE
```

Variable indicating the trimming mode of fields.
Constant value: **com.sabratec.applinx.screen.content.trim**

See Also:

[GX_VAR_VAL_TRIM_MODE_BOTH_SIDES](#)

[GX_VAR_VAL_TRIM_MODE_BY_FIELD_DIRECTION](#)

GX_VAR_VAL_TRIM_MODE_BOTH_SIDES

```
public static final java.lang.String GX_VAR_VAL_TRIM_MODE_BOTH_SIDES
```

Indicates trimming should be done on both sides.
Constant value: **bothSides**

GX_VAR_VAL_TRIM_MODE_BY_FIELD_DIRECTION

```
public static final java.lang.String GX_VAR_VAL_TRIM_MODE_BY_FIELD_DIRECTION
```

(continued from last page)

Indicates trimming should be done according to field direction.
Constant value: **fieldDirection**

GX_VAR_INCLUDE_HOST_FIELDS

```
public static final java.lang.String GX_VAR_INCLUDE_HOST_FIELDS
```

Indicates whether to retrieve host fields as well as application fields or just application fields.
Constant value: **com.sabratec.applinx.screen.content.hostFields**

GX_VAR_DISPLAY_HIDDEN_FIELDS

```
public static final java.lang.String GX_VAR_DISPLAY_HIDDEN_FIELDS
```

Indicates whether or not to retrieve the contents of hidden fields.
Constant value: **com.sabratec.applinx.screen.content.displayHiddenFields**

GX_VAR_THROW_EXCEPTION_ON_INVALID_INPUT

```
public static final java.lang.String GX_VAR_THROW_EXCEPTION_ON_INVALID_INPUT
```

Indicates whether or not to throw an exception if an invalid input was sent to a field
Constant value: **com.sabratec.applinx.screen.content.invalidInputThrowsException**

GX_VAR_HOST_WINDOW_ENABLED

```
public static final java.lang.String GX_VAR_HOST_WINDOW_ENABLED
```

Indicates that the host window should be ignored in the current screen. This parameter affects retrieving the content of the screen (all the positions of the fields are absolute), but it does not affect the identification of the screen. Possible values: true, false.
Constant value: **com.sabratec.applinx.screen.window.enabled**

GX_VAR_FIELDS_WITH_SUGGESTED_NAMES

```
public static final java.lang.String GX_VAR_FIELDS_WITH_SUGGESTED_NAMES
```

Constant value: **com.sabratec.applinx.fields.with.suggested.names**

GX_VAR_APPLY_TRANSFORMATIONS

```
public static final java.lang.String GX_VAR_APPLY_TRANSFORMATIONS
```

Indicates if transformations should be applied to the next screen requested. Used with the ACTION_SESSION_GET_SCREEN request. Possible values: true, false.
Constant value: **com.sabratec.applinx.apply.transformations**

GX_VAR_RETURN_FIELDS

```
public static final java.lang.String GX_VAR_RETURN_FIELDS
```

Indicates whether the fields should be returned Used with the ACTION_SESSION_GET_SCREEN request. Possible values: true, false.
Constant value: **com.softwareag.applinx.return.fields**

GX_VAR_NATURAL_DATA_TRANSFER_DELIMITER

```
public static final java.lang.String GX_VAR_NATURAL_DATA_TRANSFER_DELIMITER
```

(continued from last page)

Relevant when downloading CSV files, determines the delimiter to be used. By default "," is used.
Constant value: **com.softwareag.applinx.ndt.delimiter**

GX_VAR_NATURAL_DATA_TRANSFER_HEADERS_USED

```
public static final java.lang.String GX_VAR_NATURAL_DATA_TRANSFER_HEADERS_USED
```

Determines whether to print the name of the field as the column header. Possible values: true, false. By default: false.
Constant value: **com.softwareag.applinx.ndt.headers.used**

GX_VAR_NATURAL_DATA_TRANSFER_STREAM

```
public static final java.lang.String GX_VAR_NATURAL_DATA_TRANSFER_STREAM
```

Determines whether to stream the download file from the host through the server to the client or download the file as a whole.
Constant value: **com.softwareag.applinx.ndt.stream**

GX_FIELD_DATA_TYPE_ALPHANUMERIC

```
public static final int GX_FIELD_DATA_TYPE_ALPHANUMERIC
```

GX_FIELD_DATA_TYPE_NUMERIC

```
public static final int GX_FIELD_DATA_TYPE_NUMERIC
```

GX_FIELD_DATA_TYPE_ALPHA_ONLY

```
public static final int GX_FIELD_DATA_TYPE_ALPHA_ONLY
```

GX_FIELD_DATA_TYPE_DIGITS_ONLY

```
public static final int GX_FIELD_DATA_TYPE_DIGITS_ONLY
```

GX_FIELD_DATA_TYPE_SIGNED_NUMERIC

```
public static final int GX_FIELD_DATA_TYPE_SIGNED_NUMERIC
```

GX_FIELD_DATA_TYPE_KATAKANA_SHIFT

```
public static final int GX_FIELD_DATA_TYPE_KATAKANA_SHIFT
```

GX_FIELD_DATA_TYPE_DBCS_ONLY

```
public static final int GX_FIELD_DATA_TYPE_DBCS_ONLY
```

GX_FIELD_DATA_TYPE_DBCS_CAN_CREATE_SISO

```
public static final int GX_FIELD_DATA_TYPE_DBCS_CAN_CREATE_SISO
```

GX_FIELD_DATA_TYPE_REVERSED

```
public static final int GX_FIELD_DATA_TYPE_REVERSED
```

GX_FIELD_ADJUST_NONE

```
public static final int GX_FIELD_ADJUST_NONE
```

GX_FIELD_ADJUST_RIGHT_ZERO_FILL

```
public static final int GX_FIELD_ADJUST_RIGHT_ZERO_FILL
```

GX_FIELD_ADJUST_RIGHT_BLANK_FILL

```
public static final int GX_FIELD_ADJUST_RIGHT_BLANK_FILL
```

GX_FIELD_ADJUST_RIGHT

```
public static final int GX_FIELD_ADJUST_RIGHT
```

GX_FIELD_ADJUST_LEFT

```
public static final int GX_FIELD_ADJUST_LEFT
```

ANY_IDENTIFIED_SCREEN

```
public static final java.lang.String ANY_IDENTIFIED_SCREEN
```

This constant should be used when adding a wait condition which should wait for any identified screen

Sample code:

```
if (gx_session.getScreen().getName().equals("UNKNOWN")){  
    GXGetScreenRequest req = new GXGetScreenRequest();  
    req.addWaitCondition(new  
GXWaitForScreen(GXBaseObjectConstants.ANY_IDENTIFIED_SCREEN, 5000, 0));  
    gx_session.getScreen(req);  
}
```

Constructors

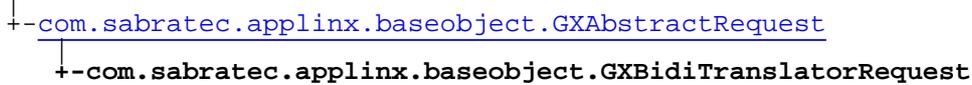
(continued from last page)

GXBaseObjectConstants

```
public GXBaseObjectConstants()
```

com.sabratec.applinx.baseobject Class GXBidiTranslatorRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXBidiTranslatorRequest**
extends [GXAbstractRequest](#)

Constructor Summary

public	GXBidiTranslatorRequest ()
public	GXBidiTranslatorRequest (Vector contents, boolean isRTL)

Method Summary

Vector	getContents ()
boolean	isRTL ()
void	readExternal (java.io.ObjectInput in)
void	setContents (Vector contents)
void	setRTL (boolean isRTL)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

(continued from last page)

Constructors

GXBidiTranslatorRequest

```
public GXBidiTranslatorRequest()
```

GXBidiTranslatorRequest

```
public GXBidiTranslatorRequest(Vector contents,  
                               boolean isRTL)
```

Methods

getContents

```
public Vector getContents()
```

setContents

```
public void setContents(Vector contents)
```

isRTL

```
public boolean isRTL()
```

setRTL

```
public void setRTL(boolean isRTL)
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXBidiTranslatorResponse

java.lang.Object

└-com.sabratec.applinx.baseobject.GXBidiTranslatorResponse

All Implemented Interfaces:

java.io.Externalizable

```
public class GXBidiTranslatorResponse
extends Object
implements java.io.Externalizable
```

Constructor Summary

public	GXBidiTranslatorResponse()
public	GXBidiTranslatorResponse (Map glossary)

Method Summary

Map	getGlossary()
void	readExternal (java.io.ObjectInput in)
void	setGlossary (Map glossary)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface java.io.Externalizable

`readExternal`, `writeExternal`

Constructors

GXBidiTranslatorResponse

```
public GXBidiTranslatorResponse()
```

(continued from last page)

GXBidiTranslatorResponse

```
public GXBidiTranslatorResponse(Map glossary)
```

Methods

getGlossary

```
public Map getGlossary()
```

setGlossary

```
public void setGlossary(Map glossary)
```

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXBinaryRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

```
public class GXBinaryRequest
extends GXAbstractRequest
```

Constructor Summary

public	GXBinaryRequest()
public	GXBinaryRequest (byte[] data)

Method Summary

byte[]	getData()
void	readExternal (java.io.ObjectInput in)
void	setData (byte[] data)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

GXBinaryRequest

```
public GXBinaryRequest()
```

(continued from last page)

GXBinaryRequest

```
public GXBinaryRequest(byte[] data)
```

Methods

getData

```
public byte[] getData()
```

setData

```
public void setData(byte[] data)
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

com.sabratec.applinx.baseobject Class GXBinaryResponse

java.lang.Object

└─com.sabratec.applinx.baseobject.GXBinaryResponse

All Implemented Interfaces:

java.io.Serializable

```
public class GXBinaryResponse
extends Object
implements java.io.Serializable
```

Constructor Summary

public	GXBinaryResponse (byte[] data)
--------	------------------------------------------------

Method Summary

byte[]	getData ()
--------	----------------------------

void	setData (byte[] data)
------	---------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXBinaryResponse

```
public GXBinaryResponse(byte[] data)
```

Methods

getData

```
public byte[] getData()
```

setData

```
public void setData(byte[] data)
```

com.sabratec.applinx.baseobject Class GXClientApplicationConfig

java.lang.Object

↳ com.sabratec.applinx.baseobject.GXClientApplicationConfig

All Implemented Interfaces:

java.io.Serializable

```
public class GXClientApplicationConfig
extends Object
implements java.io.Serializable
```

Data structure that contains the application configuration retrieved from the server.

See Also:

[GXIReadOnlyBaseObject.getApplicationConfig\(\)](#)

Constructor Summary

public	GXClientApplicationConfig()
public	GXClientApplicationConfig (String applicationName, String hostDeviceType, String hostAddress, int language, boolean trimFields, boolean naturalDataTransferSupported, String gctFileName, int nonActivityTimeout, String deviceName, String keyboardMappingXML) Create a new client application configuration instance.

Method Summary

String	getApplicationName()
String	getHostAddress()
String	getHostDeviceName()
String	getHostDeviceType()
String	getKeyboardMappingXML()
int	getLanguage()
int	getNonAtivityTimeOut()
boolean	isNaturalDataTransferSupported()
boolean	isTrimFields()

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXClientApplicationConfig

```
public GXClientApplicationConfig()
```

GXClientApplicationConfig

```
public GXClientApplicationConfig(String applicationName,  
                                String hostDeviceType,  
                                String hostAddress,  
                                int language,  
                                boolean trimFields,  
                                boolean naturalDataTransferSupported,  
                                String gctFileName,  
                                int nonActivityTimeout,  
                                String deviceName,  
                                String keyboardMappingXML)
```

Create a new client application configuration instance.

Methods

getApplicationName

```
public String getApplicationName()
```

Returns:

the application name

getHostDeviceType

```
public String getHostDeviceType()
```

Returns:

the host's device type

getHostDeviceName

```
public String getHostDeviceName()
```

Returns:

the host's device name

getHostAddress

```
public String getHostAddress()
```

(continued from last page)

Returns:

the host's address

getLanguage

```
public int getLanguage()
```

Returns:

the application language

isTrimFields

```
public boolean isTrimFields()
```

Returns:

whether the configuration is defined to trim fields.

isNaturalDataTransferSupported

```
public boolean isNaturalDataTransferSupported()
```

Returns:

whether the host supports Natural Data Transfer.

getNonAtivityTimeOut

```
public int getNonAtivityTimeOut()
```

Returns:

the Non Ativity Time Out (milisecends)

getKeyboardMappingXML

```
public String getKeyboardMappingXML()
```

com.sabratec.applinx.baseobject Class GXClientBaseObjectFactory

java.lang.Object

└-com.sabratec.applinx.baseobject.GXClientBaseObjectFactory

All Implemented Interfaces:

[GXIBaseObjectFetcher](#)

public class **GXClientBaseObjectFactory**
extends Object
implements [GXIBaseObjectFetcher](#)

Constructor Summary

public	GXClientBaseObjectFactory()
--------	---------------------------------------------

Method Summary

static void	detachSession (GXIReadOnlyBaseObject baseObject)
static void	endSession (GXEndSessionRequest endSessionRequest)
static void	endSession (GXIClientBaseObject baseObject)
GXIReadOnlyBaseObject	fetch (GXAttachToSessionRequest attachRequest)
static GXIClientBaseObject	getBaseObject (GXAttachToSessionRequest attachRequest)
static GXIClientBaseObject	getBaseObject (GXCreateSessionRequest connectRequest)
static GXIReadOnlyBaseObject	getReadOnlyBaseObject (GXAttachToSessionRequest attachRequest) PLEASE PAY ATTENTION!!! This method invokes also via reflection mechanism in class: GXTagRenderer

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIBaseObjectFetcher](#)

[fetch](#)

Constructors

(continued from last page)

GXClientBaseObjectFactory

```
public GXClientBaseObjectFactory()
```

Methods

getBaseObject

```
public static GXIClientBaseObject getBaseObject(GXCreateSessionRequest connectRequest)
    throws GXConnectionException,
           GXGeneralException
```

getBaseObject

```
public static GXIClientBaseObject getBaseObject(GXAttachToSessionRequest
attachRequest)
    throws GXConnectionException,
           GXGeneralException
```

getReadOnlyBaseObject

```
public static GXIReadOnlyBaseObject getReadOnlyBaseObject(GXAttachToSessionRequest
attachRequest)
    throws GXConnectionException,
           GXGeneralException
```

PLEASE PAY ATTENTION!!! This method invokes also via reflection mechanism in class: GXTagRenderer

detachSession

```
public static void detachSession(GXIReadOnlyBaseObject baseObject)
    throws GXGeneralException,
           GXConnectionException
```

endSession

```
public static void endSession(GXIClientBaseObject baseObject)
    throws GXGeneralException,
           GXConnectionException
```

endSession

```
public static void endSession(GXEndSessionRequest endSessionRequest)
    throws GXGeneralException,
           GXConnectionException
```

(continued from last page)

fetch

```
public GXReadOnlyBaseObject fetch(GXAttachToSessionRequest attachRequest)
```

com.sabratec.applinx.baseobject Class GXConnectionException

```

java.lang.Object
  |
  +-- GXExceptionWithErrorCode
       |
       +-- com.sabratec.applinx.baseobject.GXGeneralException
            |
            +-- com.sabratec.applinx.baseobject.GXConnectionException
  
```

```

public class GXConnectionException
extends GXGeneralException
  
```

Exception indicating that a connection problems occurred between the client and ApplinX server or between ApplinX server and the host.

Constructor Summary

public	GXConnectionException (String message, Throwable e, int errorCode)
--------	------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

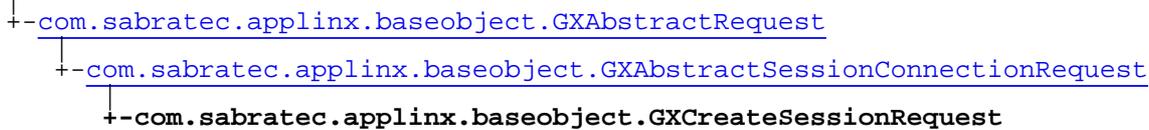
GXConnectionException

```

public GXConnectionException(String message,
                             Throwable e,
                             int errorCode)
  
```

com.sabratec.applinx.baseobject Class GXCreateSessionRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

```
public class GXCreateSessionRequest
extends GXAbstractSessionConnectionRequest
```

This class holds all the parameters needed for the getBaseObject() method of GXClientBaseObjectFactory.

Constructor Summary

public	GXCreateSessionRequest()
public	GXCreateSessionRequest (GXIAApplicationServerContext serverContext, String applicationName) Constructor for local connection to ApplinX Server.
public	GXCreateSessionRequest (String serverURL, String applicationName, String sessionID, String password, String sessionDescription, String hostSessionId, String hostSessionPassword) Constructor for all parameters besides host service.
public	GXCreateSessionRequest (String serverURL, String applicationName, String sessionID, String password, String sessionDescription, String hostService) Constructor for all parameters.

Method Summary

String	getConnectionPool()
String	getHostNewPassword()
String	getHostPassword()
String	getHostService() Deprecated. @see getConnectionPool()
String	getHostUserName()
String	getSessionDescription()
boolean	isFailOnWarning()

void	readExternal (java.io.ObjectInput in)
void	setConnectionPool (String pool) /** Set the session to use a predefined connection pool.
void	setFailOnWarning (boolean failOnWarning) Set whether to throw an exception as for error on connection warnings.
void	setHostNewPassword (String pwd) Sets a password that will be used to replace the current host password.
void	setHostPassword (String pwd) Sets a password that will be used to connect to the host.
void	setHostUserName (String id) Sets a user ID that will be used to connect to the host.
void	setSessionDescription (String description) Set the session description.
void	setUseHostService (String serviceName) Deprecated. @see setConnectionPool(String)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class[com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest](#)

[getApplicationName](#), [getClientId](#), [getServerContext](#), [getServerURL](#), [getSessionID](#),
[getSessionPassword](#), [readExternal](#), [setApplicationName](#), [setClientId](#), [setServerContext](#),
[setServerURL](#), [setSessionID](#), [setSessionPassword](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#),
[readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

GXCreateSessionRequest

```
public GXCreateSessionRequest()
```

(continued from last page)

GXCreateSessionRequest

```
public GXCreateSessionRequest(GXIAplicationServerContext serverContext,
                               String applicationName)
```

Constructor for local connection to ApplinX Server.

Parameters:

`serverContext` - context of ApplinX server.

`applicationName` - name of a valid application in ApplinX server (at the given URL).

GXCreateSessionRequest

```
public GXCreateSessionRequest(String serverURL,
                               String applicationName,
                               String sessionID,
                               String password,
                               String sessionDescription,
                               String hostSessionId,
                               String hostSessionPassword)
```

Constructor for all parameters besides host service.

Parameters:

`serverURL` - URL of ApplinX server.

`applicationName` - name of a valid application in ApplinX server (at the given URL).

`sessionID` - ID for the session that will be created on ApplinX server.

`password` - password for the connection between the base object and ApplinX server.

`sessionDescription` - description string for the session. It will appear in the sessions list in the Administrator.

`hostSessionId` - host connection username. Relevant for SSH or Natural UNIX hosts.

`hostSessionPassword` - host connection password. Relevant for SSH or Natural UNIX hosts.

GXCreateSessionRequest

```
public GXCreateSessionRequest(String serverURL,
                               String applicationName,
                               String sessionID,
                               String password,
                               String sessionDescription,
                               String hostService)
```

Constructor for all parameters.

Parameters:

`serverURL` - URL of ApplinX server.

`applicationName` - name of a valid application in ApplinX server (at the given URL).

`sessionID` - ID for the session that will be created on ApplinX server.

`password` - password for the connection between the base object and ApplinX server.

`sessionDescription` - description string for the session. It will appear in the sessions list in the Administrator.

`hostService` - connect to a connection from a pool of a host service.

Methods

setSessionDescription

```
public void setSessionDescription(String description)
```

Set the session description.

Parameters:

(continued from last page)

description - the description of this session

getSessionDescription

```
public String getSessionDescription()
```

Returns:

The session description.

setUseHostService

```
public void setUseHostService(String serviceName)
```

Deprecated. @see [setConnectionPool\(String\)](#)

Set the session to use a predefined host service.

Parameters:

serviceName - the host service to use

setConnectionPool

```
public void setConnectionPool(String pool)
```

/** Set the session to use a predefined connection pool.

Parameters:

pool - the connection pool to use

getHostService

```
public String getHostService()
```

Deprecated. @see [getConnectionPool\(\)](#)

Returns:

the configured host service of this session. null if no service was defined.

getConnectionPool

```
public String getConnectionPool()
```

Returns:

the configured host service of this session. null if no service was defined.

getHostUserName

```
public String getHostUserName()
```

Returns:

The user ID configured for the connection to the host that will be created by this request.

(continued from last page)

See Also:

[setHostUserName\(String\)](#)

getHostPassword

```
public String getHostPassword()
```

Returns:

The password configured for the connection to the host that will be created by this request.

See Also:

[setHostUserName\(String\)](#)

getHostNewPassword

```
public String getHostNewPassword()
```

Returns:

The password configured for the to replace the current host password.

See Also:

[setHostNewPassword\(String\)](#)

setHostUserName

```
public void setHostUserName(String id)
```

Sets a user ID that will be used to connect to the host. Setting host user ID and host user password is relevant only for hosts with SSH or host of type **Natural UNIX**.

Parameters:

id - The user ID for the connection.

setHostPassword

```
public void setHostPassword(String pwd)
```

Sets a password that will be used to connect to the host.

Parameters:

pwd - The password for the connection

See Also:

[setHostUserName\(String\)](#)

setHostNewPassword

```
public void setHostNewPassword(String pwd)
```

Sets a password that will be used to replace the current host password.

Parameters:

pwd - The new password

(continued from last page)

See Also:

[setHostUserName\(String\)](#)

isFailOnWarning

```
public boolean isFailOnWarning()
```

Returns:

Whether to throw an exception in case of warnings, as in errors.

setFailOnWarning

```
public void setFailOnWarning(boolean failOnWarning)
```

Set whether to throw an exception as for error on connection warnings. For example: if the password is about to expire in a few days.
By default false.

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXCreateSessionResponse

java.lang.Object

└─com.sabratec.applinx.baseobject.GXCreateSessionResponse

All Implemented Interfaces:

java.io.Serializable

```
public class GXCreateSessionResponse
extends Object
implements java.io.Serializable
```

Response data message for the connect request

See Also:

ACTION_SESSION_CONNECT

Constructor Summary

public	GXCreateSessionResponse (String userId) Create a new create session response message.
--------	----------------------------------------------------------------------------------------------------------

Method Summary

String	getUserId () Return the actual ID of the user.
--------	-------------------------------------------------------------------

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXCreateSessionResponse

```
public GXCreateSessionResponse(String userId)
```

Create a new create session response message.

Parameters:

userId - the actual ID of the connected user.

Methods

getUserId

```
public String getUserId()
```

Return the actual ID of the user.

com.sabratec.applinx.baseobject Class GXCursor

java.lang.Object

└─com.sabratec.applinx.baseobject.GXCursor

All Implemented Interfaces:

java.io.Serializable

```
public class GXCursor
extends Object
implements java.io.Serializable
```

This class represents the cursor position to be set to the host screen. The cursor is set according to the field it is in.

Constructor Summary

public	GXCursor()
public	GXCursor(GXPosition pos) Sets the cursor at the specified position.
public	GXCursor(String fieldName) Sets the cursor to the specified appfield.
public	GXCursor(String fieldName, int index) Sets the cursor to the specified appfield in the specified index.

Method Summary

int	getFieldIndex()
String	getFieldName()
GXPosition	getPosition()
void	setFieldIndex(int index)
void	setFieldName(String fieldName)
void	setPosition(GXPosition pos)
String	toString()

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

(continued from last page)

Constructors

GXCursor

```
public GXCursor()
```

GXCursor

```
public GXCursor(GXPosition pos)
```

Sets the cursor at the specified position. If the field is an input field, the cursor will be set at the end of the text in it.

Parameters:

pos - the position where the cursor should be set.

GXCursor

```
public GXCursor(String fieldName)
```

Sets the cursor to the specified appfield. If the field is a label, the cursor will be set at the start position of the field. If the field is an input, the cursor will be set at the end of the text in the field. If the field is a multiple appfield, the cursor will be set to the first index of the appfield.

Parameters:

fieldName - the name of the appfield in which the cursor should be set.

GXCursor

```
public GXCursor(String fieldName,  
                int index)
```

Sets the cursor to the specified appfield in the specified index. If the field is a label, the cursor will be set at the start position of the field. If the field is an input, the cursor will be set at the end of the text in the field.

Parameters:

fieldName - the name of the appfield in which the cursor should be set.

index - The index of the multiple appfield in which the cursor should be set.

Methods

setPosition

```
public void setPosition(GXPosition pos)
```

Parameters:

pos - the position to which to set the cursor position.

See Also:

[GXCursor\(GXPosition\)](#)

getPosition

```
public GXPosition getPosition()
```

(continued from last page)

Returns:

the position set for the cursor.

setFieldName

```
public void setFieldName(String fieldName)
```

Parameters:

fieldName - the name of the appfield in which the cursor should be set.

See Also:

[GXCursor\(String\)](#)

getFieldName

```
public String getFieldName()
```

Returns:

the field name set for the cursor.

setFieldIndex

```
public void setFieldIndex(int index)
```

Parameters:

index - the index of the multiple appfield in which the cursor should be set.

See Also:

[GXCursor\(String, int\)](#)

getFieldIndex

```
public int getFieldIndex()
```

Returns:

the multiple appfield index set for the cursor.

toString

```
public String toString()
```

com.sabratec.applinx.baseobject Interface GXDebuggableRequest

All Known Implementing Classes:

[GXTableRequest](#), [GXPathRequest](#), [GXNavigateRequest](#)

public interface **GXDebuggableRequest**

Generic interface for requests that perform an action that can be debugged.

Method Summary

boolean	isDebugMode()
void	setDebugMode() Sets the request to be executed in debug mode.

Methods

setDebugMode

public void **setDebugMode()**

Sets the request to be executed in debug mode.

isDebugMode

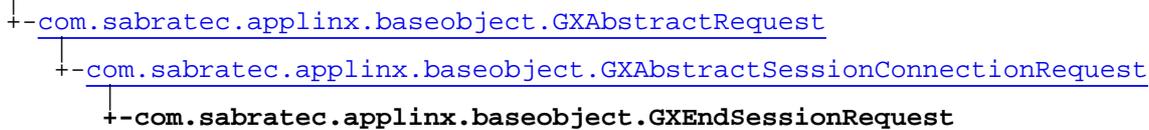
public boolean **isDebugMode()**

Returns:

the status of the debug mode flag.

com.sabratec.applinx.baseobject Class GXEndSessionRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

```
public class GXEndSessionRequest
extends GXAbstractSessionConnectionRequest
```

Settings for disconnect request.

Constructor Summary

public	GXEndSessionRequest()
public	GXEndSessionRequest (GXIApplicationServerContext serverContext)

Method Summary

void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class

[com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest](#)

[getApplicationName](#), [getClientId](#), [getServerContext](#), [getServerURL](#), [getSessionID](#), [getSessionPassword](#), [readExternal](#), [setApplicationName](#), [setClientId](#), [setServerContext](#), [setServerURL](#), [setSessionID](#), [setSessionPassword](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

(continued from last page)

Constructors

GXEndSessionRequest

```
public GXEndSessionRequest()
```

GXEndSessionRequest

```
public GXEndSessionRequest(GXIApplicationServerContext serverContext)
```

Parameters:

serverContext - the server context to disconnect from.

Methods

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXField

java.lang.Object

└-com.sabratec.applinx.baseobject.GXField

All Implemented Interfaces:

java.io.Serializable, [GXIField](#)

public class **GXField**
 extends Object
 implements [GXIField](#), java.io.Serializable

This class represents one field on the host screen. This field can be a host field or an application field, or an instance within a multiple appfield.

Field Summary	
public static final	FIELD_TYPE_APPFIELD Value: 0
public static final	FIELD_TYPE_HOSTFIELD Value: 1

Fields inherited from interface com.sabratec.applinx.baseobject.GXIField
TYPE_APPFIELD , TYPE_HOSTFIELD , TYPE_HOSTKEY_FIELD , TYPE_MULTIPLE_APPFIELD

Constructor Summary	
public	GXField()

Method Summary	
boolean	equals (Object obj)
int	getBGColor ()
String	getContent ()
int	getDataType ()
int	getFGColor ()
int	getIndex ()
String	getInputMask ()

int	getLength()
String	getName()
GXPosition	getPosition()
String	getScreenName()
int	getScreenSequenceNumber()
String	getVisualContent()
boolean	isAppField()
boolean	isAutoCursorJump()
boolean	isAutoEnter()
boolean	isBlinking()
boolean	isHighIntensified()
boolean	isHostKeyField()
boolean	isMultiple()
boolean	isProtected()
boolean	isReversedVideo()
boolean	isUnderlined()
boolean	isVisible()

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface `com.sabratec.applinx.baseobject.GXIField`

[getBGColor](#), [getContent](#), [getDataType](#), [getFGColor](#), [getIndex](#), [getInputMask](#), [getLength](#), [getName](#), [getPosition](#), [getScreenName](#), [getScreenSequenceNumber](#), [getVisualContent](#), [isAppField](#), [isAutoCursorJump](#), [isAutoEnter](#), [isBlinking](#), [isHighIntensified](#), [isMultiple](#), [isProtected](#), [isReversedVideo](#), [isUnderlined](#), [isVisible](#)

Methods inherited from interface `com.sabratec.applinx.baseobject.table.GXICellable`

[getContent](#)

(continued from last page)

Fields

FIELD_TYPE_APPFIELD

```
public static final int FIELD_TYPE_APPFIELD
```

Constant value: 0

FIELD_TYPE_HOSTFIELD

```
public static final int FIELD_TYPE_HOSTFIELD
```

Constant value: 1

Constructors

GXField

```
public GXField()
```

Methods

getScreenName

```
public String getScreenName()
```

getScreenSequenceNumber

```
public int getScreenSequenceNumber()
```

getName

```
public String getName()
```

getIndex

```
public int getIndex()
```

getPosition

```
public GXPosition getPosition()
```

(continued from last page)

getLength

```
public int getLength()
```

getContent

```
public String getContent()
```

isProtected

```
public boolean isProtected()
```

isVisible

```
public boolean isVisible()
```

isHighIntensified

```
public boolean isHighIntensified()
```

isAutoEnter

```
public boolean isAutoEnter()
```

getBGColor

```
public int getBGColor()
```

getFGColor

```
public int getFGColor()
```

isAutoCursorJump

```
public boolean isAutoCursorJump()
```

isAppField

```
public boolean isAppField()
```

(continued from last page)

isHostKeyField

```
public boolean isHostKeyField()
```

isMultiple

```
public boolean isMultiple()
```

isBlinking

```
public boolean isBlinking()
```

getDataType

```
public int getDataType()
```

getInputMask

```
public String getInputMask()
```

equals

```
public boolean equals(Object obj)
```

getVisualContent

```
public String getVisualContent()
```

isUnderlined

```
public boolean isUnderlined()
```

isReversedVideo

```
public boolean isReversedVideo()
```

com.sabratec.applinx.baseobject Class GXFieldCollection

java.lang.Object

↳ com.sabratec.applinx.baseobject.GXFieldCollection

All Implemented Interfaces:

java.io.Serializable, [GXIFieldCollection](#)

public class **GXFieldCollection**
 extends Object
 implements [GXIFieldCollection](#), java.io.Serializable

This class is a collection of fields. It analyzes the fields array and allows retrieval of fields according to name, multiple index, etc.

Constructor Summary

public	GXFieldCollection (GXIField[] fields)
public	GXFieldCollection (Vector fields)

Method Summary

boolean	equals (Object obj)
GXIFieldCollection	getAppFields ()
GXIField	getFieldAt (int index)
GXIField	getFieldByPosition (GXPosition position)
int	getFieldCount ()
GXIField	getFieldInstance (String name, int fieldIndex)
GXIField[]	getFields ()
GXIFieldCollection	getFields (String name)
GXIField	getFirstFieldInstance (String name)
GXIField	getLastFieldInstance (String name)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIFieldCollection](#)

[getAppFields](#), [getFieldAt](#), [getFieldByPosition](#), [getFieldCount](#), [getFieldInstance](#),
[getFields](#), [getFields](#), [getFirstFieldInstance](#), [getLastFieldInstance](#)

Constructors

GXFieldCollection

```
public GXFieldCollection(GXIField\[\] fields)
```

GXFieldCollection

```
public GXFieldCollection(Vector fields)
```

Methods

getFields

```
public GXIField\[\] getFields()
```

getFieldAt

```
public GXIField getFieldAt(int index)
```

getFieldCount

```
public int getFieldCount()
```

getFields

```
public GXIFieldCollection getFields(String name)
```

getAppFields

```
public GXIFieldCollection getAppFields()
```

Returns:

all appfields in current collection.

(continued from last page)

getFirstFieldInstance

```
public GXIField getFirstFieldInstance(String name)
```

Returns:

first instance for this appfield in current collection.

getLastFieldInstance

```
public GXIField getLastFieldInstance(String name)
```

Returns:

last instance for this appfield in current collection.

getFieldInstance

```
public GXIField getFieldInstance(String name,  
int fieldIndex)
```

Returns:

the instance at the given index of this appfield.

getFieldByPosition

```
public GXIField getFieldByPosition(GXPosition position)
```

Returns:

hostfield/appfield by position.

equals

```
public boolean equals(Object obj)
```

com.sabratec.applinx.baseobject Class GXGeneralException

java.lang.Object

└-GXExceptionWithErrorCode

└-com.sabratec.applinx.baseobject.GXGeneralException

Direct Known Subclasses:

[GXColumnNotFoundException](#), [GXPathException](#), [GXNavigateException](#), [GXNaturalDataTransferException](#), [GXConnectionException](#)

```
public class GXGeneralException
extends GXExceptionWithErrorCode
```

Exception indicating general error.

Constructor Summary

public	GXGeneralException (String message, Throwable e, int errorCode)
--------	---------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXGeneralException

```
public GXGeneralException(String message,
                          Throwable e,
                          int errorCode)
```

com.sabratec.applinx.baseobject Class GXGetScreenRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXGetScreenRequest**
extends [GXAbstractRequest](#)

Settings for the getScreen request.

Constructor Summary

public	GXGetScreenRequest()
--------	--------------------------------------

Method Summary

void	addWaitCondition(GXWaitCondition waitCondition) Adds a wait condition to the getScreen request.
GXWaitCondition[]	getWaitCoditions()
void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

GXGetScreenRequest

public **GXGetScreenRequest**()

(continued from last page)

Methods

addWaitCondition

```
public void addWaitCondition(GXWaitCondition waitCondition)
```

Adds a wait condition to the getScreen request. The wait conditions will be executed with a logical AND between them according to the order they were added to the request. Each type of wait condition has its own class, which implements GXWaitCondition.

Parameters:

waitCondition - the wait condition to add to the request.

getWaitCodings

```
public GXWaitCondition\[\] getWaitCodings()
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Interface GXIBaseObjectFetcher

All Known Implementing Classes:
[GXClientBaseObjectFactory](#)

public interface **GXIBaseObjectFetcher**

Method Summary

GXIReadOnlyBaseObject	fetch (GXAttachToSessionRequest request)
---------------------------------------	---------------------------------------------------------------------------

Methods

fetch

public [GXIReadOnlyBaseObject](#) **fetch**([GXAttachToSessionRequest](#) request)

com.sabratec.applinx.baseobject Interface GXIClientBaseObject

All Superinterfaces:

[GXIReadOnlyBaseObject](#)

All Subinterfaces:

[GXINaturalDataTransferClientBaseObject](#)

public interface **GXIClientBaseObject**
extends [GXIReadOnlyBaseObject](#)

This object represents a live session against the ApplinX server and the host. The different methods in the base object session connect to ApplinX server, execute an action on the host and return a response.

Method Summary	
GXPathResponse	executePath (GXPathRequest request) Executes a path on the host, and returns the response of the path (screens, variables).
GXPathResponse	executePath (String pathName) Executes a path on the host, and returns the response of the path (screens, variables).
GXIProcedureResponse	executeProcedure (GXIExtendedProcedureRequest request) Use this method to execute Procedure Clients generated in the current ApplinX version
GXIProcedureResponse	executeProcedure (GXIProcedureRequest request) Deprecated. Execute the Procedure client with the <code>GXIClientBaseObject.executeProcedure(GXIProcedureRequest, String, String)</code> method, or with the <code>GXIClientBaseObject.executeProcedure(GXIExtendedProcedureRequest)</code> method.
GXIProcedureResponse	executeProcedure (GXIProcedureRequest request, String serviceName, String methodName) Use this method in order to execute Procedure Clients generated in ApplinX version 5.x, 8.0 and 8.1
GXITable	getTable () Deprecated. Replaced with <code>GXIClientBaseObject.getScreen().getTable()</code> which returns a table associated with the current screen
GXITable	getTable (GXTableRequest request) Deprecated. Replaced with <code>GXIClientBaseObject.executeProcedure</code> which returns structured data. Refer to the documentation for further details.
GXITable	getTable (String tableName) Deprecated. Replaced with <code>GXIClientBaseObject.executeProcedure</code> which returns structured data.
void	navigateTo (GXNavigateRequest request) Navigates from the current screen to the destination screen using a given map.
void	refreshScreen () Refreshes the current local screen that <code>getScreen()</code> returns with contents from the host.

void	sendKeys (GXSendKeysRequest request) A request that sets input fields, cursor position and sends a key to the host.
void	sendKeys (String key) A request that sends a key to the host.

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIReadOnlyBaseObject](#)

[getApplicationConfig](#), [getScreen](#), [getScreen](#), [getSeqScreenNumber](#), [getSessionID](#), [isReadOnly](#)

Methods

sendKeys

```
public void sendKeys(GXSendKeysRequest request)
    throws GXConnectionException,
           GXGeneralException
```

A request that sets input fields, cursor position and sends a key to the host. If not host key is specified [enter] is sent to the host.

Parameters:

request - the sendKeys request.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.
[GXGeneralException](#) - Other errors.

sendKeys

```
public void sendKeys(String key)
    throws GXConnectionException,
           GXGeneralException
```

A request that sends a key to the host.

Parameters:

key - the host key to send.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.
[GXGeneralException](#) - Other errors.

executePath

```
public GXPathResponse executePath(GXPathRequest request)
    throws GXConnectionException,
           GXPathException,
           GXGeneralException
```

Executes a path on the host, and returns the response of the path (screens, variables).

Parameters:

request - the path request.

(continued from last page)

Returns:

the path's response.

Throws:[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.[GXPathException](#) - Errors in path execution.[GXGeneralException](#) - Other errors.

executePath

```
public GXPathResponse executePath(String pathName)
    throws GXConnectionException,
           GXPathException,
           GXGeneralException
```

Executes a path on the host, and returns the response of the path (screens, variables).

Parameters:

pathName - the name of the path to be executed.

Returns:

the path's response.

Throws:[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.[GXPathException](#) - Errors in path execution.[GXGeneralException](#) - Other errors.

executeProcedure

```
public GXIPecedureResponse executeProcedure(GXIPecedureRequest request,
    String serviceName,
    String methodName)
    throws GXConnectionException,
           GXGeneralException
```

Use this method in order to execute Procedure Clients generated in ApplinX version 5.x, 8.0 and 8.1

Parameters:

request - the request object of the method. The class is a generated class of procedure client, e.g: <ProcedureName>Request

Returns:

the response object. The class is a generated class of procedure client, e.g: <ProcedureName>Response

Throws:[GXConnectionException](#)[GXGeneralException](#)

executeProcedure

```
public GXIPecedureResponse executeProcedure(GXIPecedureRequest request)
    throws GXConnectionException,
           GXGeneralException
```

Deprecated. *Execute the Procedure client with the**GXIClientBaseObject.executeProcedure(GXIPecedureRequest, String, String) method, or with the GXIClientBaseObject.executeProcedure(GXIExtendedProcedureRequest) method.*

(continued from last page)

Parameters:

request - the request object of the method. The class is a generated class of procedure client, e.g: <ProcedureName>Request

Returns:

the response object. The class is a generated class of procedure client, e.g: <ProcedureName>Response

Throws:

[GXConnectionException](#)

[GXGeneralException](#)

executeProcedure

```
public GXIProcedureResponse executeProcedure(GXIExtendedProcedureRequest request)
    throws GXConnectionException,
           GXGeneralException
```

Use this method to execute Procedure Clients generated in the current ApplinX version

Parameters:

request - the request object of the method. The class is a generated class of procedure client, e.g: <ProcedureName>Request

Returns:

the response object. The class is a generated class of procedure client, e.g: <ProcedureName>Response

Throws:

[GXConnectionException](#)

[GXGeneralException](#)

getTable

```
public GXITable getTable(GXTableRequest request)
    throws GXConnectionException,
           GXGeneralException
```

Deprecated. Replaced with `GXIClientBaseObject.executeProcedure` which returns structured data. Refer to the documentation for further details.

This method retrieves a table from ApplinX server according to the `GXTableRequest`.

Parameters:

request - the table request.

Returns:

the table.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - Other errors.

getTable

```
public GXITable getTable(String tableName)
    throws GXConnectionException,
           GXGeneralException
```

Deprecated. Replaced with `GXIClientBaseObject.executeProcedure` which returns structured data.

(continued from last page)

This method retrieves the path or screen associated table of the specified name from the ApplinX server.

Parameters:

tableName - the table's name as defined in the ApplinX repository.

Returns:

the table.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - Other errors.

getTable

```
public GXITable getTable()  
    throws GXConnectionException,  
           GXGeneralException
```

Deprecated. Replaced with `GXIClientBaseObject.getScreen().getTable()` which returns a table associated with the current screen

This method retrieves a table for the current host screen, if such is defined, including its full details. This is assuming the screen contains only one table in it. If more than one table exists for the screen, no table is returned.

Returns:

the screen's table.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - Other errors.

navigateTo

```
public void navigateTo(GXNavigateRequest request)  
    throws GXConnectionException,  
           GXNavigateException,  
           GXGeneralException
```

Navigates from the current screen to the destination screen using a given map.

Parameters:

request - the navigation request.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

[GXNavigateException](#) - Errors in navigation process.

[GXGeneralException](#) - Other errors.

refreshScreen

```
public void refreshScreen()  
    throws GXConnectionException,  
           GXGeneralException
```

Refreshes the current local screen that `getScreen()` returns with contents from the host.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

(continued from last page)

[GXGeneralException](#) - Other errors.

See Also:

[GXReadOnlyBaseObject.getScreen\(\)](#)

com.sabratec.applinx.baseobject Interface GXIField

All Superinterfaces:

[GXICellable](#)

All Known Implementing Classes:

[GXFieldTableCell](#), [GXField](#)

public interface **GXIField**
extends [GXICellable](#)

This class represents one field in the host screen. When there are multiple application fields, it represents one index of the multiple application field.

Note: The field object is a snapshot of a field as it was taken from a host screen. You cannot set properties to the field. In order to set content to fields on the host screen, use the session object and the request objects.

Field Summary

public static final	TYPE_APPFIELD Value: 1
public static final	TYPE_HOSTFIELD Value: 0
public static final	TYPE_HOSTKEY_FIELD Value: 3
public static final	TYPE_MULTIPLE_APPFIELD Value: 2

Method Summary

int	getBGColor()
String	getContent()
int	getDataType()
int	getFGColor()
int	getIndex()
String	getInputMask()
int	getLength()

String	getName()
GXPosition	getPosition()
String	getScreenName()
int	getScreenSequenceNumber()
String	getVisualContent()
boolean	isAppField()
boolean	isAutoCursorJump()
boolean	isAutoEnter()
boolean	isBlinking()
boolean	isHighIntensified()
boolean	isMultiple()
boolean	isProtected()
boolean	isReversedVideo()
boolean	isUnderlined()
boolean	isVisible()

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXICellable](#)

[getContent](#)

Fields

TYPE_HOSTFIELD

```
public static final int TYPE_HOSTFIELD
```

Constant value: 0

TYPE_APPFIELD

```
public static final int TYPE_APPFIELD
```

Constant value: 1

TYPE_MULTIPLE_APPFIELD

```
public static final int TYPE_MULTIPLE_APPFIELD
```

Constant value: 2

TYPE_HOSTKEY_FIELD

```
public static final int TYPE_HOSTKEY_FIELD
```

Constant value: 3

Methods

getScreenName

```
public String getScreenName()
```

Returns:

the name (ID) of the screen, from which this field was taken.

getScreenSequenceNumber

```
public int getScreenSequenceNumber()
```

Returns:

the sequential number of the screen, from which this field was taken.

getName

```
public String getName()
```

Returns:

Returns the name of the field (for application fields). If the field is a host field, it returns null.

getIndex

```
public int getIndex()
```

Returns:

the index of the field instance (if it is part of a multiple application field).

getPosition

```
public GXPosition getPosition()
```

(continued from last page)

Returns:

the position of the field in the host screen.

getLength

```
public int getLength()
```

Returns:

the length of the field.

getContent

```
public String getContent()
```

Returns:

the content of the field (as it was taken from the host screen).

isProtected

```
public boolean isProtected()
```

Returns:

whether this field is a protected field.

isVisible

```
public boolean isVisible()
```

Returns:

whether this field is visible on the host screen.

isHighIntensified

```
public boolean isHighIntensified()
```

Returns:

whether this field is an intensified field.

isAutoEnter

```
public boolean isAutoEnter()
```

Returns:

whether this field is an auto enter field (once the field content completely fills the field, it is sent to the host screen).

getBGColor

```
public int getBGColor()
```

Returns:

the background color of this field.

getFGColor

```
public int getFGColor()
```

Returns:

the foreground color of this field.

isAutoCursorJump

```
public boolean isAutoCursorJump()
```

Returns:

whether this field is an auto cursor jump field. This means that the cursor should jump automatically to the next field when this field is completely filled with content.

isAppField

```
public boolean isAppField()
```

Returns:

whether this field is an application field.

isMultiple

```
public boolean isMultiple()
```

Returns:

whether this field is part of a multiple application field.

isBlinking

```
public boolean isBlinking()
```

Returns:

whether this field is blinking.

(continued from last page)

getDataType

```
public int getDataType()
```

Returns:

the field's data type

See Also:

[GXBaseObjectConstants for valid data types](#)

getInputMask

```
public String getInputMask()
```

Returns:

the field's input mask. Valid only for unprotected application fields.

getVisualContent

```
public String getVisualContent()
```

Returns:

the field's content in its visual form, without a conversion to logical.

isUnderlined

```
public boolean isUnderlined()
```

Returns:

whether this field is underlined.

isReversedVideo

```
public boolean isReversedVideo()
```

Returns:

whether this field is reversed video.

com.sabratec.applinx.baseobject Interface GXIFieldCollection

All Known Implementing Classes:
[GXIFieldCollection](#)

public interface **GXIFieldCollection**

This class represents a collection of fields as they were gathered from a screen or many screens. It should be used to perform queries on the fields.

Method Summary

GXIFieldCollection	getAppFields()
GXIField	getFieldAt(int index)
GXIField	getFieldByPosition(GXPosition position)
int	getFieldCount()
GXIField	getFieldInstance(String name, int fieldIndex)
GXIField[]	getFields()
GXIFieldCollection	getFields(String name)
GXIField	getFirstFieldInstance(String name)
GXIField	getLastFieldInstance(String name)

Methods

getFieldCount

```
public int getFieldCount()
```

Returns:

the number of fields in the collection.

getFieldAt

```
public GXIField getFieldAt(int index)
```

Parameters:

(continued from last page)

index - the index of the field in the collection.

Returns:

the field at the given index from the collection.

getFields

```
public GXIField\[\] getFields()
```

Returns:

the field array on which the collection was constructed.

getAppFields

```
public GXIFieldCollection getAppFields()
```

Returns:

all the application fields in the current collection.

getFieldByPosition

```
public GXIField getFieldByPosition(GXPosition position)
```

Parameters:

position - the position of the first character of the field.

Returns:

the field that starts at the given position. This method should be used when the field collection is from one screen. If the collection collects more than one screen, the positions may collide.

getFieldInstance

```
public GXIField getFieldInstance(String name,  
                                int fieldIndex)
```

Parameters:

name - multiple application field name
fieldIndex - index within the multiple application field.

Returns:

the instance of the field at the given index.

getFirstFieldInstance

```
public GXIField getFirstFieldInstance(String name)
```

Parameters:

name - the name of an application field in the collection

(continued from last page)

Returns:

the first instance of this application field that was added to the collection.

getLastFieldInstance

```
public GXIField getLastFieldInstance(String name)
```

Parameters:

name - application field name

Returns:

the last instance (currently available in the collection) of the given application field.

getFields

```
public GXIFieldCollection getFields(String name)
```

Parameters:

name - name of an application field

Returns:

a collection holding all the instances of the application field.

com.sabratec.applinx.baseobject Interface GXIHostKey

public interface **GXIHostKey**

Method Summary

String	getAction()
String	getCaption()
GXPosition	getDisplayPosition()
String	getDisplayText()

Methods

getCaption

public String **getCaption()**

getAction

public String **getAction()**

getDisplayText

public String **getDisplayText()**

getDisplayPosition

public [GXPosition](#) **getDisplayPosition()**

com.sabratec.applinx.baseobject Interface GXINaturalDataTransferClientBaseObject

All Superinterfaces:

[GXIClientBaseObject](#), [GXIReadOnlyBaseObject](#)

public interface **GXINaturalDataTransferClientBaseObject**
extends [GXIClientBaseObject](#)

This object is an extension of the [GXIClientBaseObject](#) that provides the option to perform Natural Data Transfer (NDT) actions.

Method Summary

void	confirmCommand() Confirm the execution of a Natural Data Transfer command.
GXINaturalDataTransferDownloadResponse	continueDownload() Continues the download process.
GXINaturalDataTransferUploadResponse	continueUpload() Continues the process of uploading a file.
void	rejectTransfer() Sends an indication to the host that a transfer process should be rejected.
GXINaturalDataTransferDownloadResponse	startDownload(GXINaturalDataTransferDownloadRequest request) Starts the download process.
GXINaturalDataTransferUploadResponse	startUpload(GXINaturalDataTransferUploadRequest request) Starts the process of uploading a file.

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIClientBaseObject](#)

[executePath](#), [executePath](#), [executeProcedure](#), [executeProcedure](#), [executeProcedure](#),
[getTable](#), [getTable](#), [getTable](#), [navigateTo](#), [refreshScreen](#), [sendKeys](#), [sendKeys](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIReadOnlyBaseObject](#)

[getApplicationConfig](#), [getScreen](#), [getScreen](#), [getSeqScreenNumber](#), [getSessionID](#),
[isReadOnly](#)

Methods

startDownload

```
public GXINaturalDataTransferDownloadResponse
startDownload(GXINaturalDataTransferDownloadRequest request)
    throws GXConnectionException,
           GXINaturalDataTransferException,
           GXGeneralException
```

(continued from last page)

Starts the download process. The server will download a file from the host, and will return it when it has been fully downloaded.

Note that this method may return before the download is completed.

Parameters:

fileType - Type of downloaded file. Supported types:

- `FORMAT_TYPE_TXT`
- `FORMAT_TYPE_CSV`

Throws:

[GXNaturalDataTransferException](#) - when there was a problem with the data transfer

[GXConnectionException](#) - When connection problems occur between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - when there is a general problem

continueDownload

```
public GXNaturalDataTransferDownloadResponse continueDownload()  
throws GXConnectionException,  
       GXNaturalDataTransferException,  
       GXGeneralException
```

Continues the download process. The server will continue a previous download from the host, and will return the download data only if the download process was completed. This method may be called only after calling `startDownload()`.

Note that this method may return before the download is completed.

Throws:

[GXNaturalDataTransferException](#) - if there is a problem with the data transfer

[GXConnectionException](#) - When connection problems occur between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - if there is a general problem

startUpload

```
public GXNaturalDataTransferUploadResponse  
startUpload(GXNaturalDataTransferUploadRequest request)  
throws GXConnectionException,  
       GXNaturalDataTransferException,  
       GXGeneralException
```

Starts the process of uploading a file. The server will upload a file to the host.

Note that this method may return before the upload is completed.

Parameters:

request - the upload request details

Throws:

[GXNaturalDataTransferException](#) - if there is a problem with the data transfer

[GXConnectionException](#) - When connection problems occur between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - if there is a general problem

continueUpload

```
public GXNaturalDataTransferUploadResponse continueUpload()  
throws GXConnectionException,  
       GXNaturalDataTransferException,  
       GXGeneralException
```

(continued from last page)

Continues the process of uploading a file. The server will upload a previously given file to the host. This method may be called only after calling `startUpload(InputStream)`.

Note that this method may return before the upload is completed.

Throws:

[GXNaturalDataTransferException](#) - if there is a problem with the data transfer

[GXConnectionException](#) - When connection problems occur between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - if there is a general problem

rejectTransfer

```
public void rejectTransfer()  
    throws GXConnectionException,  
           GXNaturalDataTransferException,  
           GXGeneralException
```

Sends an indication to the host that a transfer process should be rejected. It applies for both upload, download and a command.

Throws:

[GXNaturalDataTransferException](#) - if there is a problem with the data transfer

[GXConnectionException](#) - When connection problems occur between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - if there is a general problem

confirmCommand

```
public void confirmCommand()  
    throws GXConnectionException,  
           GXNaturalDataTransferException,  
           GXGeneralException
```

Confirm the execution of a Natural Data Transfer command.

When the command is an asynchronous command, the confirmation should be sent after the command execution started successfully.

When the command is a synchronous command, the confirmation should be sent only after the command execution finished successfully.

Throws:

[GXNaturalDataTransferException](#) - if there is a problem with the data transfer

[GXConnectionException](#) - When connection problems occur between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - if there is a general problem

com.sabratec.applinx.baseobject Interface GXINaturalDataTransferScreen

All Superinterfaces:

[GXIScreen](#)

public interface **GXINaturalDataTransferScreen**

extends [GXIScreen](#)

Interface for a screen that contain Natural Data Transfer (NDT) information.

Method Summary

String	getDataTransferCommand()
String	getDataTransferFilename()
int	getDataTransferState() Returns the state of the Natural Data Transfer screen.
String	getDataTransferWorkfileCode()
boolean	isDataTransferCommandSynchronous()

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIScreen](#)

[getBuffers](#), [getBuffers](#), [getColumns](#), [getCursorPosition](#), [getFieldByCursorPosition](#), [getFieldContent](#), [getFieldContent](#), [getFieldInstance](#), [getFields](#), [getFields](#), [getFields](#), [getFields](#), [getFolderPath](#), [getHostKeys](#), [getName](#), [getRows](#), [getScreenGroupNames](#), [getSeqNumber](#), [getTable](#), [getTables](#), [getWindow](#), [getWindowLowerRight](#), [getWindows](#), [getWindowUpperLeft](#), [hasAlarm](#), [isDirectionRTL](#), [isDisplayChanged](#), [isLocked](#), [isMemberOf](#), [isTabbingRTL](#), [isTypingRTL](#), [isWindow](#)

Methods

getDataTransferState

public int **getDataTransferState()**

Returns the state of the Natural Data Transfer screen.

Returns:

(continued from last page)

type of the Natural Data Transfer screen. If this is a normal screen, STATE_NOT_NDT_SCREEN will be returned.

Can be one of the following:

- STATE_UNKNOWN
- STATE_NOT_NDT_SCREEN
- STATE_DOWNLOAD_BEGINNING
- STATE_DOWNLOAD_IN_PROCESS
- STATE_UPLOAD_BEGINNING
- STATE_UPLOAD_IN_PROCESS
- STATE_COMMAND
- STATE_ERROR

getDataTransferFilename

```
public String getDataTransferFilename()
```

Returns:

the file name suggested by the host. null if the host did not suggest one (most common case).

getDataTransferWorkfileCode

```
public String getDataTransferWorkfileCode()
```

Returns:

the workfile code, which is the unique file identifier on the host.

getDataTransferCommand

```
public String getDataTransferCommand()
```

Returns:

the command that was sent to the client thru Natural Data Transfer

isDataTransferCommandSynchronous

```
public boolean isDataTransferCommandSynchronous()
```

Returns:

Whether the Natural Data Transfer command is synchronous. If the command is synchronous the client should reply only after performing the command. If the command is asynchronous, the client should reply right after validating it.

com.sabratec.applinx.baseobject Class GXInnerClientBaseObjectFactory

java.lang.Object

└-com.sabratec.applinx.baseobject.GXInnerClientBaseObjectFactory

public class **GXInnerClientBaseObjectFactory**
extends Object

General factory to create connected / attached base objects, detach and disconnect them from ApplinX server.

There are three acceptable protocols, which dictate different communication modes between the base object and the server.

- ApplinX - Used to communicate with the server over a socket.
- Local (direct) - Used to communicate with an in-process server. All base objects communicate with a single server object. Currently used when the server is loaded as a servlet.

This class was created for internal use, please don't use it directly , use [GXClientBaseObjectFactory](#) instead

Constructor Summary

public	GXInnerClientBaseObjectFactory()
--------	--------------------------------------------------

Method Summary

static void	detachSession(GXReadOnlyBaseObject baseObject) Detaches the given base object from ApplinX server.
static void	endSession(GXEndSessionRequest endSessionRequest) Ends a session on ApplinX server according to the given end session request.
static void	endSession(GXIClientBaseObject baseObject) Ends the session of the given base object.
static GXIClientBaseObject	getBaseObject(GXAttachToSessionRequest attachRequest) Creates a base object, and attaches it to an existing session on ApplinX server.
static GXIClientBaseObject	getBaseObject(GXCreateSessionRequest connectRequest) Creates a base object, and connects it to ApplinX server and the host.
static GXReadOnlyBaseObject	getReadOnlyBaseObject(GXAttachToSessionRequest attachRequest) Creates a read-only base object, and attaches it to an existing session on ApplinX server.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXInnerClientBaseObjectFactory

public **GXInnerClientBaseObjectFactory()**

Methods

getBaseObject

```
public static GXIClientBaseObject getBaseObject(GXCreateSessionRequest connectRequest)  
    throws GXConnectionException,  
           GXGeneralException
```

Creates a base object, and connects it to ApplinX server and the host.

Parameters:

connectRequest - the connection parameters.

Returns:

connected base object.

Throws:

[GXConnectionException](#) - when the connection to the host / ApplinX server was not successful.

[GXGeneralException](#) - other exception thrown in the process.

getBaseObject

```
public static GXIClientBaseObject getBaseObject(GXAttachToSessionRequest  
attachRequest)  
    throws GXConnectionException,  
           GXGeneralException
```

Creates a base object, and attaches it to an existing session on ApplinX server. There could be only one attached BaseObject to the same session at a time. This method is meaningless when using localserver:// protocol.

Parameters:

attachRequest - the connection parameters.

Returns:

attached base object.

Throws:

[GXConnectionException](#) - when the connection to the host / ApplinX server was not successful.

[GXGeneralException](#) - other exception thrown in the process.

getReadOnlyBaseObject

```
public static GXIRedOnlyBaseObject getReadOnlyBaseObject(GXAttachToSessionRequest  
attachRequest)  
    throws GXConnectionException,  
           GXGeneralException
```

Creates a read-only base object, and attaches it to an existing session on ApplinX server. There could be several read-only BaseObject attached to the server at the same time. This method is meaningless when using localserver:// protocol.

Parameters:

attachRequest - the connection parameters.

Returns:

attached base object.

Throws:

[GXConnectionException](#) - when the connection to ApplinX server was not successful.

(continued from last page)

[GXGeneralException](#) - other exception thrown in the process.

detachSession

```
public static void detachSession(GXReadOnlyBaseObject baseObject)
    throws GXGeneralException,
           GXConnectionException
```

Detaches the given base object from ApplinX server. This method is meaningless when using localserver:// protocol.

endSession

```
public static void endSession(GXIClientBaseObject baseObject)
    throws GXGeneralException,
           GXConnectionException
```

Ends the session of the given base object.

Parameters:

baseObject - the session object.

Throws:

[GXConnectionException](#) - when the connection to the host / ApplinX server was not successful.

[GXGeneralException](#) - other exception thrown in the process.

endSession

```
public static void endSession(GXEndSessionRequest endSessionRequest)
    throws GXGeneralException,
           GXConnectionException
```

Ends a session on ApplinX server according to the given end session request.

Parameters:

endSessionRequest - the session parameters.

Throws:

[GXConnectionException](#) - when the connection to the host / ApplinX server was not successful.

[GXGeneralException](#) - other exception thrown in the process.

com.sabratec.applinx.baseobject Class GXInputField

java.lang.Object

└-com.sabratec.applinx.baseobject.GXInputField

All Implemented Interfaces:

java.io.Serializable

```
public class GXInputField
extends Object
implements java.io.Serializable
```

This class represents an input field whose data will be sent to the host. The field can be determined by position (for host field), by name (for application field) or by name and index (for an instance of a multiple application field). The GXInputField instance should be added to a request object of type GXSendKeysRequest or GXPathRequest.

Constructor Summary

public	GXInputField()
public	GXInputField(String name, String value)
public	GXInputField(GXPosition pos, String value)
public	GXInputField(String name, int index, String value)

Method Summary

boolean	equals (Object inputField)
int	getIndex ()
String	getName ()
GXPosition	getPosition ()
String	getValue ()
boolean	isAppField ()
void	setIndex (int index)
void	setName (String name) Sets the name of the field to update.
void	setPosition (GXPosition position) Sets the position of the field to update.

void	setValue (String value)
String	toString ()

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXInputField

```
public GXInputField()
```

GXInputField

```
public GXInputField(String name,  
                    String value)
```

GXInputField

```
public GXInputField(GXPosition pos,  
                    String value)
```

GXInputField

```
public GXInputField(String name,  
                    int index,  
                    String value)
```

Methods

getPosition

```
public GXPosition getPosition()
```

setPosition

```
public void setPosition(GXPosition position)
```

Sets the position of the field to update.

Parameters:

`position` - position of the field to set.

getName

```
public String getName()
```

Returns:

the name that was set to this field.

setName

```
public void setName(String name)
```

Sets the name of the field to update.

Parameters:

name - the name of the application field to set.

isAppField

```
public boolean isAppField()
```

getIndex

```
public int getIndex()
```

Returns:

the multiple index set for the input field.

setIndex

```
public void setIndex(int index)
```

Parameters:

index - index of an instance of a multiple application field to set. The name of the field must be set using setName().

getValue

```
public String getValue()
```

Returns:

the value set for the input field.

setValue

```
public void setValue(String value)
```

(continued from last page)

Parameters:

value - the value to set to this field on the host.

equals

```
public boolean equals(Object inputField)
```

toString

```
public String toString()
```

com.sabratec.applinx.baseobject Interface GXIReadOnlyBaseObject

All Subinterfaces:

[GXIClientBaseObject](#), [GXINaturalDataTransferClientBaseObject](#)

public interface **GXIReadOnlyBaseObject**

This object represents a live session against the ApplinX server and the host, in Read-Only mode, i.e. only monitoring the session is permitted.

See Also:

[GXIClientBaseObject](#)

Method Summary

GXIClientApplicationConfiguration	getApplicationConfig() Returns the current application configuration.
GXIScreen	getScreen() Returns the current screen from the host.
GXIScreen	getScreen(GXGetScreenRequest request) Returns the current screen from the host.
int	getSeqScreenNumber() returns the sequential number of the host screen in the server (counted since the session started).
String	getSessionID()
boolean	isReadOnly() Return whether this client has a write access, or only a read-only access.

Methods

getScreen

```
public GXIScreen getScreen(GXGetScreenRequest request)
    throws GXConnectionException,
           GXGeneralException
```

Returns the current screen from the host. May also execute wait conditions before retrieving it. If it is called without a request object and if no other request was sent to the host since the last time getScreen was called, it returns a local copy of the last retrieved screen.

Parameters:

request - the getScreen request.

Returns:

the current screen from the host.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

(continued from last page)

[GXGeneralException](#) - Other errors.

See Also:

[getScreen\(\)](#)

getScreen

```
public GXIScreen getScreen()  
    throws GXConnectionException,  
           GXGeneralException
```

Returns the current screen from the host. May also execute wait conditions before retrieving it. When called without a request object and if no other request was sent to the host since the last time `getScreen` was called, it returns a local copy of the last retrieved screen.

Returns:

a local copy of the last retrieved screen.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.
[GXGeneralException](#) - Other errors.

getSeqScreenNumber

```
public int getSeqScreenNumber()  
    throws GXConnectionException,  
           GXGeneralException
```

returns the sequential number of the host screen in the server (counted since the session started).

Returns:

the sequential screen number.

Throws:

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.
[GXGeneralException](#) - Other errors.

getSessionID

```
public String getSessionID()
```

Returns:

the ID of the session on ApplinX Server.

getApplicationConfig

```
public GXClientApplicationConfig getApplicationConfig()  
    throws GXConnectionException,  
           GXGeneralException
```

Returns the current application configuration. The first time this method is called, a request will be sent to the server to retrieve the information. Sequential calls to this method will return the same configuration (additional requests will not be sent to the server).

Note that when the application configuration is changed on the server, the way to retrieve the updated information is to create a new `BaseObject` and call this method again.

Throws:

(continued from last page)

[GXConnectionException](#) - When connection problems occurred between the client and ApplinX server or the ApplinX server and the host.

[GXGeneralException](#) - Other errors.

isReadOnly

```
public boolean isReadOnly()
```

Return whether this client has a write access, or only a read-only access.

com.sabratec.applinx.baseobject Interface GXIReplayerClientBaseObject

public interface **GXIReplayerClientBaseObject**

Method Summary

GXReplayerInfo	getReplayerInfo()
GXReplayerStatus	getReplayerStatus()
GXReplayerSendData	getReplayScreenData()
void	setReplayScreen (GXSetReplayScreen request)

Methods

setReplayScreen

```
public void setReplayScreen(GXSetReplayScreen request)  
    throws GXConnectionException,  
           GXGeneralException
```

getReplayerStatus

```
public GXReplayerStatus getReplayerStatus()  
    throws GXConnectionException,  
           GXGeneralException
```

getReplayerInfo

```
public GXReplayerInfo getReplayerInfo()  
    throws GXConnectionException,  
           GXGeneralException
```

getReplayScreenData

```
public GXReplayerSendData getReplayScreenData()  
    throws GXConnectionException,  
           GXGeneralException
```

com.sabratec.applinx.baseobject Interface GXIScreen

All Subinterfaces:

[GXIScreenWithPrintData](#), [GXINaturalDataTransferScreen](#)

public interface **GXIScreen**
extends java.io.Serializable

Interface for objects representing a screen entity that wraps an emulation screen. This class represents one instance of a host screen. It is a snapshot of a screen as it was received from the host. You cannot set contents to it. Setting contents to the host is done through the session object (using requests).

Method Summary

GXScreenBuffers	getBuffers() Deprecated. use getBuffers(boolean) instead.
GXScreenBuffers	getBuffers (boolean onlyWindowBuffer) Returns the buffers from the current screen.
int	getColumns()
GXPosition	getCursorPosition()
GXIField	getFieldByCursorPosition() Gets the field which the cursor position is located at
String	getFieldContent (String fieldName)
String	getFieldContent (String fieldName, int fieldIndex)
GXIField	getFieldInstance (String fieldName, int fieldIndex)
GXIFieldCollection	getFields()
GXIFieldCollection	getFields (GXIFieldCollectionQuery query)
GXIFieldCollection	getFields (GXIScreenCollectionFieldsQuery query) Deprecated. this method is deprecated and is replaced by getFields(GXIFieldCollectionQuery query)
GXIFieldCollection	getFields (String fieldName)
String	getFolderPath()
GXIScreenKey[]	getHostKeys() Gets the host keys associated with this screen.
String	getName()

int	getRows()
String[]	getScreenGroupNames()
int	getSeqNumber()
GXITable	getTable() Deprecated. <i>As of release 8.2.2 HF3, replaced by getTables()</i>
GXITable[]	getTables() Gets the tables associated with this screen.
GXWindow	getWindow() Gets the window associated with this screen.
GXPosition	getWindowLowerRight() Deprecated. <i>use @see GXIScreen#getWindow(), @see GXWindow#getBounds()</i>
GXWindow[]	getWindows() Gets an array of the windows associated with this screen, or null if none exist.
GXPosition	getWindowUpperLeft() Deprecated. <i>use @see GXIScreen#getWindow(), @see GXWindow#getBounds()</i>
boolean	hasAlarm()
boolean	isDirectionRTL()
boolean	isDisplayChanged()
boolean	isLocked()
boolean	isMemberOf(String screenGroupName) Checks whether the current screen belongs to the specified screen group.
boolean	isTabbingRTL()
boolean	isTypingRTL()
boolean	isWindow()

Methods

getName

```
public String getName()
```

Returns:

the name (ID) of the screen as it was identified by ApplinX.

getScreenGroupNames

```
public String[] getScreenGroupNames()
```

Returns:

a name array of the screens screen groups.

isWindow

```
public boolean isWindow()
```

Returns:

whether the current screen was identified by ApplinX as a host window.

getWindowUpperLeft

```
public GXPosition getWindowUpperLeft()
```

Deprecated. *use @see GXIScreen#getWindow(), @see GXIWindow#getBounds()*

Returns:

the upper left coordinate of the identified host window.

getWindowLowerRight

```
public GXPosition getWindowLowerRight()
```

Deprecated. *use @see GXIScreen#getWindow(), @see GXIWindow#getBounds()*

Returns:

the lower right coordinate of the identified host window.

getSeqNumber

```
public int getSeqNumber()
```

Returns:

the sequential number of the screen (since the session started).

isDisplayChanged

```
public boolean isDisplayChanged()
```

Returns:

whether the current screen reflects display changes that were received from the host since the last time ApplinX Server sent content.

getCursorPosition

```
public GXPosition getCursorPosition()
```

Returns:

the position of the cursor on the screen.

getFolderPath

```
public String getFolderPath()
```

Returns:

the screen ID's folder path.

getRows

```
public int getRows()
```

Returns:

the number of rows in the current screen. If the current screen is a host window the number of rows is the height of the window.

getColumns

```
public int getColumns()
```

Returns:

the number of columns in the current screen. If the current screen is a host window, the number of columns is the width of the window.

getBuffers

```
public GXScreenBuffers getBuffers(boolean onlyWindowBuffer)
```

Returns the buffers from the current screen. Buffers will be returned only if the variable [GXBaseObjectConstants.GX_VAR_RETURN_SCREEN_BUFFERS](#) was set in the [GXGetScreenRequest](#) to [GXBaseObjectConstants.GX_VAR_VAL_BUFFERS_SCREEN_DATA](#). By default buffers will not be available.

Parameters:

onlyWindowBuffer - when there is a window, only returns the window buffer and not the entire screen buffer.

Returns:

the screen buffers object.

getBuffers

```
public GXScreenBuffers getBuffers()
```

Deprecated. use [getBuffers\(boolean\)](#) instead.

Backward compatibility. Equivalent to `getBuffers(true)`.

(continued from last page)

Returns:

the screen buffers object.

isDirectionRTL

```
public boolean isDirectionRTL()
```

Returns:

whether the direction of the current screen is RTL.

isTabbingRTL

```
public boolean isTabbingRTL()
```

Returns:

whether the tabbing direction of the current screen is RTL.

isTypingRTL

```
public boolean isTypingRTL()
```

isLocked

```
public boolean isLocked()
```

Returns:

whether the system was locked upon the creation of the screen or not. In normal situations, the system is NOT locked upon screen creation.

See Also:

[for more details on this feature.](#)

hasAlarm

```
public boolean hasAlarm()
```

Returns:

whether the screen should sound an alarm

getFields

```
public GXIFieldCollection getFields()
```

Returns:

(continued from last page)

a field collection holding application fields in the screen. To collect both the host fields and the application fields set the [GXBaseObjectConstants.GX_VAR_INCLUDE_HOST_FIELDS](#) variable in the [GXGetScreenRequest](#) to "true".

getFields

```
public GXIFieldCollection getFields(GXIScreenCollectionFieldsQuery query)
```

Deprecated. *this method is deprecated and is replaced by `getFields(GXIFieldCollectionQuery query)`*

Parameters:

query - a query that creates GXIFieldCollection from GXIScreenCollection

Returns:

the collection returned by the query

getFields

```
public GXIFieldCollection getFields(GXIFieldCollectionQuery query)
```

Parameters:

query - a query that creates GXIFieldCollection from a field collection query

Returns:

the collection returned by the query

getFields

```
public GXIFieldCollection getFields(String fieldName)
```

Parameters:

fieldName - name of an application field

Returns:

a collection holding all the instances of the application field.

getFieldInstance

```
public GXIField getFieldInstance(String fieldName,  
int fieldIndex)
```

Parameters:

fieldName - multiple application field name

fieldIndex - index within the multiple application field.

Returns:

the instance of the field at the given index.

(continued from last page)

getFieldContent

```
public String getFieldContent(String fieldName,  
    int fieldIndex)
```

Parameters:

fieldName - a name of an application field.
fieldIndex - an index of a multiple application field.

Returns:

the content of the given instance of the application field.

getFieldContent

```
public String getFieldContent(String fieldName)
```

Parameters:

fieldName - a name of an application field.

Returns:

the content of the first instance of the application field.

isMemberOf

```
public boolean isMemberOf(String screenGroupName)
```

Checks whether the current screen belongs to the specified screen group.

The specified screen group name may contain a full name including folder path, or the screen group name only.

The function is not case sensitive.

Parameters:

screenGroupName - the screen group name

Returns:

whether the current screen is a member of the specified screen group.

getWindow

```
public GXIScreen getWindow()
```

Gets the window associated with this screen.

getTable

```
public GXIScreen getTable()
```

Deprecated. As of release 8.2.2 HF3, replaced by [getTables\(\)](#)

Gets the table associated with this screen.

getTables

```
public GXIScreen[] getTables()
```

(continued from last page)

Gets the tables associated with this screen.

getWindows

```
public GXIScreen\[\] getWindows()
```

Gets an array of the windows associated with this screen, or null if none exist.

The windows in this array are sorted according to the order of arrival from the host. The last element in the array is the last window received.

getHostKeys

```
public GXIScreenKey\[\] getHostKeys()
```

Gets the host keys associated with this screen.

getFieldByCursorPosition

```
public GXIScreenField getFieldByCursorPosition()
```

Gets the field which the cursor position is located at

Returns:

the field which the cursor position is located at

com.sabratec.applinx.baseobject Interface GXIScreenCollection

public interface **GXIScreenCollection**

This class represents a collection of screens. It is returned from a path response, and can also be created by you from an array of screens.

Method Summary

GXIFieldCollection	getFields (GXIScreenCollectionFieldsQuery query)
GXIFieldCollection	getFields (String fieldName) The method returns from all the screens in this collection all the fields that have the specified name.
GXIScreen	getScreenAt (int index)
int	getScreenCount ()
GXIScreenCollection	getScreens (String screenName)

Methods

getScreenCount

```
public int getScreenCount()
```

Returns:

the number of screens in the collection.

getScreenAt

```
public GXIScreen getScreenAt(int index)
```

Parameters:

index - the index of the screen in the screens collection.

Returns:

the screen at the given index.

getFields

```
public GXIFieldCollection getFields(GXIScreenCollectionFieldsQuery query)
```

(continued from last page)

Parameters:

query - the query for filtering the collection's data.

Returns:

the fields gathered by the given query, returned in the form of a field collection.

getFields

```
public GXIFieldCollection getFields(String fieldName)
```

The method returns from all the screens in this collection all the fields that have the specified name. When the field is a multiple application field, each instance of the application field will be returned as a field in the collection.

Parameters:

fieldName - the name of the application field to return.

Returns:

all the instances of the given field name from ALL the screens in the collection.

getScreens

```
public GXIScreenCollection getScreens(String screenName)
```

Parameters:

screenName - the name of the screen to return.

Returns:

a collection constructed from all the instances of the given screen name in the current collection.

com.sabratec.applinx.baseobject Interface GXIScreenWithPrintData

All Superinterfaces:

[GXIScreen](#)

public interface **GXIScreenWithPrintData**

extends [GXIScreen](#)

Extension for the [GXIScreen](#) class that adds printing data buffer to the screen. Used by some unisys hosts.

Method Summary

byte[]	getPrintData()
--------	--------------------------------

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIScreen](#)

[getBuffers](#), [getBuffers](#), [getColumns](#), [getCursorPosition](#), [getFieldByCursorPosition](#), [getFieldContent](#), [getFieldContent](#), [getFieldInstance](#), [getFields](#), [getFields](#), [getFields](#), [getFields](#), [getFolderPath](#), [getHostKeys](#), [getName](#), [getRows](#), [getScreenGroupNames](#), [getSeqNumber](#), [getTable](#), [getTables](#), [getWindow](#), [getWindowLowerRight](#), [getWindows](#), [getWindowUpperLeft](#), [hasAlarm](#), [isDirectionRTL](#), [isDisplayChanged](#), [isLocked](#), [isMemberOf](#), [isTabbingRTL](#), [isTypingRTL](#), [isWindow](#)

Methods

getPrintData

public byte[] **getPrintData()**

Returns:

the print data associated with this screen.

com.sabratec.applinx.baseobject Interface GXIVariable

All Known Implementing Classes:

[GXVariableArray](#), [GXVariable](#)

public interface **GXIVariable**
extends java.io.Serializable

This interface represents a variable, and allows setting it to a session request. It is implemented by [GXVariable](#), for single value variables, and by [GXVariableArray](#) for multiple values. The common methods in this interface are the variable's name methods.

Field Summary

public static final	NULL This constant can be used to override a variable with a null value. Value: -
public static final	OVERRIDE this const is used to override the recorder configuration Value: -1

Method Summary

String	getName()
void	setName(String name)

Fields

NULL

public static final java.lang.String **NULL**

This constant can be used to override a variable with a null value.

For example: request.addVariable(GXBaseObjectConstants.GX_VAR_REPLAY_FILE, GXIVariable.NULL) will define that the session will not use the predefined replay file.

Constant value: -

OVERRIDE

public static final java.lang.String **OVERRIDE**

this const is used to override the recorder configuration

Constant value: -1

Methods

getName

public String **getName()**

(continued from last page)

Returns:

The name of the variable or variable array.

setName

```
public void setName(String name)
```

Parameters:

name - The name of the variable or variable array.

com.sabratec.applinx.baseobject Interface GXIWaitCondition

All Known Implementing Classes:

[GXAbstractWaitCondition](#)

```
public interface GXIWaitCondition  
extends java.io.Serializable
```

Interface for all wait conditions.

com.sabratec.applinx.baseobject Interface GXIWindow

public interface **GXIWindow**

This class represents a window.

Method Summary

GXRectangle	getBounds()
String	getTitle()
boolean	isBoundsIncludeBorder()

Methods

getTitle

```
public String getTitle()
```

Returns:

the window title

getBounds

```
public GXRectangle getBounds()
```

Returns:

the window boundaries

isBoundsIncludeBorder

```
public boolean isBoundsIncludeBorder()
```

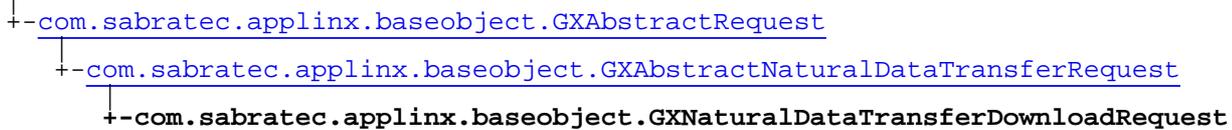
Returns:

whether the boundaries returned by the [getBounds\(\)](#) method include a border

com.sabratec.applinx.baseobject

Class GXNaturalDataTransferDownloadRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXNaturalDataTransferDownloadRequest**
 extends [GXAbstractNaturalDataTransferRequest](#)

Setting request for Natural Data Transfer download messages.

Constructor Summary

public	GXNaturalDataTransferDownloadRequest()
public	GXNaturalDataTransferDownloadRequest(int type)

Method Summary

void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class

[com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest](#)

[getFormatType](#), [readExternal](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

(continued from last page)

GXNaturalDataTransferDownloadRequest

```
public GXNaturalDataTransferDownloadRequest()
```

GXNaturalDataTransferDownloadRequest

```
public GXNaturalDataTransferDownloadRequest(int type)
```

Methods

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXNaturalDataTransferDownloadResponse

java.lang.Object

├─ [com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferResponse](#)
└─ **com.sabratec.applinx.baseobject.GXNaturalDataTransferDownloadResponse**

All Implemented Interfaces:

java.io.Serializable

public class **GXNaturalDataTransferDownloadResponse**
extends [GXAbstractNaturalDataTransferResponse](#)

Response data message for [GXNaturalDataTransferDownloadRequest](#)

See Also:

ACTION_NATURAL_DATA_DOWNLOAD

Constructor Summary

public	GXNaturalDataTransferDownloadResponse()
--------	---------------------------------------------------------

Method Summary

byte[]	getData() The actual download data.
boolean	isFirstChunk() flag for marking the first chunk of the stream, due to override the existing file (if any)
void	setData(byte[] data) Set the data included in this response.
void	setFirstChunk(boolean firstChunk) flag for marking the first chunk of the stream, due to override the existing file (if any)

Methods inherited from class

[com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferResponse](#)

[getNumProcessedRecords](#), [isComplete](#), [setComplete](#), [setNumProcessedRecords](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXNaturalDataTransferDownloadResponse

public **GXNaturalDataTransferDownloadResponse()**

Methods

getData

```
public byte[] getData()
```

The actual download data. null as long as the download was not completed.

setData

```
public void setData(byte[] data)
```

Set the data included in this response. This method is for internal use.

Parameters:

data - the downloaded data

isFirstChunk

```
public boolean isFirstChunk()
```

flag for marking the first chunk of the stream, due to override the existing file (if any)

Returns:

setFirstChunk

```
public void setFirstChunk(boolean firstChunk)
```

flag for marking the first chunk of the stream, due to override the existing file (if any)

Parameters:

firstChunk

com.sabratec.applinx.baseobject Class GXNaturalDataTransferException

```

java.lang.Object
  |
  +-GXExceptionWithErrorCode
     |
     +-com.sabratec.applinx.baseobject.GXGeneralException
        |
        +-com.sabratec.applinx.baseobject.GXNaturalDataTransferException
  
```

```

public class GXNaturalDataTransferException
extends GXGeneralException
  
```

Exception indicating that there was a problem with a Natural data transfer transaction.

Constructor Summary

public	GXNaturalDataTransferException (String message, Throwable e, int errorCode)
--------	---------------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

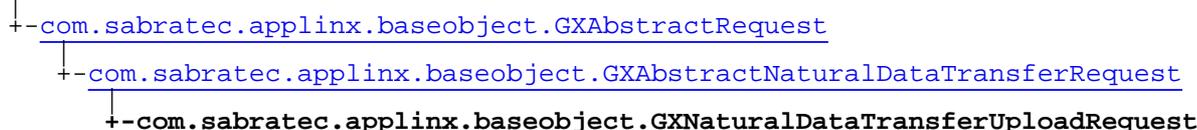
GXNaturalDataTransferException

```

public GXNaturalDataTransferException(String message,
                                     Throwable e,
                                     int errorCode)
  
```

com.sabratec.applinx.baseobject Class GXNaturalDataTransferUploadRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXNaturalDataTransferUploadRequest**
extends [GXAbstractNaturalDataTransferRequest](#)

Setting request for Natural Data Transfer upload messages.

Constructor Summary

public	GXNaturalDataTransferUploadRequest()
public	GXNaturalDataTransferUploadRequest(int type, byte[] data)

Method Summary

byte[]	getData() Returns the data to upload.
void	readExternal(java.io.ObjectInput in)
void	writeExternal(java.io.ObjectOutput out)

Methods inherited from class

[com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest](#)

[getFormatType](#), [readExternal](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

(continued from last page)

Constructors

GXNaturalDataTransferUploadRequest

```
public GXNaturalDataTransferUploadRequest()
```

GXNaturalDataTransferUploadRequest

```
public GXNaturalDataTransferUploadRequest(int type,  
                                           byte[] data)
```

Parameters:

data - the data to upload

See Also:

`com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest(int)`

Methods

getData

```
public byte[] getData()
```

Returns the data to upload.

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

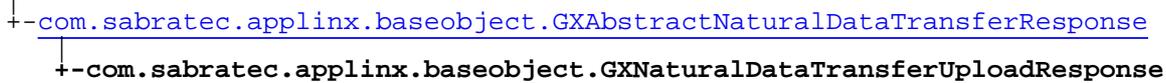
writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

com.sabratec.applinx.baseobject

Class GXNaturalDataTransferUploadResponse

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

```
public class GXNaturalDataTransferUploadResponse
extends GXAbstractNaturalDataTransferResponse
```

Response data message for [GXNaturalDataTransferUploadRequest](#)

See Also:

ACTION_NATURAL_DATA_UPLOAD

Constructor Summary

public	GXNaturalDataTransferUploadResponse()
--------	-------------------------------------------------------

Methods inherited from class

[com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferResponse](#)

[getNumProcessedRecords](#), [isComplete](#), [setComplete](#), [setNumProcessedRecords](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXNaturalDataTransferUploadResponse

```
public GXNaturalDataTransferUploadResponse()
```

com.sabratec.applinx.baseobject Class GXNavigateException

```

java.lang.Object
  |
  +- GXExceptionWithErrorCode
     |
     +- com.sabratec.applinx.baseobject.GXGeneralException
        |
        +- com.sabratec.applinx.baseobject.GXNavigateException

```

```

public class GXNavigateException
extends GXGeneralException

```

Exception indicating an error occurred in a navigation process.

Constructor Summary

public	GXNavigateException (String message, Throwable e, int errorCode)
--------	----------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXNavigateException

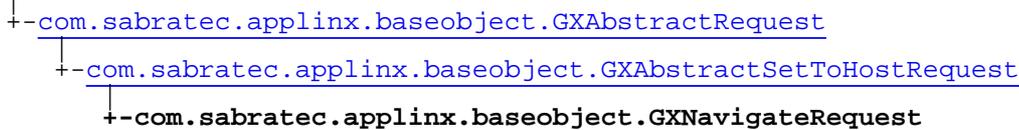
```

public GXNavigateException(String message,
                           Throwable e,
                           int errorCode)

```

com.sabratec.applinx.baseobject Class GXNavigateRequest

java.lang.Object



All Implemented Interfaces:

[GXDebuggableRequest](#), Cloneable, java.io.Externalizable

public class **GXNavigateRequest**
 extends [GXAbstractSetToHostRequest](#)
 implements java.io.Externalizable, Cloneable, [GXDebuggableRequest](#)

Settings for map type paths execution request.

Constructor Summary

public	GXNavigateRequest ()
public	GXNavigateRequest (String destinationScreenName) Sets the destination screen for the navigation process.
public	GXNavigateRequest (String destinationScreenName, String mapName) Deprecated. Application map are defined globally for each application. Map name will be ignored

Method Summary

String	getDestinationScreenName ()
String	getMapName () Deprecated. Application map are defined globally for each application. Map name will be ignored
boolean	isDebugMode ()
void	readExternal (java.io.ObjectInput in)
void	setDebugMode () Sets the path to be executed in debug mode.
void	setDestinationScreenName (String destScreen)
void	setMapName (String mapName) Deprecated. Application map are defined globally for each application. Map name will be ignored
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest](#)

[addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#),
[addInputField](#), [addInputFields](#), [changeInputField](#), [getInputFields](#), [getSeqScreenNumber](#),
[isWindowRelativePositioning](#), [readExternal](#), [removeInputField](#), [setSeqScreenNumber](#),
[setWindowRelativePositioning](#), [toString](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#),
[readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.GXDebuggableRequest](#)

[isDebugMode](#), [setDebugMode](#)

Constructors

GXNavigateRequest

```
public GXNavigateRequest()
```

GXNavigateRequest

```
public GXNavigateRequest(String destinationScreenName)
```

Sets the destination screen for the navigation process.

Parameters:

destinationScreenName - the name of the destination screen.

GXNavigateRequest

```
public GXNavigateRequest(String destinationScreenName,  
String mapName)
```

Deprecated. Application map are defined globally for each application. Map name will be ignored

Sets the destination screen and the map name for the navigation process.

Parameters:

destinationScreenName - the name of the destination screen.

mapName - the name of the map.

Methods

(continued from last page)

getDestinationScreenName

```
public String getDestinationScreenName()
```

Returns:

the path's destination screen name

setDestinationScreenName

```
public void setDestinationScreenName(String destScreen)
```

Parameters:

destScreen - the path's destination screen name to set

setMapName

```
public void setMapName(String mapName)
```

Deprecated. *Application map are defined globally for each application. Map name will be ignored*

Sets the name of the map path to navigate with.

Parameters:

mapName - the name of the map

getMapName

```
public String getMapName()
```

Deprecated. *Application map are defined globally for each application. Map name will be ignored*

Returns:

the map path name to navigate with

setDebugMode

```
public void setDebugMode()
```

Sets the path to be executed in debug mode.

isDebugMode

```
public boolean isDebugMode()
```

Returns:

the status of the debug mode flag

(continued from last page)

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXPathException

```

java.lang.Object
  |
  +-GXPathExceptionWithErrorCode
    |
    +-com.sabratec.applinx.baseobject.GXGeneralException
      |
      +-com.sabratec.applinx.baseobject.GXPathException
  
```

```

public class GXPathException
extends GXGeneralException
  
```

Exception indicating an error occurred in a path process.

Constructor Summary

public	GXPathException (String message, Throwable e, int errorCode)
--------	------------------------------------------------------------------------------

Method Summary

GXPathResponse	getPathResponse () Returns the path response.
--------------------------------	------------------------------------------------------------------

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXPathException

```

public GXPathException(String message,
                       Throwable e,
                       int errorCode)
  
```

Methods

getPathResponse

```

public GXPathResponse getPathResponse()
  
```

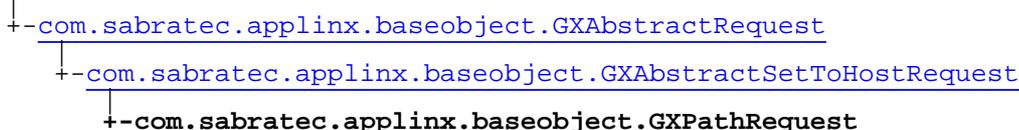
Returns the path response. All screens that were gathered during path execution (until the error occurred) may be retrieved from the path response.

Returns:

the path's response object.

com.sabratec.applinx.baseobject Class GXPathRequest

java.lang.Object



All Implemented Interfaces:

[GXDebuggableRequest](#), Cloneable, java.io.Externalizable

public class **GXPathRequest**
 extends [GXAbstractSetToHostRequest](#)
 implements java.io.Externalizable, Cloneable, [GXDebuggableRequest](#)

Settings for path execution request.

Constructor Summary

public	GXPathRequest ()
public	GXPathRequest (String pathName)
public	GXPathRequest (String pathName, boolean isDebugMode)

Method Summary

String	getPathName ()
boolean	isDebugMode ()
void	readExternal (java.io.ObjectInput in)
void	setDebugMode () Sets the path to be executed in debug mode.
void	setPathName (String pathName) Sets the name of the path that will be executed.
String	toString ()
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest](#)

[addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#),
[addInputField](#), [addInputFields](#), [changeInputField](#), [getInputFields](#), [getSeqScreenNumber](#),
[isWindowRelativePositioning](#), [readExternal](#), [removeInputField](#), [setSeqScreenNumber](#),
[setWindowRelativePositioning](#), [toString](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface `java.io.Externalizable`

`readExternal`, `writeExternal`

Methods inherited from interface [com.sabratec.applinx.baseobject.GXDebuggableRequest](#)

[isDebugMode](#), [setDebugMode](#)

Constructors

GPXPathRequest

```
public GPXPathRequest()
```

GPXPathRequest

```
public GPXPathRequest(String pathName)
```

Parameters:

`pathName` - name of the path to execute.

GPXPathRequest

```
public GPXPathRequest(String pathName,  
                      boolean isDebugMode)
```

Parameters:

`pathName` - name of the path to execute.

`isDebugMode` - flag to execute the path in debug mode. In this mode, a very detailed log of the path execution process is returned.

Methods

getPathName

```
public String getPathName()
```

Returns:

the path name set to the request.

setPathName

```
public void setPathName(String pathName)
```

Sets the name of the path that will be executed.

Parameters:

pathName - the name of the path.

setDebugMode

```
public void setDebugMode()
```

Sets the path to be executed in debug mode.

isDebugMode

```
public boolean isDebugMode()
```

Returns:

the status of the debug mode flag.

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

toString

```
public String toString()
```

com.sabratec.applinx.baseobject Class GXPathResponse

java.lang.Object

└-com.sabratec.applinx.baseobject.GXPathResponse

All Implemented Interfaces:

java.io.Externalizable

```
public class GXPathResponse
extends Object
implements java.io.Externalizable
```

This class is returned from GXIBaseObject.executePath() method. It contains all the contents of the response of the path.

Constructor Summary

public	GXPathResponse(GXIScreen[] screens, GXVariables variables) Create a new path response
public	GXPathResponse()

Method Summary

boolean	equals (Object obj)
String	getPathExecutionLog ()
GXIScreenCollection	getScreens ()
String	getVariable (String varName)
String[]	getVariableArray (String varName)
String	getVariableAt (String varName, int index)
int	getVariableCount (String varName)
String[]	getVariableNames ()
boolean	isVariableArray (String varName)
void	readExternal (java.io.ObjectInput in)
void	setPathExecutionLog (String pathExecutionLog) Set the execution log of the path.
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class `java.lang.Object``equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`**Methods inherited from interface** `java.io.Externalizable``readExternal, writeExternal`

Constructors

GPXPathResponse

```
public GPXPathResponse(GXIScreen\[\] screens,  
                       GXVariables variables)
```

Create a new path response

Parameters:

`screens` - the path collected screens

`variables` - the path returned variables

GPXPathResponse

```
public GPXPathResponse()
```

Methods

getScreens

```
public GXIScreenCollection getScreens()
```

Returns:

the screen collection that was gathered during path execution.

getVariable

```
public String getVariable(String varName)
```

Parameters:

`varName` - the name of the variable.

Returns:

the value of the variable as was set during path execution.

isVariableArray

```
public boolean isVariableArray(String varName)
```

(continued from last page)

Parameters:

varName - the name of the variable.

Returns:

true if there is a variable array with the input name in the response.

getVariableNames

```
public String[] getVariableNames()
```

Returns:

an array of the names of all the variables in the response.

getVariableArray

```
public String[] getVariableArray(String varName)
```

Parameters:

varName - the name of the variable array.

Returns:

an array of values set to the variable during path execution.

getVariableAt

```
public String getVariableAt(String varName,  
    int index)
```

Parameters:

varName - the name of the variable array.

index - the index in the array.

Returns:

one of the values from a variable array, according to index.

getVariableCount

```
public int getVariableCount(String varName)
```

Parameters:

varName - the name of the variable array.

Returns:

the size of a variable array. If no such array exists, -1 is returned. If the variable is not an array, 1 is returned.

getPathExecutionLog

```
public String getPathExecutionLog()
```

(continued from last page)

Returns:

the execution log of the path. might be null.

setPathExecutionLog

```
public void setPathExecutionLog(String pathExecutionLog)
```

Set the execution log of the path. This method is for internal use.

Parameters:

pathExecutionLog - the log to set

equals

```
public boolean equals(Object obj)
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
        ClassNotFoundException
```

com.sabratec.applinx.baseobject Class GXScreenBuffers

java.lang.Object

└─com.sabratec.applinx.baseobject.GXScreenBuffers

All Implemented Interfaces:

java.io.Serializable

```
public class GXScreenBuffers
extends Object
implements java.io.Serializable
```

This class wraps the buffers that are returned from the host for a screen.

Constructor Summary

public	GXScreenBuffers()
public	GXScreenBuffers (String text, byte[] attributes, byte[] eab, byte[] eabColor)

Method Summary

boolean	equals (Object obj)
byte[]	getEABBuffer ()
byte[]	getEABColor ()
byte[]	getFieldAttributeBuffer ()
String	getScreenBuffer ()

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXScreenBuffers

```
public GXScreenBuffers()
```

(continued from last page)

GXScreenBuffers

```
public GXScreenBuffers(String text,  
                        byte[] attributes,  
                        byte[] eab,  
                        byte[] eabColor)
```

Methods

getScreenBuffer

```
public String getScreenBuffer()
```

Returns:

the buffer that holds the content of fields in the host screen.

getFieldAttributeBuffer

```
public byte[] getFieldAttributeBuffer()
```

Returns:

the buffer that holds the attributes of fields in the host screen.

getEABBuffer

```
public byte[] getEABBuffer()
```

Returns:

the buffer that holds the extended field attributes for fields in the host screen.

getEABColor

```
public byte[] getEABColor()
```

Returns:

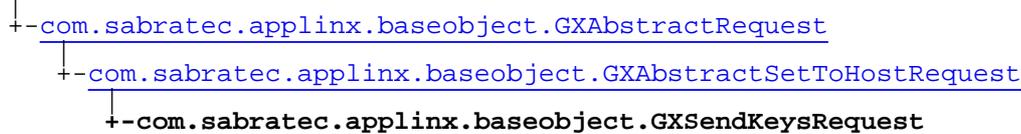
the buffer that holds the colors of fields in the host screen.

equals

```
public boolean equals(Object obj)
```

com.sabratec.applinx.baseobject Class GXSendKeysRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXSendKeysRequest**
extends [GXAbstractSetToHostRequest](#)

Settings for send keys request. If no key is specified [enter] is the default key.

Constructor Summary

public	GXSendKeysRequest ()
public	GXSendKeysRequest (String keys)
public	GXSendKeysRequest (String keys, GXIScreen screen)

Method Summary

Object	clone ()
GXCursor	getCursor ()
String	getKeys ()
void	readExternal (java.io.ObjectInput in)
void	setCursor (GXCursor cursor) Sets the cursor position for the request.
void	setKeys (String keys) Sets the key sequence that will be set to the host.
String	toString ()
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest](#)

[addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#),
[addInputField](#), [addInputFields](#), [changeInputField](#), [getInputFields](#), [getSeqScreenNumber](#),
[isWindowRelativePositioning](#), [readExternal](#), [removeInputField](#), [setSeqScreenNumber](#),
[setWindowRelativePositioning](#), [toString](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#),
[readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [java.io.Externalizable](#)

[readExternal](#), [writeExternal](#)

Constructors

GXSendKeysRequest

```
public GXSendKeysRequest()
```

GXSendKeysRequest

```
public GXSendKeysRequest(String keys)
```

Parameters:

keys - the key (or sequence of keys and data) to send.

GXSendKeysRequest

```
public GXSendKeysRequest(String keys,  
                           GXIScreen screen)
```

Parameters:

keys - the key (or sequence of keys and data) to send.

screen - a screen in which the request is initialized from. Set the sequence number and window state from the screen

Methods

getKeys

```
public String getKeys()
```

Returns:

(continued from last page)

the key (or sequence of keys and data) set to be sent to the host.

setKeys

```
public void setKeys(String keys)
```

Sets the key sequence that will be set to the host.

Parameters:

keys - the key (or sequence of keys and data) to send.

setCursor

```
public void setCursor(GXCursor cursor)
```

Sets the cursor position for the request.

Parameters:

cursor - the cursor position to be sent to the host.

getCursor

```
public GXCursor getCursor()
```

Returns:

the cursor position set in the request.

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

toString

```
public String toString()
```

clone

```
public Object clone()
```

com.sabratec.applinx.baseobject Class GXSessionStatusResponse

java.lang.Object

└-com.sabratec.applinx.baseobject.GXSessionStatusResponse

All Implemented Interfaces:

java.io.Serializable

```
public class GXSessionStatusResponse
extends Object
implements java.io.Serializable
```

Response data message for the get status request.

Constructor Summary

public	GXSessionStatusResponse (int seqScreenNumber) Create a new session status response message.
--------	----------------------------------------------------------------------------------------------------------------

Method Summary

int	getSeqScreenNumber () Returns the current session sequential screen number.
-----	------------------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXSessionStatusResponse

```
public GXSessionStatusResponse(int seqScreenNumber)
```

Create a new session status response message.

Parameters:

seqScreenNumber - the current session sequential screen number.

Methods

getSeqScreenNumber

```
public int getSeqScreenNumber()
```

Returns the current session sequential screen number.

com.sabratec.applinx.baseobject Class GXSetVariablesRequest

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Externalizable

public class **GXSetVariablesRequest**
extends [GXAbstractRequest](#)

Set Variables Request.

Constructor Summary

public	GXSetVariablesRequest()
--------	-----------------------------------------

Method Summary

void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#), [readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface java.io.Externalizable

[readExternal](#), [writeExternal](#)

Constructors

GXSetVariablesRequest

public **GXSetVariablesRequest**()

Methods

(continued from last page)

readExternal

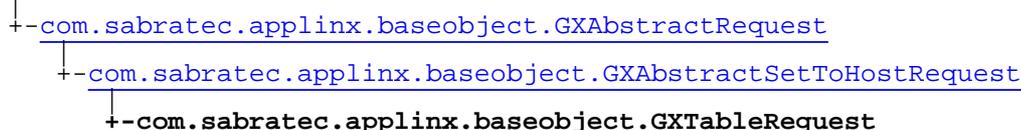
```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXTableRequest

java.lang.Object



All Implemented Interfaces:

[GXDebuggableRequest](#), Cloneable, java.io.Externalizable

public class **GXTableRequest**

extends [GXAbstractSetToHostRequest](#)

implements java.io.Externalizable, Cloneable, [GXDebuggableRequest](#)

Settings for get table execution request.

Constructor Summary

public	GXTableRequest () Constructs a new Table Request for a table associated with the current host screen.
public	GXTableRequest (String tableName)
public	GXTableRequest (String tableName, boolean isFullDetails, boolean isDebugMode)

Method Summary

String	getTable ()
boolean	isDebugMode ()
boolean	isFullDetails ()
void	readExternal (java.io.ObjectInput in)
void	setDebugMode () Sets the path, that is executed to retrieve the table, to be executed in debug mode.
void	setFullDetails (boolean isFullDetails)
void	setTableName (String tableName)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest](#)

[addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#), [addInputField](#),
[addInputField](#), [addInputFields](#), [changeInputField](#), [getInputFields](#), [getSeqScreenNumber](#),
[isWindowRelativePositioning](#), [readExternal](#), [removeInputField](#), [setSeqScreenNumber](#),
[setWindowRelativePositioning](#), [toString](#), [writeExternal](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractRequest](#)

[addVariable](#), [addVariable](#), [addVariableArray](#), [clone](#), [equals](#), [getVariables](#), [hashCode](#),
[readExternal](#), [setVariables](#), [writeExternal](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [java.io.Externalizable](#)

[readExternal](#), [writeExternal](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.GXDebuggableRequest](#)

[isDebugMode](#), [setDebugMode](#)

Constructors

GXTableRequest

```
public GXTableRequest()
```

Constructs a new Table Request for a table associated with the current host screen.

GXTableRequest

```
public GXTableRequest(String tableName)
```

Parameters:

`tableName` - name of table to create.

GXTableRequest

```
public GXTableRequest(String tableName,  
                      boolean isFullDetails,  
                      boolean isDebugMode)
```

Parameters:

`tableName` - name of table to create.

`isFullDetails` - whether to return all the host field properties of the table cells (colors, attributes, etc.). Otherwise, only cells' contents are returned. By default this parameter is true.

`isDebugMode` - flag to execute the table's path in debug mode (relevant only for a path table). In this mode, a very detailed log of the path execution process is written to the log.

Methods

(continued from last page)

getTableName

```
public String getTableName()
```

Returns:

the table name

setTableName

```
public void setTableName(String tableName)
```

Parameters:

tableName - the table name

setDebugMode

```
public void setDebugMode()
```

Sets the path, that is executed to retrieve the table, to be executed in debug mode.

isDebugMode

```
public boolean isDebugMode()
```

Returns:

the status of the debug mode flag.

isFullDetails

```
public boolean isFullDetails()
```

Returns:

whether the table should be returned with field attributes

setFullDetails

```
public void setFullDetails(boolean isFullDetails)
```

Parameters:

isFullDetails - whether the table should be returned with field attributes

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

com.sabratec.applinx.baseobject Class GXVariable

```

java.lang.Object
  |
  +-GXKeyValue
     |
     +-com.sabratec.applinx.baseobject.GXVariable
  
```

All Implemented Interfaces:

[GXIVariable](#)

public class **GXVariable**
 extends [GXKeyValue](#)
 implements [GXIVariable](#)

This class represents a single variable to be set to a session request. The variables that can be set include application parameters, screen properties and path variables.

All the constants for the names of the variables can be found in [GXBaseObjectConstants](#).

Fields inherited from interface [com.sabratec.applinx.baseobject.GXIVariable](#)

[NULL](#), [OVERRIDE](#)

Constructor Summary

public	GXVariable () empty ctor - to be used only by serialization
public	GXVariable (String name)
public	GXVariable (String name, String value)

Method Summary

Object	clone ()
boolean	equals (Object obj)
int	hashCode ()
boolean	isVariable (String varName)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIVariable](#)

[getName](#), [setName](#)

Constructors

GXVariable

```
public GXVariable()
```

empty ctor - to be used only by serialization

GXVariable

```
public GXVariable(String name)
```

Parameters:

name - the name of the variable to set.

GXVariable

```
public GXVariable(String name,  
                  String value)
```

Parameters:

name - the name of the application field to set.

value - value to set to the variable.

Methods

isVariable

```
public boolean isVariable(String varName)
```

hashCode

```
public int hashCode()
```

equals

```
public boolean equals(Object obj)
```

clone

```
public Object clone()
```

com.sabratec.applinx.baseobject Class GXVariableArray

java.lang.Object

└-com.sabratec.applinx.baseobject.GXVariableArray

All Implemented Interfaces:

[GXIVariable](#)

```
public class GXVariableArray
extends Object
implements GXIVariable
```

This class represents a variable with multiple values to be set to a session request. Variables that can be set are path variables.

Fields inherited from interface [com.sabratec.applinx.baseobject.GXIVariable](#)

[NULL](#), [OVERRIDE](#)

Constructor Summary

public	GXVariableArray (String name, String[] values)
--------	----------------------------------------------------------------

Method Summary

String	getName ()
--------	----------------------------

String[]	getValues ()
----------	------------------------------

void	setName (String name)
------	---------------------------------------

void	setValues (String[] values)
------	---------------------------------------------

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIVariable](#)

[getName](#), [setName](#)

Constructors

GXVariableArray

```
public GXVariableArray(String name,
String[] values)
```

(continued from last page)

Parameters:

name - the name of the variable to set.
values - array of String values to set to the variable.

Methods

getName

```
public String getName()
```

See Also:

[GXIVariable.getName\(\)](#)

setName

```
public void setName(String name)
```

See Also:

[GXIVariable.setName\(String\)](#)

setValues

```
public void setValues(String[] values)
```

Parameters:

values - the values to set in the variable array

getValues

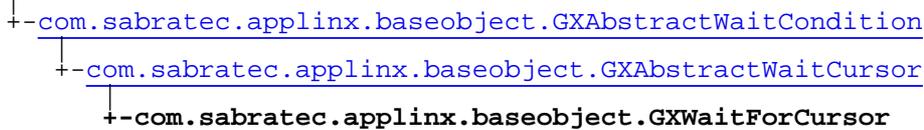
```
public String[] getValues()
```

Returns:

the variable array values

com.sabratec.applinx.baseobject Class GXWaitForCursor

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

```
public class GXWaitForCursor
extends GXAbstractWaitCursor
```

Wait condition that instructs the ApplinX server to wait for the cursor to reach a specified location.

Constructor Summary

public	GXWaitForCursor (GXPosition cursorAt, long timeout, long flicker) Sets a wait condition that instructs the ApplinX server to wait for the cursor to reach the specified position.
public	GXWaitForCursor (GXPosition upperLeft, GXPosition lowerRight, long timeout, long flicker) Sets a wait condition that instructs the ApplinX server to wait for the cursor to reach a position within the specified rectangle.

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCursor](#)

[getLowerRightPosition](#), [getUpperLeftPosition](#), [setLowerRightPosition](#),
[setUpperLeftPosition](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitForCursor

```
public GXWaitForCursor(GXPosition cursorAt,
                      long timeout,
                      long flicker)
```

Sets a wait condition that instructs the ApplinX server to wait for the cursor to reach the specified position.

Parameters:

cursorAt - Position where the cursor should be.

(continued from last page)

`timeout` - Expiration time of the wait condition.

`flicker` - Time to wait after the wait condition was met.

GXWaitForCursor

```
public GXWaitForCursor(GXPosition upperLeft,  
                       GXPosition lowerRight,  
                       long timeout,  
                       long flicker)
```

Sets a wait condition that instructs the ApplinX server to wait for the cursor to reach a position within the specified rectangle.

Parameters:

`upperLeft` - Upper left position of the rectangle where the cursor should be.

`lowerRight` - Lower right position of the rectangle where the cursor should be.

`timeout` - Expiration time of the wait condition.

`flicker` - Time to wait after the wait condition was met.

com.sabratec.applinx.baseobject Class GXWaitForScreen

```

java.lang.Object
  |
  +- com.sabratec.applinx.baseobject.GXAbstractWaitCondition
      |
      +- com.sabratec.applinx.baseobject.GXAbstractWaitScreen
          |
          +- com.sabratec.applinx.baseobject.GXWaitForScreen
  
```

All Implemented Interfaces:

[GXWaitCondition](#)

```

public class GXWaitForScreen
extends GXAbstractWaitScreen
  
```

Wait condition that instructs the ApplinX server to wait for a specific screen.

Constructor Summary

public	GXWaitForScreen (String screenName, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait until the screen from the host is identified as the screen with the given name (ID).
--------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitScreen](#)

[getScreenName](#), [setScreenName](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitForScreen

```

public GXWaitForScreen(String screenName,
                       long timeout,
                       long flicker)
  
```

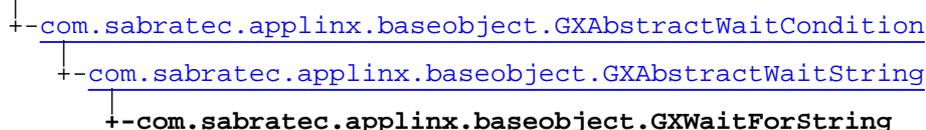
Sets a wait condition that instructs ApplinX server to wait until the screen from the host is identified as the screen with the given name (ID).

Parameters:

- screenName - Name of the expected screen.
- timeout - Expiration time of the wait condition.
- flicker - Time to wait after the wait condition was met.

com.sabratec.applinx.baseobject Class GXWaitForString

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

```
public class GXWaitForString
extends GXAbstractWaitString
```

Wait condition that instructs the ApplinX server to wait for a specific string in a specific location on the screen.

Constructor Summary

public	GXWaitForString (String string, boolean isCaseSensitive, GXPosition stringAt, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait until the given string appears at the given position.
public	GXWaitForString (String string, boolean isCaseSensitive, GXPosition upperLeft, GXPosition lowerRight, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait until the given string appears in the rectangle specified by upper left and lower right positions.

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitString](#)

[getLowerRightPosition](#), [getString](#), [getUpperLeftPosition](#), [isCaseSensitive](#), [setIsCaseSensitive](#), [setLowerRightPosition](#), [setString](#), [setUpperLeftPosition](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitForString

```
public GXwaitForString(String string,
                      boolean isCaseSensitive,
                      GXPosition stringAt,
                      long timeout,
                      long flicker)
```

Sets a wait condition that instructs ApplinX server to wait until the given string appears at the given position.

(continued from last page)

Parameters:

`string` - The expected string.
`isCaseSensitive` - Whether the condition is case sensitive
`stringAt` - Position where the string should appear.
`timeout` - Expiration time of the wait condition.
`flicker` - Time to wait after the wait condition was met.

GXWaitForString

```
public GXWaitForString(String string,  
                        boolean isCaseSensitive,  
                        GXPosition upperLeft,  
                        GXPosition lowerRight,  
                        long timeout,  
                        long flicker)
```

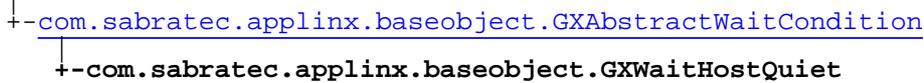
Sets a wait condition that instructs ApplinX server to wait until the given string appears in the rectangle specified by upper left and lower right positions.

Parameters:

`string` - The expected string.
`isCaseSensitive` - Whether the condition is case sensitive
`upperLeft` - Upper left position of the rectangle where the string should appear.
`lowerRight` - Lower right position of the rectangle where the string should appear.
`timeout` - Expiration time of the wait condition.
`flicker` - Time to wait after the wait condition was met.

com.sabratec.applinx.baseobject Class GXWaitHostQuiet

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

public class **GXWaitHostQuiet**
extends [GXAbstractWaitCondition](#)

Wait condition that instructs the ApplinX server to wait a specified time before returning a host screen.

Constructor Summary

public	GXWaitHostQuiet (long timeout, long flicker) Sets a wait condition that instructs the ApplinX server to wait the specified time before returning the host screen.
public	GXWaitHostQuiet (long timeout, long flicker, boolean waitForSystemUnlock)

Method Summary

boolean	isWaitForSystemUnlock () Determine Whether to wait for keyboard unlock or not (also called "set-ctrl-n"), default is true.
---------	-----------------------------------------------------------------------------------------------------------------------------------------------

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitHostQuiet

```
public GXWaitHostQuiet(long timeout,
                       long flicker)
```

Sets a wait condition that instructs the ApplinX server to wait the specified time before returning the host screen. This condition is less recommended because it will always wait the specified time before returning the host screen even if the screen has arrived fully before the expiration time.

Parameters:

- timeout - Expiration time of the wait condition.
- flicker - Time to wait after the wait condition was met.

GXWaitHostQuiet

```
public GXWaitHostQuiet(long timeout,  
                       long flicker,  
                       boolean waitForSystemUnlock)
```

Parameters:

`timeout` - Expiration time of the wait condition.

`flicker` - Time to wait after the wait condition was met.

`waitForSystemUnlock` - Whether to wait for keyboard unlock or not (also called "set-ctrl-n"), default is `true`.

See Also:

[GXWaitHostQuiet\(long, long\)](#)

Methods

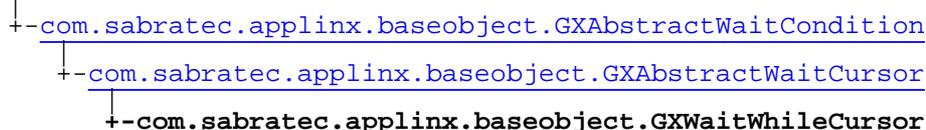
isWaitForSystemUnlock

```
public boolean isWaitForSystemUnlock()
```

Determine Whether to wait for keyboard unlock or not (also called "set-ctrl-n"), default is `true`.

com.sabratec.applinx.baseobject Class GXWaitWhileCursor

java.lang.Object



All Implemented Interfaces:

[GXWaitCondition](#)

```
public class GXWaitWhileCursor
extends GXAbstractWaitCursor
```

Wait condition that instructs the ApplinX server to wait as long as the cursor is in a specified location.

Constructor Summary

public	GXWaitWhileCursor (GXPosition cursorAt, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait while the cursor is at the specified position.
public	GXWaitWhileCursor (GXPosition upperLeft, GXPosition lowerRight, long timeout, long flicker) Sets a wait condition that instructs ApplinX Server to wait while the cursor is in the rectangle specified by upper left and lower right positions.

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCursor](#)

[getLowerRightPosition](#), [getUpperLeftPosition](#), [setLowerRightPosition](#),
[setUpperLeftPosition](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitWhileCursor

```
public GXWaitWhileCursor(GXPosition cursorAt,
                        long timeout,
                        long flicker)
```

Sets a wait condition that instructs ApplinX server to wait while the cursor is at the specified position.

Parameters:

cursorAt - Position where the cursor should be.

(continued from last page)

`timeout` - Expiration time of the wait condition.

`flicker` - Time to wait after the wait condition was met.

GXWaitWhileCursor

```
public GXWaitWhileCursor(GXPosition upperLeft,  
                          GXPosition lowerRight,  
                          long timeout,  
                          long flicker)
```

Sets a wait condition that instructs ApplinX Server to wait while the cursor is in the rectangle specified by upper left and lower right positions.

Parameters:

`upperLeft` - Upper left position of the rectangle where the cursor should be.

`lowerRight` - Lower right position of the rectangle where the cursor should be.

`timeout` - Expiration time of the wait condition.

`flicker` - Time to wait after the wait condition was met.

com.sabratec.applinx.baseobject Class GXWaitWhileScreen

```

java.lang.Object
  |
  +- com.sabratec.applinx.baseobject.GXAbstractWaitCondition
      |
      +- com.sabratec.applinx.baseobject.GXAbstractWaitScreen
          |
          +- com.sabratec.applinx.baseobject.GXWaitWhileScreen
  
```

All Implemented Interfaces:

[GXWaitCondition](#)

```

public class GXWaitWhileScreen
extends GXAbstractWaitScreen
  
```

Wait condition that instructs the ApplinX server to wait until the screen is different from a specific screen.

Constructor Summary

public	GXWaitWhileScreen (String screenName, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait while the screen from the host is identified as the screen with the given name (ID).
--------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitScreen](#)

[getScreenName](#), [setScreenName](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitWhileScreen

```

public GXWaitWhileScreen(String screenName,
                          long timeout,
                          long flicker)
  
```

Sets a wait condition that instructs ApplinX server to wait while the screen from the host is identified as the screen with the given name (ID).

Parameters:

- screenName - Name of the screen.
- timeout - Expiration time of the wait condition.
- flicker - Time to wait after the wait condition was met.

com.sabratec.applinx.baseobject Class GXWaitWhileString

```

java.lang.Object
  |
  +- com.sabratec.applinx.baseobject.GXAbstractWaitCondition
      |
      +- com.sabratec.applinx.baseobject.GXAbstractWaitString
          |
          +- com.sabratec.applinx.baseobject.GXWaitWhileString
  
```

All Implemented Interfaces:

[GXWaitCondition](#)

```

public class GXWaitWhileString
extends GXAbstractWaitString
  
```

Wait condition that instructs the ApplinX server to wait as long as a specific string in a specific location on the screen is present.

Constructor Summary

public	GXWaitWhileString (String string, boolean isCaseSensitive, GXPosition stringAt, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait while the given string appears at the given position.
public	GXWaitWhileString (String string, boolean isCaseSensitive, GXPosition upperLeft, GXPosition lowerRight, long timeout, long flicker) Sets a wait condition that instructs ApplinX server to wait while the given string appears in the rectangle specified by upper left and lower right positions.

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitString](#)

[getLowerRightPosition](#), [getString](#), [getUpperLeftPosition](#), [isCaseSensitive](#), [setIsCaseSensitive](#), [setLowerRightPosition](#), [setString](#), [setUpperLeftPosition](#)

Methods inherited from class [com.sabratec.applinx.baseobject.GXAbstractWaitCondition](#)

[getFlicker](#), [getTimeout](#), [setFlicker](#), [setTimeout](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWaitWhileString

```

public GXwaitWhileString(String string,
                          boolean isCaseSensitive,
                          GXPosition stringAt,
                          long timeout,
                          long flicker)
  
```

Sets a wait condition that instructs ApplinX server to wait while the given string appears at the given position.

(continued from last page)

Parameters:

`string` - The expected string.
`isCaseSensitive` - Whether the condition is case sensitive
`stringAt` - Position where the string should appear.
`timeout` - Expiration time of the wait condition.
`flicker` - Time to wait after the wait condition was met.

GXWaitWhileString

```
public GXwaitWhileString(String string,  
                          boolean isCaseSensitive,  
                          GXPosition upperLeft,  
                          GXPosition lowerRight,  
                          long timeout,  
                          long flicker)
```

Sets a wait condition that instructs ApplinX server to wait while the given string appears in the rectangle specified by upper left and lower right positions.

Parameters:

`string` - The expected string.
`isCaseSensitive` - Whether the condition is case sensitive
`upperLeft` - Upper left position of the rectangle where the string should appear.
`lowerRight` - Lower right position of the rectangle where the string should appear.
`timeout` - Expiration time of the wait condition.
`flicker` - Time to wait after the wait condition was met.

Package

com.sabratec.applinx.baseobject.query

Contains classes and interfaces for executing data queries on screens and fields.

com.sabratec.applinx.baseobject.query Class GXAbstractFieldMatchQuery

java.lang.Object

└-com.sabratec.applinx.baseobject.query.GXAbstractFieldMatchQuery

All Implemented Interfaces:

[GXIScreenCollectionFieldsQuery](#)

public abstract class **GXAbstractFieldMatchQuery**
extends Object
implements [GXIScreenCollectionFieldsQuery](#)

Description: This abstract query collects all the instances of fields that meet the abstract criteria from the first screen **only**

Constructor Summary

public	GXAbstractFieldMatchQuery()
--------	---------------------------------------------

Method Summary

abstract boolean	getFieldMatchQuery (GXIField field)
GXIFieldCollection	getFields (GXIScreenCollection screenCollection)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface

[com.sabratec.applinx.baseobject.query.GXIScreenCollectionFieldsQuery](#)

[getFields](#)

Constructors

GXAbstractFieldMatchQuery

public **GXAbstractFieldMatchQuery**()

Methods

getFieldMatchQuery

public abstract boolean **getFieldMatchQuery**([GXIField](#) field)

getFields

```
public GXIFieldCollection getFields(GXIScreenCollection screenCollection)
```

com.sabratec.applinx.baseobject.query Class GXFieldCollectionQueryAppField

java.lang.Object

└-com.sabratec.applinx.baseobject.query.GXFieldCollectionQueryAppField

All Implemented Interfaces:

[GXFieldCollectionQuery](#)

public class **GXFieldCollectionQueryAppField**
extends Object
implements [GXFieldCollectionQuery](#)

Constructor Summary

public	GXFieldCollectionQueryAppField (String name, int index) Constructor
public	GXFieldCollectionQueryAppField (String name) Constructor

Method Summary

boolean	getFieldMatchQuery (GXField field) GXField uses full name
---------	-----------------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.query.GXFieldCollectionQuery](#)

[getFieldMatchQuery](#)

Constructors

GXFieldCollectionQueryAppField

```
public GXFieldCollectionQueryAppField(String name,
                                       int index)
```

Constructor

Parameters:

name - the full or short name of the application field
index - the instance of a multiple application field

GXFieldCollectionQueryAppField

```
public GXFieldCollectionQueryAppField(String name)
```

(continued from last page)

Constructor

Parameters:

name - the full or short name of the application field

Methods

getFieldMatchQuery

```
public boolean getFieldMatchQuery(GXIField field)
```

GXIField uses full name

com.sabratec.applinx.baseobject.query Class GXFieldCollectionQueryProtected

java.lang.Object

└-com.sabratec.applinx.baseobject.query.GXFieldCollectionQueryProtected

All Implemented Interfaces:

[GXFieldCollectionQuery](#)

public class **GXFieldCollectionQueryProtected**
extends Object
implements [GXFieldCollectionQuery](#)

Constructor Summary

public	GXFieldCollectionQueryProtected (boolean isProtected) Constructor
--------	--------------------------------------------------------------------------------------

Method Summary

boolean	getFieldMatchQuery (GXIField field)
---------	----------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.query.GXFieldCollectionQuery](#)

[getFieldMatchQuery](#)

Constructors

GXFieldCollectionQueryProtected

public **GXFieldCollectionQueryProtected**(boolean isProtected)

Constructor

Methods

getFieldMatchQuery

public boolean **getFieldMatchQuery**([GXIField](#) field)

com.sabratec.applinx.baseobject.query Interface GXIFieldCollectionQuery

All Known Implementing Classes:

[GXIFieldCollectionQueryProtected](#), [GXIFieldCollectionQueryAppField](#)

```
public interface GXIFieldCollectionQuery
```

Method Summary

boolean	getFieldMatchQuery (GXIField field)
---------	----------------------------------------------------------------------

Methods

getFieldMatchQuery

```
public boolean getFieldMatchQuery(GXIField field)
```

com.sabratec.applinx.baseobject.query Interface GXIScreenCollectionFieldsQuery

All Known Implementing Classes:

[GXScreenCollectionFieldNameQuery](#), [GXAbstractFieldMatchQuery](#)

```
public interface GXIScreenCollectionFieldsQuery
```

This is the interface for all queries that are performed on GXIScreenCollection, and return GXIFieldCollection.

Method Summary

GXIFieldCollection	getFields (GXIScreenCollection screenCollection)
------------------------------------	-----------------------------------------------------------------------------------

Methods

getFields

```
public GXIFieldCollection getFields(GXIScreenCollection screenCollection)
```

com.sabratec.applinx.baseobject.query Class GXScreenCollectionFieldNameQuery

java.lang.Object

└-com.sabratec.applinx.baseobject.query.GXScreenCollectionFieldNameQuery

All Implemented Interfaces:

[GXIScreenCollectionFieldsQuery](#)

public class **GXScreenCollectionFieldNameQuery**
extends Object
implements [GXIScreenCollectionFieldsQuery](#)

Description: This query collects all the instances of fields that have the name given to it in the constructor. If the field is a multiple appfield in one screen, all its instances will be collected.

Constructor Summary

public	GXScreenCollectionFieldNameQuery (String fieldName)
--------	---------------------------------------------------------------------

Method Summary

GXIFieldCollection	getFields (GXIScreenCollection screenCollection)
------------------------------------	-----------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface

[com.sabratec.applinx.baseobject.query.GXIScreenCollectionFieldsQuery](#)

[getFields](#)

Constructors

GXScreenCollectionFieldNameQuery

public **GXScreenCollectionFieldNameQuery**(String fieldName)

Methods

getFields

public [GXIFieldCollection](#) **getFields**([GXIScreenCollection](#) screenCollection)

Package

com.sabratec.applinx.baseobject.table

Contains classes and interfaces for retrieving and manipulating ApplinX Tables.

com.sabratec.applinx.baseobject.table Class GXAbstractTable

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXAbstractTable

All Implemented Interfaces:

java.io.Externalizable, [GXITable](#)

Direct Known Subclasses:

[GXPartialRowsTable](#), [GXMultipleRecordsTable](#), [GXMasterTable](#), [GXDefaultTable](#)

public abstract class **GXAbstractTable**
 extends Object
 implements [GXITable](#), java.io.Externalizable

Constructor Summary

public	GXAbstractTable (String name)
public	GXAbstractTable ()
public	GXAbstractTable (String name, String[] columnsNames)
public	GXAbstractTable (String name, GXIScreenCollection screens) Creates a new table with all the multiple application fields in all the screens in the screen collection as the table's columns.
public	GXAbstractTable (String name, GXIScreen screen) Creates a new table with all the multiple application fields in the screen as the table's columns.

Method Summary

void	addColumn (GXITableColumn column)
void	addColumn (String column)
void	addColumnns (String[] columns)
void	createTable (GXIScreen screen)
void	createTable (GXIScreenCollection screenCollection, GXVariables variables)
boolean	equals (Object obj)
GXITableColumnCollection	getColumns ()

Methods inherited from interface `java.io.Externalizable``readExternal, writeExternal`

Constructors

GXAbstractTable

```
public GXAbstractTable(String name)
```

GXAbstractTable

```
public GXAbstractTable()
```

GXAbstractTable

```
public GXAbstractTable(String name,  
                        String[] columnsNames)
```

GXAbstractTable

```
public GXAbstractTable(String name,  
                        GXIScreenCollection screens)
```

Creates a new table with all the multiple application fields in all the screens in the screen collection as the table's columns.

GXAbstractTable

```
public GXAbstractTable(String name,  
                        GXIScreen screen)
```

Creates a new table with all the multiple application fields in the screen as the table's columns.

Methods

createTable

```
public void createTable(GXIScreen screen)  
    throws GXColumnNotFoundException
```

createTable

```
public void createTable(GXIScreenCollection screenCollection,  
                        GXVariables variables)  
    throws GXColumnNotFoundException
```

removeColumn

```
public void removeColumn(int columnIndex)
```

removeColumn

```
public void removeColumn(String columnName)
```

sort

```
public void sort(String[] columnNames,  
                boolean[] isAscending)
```

sort

```
public void sort(String columnName,  
                boolean isAscending)
```

sort

```
public void sort(int[] columnIndices,  
                boolean[] isAscending)
```

sort

```
public void sort(int columnIndex,  
                boolean isAscending)
```

getName

```
public String getName()
```

setName

```
public void setName(String name)
```

getColumns

```
public GXITableColumnCollection getColumns()
```

addColumn

```
public void addColumn(GXITableColumn column)
```

addColumn

```
public void addColumn(String column)
```

addColumnns

```
public void addColumnns(String[] columns)
```

getRows

```
public GXITableRowCollection getRows()
```

getNewRow

```
public GXITableRow getNewRow()
```

getPrimaryKey

```
public GXITableColumn\[\] getPrimaryKey()
```

setPrimaryKey

```
public void setPrimaryKey(GXITableColumn\[\] primaryKey)
```

setPrimaryKey

```
public void setPrimaryKey(GXITableColumn primaryKey)
```

setCornersCoordinates

```
public void setCornersCoordinates(GXRectangle corners)
```

setHeaderCoordinates

```
public void setHeaderCoordinates(GXRectangle header)
```

(continued from last page)

getCornersCoordinates

```
public GXRectangle getCornersCoordinates()
```

getHeaderCoordinates

```
public GXRectangle getHeaderCoordinates()
```

equals

```
public boolean equals(Object obj)
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

toString

```
public String toString()
```

com.sabratec.applinx.baseobject.table Class GXCellable

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXCellable

All Implemented Interfaces:

[GXICellable](#)

```
public class GXCellable
  extends Object
  implements GXICellable
```

Constructor Summary

public	GXCellable (String content)
--------	---------------------------------------------

Method Summary

boolean	equals (Object obj)
---------	-------------------------------------

String	getContent ()
--------	-------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXICellable](#)

[getContent](#)

Constructors

GXCellable

```
public GXCellable(String content)
```

Methods

getContent

```
public String getContent()
```

(continued from last page)

equals

```
public boolean equals(Object obj)
```

com.sabratec.applinx.baseobject.table Class GXColumnNotFoundException

```
java.lang.Object
  |
  +- GXExceptionWithErrorCode
     |
     +- com.sabratec.applinx.baseobject.GXGeneralException
        |
        +- com.sabratec.applinx.baseobject.table.GXColumnNotFoundException
```

```
public class GXColumnNotFoundException
extends GXGeneralException
```

Constructor Summary

public	GXColumnNotFoundException (String columnName)
--------	---------------------------------------------------------------

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXColumnNotFoundException

```
public GXColumnNotFoundException(String columnName)
```

com.sabratec.applinx.baseobject.table Class GXColumnsComparator

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXColumnsComparator

public class **GXColumnsComparator**
extends Object

Constructor Summary

public	GXColumnsComparator (GXITableColumn[] columns, boolean isCaseSensitive, boolean[] isAscending)
--------	---------------------------------------------------------------------------------------------------------------------------------

Method Summary

int	compare (Object a, Object b)
-----	----------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXColumnsComparator

```
public GXColumnsComparator(GXITableColumn\[\] columns,
                           boolean isCaseSensitive,
                           boolean[] isAscending)
```

Parameters:

columns - the table columns. Should be sorted according to the desired sorting order.

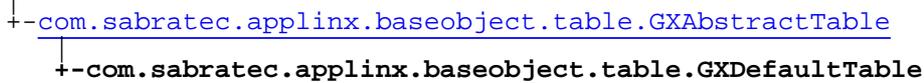
Methods

compare

```
public int compare(Object a,
                   Object b)
```

com.sabratec.applinx.baseobject.table Class GXDefaultTable

java.lang.Object



All Implemented Interfaces:

java.io.Externalizable, [GXITable](#)

public class **GXDefaultTable**
extends [GXAbstractTable](#)

This table should be used in the following cases: - A table based on one host screen. - A table with vertical scrolling only (one host screen being scrolled) - A table with vertical and horizontal scrolling, but with the same records in each instance of scrolling over the screens.

Constructor Summary

public	GXDefaultTable ()
public	GXDefaultTable (String name)
public	GXDefaultTable (String name, String[] columnsNames)
public	GXDefaultTable (String name, GXIScreenCollection screens) Creates a new table with all the multiple application fields in all the screens in the screen collection as the table's columns.
public	GXDefaultTable (String name, GXIScreen screen) Creates a new table with all the multiple application fields in the screen as the table's columns.

Method Summary

void	createTable (GXIScreenCollection screens)
------	----------------------------------------------------------------------------

Methods inherited from class [com.sabratec.applinx.baseobject.table.GXAbstractTable](#)

[addColumn](#), [addColumn](#), [addColumnns](#), [createTable](#), [createTable](#), [equals](#), [getColumns](#), [getCornersCoordinates](#), [getHeaderCoordinates](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [readExternal](#), [removeColumn](#), [removeColumn](#), [setCornersCoordinates](#), [setHeaderCoordinates](#), [setName](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#), [toString](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITable](#)

[addColumn](#), [addColumn](#), [addColumnns](#), [createTable](#), [createTable](#), [createTable](#), [getColumns](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [removeColumn](#), [removeColumn](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#)

Methods inherited from interface `java.io.Externalizable`

`readExternal`, `writeExternal`

Constructors

GXDefaultTable

```
public GXDefaultTable()
```

GXDefaultTable

```
public GXDefaultTable(String name)
```

GXDefaultTable

```
public GXDefaultTable(String name,  
                      String[] columnsNames)
```

GXDefaultTable

```
public GXDefaultTable(String name,  
                      GXIScreenCollection screens)
```

Creates a new table with all the multiple application fields in all the screens in the screen collection as the table's columns.

GXDefaultTable

```
public GXDefaultTable(String name,  
                      GXIScreen screen)
```

Creates a new table with all the multiple application fields in the screen as the table's columns.

Methods

createTable

```
public void createTable(GXIScreenCollection screens)  
    throws GXColumnNotFoundException
```

com.sabratec.applinx.baseobject.table Class GXFieldTableCell

java.lang.Object



All Implemented Interfaces:

[GXIField](#), java.io.Serializable, [GXITableCell](#)

public class **GXFieldTableCell**
 extends [GXTableCell](#)
 implements [GXITableCell](#), java.io.Serializable, [GXIField](#)

Host field based cell.

A table cell based on a host application field. All the properties of a host field are available (colors, attributes, etc.).

Fields inherited from interface [com.sabratec.applinx.baseobject.GXIField](#)

[TYPE_APPFIELD](#), [TYPE_HOSTFIELD](#), [TYPE_HOSTKEY_FIELD](#), [TYPE_MULTIPLE_APPFIELD](#)

Constructor Summary

public	GXFieldTableCell (GXIField hostField)
--------	------------------------------------------------------------------------

Method Summary

int	getBGColor ()
-----	-------------------------------

int	getDataType ()
-----	--------------------------------

int	getFGColor ()
-----	-------------------------------

int	getIndex ()
-----	-----------------------------

String	getInputMask ()
--------	---------------------------------

int	getLength ()
-----	------------------------------

String	getName ()
--------	----------------------------

GXPosition	getPosition ()
----------------------------	--------------------------------

String	getScreenName ()
--------	----------------------------------

int	getScreenSequenceNumber ()
-----	--------------------------------------------

String	getVisualContent()
boolean	isAppField()
boolean	isAutoCursorJump()
boolean	isAutoEnter()
boolean	isBlinking()
boolean	isHighIntensified()
boolean	isMultiple()
boolean	isProtected()
boolean	isReversedVideo()
boolean	isUnderlined()
boolean	isVisible()
String	toString()

Methods inherited from class [com.sabratec.applinx.baseobject.table.GXTableCell](#)

[equals](#), [getContent](#), [setContent](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableCell](#)

[getContent](#), [setContent](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.GXIField](#)

[getBGColor](#), [getContent](#), [getDataType](#), [getFGColor](#), [getIndex](#), [getInputMask](#), [getLength](#), [getName](#), [getPosition](#), [getScreenName](#), [getScreenSequenceNumber](#), [getVisualContent](#), [isAppField](#), [isAutoCursorJump](#), [isAutoEnter](#), [isBlinking](#), [isHighIntensified](#), [isMultiple](#), [isProtected](#), [isReversedVideo](#), [isUnderlined](#), [isVisible](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXICellable](#)

[getContent](#)

Constructors

(continued from last page)

GXFieldTableCell

```
public GXFieldTableCell(GXIField hostField)
```

Methods

getName

```
public String getName()
```

getIndex

```
public int getIndex()
```

getScreenName

```
public String getScreenName()
```

isMultiple

```
public boolean isMultiple()
```

getScreenSequenceNumber

```
public int getScreenSequenceNumber()
```

getPosition

```
public GXPosition getPosition()
```

getLength

```
public int getLength()
```

isProtected

```
public boolean isProtected()
```

(continued from last page)

isVisible

```
public boolean isVisible()
```

isHighIntensified

```
public boolean isHighIntensified()
```

isAutoEnter

```
public boolean isAutoEnter()
```

isAutoCursorJump

```
public boolean isAutoCursorJump()
```

isBlinking

```
public boolean isBlinking()
```

getFGColor

```
public int getFGColor()
```

getBGColor

```
public int getBGColor()
```

getDataType

```
public int getDataType()
```

getInputMask

```
public String getInputMask()
```

getVisualContent

```
public String getVisualContent()
```

(continued from last page)

isAppField

```
public boolean isAppField()
```

isUnderlined

```
public boolean isUnderlined()
```

toString

```
public String toString()
```

isReversedVideo

```
public boolean isReversedVideo()
```

com.sabratec.applinx.baseobject.table Class GXHostTableUtils

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXHostTableUtils

public class **GXHostTableUtils**
extends Object

Title: GXHostTableUtils

Description: contains table utility functions, used mainly for display.

Constructor Summary

public	GXHostTableUtils()
--------	------------------------------------

Method Summary

static GXPosition	getDefinedLowerRightCorner (GXITable table)
static GXPosition	getDefinedUpperLeftCorner (GXITable table)
static int	getFirstAppfieldColumnIndex (GXITable table)
static GXPosition	getHeaderLowerRight (GXITable table)
static GXPosition	getHeaderUpperLeft (GXITable table)
static int	getLastAppfieldColumnIndex (GXITable table)
static GXPosition	getLowerRightCorner (GXITable table)
static GXPosition	getUpperLeftCorner (GXITable table)
static boolean	isColumnAppfieldColumn (GXITable table, int column)
static boolean	isPositionInTable (GXITable table, int row, int col)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

(continued from last page)

GXHostTableUtils

```
public GXHostTableUtils()
```

Methods

getHeaderUpperLeft

```
public static GXPosition getHeaderUpperLeft(GXITable table)
```

Parameters:

table - the table.

Returns:

the table header's upper left corner, as defined in the Table entity in ApplinX Composer.

getHeaderLowerRight

```
public static GXPosition getHeaderLowerRight(GXITable table)
```

Parameters:

table - the table.

Returns:

the table header's lower right corner, as defined in the Table entity in ApplinX Composer.

getDefinedUpperLeftCorner

```
public static GXPosition getDefinedUpperLeftCorner(GXITable table)
```

Parameters:

table - the table.

Returns:

the upper left corner of the table area, as defined in the Table entity in ApplinX Composer. May be different than the actual data corner, because of filters.

See Also:

[getHeaderUpperLeft\(GXITable\)](#)

getDefinedLowerRightCorner

```
public static GXPosition getDefinedLowerRightCorner(GXITable table)
```

Parameters:

table - the table.

Returns:

(continued from last page)

the lower right corner of the table area, as defined in the Table entity in ApplinX Composer. May be different than the actual data corner, because of filters.

See Also:

[getLowerRightCorner\(GXITable\)](#)

isPositionInTable

```
public static boolean isPositionInTable(GXITable table,
    int row,
    int col)
```

Parameters:

table - the table.
row - should range between 0 to rowCount - 1.
col - should range between 0 to columnCount - 1.

Returns:

whether the position in the specified row / column coordinates is inside the specified table, in its defined area (the actual area can be smaller in case of filters).

getUpperLeftCorner

```
public static GXPosition getUpperLeftCorner(GXITable table)
```

Parameters:

table - the table.

Returns:

the actual upper left corner of the table.

See Also:

[getDefinedUpperLeftCorner\(GXITable\)](#)

isColumnAppfieldColumn

```
public static boolean isColumnAppfieldColumn(GXITable table,
    int column)
```

Parameters:

table - the table.
column - column's index, should range between 0 to columnCount - 1.

Returns:

whether the column at the specified index is of type Application Field.

getLowerRightCorner

```
public static GXPosition getLowerRightCorner(GXITable table)
```

Parameters:

table - the table.

(continued from last page)

Returns:

the actual lower right corner of the table.

See Also:

[getDefinedLowerRightCorner\(GXITable\)](#)

getFirstAppfieldColumnIndex

```
public static int getFirstAppfieldColumnIndex(GXITable table)
```

Parameters:

table - the table.

Returns:

the index of the first table column which is of type Application Field, -1 if no such column is found.

getLastAppfieldColumnIndex

```
public static int getLastAppfieldColumnIndex(GXITable table)
```

Parameters:

table - the table.

Returns:

the index of the last table column which is of type Application Field, -1 if no such column is found.

com.sabratec.applinx.baseobject.table Interface GXICellable

All Subinterfaces:

[GXIField](#)

All Known Implementing Classes:

[GXCellable](#)

public interface **GXICellable**

Description: This interface represents a cell in a host table.

Method Summary

String	getContent()
--------	------------------------------

Methods

getContent

public String **getContent()**

Returns:

the content of the cell.

com.sabratec.applinx.baseobject.table Interface GXIColumnIdentifier

public interface **GXIColumnIdentifier**

Used by GXAddFieldToPreviousRowFilter, in order to determine if a row contains a field to be copied to a previous row.

Method Summary

String	getColumnName()
boolean	isCell(GXITableRow row)

Methods

isCell

public boolean **isCell**([GXITableRow](#) row)

getColumnName

public String **getColumnName**()

com.sabratec.applinx.baseobject.table Interface GXIMasterRowIdentifier

public interface **GXIMasterRowIdentifier**

Method Summary

boolean	isMasterRow (GXITableRow row)
---------	----------------------------------------------------------------

Methods

isMasterRow

public boolean **isMasterRow**([GXITableRow](#) row)

com.sabratec.applinx.baseobject.table Interface GXIRowsFilter

All Known Implementing Classes:

[GXNonEmptyRowsFilter](#), [GXNonDuplicateRowsFilter](#), [GXAddFieldToPreviousRowFilter](#)

```
public interface GXIRowsFilter
extends java.io.Serializable
```

Row filtering object.

This class represents a filter for excluding table rows, based on certain conditions. Currently, when defining a table entity in ApplinX Composer, two types of filters can be defined: filtering empty rows and filtering duplicate rows. Using this interface, custom filters can be added to the table's RowCollection.

See Also:

Method Summary

GXITableRowCollection	filter (GXITableRowCollection rows) Used to filter an existing row collection.
boolean	isPrimaryKeyValid (String primaryKey, GXITableRowCollection rowsSoFar) This method is used, by ApplinX Server, when building a table.
boolean	isRowValid (GXITableRow row, GXITableRowCollection rowsSoFar) This method is used, by ApplinX Server, when building a table, to decide whether to add a row to the table.

Methods

filter

```
public GXITableRowCollection filter(GXITableRowCollection rows)
```

Used to filter an existing row collection.

Parameters:

rows - the rows to filter.

Returns:

the rows after filtering.

isRowValid

```
public boolean isRowValid(GXITableRow row,
GXITableRowCollection rowsSoFar)
```

This method is used, by ApplinX Server, when building a table, to decide whether to add a row to the table. Can also be used by filter(), for each row.

Parameters:

(continued from last page)

`row` - the row to check

`rowsSoFar` - the rows added to the table so far, for conditions that depend on previous rows (for example - duplicate rows).

Returns:

whether the row is valid or not.

See Also:

[filter\(GXITableRowCollection\)](#)

isPrimaryKeyValid

```
public boolean isPrimaryKeyValid(String primaryKey,  
    GXITableRowCollection rowsSoFar)
```

This method is used, by ApplinX Server, when building a table. Before starting to build a row, an initial check validates the primary key. If it isn't valid, the row is skipped.

Parameters:

`primaryKey` - the row's primary key.

`rowsSoFar` - the rows added to the table so far, for conditions that depend on previous rows (for example - duplicate rows).

Returns:

whether the row's primary key is valid or not.

com.sabratec.applinx.baseobject.table Interface GXITable

All Known Implementing Classes:
[GXAbstractTable](#)

public interface **GXITable**
extends java.io.Serializable

General table entity.

The external table interface.

Method Summary	
void	addColumn(GXITableColumn column) Adds a column at the end of the table.
void	addColumn(String columnName) Creates a new table column of the specified name and adds it at the end of the table.
void	addColumnns(String[] columnNames) Creates new table columns of the specified names and adds them at the end of the table, according to their order in the names array.
void	createTable(GXIScreen screen)
void	createTable(GXIScreenCollection screenCollection)
void	createTable(GXIScreenCollection screenCollection, GXVariables variables) Creates a table based on Base Object screens and variables and on the table's columns schema.
GXITableColumnCollection	getColumns()
String	getName()
GXITableRow	getNewRow() Used to programmatically add a new row to the table.
GXITableColumn[]	getPrimaryKey() The table's primary key is based on one or more columns.
GXITableRowCollection	getRows()
void	removeColumn(int columnIndex) Removes the column at the specified index.
void	removeColumn(String columnName) Removes the column of the specified name.

void	setPrimaryKey(GXITableColumn primaryKey) Sets one table column as the primary key.
void	setPrimaryKey(GXITableColumn[] primaryKey) Sets the columns that compose the table's primary key.
void	sort(int[] columnIndices, boolean[] isAscending) Sorts table rows according to specified columns indices.
void	sort(int columnIndex, boolean isAscending) Sorts table rows according to specified column index.
void	sort(String[] columnNames, boolean[] isAscending) Sorts table rows according to specified column names.
void	sort(String columnName, boolean isAscending) Sorts table rows according to specified column name.

Methods

getName

```
public String getName()
```

Returns:

table's name, defined in the table entity definition.

getColumns

```
public GXITableColumnCollection getColumns()
```

Returns:

table's defined columns.

addColumn

```
public void addColumn(GXITableColumn column)
```

Adds a column at the end of the table.

Parameters:

column - the column to add.

addColumn

```
public void addColumn(String columnName)
```

Creates a new table column of the specified name and adds it at the end of the table.

Parameters:

columnName - name of the column to create and add.

addColumnns

```
public void addColumnns(String[] columnNames)
```

Creates new table columns of the specified names and adds them at the end of the table, according to their order in the names array.

Parameters:

columnNames - names of the column to create and add.

removeColumn

```
public void removeColumn(int columnIndex)
```

Removes the column at the specified index.

Parameters:

columnIndex - column index to remove, should range between 0 to columnCount - 1.

removeColumn

```
public void removeColumn(String columnName)
```

Removes the column of the specified name.

Parameters:

columnName - column name to remove.

getRows

```
public GXITableRowCollection getRows()
```

Returns:

table's data rows.

getNewRow

```
public GXITableRow getNewRow()
```

Used to programmatically add a new row to the table. Done by getting a new row, filling in its cells and then adding it to the table.

Returns:

a new empty row, containing the table's defined columns.

getPrimaryKey

```
public GXITableColumn\[\] getPrimaryKey()
```

The table's primary key is based on one or more columns. The key should yield a unique record. If two records have the same key, one is chosen arbitrarily when searching a row according to the primary key. If no primary key column is specified, the default key is the screen index + row index (in the host screen).

Returns:

table's columns that compose the primary key definition.

setPrimaryKey

```
public void setPrimaryKey(GXITableColumn\[\] primaryKey)
```

Sets the columns that compose the table's primary key.

Parameters:

primaryKey - the columns that compose the primary key.

See Also:

[getPrimaryKey\(\)](#)

setPrimaryKey

```
public void setPrimaryKey(GXITableColumn primaryKey)
```

Sets one table column as the primary key.

Parameters:

primaryKey - the table column to serve as the primary key.

See Also:

[getPrimaryKey\(\)](#)

createTable

```
public void createTable(GXIScreenCollection screenCollection,  
    GXVariables variables)  
throws GXColumnNotFoundException
```

Creates a table based on Base Object screens and variables and on the table's columns schema.

Parameters:

screenCollection - a collection of screen(s).
variables - path variables.

Throws:

[GXColumnNotFoundException](#) - when the field or variable associated to the column is not found in the input.

createTable

```
public void createTable(GXIScreenCollection screenCollection)  
throws GXColumnNotFoundException
```

See Also:

[createTable\(GXIScreenCollection, GXVariables\)](#)

createTable

```
public void createTable(GXIScreen screen)  
throws GXColumnNotFoundException
```

See Also:

[createTable\(GXIScreenCollection, GXVariables\)](#)

sort

```
public void sort(String[] columnNames,  
                boolean[] isAscending)
```

Sorts table rows according to specified column names. Sort priority is determined by the order of the columns in the names array.

Parameters:

columnNames - sorting columns.

isAscending - whether they should be sorted in ascending or descending order. Note: the sort is case-sensitive.

sort

```
public void sort(String columnName,  
                boolean isAscending)
```

Sorts table rows according to specified column name.

Parameters:

columnName - sorting column.

isAscending - whether they should be sorted in ascending or descending order. Note: the sort is case-sensitive.

sort

```
public void sort(int[] columnIndices,  
                boolean[] isAscending)
```

Sorts table rows according to specified columns indices. Sort priority is determined by the order of columns in the names array.

Parameters:

columnIndices - sorting columns.

isAscending - whether they should be sorted in ascending or descending order. Note: the sort is case-sensitive.

sort

```
public void sort(int columnIndex,  
                boolean isAscending)
```

Sorts table rows according to specified column index.

Parameters:

columnIndex - sorting column.

isAscending - whether they should be sorted in ascending or descending order. Note: the sort is case-sensitive.

com.sabratec.applinx.baseobject.table Interface GXITableCell

All Known Implementing Classes:

[GXTableCell](#)

public interface **GXITableCell**

Basic table cell.

a basic cell in a table.

See Also:

[GXFieldTableCell](#), [GXVariableTableCell](#)

Method Summary

String	getContent()
void	setContent(String content) Sets the content of the cell.

Methods

getContent

```
public String getContent()
```

Returns:

cell's content.

setContent

```
public void setContent(String content)
```

Sets the content of the cell. Note this method only affects the cell (the contents are not sent to the host).

Parameters:

`content` - new cell's content.

com.sabratec.applinx.baseobject.table Interface GXITableColumn

All Known Implementing Classes:

[GXTableColumn](#)

public interface **GXITableColumn**

Table column.

Represents a column definition in the table.

Field Summary

public static final	GX_TABLE_COLUMN_DATA_TYPE_ALPHANUMERIC Value: 0
public static final	GX_TABLE_COLUMN_DATA_TYPE_NUMERIC Value: 1
public static final	GX_TABLE_COLUMN_TYPE_APPFIELD
public static final	GX_TABLE_COLUMN_TYPE_OTHER
public static final	GX_TABLE_COLUMN_TYPE_VARIABLE

Method Summary

String	getAppFieldFullName()
String	getAppFieldName()
String	getCaption()
int	getCopyCount()
int	getDataType()
String	getName()
String[]	getScreenNames() Used for horizontal scrolling, for tables spanning over more than one identified host screen.
int	getType() Returns the type of the column's mapped object.
String	getVariableName()

boolean	isMasterRow()
boolean	isToCopy()
void	setAppFieldName(String name) Sets the name of the application field that is to be associated with this column.
void	setCaption(String caption) Sets the column's caption.
void	setCopyCount(int copyCount)
void	setDataType(int dataType) sets the table's data type.
void	setIsMasterRow(boolean isMasterRow)
void	setIsToCopy(boolean isToCopy)
void	setName(String name) Sets the name of the column.
void	setScreenNames(String[] names)
void	setVariableName(String name) Sets the name of the variable that is to be associated with this column.

Fields

GX_TABLE_COLUMN_DATA_TYPE_ALPHANUMERIC

```
public static final int GX_TABLE_COLUMN_DATA_TYPE_ALPHANUMERIC
```

Constant value: 0

GX_TABLE_COLUMN_DATA_TYPE_NUMERIC

```
public static final int GX_TABLE_COLUMN_DATA_TYPE_NUMERIC
```

Constant value: 1

GX_TABLE_COLUMN_TYPE_APPFIELD

```
public static final int GX_TABLE_COLUMN_TYPE_APPFIELD
```

GX_TABLE_COLUMN_TYPE_VARIABLE

```
public static final int GX_TABLE_COLUMN_TYPE_VARIABLE
```

GX_TABLE_COLUMN_TYPE_OTHER

```
public static final int GX_TABLE_COLUMN_TYPE_OTHER
```

Methods

getDataType

```
public int getDataType()
```

Returns:

the column's data type, as defined in the data type constants.

setDataType

```
public void setDataType(int dataType)
```

sets the table's data type.

Parameters:

dataType - table's data type, should be one of the defined types.

getType

```
public int getType()
```

Returns the type of the column's mapped object. Current possible types are application field and variable array, as defined in the column type constants.

Returns:

the type of the column's mapped object.

getName

```
public String getName()
```

Returns:

column's name.

setName

```
public void setName(String name)
```

Sets the name of the column. A column name should be unique, setting a column's name to a name that already exists will override the existing column.

Parameters:

name - new column's name.

(continued from last page)

getAppFieldName

```
public String getAppFieldName()
```

Returns:

the name of the application field associated with this column, when this column is an application field column, otherwise null.

getAppFieldFullName

```
public String getAppFieldFullName()
```

Returns:

the full name of the application field associated with this column, when this column is an application field column, otherwise null.

setAppFieldName

```
public void setAppFieldName(String name)
```

Sets the name of the application field that is to be associated with this column. Setting the name also makes the column's type be Application Field based.

Parameters:

name - the application field's full name (including the folder structure).

getVariableName

```
public String getVariableName()
```

Returns:

the name of the variable associated with this column, when this column is a variable column, otherwise null.

setVariableName

```
public void setVariableName(String name)
```

Sets the name of the variable that is to be associated with this column. Setting the name also makes the column's type Variable based.

Parameters:

name - the variable's name.

getCaption

```
public String getCaption()
```

Returns:

the column's caption.

(continued from last page)

setCaption

```
public void setCaption(String caption)
```

Sets the column's caption.

Parameters:

caption - the new caption.

getScreenNames

```
public String[] getScreenNames()
```

Used for horizontal scrolling, for tables spanning over more than one identified host screen. Multiple screen names are used if the same application field is mapped in more than one screen, but should be collected for the table only from some of the screens.

Returns:

the full names of the screens.

setScreenNames

```
public void setScreenNames(String[] names)
```

Parameters:

names - full screen names (including folder structure).

See Also:

[getScreenNames\(\)](#)

setIsMasterRow

```
public void setIsMasterRow(boolean isMasterRow)
```

isMasterRow

```
public boolean isMasterRow()
```

setIsToCopy

```
public void setIsToCopy(boolean isToCopy)
```

isToCopy

```
public boolean isToCopy()
```

(continued from last page)

setCopyCount

```
public void setCopyCount(int copyCount)
```

getCopyCount

```
public int getCopyCount()
```

com.sabratec.applinx.baseobject.table Interface GXITableColumnCollection

All Known Implementing Classes:
[GXITableColumnCollection](#)

public interface **GXITableColumnCollection**

Table's column schema.

Represents the defined columns schema of this table. The collection is composed of GXITableColumn.

Method Summary

void	addColumn (GXITableColumn column) Adds a new column to the schema.
GXITableColumn	getColumn (int columnIndex)
GXITableColumn	getColumn (String columnName)
int	getColumnCount ()
GXITableColumn[]	getColumns ()
void	removeColumn (int columnIndex) Removes a column from the column's schema only, and not the actual column's data.
void	removeColumn (String columnName) Removes a column from the column's schema only, and not the actual column's data.

Methods

getColumns

```
public GXITableColumn\[\] getColumns()
```

Returns:

the column's collection as an array.

getColumnCount

```
public int getColumnCount()
```

Returns:

the number of columns defined for this table.

getColumn

```
public GXITableColumn getColumn(int columnIndex)
```

Parameters:

columnIndex - the index of the column to retrieve. Should range between 0 and columnCount.

Returns:

the table's column at the specified index.

See Also:

[getColumnCount\(\)](#)

getColumn

```
public GXITableColumn getColumn(String columnName)
```

Parameters:

columnName - the name of the column to retrieve.

Returns:

the table's column of the specified name.

addColumn

```
public void addColumn(GXITableColumn column)
```

Adds a new column to the schema. The new column will be added at the end of the column's list.

Parameters:

column - the new column to add.

removeColumn

```
public void removeColumn(int columnIndex)
```

Removes a column from the column's schema only, and not the actual column's data. To remove columns and their data, use `GXITable.removeColumn`

Parameters:

columnIndex - the index of the column to remove. Should range between 0 and columnCount.

See Also:

[GXITable.removeColumn\(int\)](#)
[getColumnCount\(\)](#)

removeColumn

```
public void removeColumn(String columnName)
```

Removes a column from the column's schema only, and not the actual column's data. To remove columns and their data, use `GXITable.removeColumn`

Parameters:

(continued from last page)

columnName - the name of the column to remove.

See Also:

[GXITable.removeColumn\(String\)](#)

com.sabratec.applinx.baseobject.table Interface GXITableRow

All Known Implementing Classes:

[GXITableRow](#)

public interface **GXITableRow**

Table row.

Represents a data row in the table. Each row consists of GXITableCell. The cells structure in the row is determined according to the column schema.

Method Summary

GXITableCell	getItem (int columnIndex)
GXITableCell	getItem (String columnName)
String	getItemContent (int columnIndex)
String	getItemContent (String columnName)
GXITableCell[]	getItems ()
String[]	getItemsContents ()
String	getPrimaryKey ()
void	removeItem (int columnIndex) Removes the cell at the specified column index.
void	removeItem (String columnName) Removes the cell of the specified column name.
void	setItem (int columnIndex, GXITableCell item) Sets a table cell at specified column index, and replaces the previous cell (if such existed).
void	setItem (String columnName, GXITableCell item) Sets a table cell of the specified column name, and replaces the previous cell (if such existed).
void	setItemContent (int columnIndex, String content) Sets the content of the cell in the specified column's index.
void	setItemContent (String columnName, String content) Sets the content of the cell of the specified column's name.

Methods

(continued from last page)

getItems

```
public GXITableCell\[\] getItems()
```

Returns:

the row's cells as an array.

getItemsContents

```
public String[] getItemsContents()
```

Returns:

the contents of the row's cells.

getItem

```
public GXITableCell getItem(int columnIndex)
```

Parameters:

columnIndex - should range between 0 to columnCount - 1.

Returns:

the cell at the specified column index.

getItem

```
public GXITableCell getItem(String columnName)
```

Parameters:

columnName - column's name.

Returns:

the cell of the specified column name.

setItem

```
public void setItem(int columnIndex,  
    GXITableCell item)
```

Sets a table cell at specified column index, and replaces the previous cell (if such existed).

Parameters:

columnIndex - the column's index. Should range between 0 to columnCount - 1.
item - the new cell.

setItem

```
public void setItem(String columnName,  
    GXITableCell item)
```

(continued from last page)

Sets a table cell of the specified column name, and replaces the previous cell (if such existed).

Parameters:

columnName - column's name.
item - the new cell.

getItemContent

```
public String getItemContent(int columnIndex)
```

Parameters:

columnIndex - the column's index. Should range between 0 to columnCount - 1.

Returns:

the content of the cell at the specified column's index.

getItemContent

```
public String getItemContent(String columnName)
```

Parameters:

columnName - column's name.

Returns:

the content of the cell at the specified column's name.

setItemContent

```
public void setItemContent(int columnIndex,  
String content)
```

Sets the content of the cell in the specified column's index.

Parameters:

columnIndex - the column's index. Should range between 0 to columnCount - 1.
content - the new cell's content.

setItemContent

```
public void setItemContent(String columnName,  
String content)
```

Sets the content of the cell of the specified column's name.

Parameters:

columnName - column's name.
content - the new cell's content.

getPrimaryKey

```
public String getPrimaryKey()
```

Returns:

(continued from last page)

the value of the primary key for this row.

See Also:

[GXITable.getPrimaryKey\(\)](#)

removeItem

```
public void removeItem(int columnIndex)
```

Removes the cell at the specified column index. The cell value becomes null.

Parameters:

`columnIndex` - the column's index. Should range between 0 to `columnCount` - 1.

removeItem

```
public void removeItem(String columnName)
```

Removes the cell of the specified column name. The cell value becomes null.

Parameters:

`columnName` - column's name.

com.sabratec.applinx.baseobject.table Interface GXITableRowCollection

All Known Implementing Classes:

[GXITableRowCollection](#)

public interface **GXITableRowCollection**

Table's rows' data.

Represents the table's rows' data. The collection is composed of GXITableRow objects. Can be used to directly access a row or a cell, and to filter rows.

Method Summary	
void	addFilter (GXIRowsFilter filter) Adds a new filter to the table.
void	addRow (GXITableRow row) Adds a new row as the last row in the table.
GXITableRowCollection	filterRows () Filters the table's rows according to the filters added to the table.
GXIRowsFilter []	getFilters ()
GXITableCell	getItem (int rowIndex, int columnIndex)
GXITableCell	getItem (int rowIndex, String columnName)
String	getItemContent (int rowIndex, int columnIndex)
String	getItemContent (int rowIndex, String columnName)
GXITableRow	getRow (int rowIndex)
GXITableRow	getRowByKey (String primaryKey) Finds a row according to the specified primary key.
GXITableRow	getRowByKey (String[] primaryKey) Finds a row with the specified primary key values.
int	getRowCount ()
GXITableRow []	getRows ()
void	removeFilter (GXIRowsFilter filter) Removes the specified filter.
void	removeRow (GXITableRow row) removes the specified row.

void	removeRow (int rowIndex) Removes the row at the specified index.
void	setItemContent (int rowIndex, int columnIndex, String content) Sets the contents of the cell at the specified row / column coordinates.
void	setItemContent (int rowIndex, String columnName, String content) Sets the contents of the cell at the specified row / column coordinates.
void	sort (GXAbstractSorter sorter, GXIComparator comparator) Sorts the row's data using the specified sorter and comparator.

Methods

getRows

```
public GXITableRow[] getRows()
```

Returns:

the rows' data as an array.

getRowCount

```
public int getRowCount()
```

Returns:

the number of the table's rows.

getRow

```
public GXITableRow getRow(int rowIndex)
```

Parameters:

rowIndex - the row's index. Should range between 0 to rowCount - 1.

Returns:

the row at the specified index.

See Also:

[getRowCount\(\)](#)

addRow

```
public void addRow(GXITableRow row)
```

Adds a new row as the last row in the table.

Parameters:

row - the row to add.

removeRow

```
public void removeRow(int rowIndex)
```

Removes the row at the specified index.

Parameters:

rowIndex - row index to be removed. Should range between 0 to rowCount - 1.

removeRow

```
public void removeRow(GXITableRow row)
```

removes the specified row.

Parameters:

row - the row to remove.

addFilter

```
public void addFilter(GXIRowsFilter filter)
```

Adds a new filter to the table.

Parameters:

filter - the filter to be added.

See Also:

[GXIRowsFilter](#)

[filterRows\(\)](#)

getFilters

```
public GXIRowsFilter[] getFilters()
```

Returns:

table's associated filters.

removeFilter

```
public void removeFilter(GXIRowsFilter filter)
```

Removes the specified filter.

Parameters:

filter - the filter to remove.

filterRows

```
public GXITableRowCollection filterRows()
```

Filters the table's rows according to the filters added to the table.

Returns:

the filtered rows.

(continued from last page)

See Also:

[GXIRowsFilter.filter\(GXITableRowCollection\)](#)
[addFilter\(GXIRowsFilter\)](#)

getItem

```
public GXITableCell getItem(int rowIndex,  
                             int columnIndex)
```

Parameters:

rowIndex - should range between 0 - rowCount - 1.
columnIndex - should range between 0 - columnsCount - 1.

Returns:

the cell at the specified row / column coordinates.

getItem

```
public GXITableCell getItem(int rowIndex,  
                             String columnName)
```

Parameters:

rowIndex - should range between 0 - rowCount - 1.
columnName - the name of the column.

Returns:

the cell at the specified row / column coordinates.

getItemContent

```
public String getItemContent(int rowIndex,  
                             int columnIndex)
```

Parameters:

rowIndex - should range between 0 - rowCount - 1.
columnIndex - should range between 0 - columnsCount - 1.

Returns:

the content of the cell at the specified row / column coordinates.

getItemContent

```
public String getItemContent(int rowIndex,  
                             String columnName)
```

Parameters:

rowIndex - should range between 0 - rowCount - 1.
columnName - the name of the column.

Returns:

(continued from last page)

the content of the cell at the specified row / column coordinates.

setItemContent

```
public void setItemContent(int rowIndex,  
    int columnIndex,  
    String content)
```

Sets the contents of the cell at the specified row / column coordinates.

Parameters:

rowIndex - should range between 0 - rowCount - 1.
columnIndex - should range between 0 - columnsCount - 1.
content - the cell's new content.

See Also:

[GXITableCell.setContent\(String\)](#)

setItemContent

```
public void setItemContent(int rowIndex,  
    String columnName,  
    String content)
```

Sets the contents of the cell at the specified row / column coordinates.

Parameters:

rowIndex - should range between 0 - rowCount - 1.
columnName - the name of the column.
content - the cell's new content.

See Also:

[GXITableCell.setContent\(String\)](#)

getRowByKey

```
public GXITableRow getRowByKey(String[] primaryKey)
```

Finds a row with the specified primary key values. Should be used for tables with a combination of several columns as a primary key.

Parameters:

primaryKey - the values of the primary key's columns.

Returns:

the found row. Returns null when a row with the specified values as the primary key was not found.

Example: If the primary key was defined to be the columns "first name" and "last name", the primaryKey parameter should hold the String array "John", "Doe".

See Also:

[GXITable.getPrimaryKey\(\)](#)

getRowByKey

```
public GXITableRow getRowByKey(String primaryKey)
```

Finds a row according to the specified primary key.

Parameters:

(continued from last page)

`primaryKey` - the requested primary key.

Returns:

the found row. Null when a row was not found.

See Also:

[GXITable.getPrimaryKey\(\)](#)

sort

```
public void sort(GXAbstractSorter sorter,  
                 GXIComparator comparator)
```

Sorts the row's data using the specified sorter and comparator. It is recommended to use the sort methods in GXITable and not this method directly.

Parameters:

`sorter` - the sorter.

`comparator` - the comparator used for sorting.

See Also:

[GXITable.sort\(int\[\], boolean\[\]\)](#)

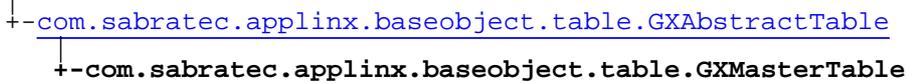
[GXITable.sort\(int, boolean\)](#)

[GXITable.sort\(String, boolean\)](#)

[GXITable.sort\(String\[\], boolean\[\]\)](#)

com.sabratec.applinx.baseobject.table Class GXMasterTable

java.lang.Object



All Implemented Interfaces:

java.io.Externalizable, [GXITable](#)

public class **GXMasterTable**
extends [GXAbstractTable](#)

This table represents a host table that its width is more than one host screen, (horizontal scrolling), and not all records appear in all of the host screens. In this table, it is necessary to specify the screen name for each table column, and the Master Screen: the screen containing all of the records. In addition, the primary key must appear in every screen.

Constructor Summary

public	GXMasterTable (String name, String[] screenNames, String masterScreenName)
public	GXMasterTable (String name)

Method Summary

void	createTable (GXIScreenCollection screens)
boolean	equals (Object obj)
String	getMasterScreenName ()
void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.table.GXAbstractTable](#)

[addColumn](#), [addColumn](#), [addColumns](#), [createTable](#), [createTable](#), [equals](#), [getColumns](#), [getCornersCoordinates](#), [getHeaderCoordinates](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [readExternal](#), [removeColumn](#), [removeColumn](#), [setCornersCoordinates](#), [setHeaderCoordinates](#), [setName](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#), [toString](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITable](#)

[addColumn](#), [addColumn](#), [addColumnns](#), [createTable](#), [createTable](#), [createTable](#), [getColumns](#), [getName](#), [getNewRow](#), [getPrimarykey](#), [getRows](#), [removeColumn](#), [removeColumn](#), [setPrimarykey](#), [setPrimarykey](#), [sort](#), [sort](#), [sort](#), [sort](#)

Methods inherited from interface `java.io.Externalizable`

`readExternal`, `writeExternal`

Constructors

GXMasterTable

```
public GXMasterTable(String name,
                     String[] screenNames,
                     String masterScreenName)
```

GXMasterTable

```
public GXMasterTable(String name)
```

Methods

createTable

```
public void createTable(GXIScreenCollection screens)
    throws GXColumnNotFoundException
```

getMasterScreenName

```
public String getMasterScreenName()
```

equals

```
public boolean equals(Object obj)
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

(continued from last page)

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

com.sabratec.applinx.baseobject.table Class GXMultipleRecordsTable

java.lang.Object



All Implemented Interfaces:

java.io.Externalizable, [GXITable](#)

```

public class GXMultipleRecordsTable
extends GXAbstractTable
  
```

This table represents a host table with "conditional" application fields, or more than one columns schema: A row with schema 1 (master row) appears, and afterwards all of its "child" rows with schema 2, until another row of schema 1 appears. In this table, the fields from the master row are copied to its child rows.

Constructor Summary

public	GXMultipleRecordsTable (String name, GXIMasterRowIdentifier idetifier)
--------	--------------------------------------------------------------------------------------------------------

Method Summary

void	addColumn (GXITableColumn column)
void	createTable (GXIScreenCollection screens)
void	readExternal (java.io.ObjectInput in)
void	setShowFirstRowsWithoutMaster (boolean show)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.table.GXAbstractTable](#)

[addColumn](#), [addColumn](#), [addColumnns](#), [createTable](#), [createTable](#), [createTable](#), [equals](#), [getColumns](#), [getCornersCoordinates](#), [getHeaderCoordinates](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [readExternal](#), [removeColumn](#), [removeColumn](#), [setCornersCoordinates](#), [setHeaderCoordinates](#), [setName](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#), [toString](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITable](#)

[addColumn](#), [addColumn](#), [addColumnns](#), [createTable](#), [createTable](#), [createTable](#), [getColumns](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [removeColumn](#), [removeColumn](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#)

Methods inherited from interface `java.io.Externalizable``readExternal, writeExternal`

Constructors

GXMultipleRecordsTable

```
public GXMultipleRecordsTable(String name,  
                               GXIMasterRowIdentifier idetifier)
```

Methods

addColumn

```
public void addColumn(GXITableColumn column)
```

setShowFirstRowsWithoutMaster

```
public void setShowFirstRowsWithoutMaster(boolean show)
```

createTable

```
public void createTable(GXIScreenCollection screens)  
    throws GXColumnNotFoundException
```

writeExternal

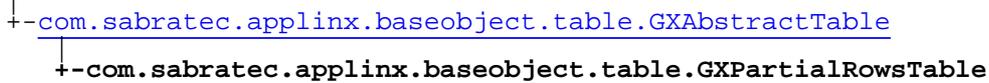
```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

com.sabratec.applinx.baseobject.table Class GXPartialRowsTable

java.lang.Object



All Implemented Interfaces:

java.io.Externalizable, [GXITable](#)

public class **GXPartialRowsTable**
extends [GXAbstractTable](#)

This table represents a host table that its width is more than one host screen, (horizontal scrolling), and not all records appear in all of the host screens. In this table, it is necessary to specify the screen name for each table column, and the Master Screen: the screen containing all of the records. In addition, the primary key must appear in every screen.

Constructor Summary

public	GXPartialRowsTable (String name, String[] screenNames, String masterScreenName)
--------	-------------------------------------------------------------------------------------------------

Method Summary

void	addColumn (GXITableColumn column)
void	createTable (GXIScreenCollection screens)
String	getMasterScreenName ()
void	readExternal (java.io.ObjectInput in)
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class [com.sabratec.applinx.baseobject.table.GXAbstractTable](#)

[addColumn](#), [addColumn](#), [addColumns](#), [createTable](#), [createTable](#), [equals](#), [getColumns](#), [getCornersCoordinates](#), [getHeaderCoordinates](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [readExternal](#), [removeColumn](#), [removeColumn](#), [setCornersCoordinates](#), [setHeaderCoordinates](#), [setName](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#), [toString](#), [writeExternal](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITable](#)

[addColumn](#), [addColumn](#), [addColumns](#), [createTable](#), [createTable](#), [createTable](#), [getColumns](#), [getName](#), [getNewRow](#), [getPrimaryKey](#), [getRows](#), [removeColumn](#), [removeColumn](#), [setPrimaryKey](#), [setPrimaryKey](#), [sort](#), [sort](#), [sort](#), [sort](#)

Methods inherited from interface `java.io.Externalizable``readExternal, writeExternal`

Constructors

GXPartialRowsTable

```
public GXPartialRowsTable(String name,  
                          String[] screenNames,  
                          String masterScreenName)
```

Methods

createTable

```
public void createTable(GXIScreenCollection screens)  
    throws GXColumnNotFoundException
```

addColumn

```
public void addColumn(GXITableColumn column)
```

getMasterScreenName

```
public String getMasterScreenName()
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

com.sabratec.applinx.baseobject.table Class GXScreenNameUndefinedException

java.lang.Object

└-GXGeneralRuntimeException

└-com.sabratec.applinx.baseobject.table.GXScreenNameUndefinedException

public class **GXScreenNameUndefinedException**
extends GXGeneralRuntimeException

Constructor Summary

public	GXScreenNameUndefinedException (String columnName)
--------	--------------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXScreenNameUndefinedException

public **GXScreenNameUndefinedException**(String columnName)

com.sabratec.applinx.baseobject.table Class GXTableCell

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXTableCell

All Implemented Interfaces:

java.io.Serializable, [GXITableCell](#)

Direct Known Subclasses:

[GXVariableTableCell](#), [GXFieldTableCell](#)

```
public class GXTableCell
extends Object
implements GXITableCell, java.io.Serializable
```

Constructor Summary

public	GXTableCell (GXICellable cellable)
--------	---------------------------------------------------------------------

Method Summary

boolean	equals (Object obj)
String	getContent ()
void	setContent (String content)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableCell](#)

[getContent](#), [setContent](#)

Constructors

GXTableCell

```
public GXTableCell(GXICellable cellable)
```

Methods

(continued from last page)

getContent

```
public String getContent()
```

setContent

```
public void setContent(String content)
```

equals

```
public boolean equals(Object obj)
```

com.sabratec.applinx.baseobject.table Class GXTableColumn

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXTableColumn

All Implemented Interfaces:

java.io.Serializable, [GXITableColumn](#)

public class **GXTableColumn**
 extends Object
 implements [GXITableColumn](#), java.io.Serializable

Fields inherited from interface [com.sabratec.applinx.baseobject.table.GXITableColumn](#)

[GX_TABLE_COLUMN_DATA_TYPE_ALPHANUMERIC](#), [GX_TABLE_COLUMN_DATA_TYPE_NUMERIC](#),
[GX_TABLE_COLUMN_TYPE_APPFIELD](#), [GX_TABLE_COLUMN_TYPE_OTHER](#), [GX_TABLE_COLUMN_TYPE_VARIABLE](#)

Constructor Summary

public	GXTableColumn (String name, String appFieldName, String[] screenNames, String caption, int dataType)
public	GXTableColumn (String name)
public	GXTableColumn (String name, String[] screenNames)
public	GXTableColumn (String name, String caption, int dataType)
public	GXTableColumn (String name, String variableName, String caption, int dataType)

Method Summary

boolean	equals (Object obj)
String	getAppFieldFullName ()
String	getAppFieldName ()
String	getCaption ()
int	getCopyCount ()
int	getDataType ()
String	getName ()

String[]	getScreenNames()
int	getType()
String	getVariableName()
boolean	isMasterRow()
boolean	isToCopy()
void	setAppFieldFullName(String appFieldName)
void	setAppFieldName(String appFieldName)
void	setCaption(String caption)
void	setCopyCount(int copyCount)
void	setDataTypes(int dataType)
void	setIsMasterRow(boolean isMasterRow)
void	setIsToCopy(boolean isToCopy)
void	setName(String name)
void	setScreenNames(String[] names)
void	setVariableName(String name)
String	toString()

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableColumn](#)

[getAppFieldFullName](#), [getAppFieldName](#), [getCaption](#), [getCopyCount](#), [getDataType](#), [getName](#), [getScreenNames](#), [getType](#), [getVariableName](#), [isMasterRow](#), [isToCopy](#), [setAppFieldName](#), [setCaption](#), [setCopyCount](#), [setDataTypes](#), [setIsMasterRow](#), [setIsToCopy](#), [setName](#), [setScreenNames](#), [setVariableName](#)

Constructors

(continued from last page)

GXTableColumn

```
public GXTableColumn(String name,  
                     String appFieldName,  
                     String[] screenNames,  
                     String caption,  
                     int dataType)
```

GXTableColumn

```
public GXTableColumn(String name)
```

GXTableColumn

```
public GXTableColumn(String name,  
                     String[] screenNames)
```

GXTableColumn

```
public GXTableColumn(String name,  
                     String caption,  
                     int dataType)
```

GXTableColumn

```
public GXTableColumn(String name,  
                     String variableName,  
                     String caption,  
                     int dataType)
```

Methods

getDataType

```
public int getDataType()
```

setDataType

```
public void setDataType(int dataType)
```

getName

```
public String getName()
```

setName

```
public void setName(String name)
```

getAppFieldName

```
public String getAppFieldName()
```

setAppFieldName

```
public void setAppFieldName(String appFieldName)
```

getAppFieldFullName

```
public String getAppFieldFullName()
```

setAppFieldFullName

```
public void setAppFieldFullName(String appFieldName)
```

getVariableName

```
public String getVariableName()
```

setVariableName

```
public void setVariableName(String name)
```

getCaption

```
public String getCaption()
```

setCaption

```
public void setCaption(String caption)
```

getScreenNames

```
public String[] getScreenNames()
```

(continued from last page)

setScreenNames

```
public void setScreenNames(String[] names)
```

setIsMasterRow

```
public void setIsMasterRow(boolean isMasterRow)
```

isMasterRow

```
public boolean isMasterRow()
```

setIsToCopy

```
public void setIsToCopy(boolean isToCopy)
```

isToCopy

```
public boolean isToCopy()
```

setCopyCount

```
public void setCopyCount(int copyCount)
```

getCopyCount

```
public int getCopyCount()
```

getType

```
public int getType()
```

equals

```
public boolean equals(Object obj)
```

(continued from last page)

toString

```
public String toString()
```

com.sabratec.applinx.baseobject.table Class GXTableColumnCollection

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXTableColumnCollection

All Implemented Interfaces:

java.io.Externalizable, [GXITableColumnCollection](#)

public class **GXTableColumnCollection**
 extends Object
 implements [GXITableColumnCollection](#), java.io.Externalizable

Constructor Summary

public	GXTableColumnCollection ()
--------	--------------------------------------------

Method Summary

void	addColumn (GXITableColumn column)
boolean	equals (Object obj)
GXITableColumn	getColumn (int columnIndex)
GXITableColumn	getColumn (String columnName)
int	getColumnCount ()
GXITableColumn[]	getColumns ()
void	readExternal (java.io.ObjectInput in)
void	removeColumn (int columnIndex)
void	removeColumn (String columnName)
String	toString ()
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableColumnCollection](#)

[addColumn](#), [getColumn](#), [getColumn](#), [getColumnCount](#), [getColumns](#), [removeColumn](#), [removeColumn](#)

Methods inherited from interface `java.io.Externalizable`

`readExternal`, `writeExternal`

Constructors

GXTableColumnCollection

```
public GXTableColumnCollection()
```

Methods

getColumns

```
public GXITableColumn\[\] getColumns()
```

getColumnCount

```
public int getColumnCount()
```

getColumn

```
public GXITableColumn getColumn(int columnIndex)
```

getColumn

```
public GXITableColumn getColumn(String columnName)
```

addColumn

```
public void addColumn(GXITableColumn column)
```

removeColumn

```
public void removeColumn(int columnIndex)
```

(continued from last page)

removeColumn

```
public void removeColumn(String columnName)
```

equals

```
public boolean equals(Object obj)
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

toString

```
public String toString()
```

com.sabratec.applinx.baseobject.table Class GXTableRow

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXTableRow

All Implemented Interfaces:

java.io.Externalizable, [GXITableRow](#)

public class **GXTableRow**
 extends Object
 implements [GXITableRow](#), java.io.Externalizable

Constructor Summary

public	GXTableRow()
--------	------------------------------

Method Summary

boolean	equals (Object obj)
GXITableCell	getItem (int columnIndex)
GXITableCell	getItem (String columnName)
String	getItemContent (int columnIndex)
String	getItemContent (String columnName)
GXITableCell[]	getItems ()
String[]	getItemsContents ()
String	getPrimaryKey ()
void	readExternal (java.io.ObjectInput in)
void	removeItem (int columnIndex)
void	removeItem (String columnName)
void	setItem (int columnIndex, GXITableCell item)
void	setItem (String columnName, GXITableCell item)
void	setItemContent (int columnIndex, String content)

void	setItemContent (String columnName, String content)
void	setPrimaryKey (String primaryKey)
String	toString ()
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableRow](#)

[getItem](#), [getItem](#), [getItemContent](#), [getItemContent](#), [getItems](#), [getItemsContents](#), [getPrimaryKey](#), [removeItem](#), [removeItem](#), [setItem](#), [setItem](#), [setItemContent](#), [setItemContent](#)

Methods inherited from interface java.io.Externalizable

`readExternal`, `writeExternal`

Constructors

GXTableRow

```
public GXTableRow()
```

Methods

getItems

```
public GXITableCell[] getItems()
```

getItemsContents

```
public String[] getItemsContents()
```

getItem

```
public GXITableCell getItem(int columnIndex)
```

getItem

```
public GXITableCell getItem(String columnName)
```

(continued from last page)

setItem

```
public void setItem(int columnIndex,  
    GXITableCell item)
```

setItem

```
public void setItem(String columnName,  
    GXITableCell item)
```

getItemContent

```
public String getItemContent(int columnIndex)
```

getItemContent

```
public String getItemContent(String columnName)
```

setItemContent

```
public void setItemContent(int columnIndex,  
    String content)
```

setItemContent

```
public void setItemContent(String columnName,  
    String content)
```

getPrimaryKey

```
public String getPrimaryKey()
```

setPrimaryKey

```
public void setPrimaryKey(String primaryKey)
```

removeItem

```
public void removeItem(int columnIndex)
```

(continued from last page)

removeItem

```
public void removeItem(String columnName)
```

equals

```
public boolean equals(Object obj)
```

readExternal

```
public void readExternal(java.io.ObjectInput in)  
    throws java.io.IOException,  
           ClassNotFoundException
```

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)  
    throws java.io.IOException
```

toString

```
public String toString()
```

com.sabratec.applinx.baseobject.table Class GXTableRowCollection

java.lang.Object

└-com.sabratec.applinx.baseobject.table.GXTableRowCollection

All Implemented Interfaces:

java.io.Externalizable, [GXITableRowCollection](#)

public class **GXTableRowCollection**
 extends Object
 implements [GXITableRowCollection](#), java.io.Externalizable

Constructor Summary

public	GXTableRowCollection()
--------	----------------------------------------

Method Summary

void	addFilter (GXIRowsFilter filter)
void	addRow (GXITableRow row)
boolean	equals (Object obj)
GXITableRowCollection	filterRows ()
GXIRowsFilter[]	getFilters ()
GXITableCell	getItem (int rowIndex, int columnIndex)
GXITableCell	getItem (int rowIndex, String columnName)
String	getItemContent (int rowIndex, int columnIndex)
String	getItemContent (int rowIndex, String columnName)
GXITableRow	getRow (int rowIndex)
GXITableRow	getRowByKey (String primaryKey)
GXITableRow	getRowByKey (String[] primaryKey)
int	getRowCount ()
GXITableRow[]	getRows ()

void	readExternal (java.io.ObjectInput in)
void	removeFilter (GXIRowsFilter filter)
void	removeRow (GXITableRow row)
void	removeRow (int rowIndex)
void	setItemContent (int rowIndex, int columnIndex, String content)
void	setItemContent (int rowIndex, String columnName, String content)
void	sort (GXAbstractSorter sorter, GXIComparator comparator)
String	toString ()
void	writeExternal (java.io.ObjectOutput out)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableRowCollection](#)

[addFilter](#), [addRow](#), [filterRows](#), [getFilters](#), [getItem](#), [getItem](#), [getItemContent](#), [getItemContent](#), [getRow](#), [getRowByKey](#), [getRowByKey](#), [getRowCount](#), [getRows](#), [removeFilter](#), [removeRow](#), [removeRow](#), [setItemContent](#), [setItemContent](#), [sort](#)

Methods inherited from interface java.io.Externalizable

`readExternal`, `writeExternal`

Constructors

GXTableRowCollection

```
public GXTableRowCollection()
```

Methods

getRows

```
public GXITableRow\[\] getRows()
```

getRowCount

```
public int getRowCount()
```

(continued from last page)

getRow

```
public GXTableRow getRow(int rowIndex)
```

addRow

```
public void addRow(GXTableRow row)
```

removeRow

```
public void removeRow(int rowIndex)
```

removeRow

```
public void removeRow(GXTableRow row)
```

addFilter

```
public void addFilter(GXIRowsFilter filter)
```

getFilters

```
public GXIRowsFilter[] getFilters()
```

removeFilter

```
public void removeFilter(GXIRowsFilter filter)
```

filterRows

```
public GXTableRowCollection filterRows()
```

getItem

```
public GXTableCell getItem(int rowIndex,  
int columnIndex)
```

(continued from last page)

getItem

```
public GXITableCell getItem(int rowIndex,  
                             String columnName)
```

getItemContent

```
public String getItemContent(int rowIndex,  
                             int columnIndex)
```

getItemContent

```
public String getItemContent(int rowIndex,  
                             String columnName)
```

setItemContent

```
public void setItemContent(int rowIndex,  
                           int columnIndex,  
                           String content)
```

setItemContent

```
public void setItemContent(int rowIndex,  
                           String columnName,  
                           String content)
```

getRowByKey

```
public GXITableRow getRowByKey(String[] primaryKey)
```

getRowByKey

```
public GXITableRow getRowByKey(String primaryKey)
```

sort

```
public void sort(GXAbstractSorter sorter,  
                GXIComparator comparator)
```

equals

```
public boolean equals(Object obj)
```

(continued from last page)

writeExternal

```
public void writeExternal(java.io.ObjectOutput out)
    throws java.io.IOException
```

readExternal

```
public void readExternal(java.io.ObjectInput in)
    throws java.io.IOException,
           ClassNotFoundException
```

toString

```
public String toString()
```

com.sabratec.applinx.baseobject.table Class GXVariableTableCell

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [GXITableCell](#)

```
public class GXVariableTableCell
extends GXTableCell
```

Variable-based cell.

A table cell based on a path variable array.

Constructor Summary

public	GXVariableTableCell (String content)
public	GXVariableTableCell (GXICellable cellable)

Method Summary

boolean	isProtected ()
---------	--------------------------------

Methods inherited from class [com.sabratec.applinx.baseobject.table.GXTableCell](#)

[equals](#), [getContent](#), [setContent](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXITableCell](#)

[getContent](#), [setContent](#)

Constructors

GXVariableTableCell

```
public GXVariableTableCell(String content)
```

(continued from last page)

GXVariableTableCell

```
public GXVariableTableCell(GXICellable cellable)
```

Methods

isProtected

```
public boolean isProtected()
```

Package

com.sabratec.applinx.baseobject.table.filter

Contains classes and interfaces for filtering table's data.

com.sabratec.applinx.baseobject.table.filter Class GXAddFieldToPreviousRowFilter

java.lang.Object

└-com.sabratec.applinx.baseobject.table.filter.GXAddFieldToPreviousRowFilter

All Implemented Interfaces:

[GXIRowsFilter](#)

public class **GXAddFieldToPreviousRowFilter**
extends Object
implements [GXIRowsFilter](#)

This filter is used for horizontal scrolling of the same screen id, but with different fields (all mapped in the same screen). For each row, the filter checks if fields (identified by GXIColumnIdentifier) should be copied to a previous row. If so, it copies them and doesn't add the current row.

Constructor Summary

public	GXAddFieldToPreviousRowFilter (GXIColumnIdentifier[] fieldsToCopy)
--------	-----------------------------------------------------------------------------------------------------

Method Summary

GXITableRowCollection	filter (GXITableRowCollection rows)
boolean	isPrimaryKeyValid (String primaryKey, GXITableRowCollection rowsSoFar)
boolean	isRowValid (GXITableRow row, GXITableRowCollection rowsSoFar)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXIRowsFilter](#)

[filter](#), [isPrimaryKeyValid](#), [isRowValid](#)

Constructors

GXAddFieldToPreviousRowFilter

public **GXAddFieldToPreviousRowFilter**([GXIColumnIdentifier\[\]](#) fieldsToCopy)

Methods

(continued from last page)

filter

```
public GXITableRowCollection filter(GXITableRowCollection rows)
```

isRowValid

```
public boolean isRowValid(GXITableRow row,  
    GXITableRowCollection rowsSoFar)
```

isPrimaryKeyValid

```
public boolean isPrimaryKeyValid(String primaryKey,  
    GXITableRowCollection rowsSoFar)
```

com.sabratec.applinx.baseobject.table.filter Class GXNonDuplicateRowsFilter

java.lang.Object

└-com.sabratec.applinx.baseobject.table.filter.GXNonDuplicateRowsFilter

All Implemented Interfaces:

[GXIRowsFilter](#)

public class **GXNonDuplicateRowsFilter**
extends Object
implements [GXIRowsFilter](#)

Filters duplicate rows according to the primary key.

Constructor Summary

public	GXNonDuplicateRowsFilter ()
--------	---------------------------------------------

Method Summary

GXITableRowCollection	filter (GXITableRowCollection rows)
boolean	isPrimaryKeyValid (String primaryKey, GXITableRowCollection rowsSoFar)
boolean	isRowValid (GXITableRow row, GXITableRowCollection rowsSoFar)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXIRowsFilter](#)

[filter](#), [isPrimaryKeyValid](#), [isRowValid](#)

Constructors

GXNonDuplicateRowsFilter

public **GXNonDuplicateRowsFilter**()

Methods

filter

public [GXITableRowCollection](#) **filter**([GXITableRowCollection](#) rows)

(continued from last page)

isRowValid

```
public boolean isRowValid(GXITableRow row,  
    GXITableRowCollection rowsSoFar)
```

isPrimaryKeyValid

```
public boolean isPrimaryKeyValid(String primaryKey,  
    GXITableRowCollection rowsSoFar)
```

com.sabratec.applinx.baseobject.table.filter Class GXNonEmptyRowsFilter

java.lang.Object

└-com.sabratec.applinx.baseobject.table.filter.GXNonEmptyRowsFilter

All Implemented Interfaces:

[GXIRowsFilter](#)

public class **GXNonEmptyRowsFilter**
extends Object
implements [GXIRowsFilter](#)

Example for filtering rows - filters rows with an empty column. If no column specified, filters rows with an empty primary key.

Constructor Summary

public	GXNonEmptyRowsFilter (String[] columnNames)
public	GXNonEmptyRowsFilter (GXITableColumn[] columns)
public	GXNonEmptyRowsFilter ()

Method Summary

GXITableRowCollection	filter (GXITableRowCollection rows)
boolean	isPrimaryKeyValid (String primaryKey, GXITableRowCollection rowsSoFar)
boolean	isRowValid (GXITableRow row, GXITableRowCollection rowsSoFar)
String	toString ()

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.baseobject.table.GXIRowsFilter](#)

[filter](#), [isPrimaryKeyValid](#), [isRowValid](#)

Constructors

GXNonEmptyRowsFilter

public **GXNonEmptyRowsFilter**(String[] columnNames)

GXNonEmptyRowsFilter

```
public GXNonEmptyRowsFilter(GXITableColumn\[\] columns)
```

GXNonEmptyRowsFilter

```
public GXNonEmptyRowsFilter()
```

Methods

filter

```
public GXITableRowCollection filter(GXITableRowCollection rows)
```

isRowValid

```
public boolean isRowValid(GXITableRow row,  
    GXITableRowCollection rowsSoFar)
```

isPrimaryKeyValid

```
public boolean isPrimaryKeyValid(String primaryKey,  
    GXITableRowCollection rowsSoFar)
```

toString

```
public String toString()
```

Package

com.sabratec.applinx.common

com.sabratec.applinx.common Class GXResponseCodes

java.lang.Object

└-com.sabratec.applinx.common.GXResponseCodes

public class **GXResponseCodes**
extends Object

Field Summary

public static final	APPLICATION_RELOAD_FAILED Value: 7008
public static final	DESTINATION_FOLDER_IS_SAME Value: 7011
public static final	DESTINATION_FOLDER_IS_SUBFOLDER Value: 7012
public static final	ERROR_APPLICATION_NOT_DEFINED Value: 5007
public static final	ERROR_CANNOT_CONNECT_HOST Value: 5002
public static final	ERROR_CANNOT_CONNECT_SERVER Value: 5004
public static final	ERROR_CANT_DELETE_ASSIGNED_EXCEPTION_PATH Value: 5103
public static final	ERROR_CANT_DELETE_REFERENCED_ENTITY Value: 5101
public static final	ERROR_CENTRASITE_REGISTRATION Value: 10005
public static final	ERROR_CHANGING_WEB_SERVICE_TARGET_SERVER Value: 8500
public static final	ERROR_CONCURRENT_NUMBER_OF_USERS_EXCEEDS_LICENSE_AGREEMENT Value: 5060
public static final	ERROR_CONFIGURATION_SAVE_FAILED Value: 6001

public static final	ERROR_CONNECTING_DEVICE_NAME Value: 5031
public static final	ERROR_CONNECTION_INFO Value: 5011
public static final	ERROR_CREATING_ENTITIES_FROM_WSDL Value: 8001
public static final	ERROR_CREATING_TABLE Value: 5080
public static final	ERROR_CURSOR_POSITION_NOT_SET Value: 5030
public static final	ERROR_DB_GENERAL Value: 5102
public static final	ERROR_DEPLOYING_WEB_SERVICE Value: 10001
public static final	ERROR_DEPLOYMENT_GENERAL Value: 10000
public static final	ERROR_DEPLOYMENT_HANDLER_NOT_AVAILABLE Value: 10006
public static final	ERROR_DISPLAY_SESSION_REQUEST_FOR_PRINTER_SESSION Value: 5070
public static final	ERROR_EXECUTING_MAP_BAD_DESTINATION Value: 5035
public static final	ERROR_EXECUTING_MAP_NO_MAP_IN_APPL Value: 5034
public static final	ERROR_EXECUTING_MAP_NO_PATH_BETWEEN_SCREEN Value: 5033
public static final	ERROR_EXECUTING_MAP_SCREEN_NOT_IN_MAP Value: 5032
public static final	ERROR_EXECUTING_PATH_FROMSCREENID Value: 5015
public static final	ERROR_EXECUTING_PATH_GENERAL Value: 5017

public static final	ERROR_EXECUTING_PATH_RESOLVE_ACTION Value: 5029
public static final	ERROR_EXECUTING_PATH_TOSCREENID Value: 5016
public static final	ERROR_EXECUTING_PATH_TYPE_EXCEPTION Value: 5028
public static final	ERROR_EXECUTING_PROCEDURE_GENERAL Value: 9000
public static final	ERROR_EXPORTING_WEB_SERVICE Value: 10004
public static final	ERROR_FIELD_CONTENT_NOT_SET Value: 5036
public static final	ERROR_GENERAL Value: 5000
public static final	ERROR_HOST_EXISTS_IN_APPLICATION Value: 6000
public static final	ERROR_HOST_SESSION_DISCONNECTED Value: 5018
public static final	ERROR_IMPORT_FILE_REPOSITORY Value: 5038
public static final	ERROR_INCOMPATIBLE_VERSIONS Value: 6002
public static final	ERROR_INCOMPATIBLE_WSS_VERSION Value: 10007
public static final	ERROR_INCORRECT_PASSWORD Value: 5012
public static final	ERROR_INDEX_OUT_OF_BOUND Value: 5006
public static final	ERROR_INVALID_LICENSE_COMBINATION Value: 6113
public static final	ERROR_INVALID_LICENSE_KEY Value: 6004

public static final	ERROR_LICENSE_FILE_NOT_FOUND Value: 6005
public static final	ERROR_LICENSE_TERMS_VAIOLATION Value: 5061
public static final	ERROR_LOGIN_FAILED Value: 5023
public static final	ERROR_MAP_STEP_ALREADY_EXISTS Value: 5040
public static final	ERROR_NATURAL_DATA_TRANSFER_FAILURE Value: 5100
public static final	ERROR_NATURAL_DATA_TRANSFER_INAVLID_STATE Value: 5101
public static final	ERROR_OVERWRITING Value: 5014
public static final	ERROR_PATH_NOT_FOUND Value: 5025
public static final	ERROR_PERMISSION_DENIED Value: 5024
public static final	ERROR_PREFS_SAVE_FAILED Value: 5026
public static final	ERROR_PRINTER_CONNECT_ERROR Value: 5027
public static final	ERROR_PRINTER_DISABLED Value: 5021
public static final	ERROR_REPLACING_LICENSE Value: 6006
public static final	ERROR_REPLAY_DEVICE_INCOMPATIBILITY Value: 5037
public static final	ERROR_REPLAY_FILE Value: 5010
public static final	ERROR_REPLAY_FILE_NOT_FOUND Value: 5009

public static final	ERROR_RETRIEVING_WSDL_SERVICES Value: 8000
public static final	ERROR_RETRIEVING_WSDL_SERVICES_PERMISSION_DENIED Value: 8002
public static final	ERROR_SCREEN_NOT_SYNC Value: 5027
public static final	ERROR_SECURITY_SAVE_FAILED Value: 6003
public static final	ERROR_SERVICE_CONNECTION_NOT_READY Value: 5055
public static final	ERROR_SERVICE_CONNECTION_TIMEOUT_EXPIRED Value: 5053
public static final	ERROR_SERVICE_GENERAL Value: 5050
public static final	ERROR_SERVICE_NO_AVAILABLE_CONNECTION Value: 5052
public static final	ERROR_SERVICE_NOT_ACTIVE Value: 5051
public static final	ERROR_SERVICE_NOT_FOUND Value: 5056
public static final	ERROR_SERVICE_PATH_NOT_FOUND Value: 5054
public static final	ERROR_SESSION_VARIABLE_DOESNT_EXIST Value: 5090
public static final	ERROR_SESSION_VARIABLE_TYPE_MISMATCH Value: 5091
public static final	ERROR_SOCKET Error communicating with ApplinX server, may occur as a result of incompatible client and server version, or network mailfunctions. Value: 5005
public static final	ERROR_SYNCHRONIZING_REPOSITORY Value: 7019
public static final	ERROR_TIMEOUT_EXPIRED Value: 5022

public static final	ERROR_UNDEPLOYING_WEB_SERVICE Value: 10002
public static final	ERROR_UNKNOWN_ACTION Value: 5200
public static final	ERROR_UNKNOWN_SERVER_ADDRESS Value: 5003
public static final	ERROR_UPDATING_WEB_SERVICE Value: 10003
public static final	ERROR_USER_ALREADY_ATTACHED Value: 5008
public static final	ERROR_USER_NOT_CONNECTED Value: 5001
public static final	ERROR_WAIT_CONDITION_NOT_MET Value: 5013
public static final	ERROR_WAIT_CONDITION_NOT_VALID Value: 5039
public static final	EXPORT_APPLICATION_ENTITIES_FAILED Value: 7015
public static final	FAULTY_SCREEN_IMAGE Value: 7018
public static final	FIELD_EXISTS_IN_ACTIONS Value: 7004
public static final	FILE_DOES_NOT_EXIST Value: 5019
public static final	IMPORT_APPLICATION_CONFIG_MISSING Value: 7020
public static final	IMPORT_APPLICATION_COULD_NOT_RESTORE_OVERRIDEN_APP_FROM_BACKUP Value: 7022
public static final	IMPORT_APPLICATION_ENTITIES_FAILED Value: 7014
public static final	IMPORT_APPLICATION_FAILED Value: 7013

public static final	<u>IMPORT_APPLICATION_HOST_CATEGORY_UNSUPPORTED</u> Value: 7021
public static final	<u>INDEXATION_PROCESS_FAILED</u> Value: 7009
public static final	<u>MAPPING_EXCEEDS_LINE</u> Value: 7007
public static final	<u>MAPPING_OVERLAP</u> Value: 7005
public static final	<u>MAPPING_UTILITY_FAILED</u> Value: 7010
public static final	<u>MESSAGE_PATH_BY_STEP_COMPLETE</u> Value: 4001
public static final	<u>MESSAGE_PATH_COMPLETE</u> Value: 4002
public static final	<u>NO_ERROR</u> Value: 0
public static final	<u>NO_WARNING</u> Value: 0
public static final	<u>OBJECT_ALREADY_EXISTS</u> Value: 7001
public static final	<u>OBJECT_NOT_DELETED</u> Value: 7003
public static final	<u>OBJECT_NOT_FOUND</u> Value: 7002
public static final	<u>OBJECT_NOT_UPDATED</u> Value: 7003
public static final	<u>REPOSITORY_NOT_AVAILABLE</u> Value: 7000
public static final	<u>REPOSITORY_NOT_CREATED</u> Value: 7006
public static final	<u>REPOSITORY_NOT_SYNCHRONIZED</u> Value: 7016

public static final	RESTRICTED_ACCESS_TO_URL Value: 12001
public static final	SESSION_CANCELED Value: 11000
public static final	SESSION_CANCELED_BY_ADMIN Value: 11001
public static final	SESSION_CANCELED_BY_INACTIVE_TIMEOUT Value: 11002
public static final	UPDATE_NONE_EXISTING_ENTITY Value: 7017
public static final	WARNING_30_DAYS_EVAL_VERSION Value: 6100
public static final	WARNING_60_DAYS_EVAL_VERSION Value: 6101
public static final	WARNING_90_DAYS_EVAL_VERSION Value: 6102
public static final	WARNING_DURING_CONNECT Value: 3011
public static final	WARNING_EVALUATION_EXPIRED Value: 6103
public static final	WARNING_FIELD_CONTENT_ALREADY_EXIST Value: 3004
public static final	WARNING_FIELD_IS_PROTECTED Value: 3007
public static final	WARNING_PATH_SCREEN_NOT_ADDED_TO_RESPONSE Value: 3003
public static final	WARNING_SCREEN_IMAGE_INSERT_FAILED Value: 3006
public static final	WARNING_WAIT_CONDITION_FAILED Value: 3001

Constructor Summary

public	GXResponseCodes()
--------	-----------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields**NO_WARNING**

```
public static final int NO_WARNING
```

Constant value: 0

WARNING_WAIT_CONDITION_FAILED

```
public static final int WARNING_WAIT_CONDITION_FAILED
```

Constant value: 3001

WARNING_PATH_SCREEN_NOT_ADDED_TO_RESPONSE

```
public static final int WARNING_PATH_SCREEN_NOT_ADDED_TO_RESPONSE
```

Constant value: 3003

WARNING_FIELD_CONTENT_ALREADY_EXIST

```
public static final int WARNING_FIELD_CONTENT_ALREADY_EXIST
```

Constant value: 3004

WARNING_SCREEN_IMAGE_INSERT_FAILED

```
public static final int WARNING_SCREEN_IMAGE_INSERT_FAILED
```

Constant value: 3006

WARNING_FIELD_IS_PROTECTED

```
public static final int WARNING_FIELD_IS_PROTECTED
```

Constant value: 3007

WARNING_DURING_CONNECT

```
public static final int WARNING_DURING_CONNECT
```

Constant value: 3011

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MESSAGE_PATH_BY_STEP_COMPLETE

```
public static final int MESSAGE_PATH_BY_STEP_COMPLETE
```

Constant value: 4001

MESSAGE_PATH_COMPLETE

```
public static final int MESSAGE_PATH_COMPLETE
```

Constant value: 4002

NO_ERROR

```
public static final int NO_ERROR
```

Constant value: 0

ERROR_GENERAL

```
public static final int ERROR_GENERAL
```

Constant value: 5000

ERROR_USER_NOT_CONNECTED

```
public static final int ERROR_USER_NOT_CONNECTED
```

Constant value: 5001

ERROR_CANNOT_CONNECT_HOST

```
public static final int ERROR_CANNOT_CONNECT_HOST
```

Constant value: 5002

ERROR_UNKNOWN_SERVER_ADDRESS

```
public static final int ERROR_UNKNOWN_SERVER_ADDRESS
```

Constant value: 5003

ERROR_CANNOT_CONNECT_SERVER

```
public static final int ERROR_CANNOT_CONNECT_SERVER
```

Constant value: 5004

ERROR_SOCKET

```
public static final int ERROR_SOCKET
```

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Error communicating with ApplinX server, may occur as a result of incompatible client and server version, or network mailfunctions.

Constant value: 5005

ERROR_INDEX_OUT_OF_BOUND

```
public static final int ERROR_INDEX_OUT_OF_BOUND
```

Constant value: 5006

ERROR_APPLICATION_NOT_DEFINED

```
public static final int ERROR_APPLICATION_NOT_DEFINED
```

Constant value: 5007

ERROR_USER_ALREADY_ATTACHED

```
public static final int ERROR_USER_ALREADY_ATTACHED
```

Constant value: 5008

ERROR_REPLAY_FILE_NOT_FOUND

```
public static final int ERROR_REPLAY_FILE_NOT_FOUND
```

Constant value: 5009

ERROR_REPLAY_FILE

```
public static final int ERROR_REPLAY_FILE
```

Constant value: 5010

ERROR_CONNECTION_INFO

```
public static final int ERROR_CONNECTION_INFO
```

Constant value: 5011

ERROR_INCORRECT_PASSWORD

```
public static final int ERROR_INCORRECT_PASSWORD
```

Constant value: 5012

ERROR_WAIT_CONDITION_NOT_MET

```
public static final int ERROR_WAIT_CONDITION_NOT_MET
```

Constant value: 5013

ERROR_OVERWRITING

public static final int **ERROR_OVERWRITING**

Constant value: 5014

ERROR_EXECUTING_PATH_FROMSCREENID

public static final int **ERROR_EXECUTING_PATH_FROMSCREENID**

Constant value: 5015

ERROR_EXECUTING_PATH_TOSCREENID

public static final int **ERROR_EXECUTING_PATH_TOSCREENID**

Constant value: 5016

ERROR_EXECUTING_PATH_GENERAL

public static final int **ERROR_EXECUTING_PATH_GENERAL**

Constant value: 5017

ERROR_HOST_SESSION_DISCONNECTED

public static final int **ERROR_HOST_SESSION_DISCONNECTED**

Constant value: 5018

FILE_DOES_NOT_EXIST

public static final int **FILE_DOES_NOT_EXIST**

Constant value: 5019

ERROR_PRINTER_DISABLED

public static final int **ERROR_PRINTER_DISABLED**

Constant value: 5021

ERROR_TIMEOUT_EXPIRED

public static final int **ERROR_TIMEOUT_EXPIRED**

Constant value: 5022

(continued from last page)

ERROR_LOGIN_FAILED

```
public static final int ERROR_LOGIN_FAILED
```

Constant value: 5023

ERROR_PERMISSION_DENIED

```
public static final int ERROR_PERMISSION_DENIED
```

Constant value: 5024

ERROR_PATH_NOT_FOUND

```
public static final int ERROR_PATH_NOT_FOUND
```

Constant value: 5025

ERROR_PREFS_SAVE_FAILED

```
public static final int ERROR_PREFS_SAVE_FAILED
```

Constant value: 5026

ERROR_SCREEN_NOT_SYNC

```
public static final int ERROR_SCREEN_NOT_SYNC
```

Constant value: 5027

ERROR_WAIT_CONDITION_NOT_VALID

```
public static final int ERROR_WAIT_CONDITION_NOT_VALID
```

Constant value: 5039

ERROR_UNKNOWN_ACTION

```
public static final int ERROR_UNKNOWN_ACTION
```

Constant value: 5200

ERROR_CANT_DELETE_REFERENCED_ENTITY

```
public static final int ERROR_CANT_DELETE_REFERENCED_ENTITY
```

Constant value: 5101

ERROR_DB_GENERAL

```
public static final int ERROR_DB_GENERAL
```

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Constant value: 5102

ERROR_CANT_DELETE_ASSIGNED_EXCEPTION_PATHpublic static final int **ERROR_CANT_DELETE_ASSIGNED_EXCEPTION_PATH**

Constant value: 5103

ERROR_PRINTER_CONNECT_ERRORpublic static final int **ERROR_PRINTER_CONNECT_ERROR**

Constant value: 5027

ERROR_EXECUTING_PATH_TYPE_EXCEPTIONpublic static final int **ERROR_EXECUTING_PATH_TYPE_EXCEPTION**

Constant value: 5028

ERROR_EXECUTING_PATH_RESOLVE_ACTIONpublic static final int **ERROR_EXECUTING_PATH_RESOLVE_ACTION**

Constant value: 5029

ERROR_CURSOR_POSITION_NOT_SETpublic static final int **ERROR_CURSOR_POSITION_NOT_SET**

Constant value: 5030

ERROR_FIELD_CONTENT_NOT_SETpublic static final int **ERROR_FIELD_CONTENT_NOT_SET**

Constant value: 5036

ERROR_REPLAY_DEVICE_INCOMPATIBILITYpublic static final int **ERROR_REPLAY_DEVICE_INCOMPATIBILITY**

Constant value: 5037

ERROR_IMPORT_FILE_REPOSITORYpublic static final int **ERROR_IMPORT_FILE_REPOSITORY**

Constant value: 5038

ERROR_CONNECTING_DEVICE_NAME

public static final int **ERROR_CONNECTING_DEVICE_NAME**

Constant value: 5031

ERROR_EXECUTING_MAP_SCREEN_NOT_IN_MAP

public static final int **ERROR_EXECUTING_MAP_SCREEN_NOT_IN_MAP**

Constant value: 5032

ERROR_EXECUTING_MAP_NO_PATH_BETWEEN_SCREEN

public static final int **ERROR_EXECUTING_MAP_NO_PATH_BETWEEN_SCREEN**

Constant value: 5033

ERROR_EXECUTING_MAP_NO_MAP_IN_APPL

public static final int **ERROR_EXECUTING_MAP_NO_MAP_IN_APPL**

Constant value: 5034

ERROR_EXECUTING_MAP_BAD_DESTINATION

public static final int **ERROR_EXECUTING_MAP_BAD_DESTINATION**

Constant value: 5035

ERROR_MAP_STEP_ALREADY_EXISTS

public static final int **ERROR_MAP_STEP_ALREADY_EXISTS**

Constant value: 5040

ERROR_CREATING_TABLE

public static final int **ERROR_CREATING_TABLE**

Constant value: 5080

ERROR_DISPLAY_SESSION_REQUEST_FOR_PRINTER_SESSION

public static final int **ERROR_DISPLAY_SESSION_REQUEST_FOR_PRINTER_SESSION**

Constant value: 5070

(continued from last page)

ERROR_CONCURRENT_NUMBER_OF_USERS_EXCEEDS_LICENSE_AGREEMENT

```
public static final int ERROR_CONCURRENT_NUMBER_OF_USERS_EXCEEDS_LICENSE_AGREEMENT
```

Constant value: 5060

ERROR_LICENSE_TERMS_VAIOLATION

```
public static final int ERROR_LICENSE_TERMS_VAIOLATION
```

Constant value: 5061

ERROR_SESSION_VARIABLE_DOESNT_EXIST

```
public static final int ERROR_SESSION_VARIABLE_DOESNT_EXIST
```

Constant value: 5090

ERROR_SESSION_VARIABLE_TYPE_MISMATCH

```
public static final int ERROR_SESSION_VARIABLE_TYPE_MISMATCH
```

Constant value: 5091

ERROR_SERVICE_GENERAL

```
public static final int ERROR_SERVICE_GENERAL
```

Constant value: 5050

ERROR_SERVICE_NOT_ACTIVE

```
public static final int ERROR_SERVICE_NOT_ACTIVE
```

Constant value: 5051

ERROR_SERVICE_NO_AVAILABLE_CONNECTION

```
public static final int ERROR_SERVICE_NO_AVAILABLE_CONNECTION
```

Constant value: 5052

ERROR_SERVICE_CONNECTION_TIMEOUT_EXPIRED

```
public static final int ERROR_SERVICE_CONNECTION_TIMEOUT_EXPIRED
```

Constant value: 5053

(continued from last page)

ERROR_SERVICE_PATH_NOT_FOUND

```
public static final int ERROR_SERVICE_PATH_NOT_FOUND
```

Constant value: 5054

ERROR_SERVICE_CONNECTION_NOT_READY

```
public static final int ERROR_SERVICE_CONNECTION_NOT_READY
```

Constant value: 5055

ERROR_SERVICE_NOT_FOUND

```
public static final int ERROR_SERVICE_NOT_FOUND
```

Constant value: 5056

ERROR_NATURAL_DATA_TRANSFER_FAILURE

```
public static final int ERROR_NATURAL_DATA_TRANSFER_FAILURE
```

Constant value: 5100

ERROR_NATURAL_DATA_TRANSFER_INAVLID_STATE

```
public static final int ERROR_NATURAL_DATA_TRANSFER_INAVLID_STATE
```

Constant value: 5101

ERROR_HOST_EXISTS_IN_APPLICATION

```
public static final int ERROR_HOST_EXISTS_IN_APPLICATION
```

Constant value: 6000

ERROR_CONFIGURATION_SAVE_FAILED

```
public static final int ERROR_CONFIGURATION_SAVE_FAILED
```

Constant value: 6001

ERROR_INCOMPATIBLE_VERSIONS

```
public static final int ERROR_INCOMPATIBLE_VERSIONS
```

Constant value: 6002

ERROR_SECURITY_SAVE_FAILED

```
public static final int ERROR_SECURITY_SAVE_FAILED
```

(continued from last page)

Constant value: 6003

ERROR_INVALID_LICENSE_KEY

```
public static final int ERROR_INVALID_LICENSE_KEY
```

Constant value: 6004

ERROR_LICENSE_FILE_NOT_FOUND

```
public static final int ERROR_LICENSE_FILE_NOT_FOUND
```

Constant value: 6005

ERROR_REPLACING_LICENSE

```
public static final int ERROR_REPLACING_LICENSE
```

Constant value: 6006

WARNING_30_DAYS_EVAL_VERSION

```
public static final int WARNING_30_DAYS_EVAL_VERSION
```

Constant value: 6100

WARNING_60_DAYS_EVAL_VERSION

```
public static final int WARNING_60_DAYS_EVAL_VERSION
```

Constant value: 6101

WARNING_90_DAYS_EVAL_VERSION

```
public static final int WARNING_90_DAYS_EVAL_VERSION
```

Constant value: 6102

WARNING_EVALUATION_EXPIRED

```
public static final int WARNING_EVALUATION_EXPIRED
```

Constant value: 6103

ERROR_INVALID_LICENSE_COMBINATION

```
public static final int ERROR_INVALID_LICENSE_COMBINATION
```

Constant value: 6113

REPOSITORY_NOT_AVAILABLE

public static final int **REPOSITORY_NOT_AVAILABLE**

Constant value: 7000

OBJECT_ALREADY_EXISTS

public static final int **OBJECT_ALREADY_EXISTS**

Constant value: 7001

OBJECT_NOT_FOUND

public static final int **OBJECT_NOT_FOUND**

Constant value: 7002

OBJECT_NOT_UPDATED

public static final int **OBJECT_NOT_UPDATED**

Constant value: 7003

OBJECT_NOT_DELETED

public static final int **OBJECT_NOT_DELETED**

Constant value: 7003

FIELD_EXISTS_IN_ACTIONS

public static final int **FIELD_EXISTS_IN_ACTIONS**

Constant value: 7004

MAPPING_OVERLAP

public static final int **MAPPING_OVERLAP**

Constant value: 7005

REPOSITORY_NOT_CREATED

public static final int **REPOSITORY_NOT_CREATED**

Constant value: 7006

(continued from last page)

MAPPING_EXCEEDS_LINE

```
public static final int MAPPING_EXCEEDS_LINE
```

Constant value: 7007

APPLICATION_RELOAD_FAILED

```
public static final int APPLICATION_RELOAD_FAILED
```

Constant value: 7008

INDEXATION_PROCESS_FAILED

```
public static final int INDEXATION_PROCESS_FAILED
```

Constant value: 7009

MAPPING_UTILITY_FAILED

```
public static final int MAPPING_UTILITY_FAILED
```

Constant value: 7010

DESTINATION_FOLDER_IS_SAME

```
public static final int DESTINATION_FOLDER_IS_SAME
```

Constant value: 7011

DESTINATION_FOLDER_IS_SUBFOLDER

```
public static final int DESTINATION_FOLDER_IS_SUBFOLDER
```

Constant value: 7012

IMPORT_APPLICATION_FAILED

```
public static final int IMPORT_APPLICATION_FAILED
```

Constant value: 7013

IMPORT_APPLICATION_ENTITIES_FAILED

```
public static final int IMPORT_APPLICATION_ENTITIES_FAILED
```

Constant value: 7014

EXPORT_APPLICATION_ENTITIES_FAILED

```
public static final int EXPORT_APPLICATION_ENTITIES_FAILED
```

(continued from last page)

Constant value: 7015

REPOSITORY_NOT_SYNCHRONIZEDpublic static final int **REPOSITORY_NOT_SYNCHRONIZED**

Constant value: 7016

UPDATE_NONE_EXISTING_ENTITYpublic static final int **UPDATE_NONE_EXISTING_ENTITY**

Constant value: 7017

FAULTY_SCREEN_IMAGEpublic static final int **FAULTY_SCREEN_IMAGE**

Constant value: 7018

ERROR_SYNCHRONIZING_REPOSITORYpublic static final int **ERROR_SYNCHRONIZING_REPOSITORY**

Constant value: 7019

IMPORT_APPLICATION_CONFIG_MISSINGpublic static final int **IMPORT_APPLICATION_CONFIG_MISSING**

Constant value: 7020

IMPORT_APPLICATION_HOST_CATEGORY_UNSUPPORTEDpublic static final int **IMPORT_APPLICATION_HOST_CATEGORY_UNSUPPORTED**

Constant value: 7021

IMPORT_APPLICATION_COULD_NOT_RESTORE_OVERRIDEN_APP_FROM_BACKUPpublic static final int **IMPORT_APPLICATION_COULD_NOT_RESTORE_OVERRIDEN_APP_FROM_BACKUP**

Constant value: 7022

ERROR_RETRIEVING_WSDL_SERVICESpublic static final int **ERROR_RETRIEVING_WSDL_SERVICES**

Constant value: 8000

ERROR_CREATING_ENTITIES_FROM_WSDL

public static final int **ERROR_CREATING_ENTITIES_FROM_WSDL**

Constant value: 8001

ERROR_RETRIEVING_WSDL_SERVICES_PERMISSION_DENIED

public static final int **ERROR_RETRIEVING_WSDL_SERVICES_PERMISSION_DENIED**

Constant value: 8002

ERROR_CHANGING_WEB_SERVICE_TARGET_SERVER

public static final int **ERROR_CHANGING_WEB_SERVICE_TARGET_SERVER**

Constant value: 8500

ERROR_EXECUTING_PROCEDURE_GENERAL

public static final int **ERROR_EXECUTING_PROCEDURE_GENERAL**

Constant value: 9000

ERROR_DEPLOYMENT_GENERAL

public static final int **ERROR_DEPLOYMENT_GENERAL**

Constant value: 10000

ERROR_DEPLOYING_WEB_SERVICE

public static final int **ERROR_DEPLOYING_WEB_SERVICE**

Constant value: 10001

ERROR_UNDEPLOYING_WEB_SERVICE

public static final int **ERROR_UNDEPLOYING_WEB_SERVICE**

Constant value: 10002

ERROR_UPDATING_WEB_SERVICE

public static final int **ERROR_UPDATING_WEB_SERVICE**

Constant value: 10003

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ERROR_EXPORTING_WEB_SERVICE

```
public static final int ERROR_EXPORTING_WEB_SERVICE
```

Constant value: 10004

ERROR_CENTRASITE_REGISTRATION

```
public static final int ERROR_CENTRASITE_REGISTRATION
```

Constant value: 10005

ERROR_DEPLOYMENT_HANDLER_NOT_AVAILABLE

```
public static final int ERROR_DEPLOYMENT_HANDLER_NOT_AVAILABLE
```

Constant value: 10006

ERROR_INCOMPATIBLE_WSS_VERSION

```
public static final int ERROR_INCOMPATIBLE_WSS_VERSION
```

Constant value: 10007

SESSION_CANCELED

```
public static final int SESSION_CANCELED
```

Constant value: 11000

SESSION_CANCELED_BY_ADMIN

```
public static final int SESSION_CANCELED_BY_ADMIN
```

Constant value: 11001

SESSION_CANCELED_BY_INACTIVE_TIMEOUT

```
public static final int SESSION_CANCELED_BY_INACTIVE_TIMEOUT
```

Constant value: 11002

RESTRICTED_ACCESS_TO_URL

```
public static final int RESTRICTED_ACCESS_TO_URL
```

Constant value: 12001

Constructors

(continued from last page)

GXResponseCodes

```
public GXResponseCodes()
```

Package

com.sabratec.applinx.framework

com.sabratec.applinx.framework

Class GXAppConfig

java.lang.Object

↳ com.sabratec.applinx.framework.GXAppConfig

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXWebAppConfig](#)

```
public class GXAppConfig
extends Object
implements java.io.Serializable
```

framework configurations basic class

Constructor Summary

public	GXAppConfig()
--------	-------------------------------

Method Summary

String	get_Build() For .NET framework usage.
boolean	get_CaptureTagsEvents() Deprecated. <i>Events are capture on the client side. Use GX_CaptureInputTagEvents in _inc_applconf.js</i>
boolean	get_DesignMode() For .NET framework usage.
String	get_ErrorForm() For .NET framework usage.
int	get_FieldsModification() Deprecated. <i>- ApplinX determines the modified fields both from content difference, and typed fields.</i>
int	get_FieldTypesInUse() For .NET framework usage.
GXFtpConfig	get_FtpConfig() For .NET framework usage.
String	get_IndexForm() For .NET framework usage.
boolean	get_Instant() For .NET framework usage.

GXRenderConfig	get_InstantConfig() For .NET framework usage.
String	get_InstantForm() For .NET framework usage.
String	get_InstantWinForm() For .NET framework usage.
boolean	get_IsInstant() For .NET framework usage.
GXMacroConfig	get_MacroConfig() For .NET framework usage.
String	get_MapPath() For .NET framework usage.
boolean	get_PerformSyncCheckInInstant() For .NET framework usage.
GXProceduresConfig	get_ProceduresConfig() For .NET framework usage.
boolean	get_ReflectBGColors() For .NET framework usage.
boolean	get_ReflectEmulationBehaviour() For .NET framework usage.
boolean	get_ReflectFGColors() For .NET framework usage.
boolean	get_ReflectHostCursor() For .NET framework usage.
boolean	get_ReflectHostProtected() For .NET framework usage.
boolean	get_ReflectMaxlength() For .NET framework usage.
GXConfig	get_SessionConfig() For .NET framework usage.
GXSSOConfig	get_SingleSignOnConfig() For .NET framework usage.
GXSSOConfig	get_SsoConfig() For .NET framework usage.
boolean	get_SupportDupAndFieldMark() For .NET framework usage.
GXTableBuildConfig	get_TableBuildConfig() For .NET framework usage.
boolean	get_TrimLabels() For .NET framework usage.

boolean	get_UseFolders() For .NET framework usage.
boolean	get_UseKeyboardPFKeys() Deprecated. Please use the configuration file <i>config/gx_clientConfig.xml</i>
boolean	get_UseModalWindows() For .NET framework usage.
boolean	get_UseScreenGroups() For .NET framework usage.
String	get_Version() For .NET framework usage.
String	getBuild() Get the current ApplinX build number.
boolean	getCaptureTagsEvents() Deprecated. Events are capture on the client side. Use <i>GX_CaptureInputTagEvents</i> in <i>_inc_applconf.js</i>
boolean	getDesignMode() Get the design of the application, for example: to show the composer link.
String	getErrorForm() The value of the error page.
int	getFieldModification() Deprecated. - ApplinX determines the modified fields both from content difference, and typed fields
int	getFieldTypesInUse() Enumeration for type of fields should the framework read/update: Possible values: GXFrameworkHandler.GX_USE_ALL_FIELDS GXFrameworkHandler.GX_USE_APPFIELDS_AND_INPUTS GXFrameworkHandler.GX_USE_APPFIELDS GXFrameworkHandler.GX_USE_SINGLE_APPFIELDS
GXftpConfig	getFtpConfig() Contains the FTP configuration
String	getIndexForm()
GXRenderConfig	getInstantConfig() Contains the instant configuration
String	getInstantForm() The value of the instant page.
String	getInstantWinForm() The value of the page when a host window is shown and the framework is using the pop-up manager.
GXMacroConfig	getMacroConfig() Contains the macro configuration
String	getMapPath() Deprecated. Application map are defined globally for each application. Map name will be ignored

boolean	getPerformSyncCheckInInstant() Each page that inherits from GXDefaultLogicWebForm (.NET) / GXDefaultLogicContext (JSP) checks synchronization against the current host screen.
GXProceduresConfig	getProceduresConfig() Contains the procedures configuration for activating ApplinX procedures
boolean	getReflectBGColors() Get if to dynamically add a relevant back color css to the page fields when calling gx_fillForm.
boolean	getReflectEmulationBehaviour() Determines whether to dynamically add to input fields emulation attributes when calling gx_fillForm.
boolean	getReflectFGColors() Get if to dynamically add a relevant color css to the page fields when calling gx_fillForm.
boolean	getReflectHostCursor() When inheriting from GXBasicWebForm (.NET) or from GXBasicContext (JSP), ApplinX full JavaScript is not added to the page.
boolean	getReflectHostProtected() Determines whether to dynamically check the page fields when gx_fillForm is called.
boolean	getReflectMaxlength() Determines whether to dynamically add a maxlength attribute to input fields when calling gx_fillForm in generated pages.
GXConfig	getSessionConfig() Contains the ApplinX session connection declaration
GXSSOConfig	getSingleSignOnConfig() Contains single signon configurations
boolean	getSupportDupAndFieldMark() Is supporting Mainframe host keys Dup and Fieldmark in instant and generated pages.
GXTableBuildConfig	getTableBuildConfig() Contains the table configuration for generated pages
boolean	getTrimLabels() Is trimming the protected field when gx_fillForm is called.
boolean	getUseFolders() Determines whether to use ApplinX folders also for the Web application.
boolean	getUseKeyboardPFKeys() Deprecated. Please use the configuration file config/gx_clientConfig.xml
boolean	getUseModalWindows() Determines whether to activate ApplinX pop-up manager and transform recognized host windows for Web pop-up windows.
boolean	getUseScreenGroups() Determines whether to load a page for the current screen group, when the current screen does not contain a matching page.
String	getVersion() Get the current ApplinX version.

boolean	isInstant() For internal use
void	set_CaptureTagsEvents (boolean captureTagsEvents) Deprecated. <i>Events are capture on the client side. Use <code>GX_CaptureInputTagEvents</code> in <code>_inc_applconf.js</code></i>
void	set_DesignMode (boolean isDesignMode) For .NET framework usage.
void	set_ErrorForm (String errorForm) For .NET framework usage.
void	set_FieldsModification (int fieldsModification) Deprecated. - <i>Applinx determines the modified fields both from content difference, and typed fields.</i>
void	set_FieldTypesInUse (int fieldTypesInUse) For .NET framework usage.
void	set_FtpConfig (GXFtpConfig ftpConfig) For .NET framework usage.
void	set_IndexForm (String indexForm) For .NET framework usage.
void	set_Instant (boolean isInstant) For .NET framework usage.
void	set_InstantConfig (GXRenderConfig instantConfig) For .NET framework usage.
void	set_InstantForm (String instantForm) For .NET framework usage.
void	set_InstantWinForm (String instantWinForm) For .NET framework usage.
void	set_IsInstant (boolean isInstant) For .NET framework usage.
void	set_MacroConfig (GXMacroConfig macroConfig) For .NET framework usage.
void	set_MapPath (String mapPath) For .NET framework usage.
void	set_PerformSyncCheckInInstant (boolean performSyncCheckInInstant) For .NET framework usage.
void	set_ProceduresConfig (GXProceduresConfig proceduresConfig) For .NET framework usage.
void	set_ReflectBGColors (boolean reflectBGColors) For .NET framework usage.
void	set_ReflectEmulationBehaviour (boolean reflectEmulationBehaviour) For .NET framework usage.

void	set_ReflectFGColors (boolean reflectFGColors) Set if to dynamically add a relevant color css to the page fields when calling gx_fillForm.
void	set_ReflectHostCursor (boolean reflectHostCursor) For .NET framework usage.
void	set_ReflectHostProtected (boolean reflectHostProtected) For .NET framework usage.
void	set_ReflectMaxlength (boolean reflectMaxlength) For .NET framework usage.
void	set_SessionConfig (GXConfig sessionConfig) For .NET framework usage.
void	set_SingleSignOnConfig (GXSSOConfig ssoConfig) For .NET framework usage.
void	set_SsoConfig (GXSSOConfig ssoConfig) For .NET framework usage.
void	set_SupportDupAndFieldMark (boolean supportDupAndFieldMark) For .NET framework usage.
void	set_TableBuildConfig (GXTableBuildConfig tableConfig) For .NET framework usage.
void	set_TrimLabels (boolean TrimLabels) For .NET framework usage.
void	set_UseFolders (boolean useFolders) For .NET framework usage.
void	set_UseKeyboardPFKeys (boolean useKeyboardPFKeys) Deprecated. Please use the configuration file config/gx_clientConfig.xml
void	set_UseModalWindows (boolean useModalWindows) For .NET framework usage.
void	set_UseScreenGroups (boolean useScreenGroups) For .NET framework usage.
void	setCaptureTagsEvents (boolean captureTagsEvents) Deprecated. Events are capture on the client side. Use GX_CaptureInputTagEvents in _inc_applconf.js
void	setDesignMode (boolean isDesignMode) Set the design of the application, for example: to show the composer link.
void	setErrorForm (String errorForm) The value of the error page.
void	setFieldsModification (int fieldsModification) Deprecated. - ApplinX determines the modified fields both from content difference, and typed fields

void	setFieldTypesInUse (int fieldTypesInUse) Enumeration for type of fields should the framework read/update: Possible values: GXFrameworkHandler.GX_USE_ALL_FIELDS GXFrameworkHandler.GX_USE_APPFIELDS_AND_INPUTS GXFrameworkHandler.GX_USE_APPFIELDS GXFrameworkHandler.GX_USE_SINGLE_APPFIELDS
void	setFtpConfig (GXFtpConfig ftpConfig) For internal use
void	setIndexForm (String indexForm)
void	setInstantConfig (GXRenderConfig instantConfig) For internal use
void	setInstantForm (String instantForm) Returns the value of the instant page.
void	setInstantWinForm (String instantWinForm) The value of the page when a host window is shown and the framework is using the pop-up manager.
void	setIsInstant (boolean isInstant) For internal use
void	setMacroConfig (GXMacroConfig macroConfig) For internal use
void	setMapPath (String mapPath) Deprecated. Application map are defined globally for each application. Map name will be ignored
void	setPerformSyncCheckInInstant (boolean performSyncCheckInInstant) Each page that inherits from GXDefaultLogicWebForm (.NET) / GXDefaultLogicContext (JSP) checks synchronization against the current host screen.
void	setProceduresConfig (GXProceduresConfig proceduresConfig) For internal use
void	setReflectBGColors (boolean reflectBGColors) Determines whether the field background color in the Web application will be the same as the field background color in the host.
void	setReflectEmulationBehaviour (boolean reflectEmulationBehaviour) Determines whether to add emulation attributes in text fields.
void	setReflectFGColors (boolean reflectFGColors) Determines whether the field foreground color in the Web application will be the same as the field foreground color in the host.
void	setReflectHostCursor (boolean reflectHostCursor) When inheriting from GXBasicWebForm (.NET) or from GXBasicContext (JSP), ApplinX full JavaScript is not added to the page.
void	setReflectHostProtected (boolean reflectHostProtected) Determines whether the protected fields in the host will be read only in the Web application (when gx_fillForm is called).
void	setReflectMaxlength (boolean reflectMaxlength) Determines whether the fields' maximum length attribute in the host will be the maximum length attribute in the input fields in the Web application.

void	setSessionConfig (GXConfig sessionConfig) For internal use
void	setSingleSignOnConfig (GXSSOConfig ssoConfig) For internal use
void	setSupportDupAndFieldMark (boolean supportDupAndFieldMark) Dup and FieldMark are special Mainframe characters.
void	setTableBuildConfig (GXTableBuildConfig tableBuildConfig) For internal use
void	setTrimLabels (boolean TrimLabels) Deprecated. Use ApplinX server configuration, screen content tab
void	setUseFolders (boolean useFolders) Determines whether the Web application folder structure should be the same folder structure as configured in the ApplinX repository.
void	setUseKeyboardPFKeys (boolean useKeyboardPFKeys) Deprecated. Please use the configuration file config/gx_clientConfig.xml
void	setUseModalWindows (boolean useModalWindows) Determines whether to activate ApplinX pop-up manager and transform recognized host windows to Web pop-up windows.
void	setUseScreenGroups (boolean useScreenGroups) Determines whether to load a page for the current screen group, when the current screen does not contain a matching page.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXAppConfig

public **GXAppConfig**()

Methods

get_Version

public String **get_Version**()

For .NET framework usage. Expose the method as a property.

getVersion

public String **getVersion**()

Get the current ApplinX version.

Returns:

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String

get_Build

```
public String get_Build()
```

For .NET framework usage. Expose the method as a property.

getBuild

```
public String getBuild()
```

Get the current ApplinX build number.

Returns:

String

get_DesignMode

```
public boolean get_DesignMode()
```

For .NET framework usage. Expose the method as a property.

set_DesignMode

```
public void set_DesignMode(boolean isDesignMode)
```

For .NET framework usage. Expose the method as a property.

getDesignMode

```
public boolean getDesignMode()
```

Get the design of the application, for example: to show the composer link. Default value: true

Returns:

String

setDesignMode

```
public void setDesignMode(boolean isDesignMode)
```

Set the design of the application, for example: to show the composer link. It is recommended to change this parameter to false when deploying the application to production Default value: true

get_UseKeyboardPFKeys

```
public boolean get_UseKeyboardPFKeys()
```

Deprecated. Please use the configuration file *config/gx_clientConfig.xml*

For .NET framework usage. Expose the method as a property.

set_UseKeyboardPFKeys

```
public void set_UseKeyboardPFKeys(boolean useKeyboardPFKeys)
```

Deprecated. Please use the configuration file *config/gx_clientConfig.xml*

(continued from last page)

For .NET framework usage. Expose the method as a property.

getUseKeyboardPFKeys

```
public boolean getUseKeyboardPFKeys()
```

Deprecated. Please use the configuration file *config/gx_clientConfig.xml*

Is the pf keys on the browser are activated. Default value: true.

Returns:

boolean

setUseKeyboardPFKeys

```
public void setUseKeyboardPFKeys(boolean useKeyboardPFKeys)
```

Deprecated. Please use the configuration file *config/gx_clientConfig.xml*

Set if the pf keys on the browser are activated. Default value: true.

get_SupportDupAndFieldMark

```
public boolean get_SupportDupAndFieldMark()
```

For .NET framework usage. Expose the method as a property.

set_SupportDupAndFieldMark

```
public void set_SupportDupAndFieldMark(boolean supportDupAndFieldMark)
```

For .NET framework usage. Expose the method as a property.

getSupportDupAndFieldMark

```
public boolean getSupportDupAndFieldMark()
```

Is supporting Mainframe host keys Dup and Fieldmark in instant and generated pages.

Returns:

boolean

setSupportDupAndFieldMark

```
public void setSupportDupAndFieldMark(boolean supportDupAndFieldMark)
```

Dup and FieldMark are special Mainframe characters. In Instant and generated pages, a user can send to the host a non printable character in specific input fields.

get_FieldTypesInUse

```
public int get_FieldTypesInUse()
```

For .NET framework usage. Expose the method as a property.

set_FieldTypesInUse

```
public void set_FieldTypesInUse(int fieldTypesInUse)
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

getFieldTypesInUse

```
public int getFieldTypesInUse()
```

Enumeration for type of fields should the framework read/update: Possible values:
GXFrameworkHandler.GX_USE_ALL_FIELDS GXFrameworkHandler.GX_USE_APPFIELDS_AND_INPUTS
GXFrameworkHandler.GX_USE_APPFIELDS GXFrameworkHandler.GX_USE_SINGLE_APPFIELDS

setFieldTypesInUse

```
public void setFieldTypesInUse(int fieldTypesInUse)
```

Enumeration for type of fields should the framework read/update: Possible values:
GXFrameworkHandler.GX_USE_ALL_FIELDS GXFrameworkHandler.GX_USE_APPFIELDS_AND_INPUTS
GXFrameworkHandler.GX_USE_APPFIELDS GXFrameworkHandler.GX_USE_SINGLE_APPFIELDS

get_TrimLabels

```
public boolean get_TrimLabels()
```

For .NET framework usage. Expose the method as a property.

set_TrimLabels

```
public void set_TrimLabels(boolean TrimLabels)
```

For .NET framework usage. Expose the method as a property.

getTrimLabels

```
public boolean getTrimLabels()
```

Is trimming the protected field when gx_fillForm is called.

setTrimLabels

```
public void setTrimLabels(boolean TrimLabels)
```

Deprecated. Use *ApplinX server configuration, screen content tab*

get_InstantForm

```
public String get_InstantForm()
```

For .NET framework usage. Expose the method as a property.

set_InstantForm

```
public void set_InstantForm(String instantForm)
```

For .NET framework usage. Expose the method as a property.

getInstantForm

```
public String getInstantForm()
```

(continued from last page)

The value of the instant page. By default: instant.jsp (JSP) / instant.aspx (.NET)

setInstantForm

```
public void setInstantForm(String instantForm)
```

Returns the value of the instant page. By default: instant.jsp (JSP) / instant.aspx (.NET)

get_InstantWinForm

```
public String get_InstantWinForm()
```

For .NET framework usage. Expose the method as a property.

set_InstantWinForm

```
public void set_InstantWinForm(String instantWinForm)
```

For .NET framework usage. Expose the method as a property.

getInstantWinForm

```
public String getInstantWinForm()
```

The value of the page when a host window is shown and the framework is using the pop-up manager. By default: instantWin.jsp (JSP) / instantWin.aspx (.NET)

setInstantWinForm

```
public void setInstantWinForm(String instantWinForm)
```

The value of the page when a host window is shown and the framework is using the pop-up manager. By default: instantWin.jsp (JSP) / instantWin.aspx (.NET)

get_ErrorForm

```
public String get_ErrorForm()
```

For .NET framework usage. Expose the method as a property.

set_ErrorForm

```
public void set_ErrorForm(String errorForm)
```

For .NET framework usage. Expose the method as a property.

getErrorForm

```
public String getErrorForm()
```

The value of the error page. By default: error.jsp (JSP) / error.aspx (.NET)

setErrorForm

```
public void setErrorForm(String errorForm)
```

The value of the error page. By default: error.jsp (JSP) / error.aspx (.NET)

get_ReflectFGColors

```
public boolean get_ReflectFGColors()
```

For .NET framework usage. Expose the method as a property.

set_ReflectFGColors

```
public void set_ReflectFGColors(boolean reflectFGColors)
```

Set if to dynamically add a relevant color css to the page fields when calling gx_fillForm. The relevant css classes are in styles_instant.css in the new application /css_colors folder in the emulation template.

getReflectFGColors

```
public boolean getReflectFGColors()
```

Get if to dynamically add a relevant color css to the page fields when calling gx_fillForm. The relevant css classes are in styles_instant.css in the new application /css_colors folder in the emulation template.

Returns:

whether to dynamically add a relevant color css to the page input fields

setReflectFGColors

```
public void setReflectFGColors(boolean reflectFGColors)
```

Determines whether the field foreground color in the Web application will be the same as the field foreground color in the host. The relevant css classes are in css/styles_generated.css file.

Parameters:

reflectFGColor - whether to dynamically add a relevant color css to the page input fields

get_ReflectBGColors

```
public boolean get_ReflectBGColors()
```

For .NET framework usage. Expose the method as a property.

set_ReflectBGColors

```
public void set_ReflectBGColors(boolean reflectBGColors)
```

For .NET framework usage. Expose the method as a property.

getReflectBGColors

```
public boolean getReflectBGColors()
```

Get if to dynamically add a relevant back color css to the page fields when calling gx_fillForm. The relevant css classes are in css/styles_generated.css file.

Returns:

whether to dynamically add a relevant back color css to the page input fields

(continued from last page)

setReflectBGColors

```
public void setReflectBGColors(boolean reflectBGColors)
```

Determines whether the field background color in the Web application will be the same as the field background color in the host. The relevant css classes are in `css/styles_generated.css` file. `/css_colors` folder in the emulation template.

Parameters:

`reflectBGColor` - whether to dynamically add a relevant back color css to the page fields

get_ReflectEmulationBehaviour

```
public boolean get_ReflectEmulationBehaviour()
```

For .NET framework usage. Expose the method as a property.

set_ReflectEmulationBehaviour

```
public void set_ReflectEmulationBehaviour(boolean reflectEmulationBehaviour)
```

For .NET framework usage. Expose the method as a property.

getReflectEmulationBehaviour

```
public boolean getReflectEmulationBehaviour()
```

Determines whether to dynamically add to input fields emulation attributes when calling `gx_fillForm`. The emulation attributes cause the input fields to behave like host emulation unprotected fields.

Returns:

whether to dynamically add to input fields emulation attributes

setReflectEmulationBehaviour

```
public void setReflectEmulationBehaviour(boolean reflectEmulationBehaviour)
```

Determines whether to add emulation attributes in text fields. Emulation attributes are special ApplinX attributes that start with "gx_" and are added to the rendered text field tag. These attributes provide additional information to the ApplinX JavaScript engine, which changes the behavior of the text fields.
The attributes are:

- `gx_autoSkip` - will cause the text field to skip to the neighboring text field, once it is filled with content.
- `gx_dt` - The data type of the field. See [GXBaseObjectConstants](#) for possible data types.
- `gx_ra` - AS/400 right adjust
- `gx_au` - AS/400 automatic enter

Parameters:

`reflectEmulationBehaviour` - whether to add emulation attributes in text fields

get_ReflectHostCursor

```
public boolean get_ReflectHostCursor()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

set_ReflectHostCursor

```
public void set_ReflectHostCursor(boolean reflectHostCursor)
```

For .NET framework usage. Expose the method as a property.

getReflectHostCursor

```
public boolean getReflectHostCursor()
```

When inheriting from GXBasicWebForm (.NET) or from GXBasicContext (JSP), ApplinX full JavaScript is not added to the page. This causes the page not to behave according to the host screen behavior. This parameter adds the functionality of focusing on an input field according to the host.

Returns:

whether to add the functionality of focusing on an input field according to the host

setReflectHostCursor

```
public void setReflectHostCursor(boolean reflectHostCursor)
```

When inheriting from GXBasicWebForm (.NET) or from GXBasicContext (JSP), ApplinX full JavaScript is not added to the page. This causes the page not to behave according to the host screen behavior. This parameter adds the functionality of focusing on an input field according to the host.

Parameters:

reflectHostCursor - whether to add the functionality of focusing on an input field according to the host

get_ReflectMaxlength

```
public boolean get_ReflectMaxlength()
```

For .NET framework usage. Expose the method as a property.

set_ReflectMaxlength

```
public void set_ReflectMaxlength(boolean reflectMaxlength)
```

For .NET framework usage. Expose the method as a property.

getReflectMaxlength

```
public boolean getReflectMaxlength()
```

Determines whether to dynamically add a maxlength attribute to input fields when calling gx_fillForm in generated pages. This saves you the work of manually adding this attribute to each input field when designing the page.

Returns:

whether to dynamically add a maxlength attribute to input fields

setReflectMaxlength

```
public void setReflectMaxlength(boolean reflectMaxlength)
```

Determines whether the fields' maximum length attribute in the host will be the maximum length attribute in the input fields in the Web application. This saves you the work of manually adding this attribute to each input field when designing the page.

Parameters:

reflectMaxlength - whether to dynamically add a maxlength attribute to input fields

get_ReflectHostProtected

```
public boolean get_ReflectHostProtected()
```

For .NET framework usage. Expose the method as a property.

set_ReflectHostProtected

```
public void set_ReflectHostProtected(boolean reflectHostProtected)
```

For .NET framework usage. Expose the method as a property.

getReflectHostProtected

```
public boolean getReflectHostProtected()
```

Determines whether to dynamically check the page fields when gx_fillForm is called.

Returns:

whether to dynamically check the page fields when gx_fillForm is called

setReflectHostProtected

```
public void setReflectHostProtected(boolean reflectHostProtected)
```

Determines whether the protected fields in the host will be read only in the Web application (when gx_fillForm is called).

Parameters:

reflectHostProtected - whether to dynamically check the page fields when gx_fillForm is called

get_MapPath

```
public String get_MapPath()
```

For .NET framework usage. Expose the method as a property.

set_MapPath

```
public void set_MapPath(String mapPath)
```

For .NET framework usage. Expose the method as a property.

getMapPath

```
public String getMapPath()
```

Deprecated. *Application map are defined globally for each application. Map name will be ignored*

Determines the map path used to synchronize the host with the page. It is used only if gx_syncHostWithForm is called.

Returns:

determines the map path used to synchronize the host with the page

setMapPath

```
public void setMapPath(String mapPath)
```

(continued from last page)

Deprecated. *Application map are defined globally for each application. Map name will be ignored*

Determines the map path used to synchronize the host with the page. It is used only if `gx_syncHostWithForm` is called.

Parameters:

`mapPath` - determines the map path used to synchronize the host with the page

get_SessionConfig

```
public GXConfig get_SessionConfig()
```

For .NET framework usage. Expose the method as a property.

set_SessionConfig

```
public void set_SessionConfig(GXConfig sessionConfig)
```

For .NET framework usage. Expose the method as a property.

getSessionConfig

```
public GXConfig getSessionConfig()
```

Contains the ApplinX session connection declaration

Returns:

the ApplinX session connection declaration

setSessionConfig

```
public void setSessionConfig(GXConfig sessionConfig)
```

For internal use

get_MacroConfig

```
public GXMacroConfig get_MacroConfig()
```

For .NET framework usage. Expose the method as a property.

set_MacroConfig

```
public void set_MacroConfig(GXMacroConfig macroConfig)
```

For .NET framework usage. Expose the method as a property.

getMacroConfig

```
public GXMacroConfig getMacroConfig()
```

Contains the macro configuration

Returns:

the macro configuration

setMacroConfig

```
public void setMacroConfig(GXMacroConfig macroConfig)
```

(continued from last page)

For internal use

get_UseModalWindows

```
public boolean get_UseModalWindows()
```

For .NET framework usage. Expose the method as a property.

set_UseModalWindows

```
public void set_UseModalWindows(boolean useModalWindows)
```

For .NET framework usage. Expose the method as a property.

getUseModalWindows

```
public boolean getUseModalWindows()
```

Determines whether to activate ApplinX pop-up manager and transform recognized host windows for Web pop-up windows.

Returns:

whether to activate ApplinX pop-up manager

setUseModalWindows

```
public void setUseModalWindows(boolean useModalWindows)
```

Determines whether to activate ApplinX pop-up manager and transform recognized host windows to Web pop-up windows.

Parameters:

useModalWindows - whether to activate ApplinX pop-up manager

get_UseFolders

```
public boolean get_UseFolders()
```

For .NET framework usage. Expose the method as a property.

set_UseFolders

```
public void set_UseFolders(boolean useFolders)
```

For .NET framework usage. Expose the method as a property.

getUseFolders

```
public boolean getUseFolders()
```

Determines whether to use ApplinX folders also for the Web application. This way the pages that need to be loaded are searched for in the relevant path

Returns:

whether to use ApplinX folders also for the Web application

(continued from last page)

setUseFolders

```
public void setUseFolders(boolean useFolders)
```

Determines whether the Web application folder structure should be the same folder structure as configured in the ApplinX repository. Relevant for screens only. This is recommended when the Web application contains a large number of designed Web pages.

Parameters:

useFolders - whether to use ApplinX folders also for the Web application

get_UseScreenGroups

```
public boolean get_UseScreenGroups()
```

For .NET framework usage. Expose the method as a property.

set_UseScreenGroups

```
public void set_UseScreenGroups(boolean useScreenGroups)
```

For .NET framework usage. Expose the method as a property.

getUseScreenGroups

```
public boolean getUseScreenGroups()
```

Determines whether to load a page for the current screen group, when the current screen does not contain a matching page. If the current screen has more than one screen group, the first screen group which has a matching page will be loaded.

Returns:

whether to load a page for the current screen group, when the current screen does not contain a matching page

setUseScreenGroups

```
public void setUseScreenGroups(boolean useScreenGroups)
```

Determines whether to load a page for the current screen group, when the current screen does not contain a matching page. If the current screen has more than one screen group, the first screen group which has a matching page will be loaded.

Parameters:

useScreenGroups - whether to load a page for the current screen group, when the current screen does not contain a matching page
useScreenGroups

get_CaptureTagsEvents

```
public boolean get_CaptureTagsEvents()
```

Deprecated. Events are capture on the client side. Use *GX_CaptureInputTagEvents* in *_inc_applconf.js*

set_CaptureTagsEvents

```
public void set_CaptureTagsEvents(boolean captureTagsEvents)
```

Deprecated. Events are capture on the client side. Use *GX_CaptureInputTagEvents* in *_inc_applconf.js*

getCaptureTagsEvents

```
public boolean getCaptureTagsEvents()
```

Deprecated. Events are capture on the client side. Use `GX_CaptureInputTagEvents` in `_inc_applconf.js`

setCaptureTagsEvents

```
public void setCaptureTagsEvents(boolean captureTagsEvents)
```

Deprecated. Events are capture on the client side. Use `GX_CaptureInputTagEvents` in `_inc_applconf.js`

get_PerformSyncCheckInInstant

```
public boolean get_PerformSyncCheckInInstant()
```

For .NET framework usage. Expose the method as a property.

set_PerformSyncCheckInInstant

```
public void set_PerformSyncCheckInInstant(boolean performSyncCheckInInstant)
```

For .NET framework usage. Expose the method as a property.

getPerformSyncCheckInInstant

```
public boolean getPerformSyncCheckInInstant()
```

Each page that inherits from `GXDefaultLogicWebForm (.NET)` / `GXDefaultLogicContext (JSP)` checks synchronization against the current host screen. However instant pages, by default, do not check for synchronization, therefore when `instant.jsp` is called from the URL, the framework will not synchronize to the matching page. Setting this parameter to true: make a synchronization check also in `instant.aspx` / `instantWin.aspx (.NET)` `instant.jsp` / `instantWin.jsp (JSP)`.

Returns:

whether a synchronization check is done in instant pages

setPerformSyncCheckInInstant

```
public void setPerformSyncCheckInInstant(boolean performSyncCheckInInstant)
```

Each page that inherits from `GXDefaultLogicWebForm (.NET)` / `GXDefaultLogicContext (JSP)` checks synchronization against the current host screen. However instant pages, by default, do not check for synchronization, therefore when `instant.jsp` is called from the URL, the framework will not synchronize to the matching page. Setting this parameter to true: make a synchronization check also in `instant.aspx` / `instantWin.aspx (.NET)` `instant.jsp` / `instantWin.jsp (JSP)`.

Parameters:

`performSyncCheckInInstant` - whether a synchronization check is done in instant pages

get_FtpConfig

```
public GXFtpConfig get_FtpConfig()
```

For .NET framework usage. Expose the method as a property.

getFtpConfig

```
public GXFtpConfig getFtpConfig()
```

Contains the FTP configuration

Returns:

the FTP configuration

setFtpConfig

```
public void setFtpConfig(GXFtpConfig ftpConfig)
```

For internal use

get_TableBuildConfig

```
public GXTableBuildConfig get_TableBuildConfig()
```

For .NET framework usage. Expose the method as a property.

set_TableBuildConfig

```
public void set_TableBuildConfig(GXTableBuildConfig tableConfig)
```

For .NET framework usage. Expose the method as a property.

getTableBuildConfig

```
public GXTableBuildConfig getTableBuildConfig()
```

Contains the table configuration for generated pages

Returns:

the table configuration for generated pages

setTableBuildConfig

```
public void setTableBuildConfig(GXTableBuildConfig tableBuildConfig)
```

For internal use

Parameters:

tableBuildConfig

get_ProceduresConfig

```
public GXProceduresConfig get_ProceduresConfig()
```

For .NET framework usage. Expose the method as a property.

getProceduresConfig

```
public GXProceduresConfig getProceduresConfig()
```

Contains the procedures configuration for activating ApplinX procedures

Returns:

(continued from last page)

the procedures configuration for activating ApplinX procedures

setProceduresConfig

```
public void setProceduresConfig(GXProceduresConfig proceduresConfig)
```

For internal use

get_InstantConfig

```
public GXRenderConfig get_InstantConfig()
```

For .NET framework usage. Expose the method as a property.

set_InstantConfig

```
public void set_InstantConfig(GXRenderConfig instantConfig)
```

For .NET framework usage. Expose the method as a property.

getInstantConfig

```
public GXRenderConfig getInstantConfig()
```

Contains the instant configuration

Returns:

the instant configuration

setInstantConfig

```
public void setInstantConfig(GXRenderConfig instantConfig)
```

For internal use

get_FieldsModification

```
public int get_FieldsModification()
```

Deprecated. - *Applinx determines the modified fields both from content difference, and typed fields.*

set_FieldsModification

```
public void set_FieldsModification(int fieldsModification)
```

Deprecated. - *Applinx determines the modified fields both from content difference, and typed fields.*

getFieldsModification

```
public int getFieldsModification()
```

Deprecated. - *Applinx determines the modified fields both from content difference, and typed fields*

setFieldsModification

```
public void setFieldsModification(int fieldsModification)
```

Deprecated. - *Applinx determines the modified fields both from content difference, and typed fields*

set_IsInstant

```
public void set_IsInstant(boolean isInstant)
```

For .NET framework usage. Expose the method as a property.

isInstant

```
public boolean isInstant()
```

For internal use

setIsInstant

```
public void setIsInstant(boolean isInstant)
```

For internal use

get_IsInstant

```
public boolean get_IsInstant()
```

For .NET framework usage. Expose the method as a property.

set_Instant

```
public void set_Instant(boolean isInstant)
```

For .NET framework usage. Expose the method as a property.

getSingleSignOnConfig

```
public GXSSOConfig getSingleSignOnConfig()
```

Contains single signon configurations

Returns:

the single signon configuration

setSingleSignOnConfig

```
public void setSingleSignOnConfig(GXSSOConfig ssoConfig)
```

For internal use

get_SsoConfig

```
public GXSSOConfig get_SsoConfig()
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_SsoConfig

```
public void set_SsoConfig(GXSSOConfig ssoConfig)
```

For .NET framework usage. Expose the method as a property.

getIndexForm

```
public String getIndexForm()
```

setIndexForm

```
public void setIndexForm(String indexForm)
```

set_FtpConfig

```
public void set_FtpConfig(GXFtpConfig ftpConfig)
```

For .NET framework usage. Expose the method as a property.

set_ProceduresConfig

```
public void set_ProceduresConfig(GXProceduresConfig proceduresConfig)
```

For .NET framework usage. Expose the method as a property.

get_Instant

```
public boolean get_Instant()
```

For .NET framework usage. Expose the method as a property.

get_SingleSignOnConfig

```
public GXSSOConfig get_SingleSignOnConfig()
```

For .NET framework usage. Expose the method as a property.

set_SingleSignOnConfig

```
public void set_SingleSignOnConfig(GXSSOConfig ssoConfig)
```

For .NET framework usage. Expose the method as a property.

get_IndexForm

```
public String get_IndexForm()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

set_IndexForm

```
public void set_IndexForm(String indexForm)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework Class GXConfig

java.lang.Object

↳ com.sabratec.applinx.framework.GXConfig

All Implemented Interfaces:

Cloneable

```
public class GXConfig
extends Object
implements Cloneable
```

Constructor Summary

public	GXConfig()
--------	----------------------------

Method Summary

void	addVariable(GXVariable variable) Adds a variable to the framework configuration The variable will be used in the internal framework requests to the server.
void	addVariable(String varName, String varValue)
Object	clone()
String	get_ApplicationName() For .NET framework usage.
String	get_Description() For .NET framework usage.
boolean	get_FailOnWarning() For .NET framework usage.
String	get_HostNewPassword() For .NET framework usage.
String	get_HostPassword() For .NET framework usage.
String	get_HostUserName() For .NET framework usage.
String	get_Password() For .NET framework usage.
String	get_ServerURL() For .NET framework usage.

String	get_ServiceName() For .NET framework usage.
String	get_SessionId() For .NET framework usage.
boolean	get_ShowIntermediateScreen() For .NET framework usage.
GXVariable	get_Variable(String varName) For .NET framework usage.
GXVariable[]	get_Variables() For .NET framework usage.
boolean	get_VariablesModified() For .NET framework usage.
String	getApplicationName() The name of the ApplinX application.
String	getDescription() The description of the session in ApplinX server.
String	getHostNewPassword()
String	getHostPassword() The host password.
String	getHostUserName() The host user name for SSH and Natural-Unix protocol only.
String	getPassword() The password to the session in ApplinX server.
GXIApplicationServerContext	getServerContext() For J2EE usage only.
String	getServerURL() The ApplinX server URL, by default it is applinx://localhost:2323.
String	getServiceName() Formally known as host service The connection pool used to get a session.
String	getSessionId() The session ID in ApplinX server.
GXVariable	getVariable(String varName) Returns a variable used by the framework by the specified variable name.
GXVariable[]	getVariables() An array of variables to be passed to the server.
boolean	isFailOnWarning()
boolean	isShowIntermediateScreen() Determines whether to show intermediate host screens.

boolean	isVariablesModified() For internal usage
void	removeVariable (String varName)
void	set_ApplicationName (String applicationName) For .NET framework usage.
void	set_Description (String desc) For .NET framework usage.
void	set_FailOnWarning (boolean failOnWarning) For .NET framework usage.
void	set_HostNewPassword (String hostNewPassword) For .NET framework usage.
void	set_HostPassword (String hostPassword) For .NET framework usage.
void	set_HostUserName (String hostUserName) For .NET framework usage.
void	set_Password (String password) For .NET framework usage.
void	set_ServerURL (String serverURL) For .NET framework usage.
void	set_ServiceName (String serviceName) For .NET framework usage.
void	set_SessionId (String sessionId) For .NET framework usage.
void	set_ShowIntermediateScreen (boolean show) For .NET framework usage.
void	set_Variables (GXVariable[] variables) For .NET framework usage.
void	setApplicationName (String applicationName) The name of the ApplinX application.
void	setDescription (String desc) The description of the session in ApplinX server.
void	setFailOnWarning (boolean failOnWarning)
void	setHostNewPassword (String hostNewPassword)
void	setHostPassword (String hostPassword) The host password.
void	setHostUserName (String hostUserName) The host user name.

void	setPassword (String password) The password required to access a specific session on the ApplinX server.
void	setServerContext (GXIApplicationServerContext serverContext) For J2EE usage only.
void	setServerURL (String serverURL) The ApplinX server URL, by default it is applinx://localhost:2323.
void	setServiceName (String serviceName) Formally known as host service The connection pool used to get a session.
void	setSessionId (String sessionId) The Session ID in the web server.
void	setShowIntermediateScreen (boolean show) Determine whether to show intermediate host screens.
void	setVariables (GXVariable[] variables) An array of variables to be passed to the server.
String	toString ()

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXConfig

```
public GXConfig()
```

Methods

get_ServerURL

```
public String get_ServerURL()
```

For .NET framework usage. Expose the method as a property.

set_ServerURL

```
public void set_ServerURL(String serverURL)
```

For .NET framework usage. Expose the method as a property.

getServerURL

```
public String getServerURL()
```

The ApplinX server URL, by default it is applinx://localhost:2323. For secured SSL socket: applinxs://localhost:23443

Returns:

(continued from last page)

The ApplinX server URL

setServerURL

```
public void setServerURL(String serverURL)
```

The ApplinX server URL, by default it is applinx://localhost:2323. For secured SSL socket: applinxs://localhost:23443

Parameters:

serverURL - The ApplinX server URL

get_SessionId

```
public String get_SessionId()
```

For .NET framework usage. Expose the method as a property.

set_SessionId

```
public void set_SessionId(String sessionId)
```

For .NET framework usage. Expose the method as a property.

getSessionId

```
public String getSessionId()
```

The session ID in ApplinX server.

Returns:

the session ID in ApplinX server

setSessionId

```
public void setSessionId(String sessionId)
```

The Session ID in the web server. Can be set according to the connecting IP address or by an allocated session ID. It is also possible to set the Web Session ID from the code (in the GXBasicContext (JSP)/GXBasicWebForm (.NET) file), overriding the option selected here.

Parameters:

sessionId - the session ID in ApplinX server

get_HostUserName

```
public String get_HostUserName()
```

For .NET framework usage. Expose the method as a property.

set_HostUserName

```
public void set_HostUserName(String hostUserName)
```

For .NET framework usage. Expose the method as a property.

getHostUserName

```
public String getHostUserName()
```

(continued from last page)

The host user name for SSH and Natural-Unix protocol only.

Returns:

The host user name for SSH and Natural-Unix protocol

setHostUserName

```
public void setHostUserName(String hostUserName)
```

The host user name. Relevant for SSH and Natural-Unix protocol only.

Parameters:

hostUserName - the host user name for SSH and Natural-Unix protocol

get_ApplicationName

```
public String get_ApplicationName()
```

For .NET framework usage. Expose the method as a property.

set_ApplicationName

```
public void set_ApplicationName(String applicationName)
```

For .NET framework usage. Expose the method as a property.

getApplicationName

```
public String getApplicationName()
```

The name of the ApplinX application.

Returns:

the name of the ApplinX application

setApplicationName

```
public void setApplicationName(String applicationName)
```

The name of the ApplinX application.

Parameters:

applicationName - the name of the ApplinX application

get_Description

```
public String get_Description()
```

For .NET framework usage. Expose the method as a property.

set_Description

```
public void set_Description(String desc)
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

getDescription

```
public String getDescription()
```

The description of the session in ApplinX server.

Returns:

the description of the session in ApplinX server

setDescription

```
public void setDescription(String desc)
```

The description of the session in ApplinX server. This description appears in the list of sessions in ApplinX Administrator.

The information entered can be dynamic and may include tokens such as:

\$(SESSION_ID) Represents the Web server session ID.

\$(IP) Represents the user IP address.

\$(BY_APPLINX) Represents the ApplinX session ID.

Parameters:

desc - the description of the session in ApplinX server

get_Password

```
public String get_Password()
```

For .NET framework usage. Expose the method as a property.

set_Password

```
public void set_Password(String password)
```

For .NET framework usage. Expose the method as a property.

getPassword

```
public String getPassword()
```

The password to the session in ApplinX server.

Returns:

the password to the session in ApplinX server

setPassword

```
public void setPassword(String password)
```

The password required to access a specific session on the ApplinX server. Can be set according to the connecting IP address or by an allocated session ID. It is also possible to set the password from the code (in the GXBasicContext (JSP)/GXBasicWebForm (.NET) file), overriding the option selected here.

Parameters:

password - the password to the session in ApplinX server

get_HostPassword

```
public String get_HostPassword()
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_HostPassword

```
public void set_HostPassword(String hostPassword)
```

For .NET framework usage. Expose the method as a property.

getHostPassword

```
public String getHostPassword()
```

The host password. Relevant for SSH and Natural-Unix protocol only.

Returns:

the host password for SSH and Natural-Unix protocol only

setHostPassword

```
public void setHostPassword(String hostPassword)
```

The host password. Relevant for SSH and Natural-Unix protocol only.

Parameters:

hostPassword - the host password for SSH and Natural-Unix protocol only

get_ServiceName

```
public String get_ServiceName()
```

For .NET framework usage. Expose the method as a property.

set_ServiceName

```
public void set_ServiceName(String serviceName)
```

For .NET framework usage. Expose the method as a property.

getServiceName

```
public String getServiceName()
```

Formally known as host service

The connection pool used to get a session. When a pool is stated, the framework will connect to the pool instead of using a new session.

Returns:

the connection pool used to get a session

setServiceName

```
public void setServiceName(String serviceName)
```

Formally known as host service

The connection pool used to get a session. When a pool is stated, the framework will connect to the pool instead of using a new session.

Parameters:

(continued from last page)

serviceName - the connection pool used to get a session

getVariables

```
public GXVariable\[\] getVariables()
```

An array of variables to be passed to the server. For example, changing the host address, before creating a new session or application parameters.

Returns:

an array of variables to be passed to the server

See Also:

[GXBaseObjectConstants](#)

get_Variables

```
public GXVariable\[\] get_Variables()
```

For .NET framework usage. Expose the method as a property.

set_Variables

```
public void set_Variables(GXVariable\[\] variables)
```

For .NET framework usage. Expose the method as a property.

setVariables

```
public void setVariables(GXVariable\[\] variables)
```

An array of variables to be passed to the server. For example, changing the host address, before creating a new session or application parameters. The variables will be used in the internal framework requests to the server.

Parameters:

variables - an array of variables to be passed to the server

See Also:

[GXBaseObjectConstants](#)

getVariable

```
public GXVariable getVariable(String varName)
```

Returns a variable used by the framework by the specified variable name. The variable will be used in the internal framework requests to the server.

Returns:

a variable by the specified variable name

addVariable

```
public void addVariable(GXVariable variable)
```

Adds a variable to the framework configuration The variable will be used in the internal framework requests to the server.

(continued from last page)

addVariable

```
public void addVariable(String varName,  
                        String varValue)
```

removeVariable

```
public void removeVariable(String varName)
```

isVariablesModified

```
public boolean isVariablesModified()
```

For internal usage

getServerContext

```
public GXIApplicationServerContext getServerContext()
```

For J2EE usage only. The ApplinX server context when running in local mode.

Returns:

the ApplinX server context when running in local mode

setServerContext

```
public void setServerContext(GXIApplicationServerContext serverContext)
```

For J2EE usage only. The ApplinX server context when running in local mode.

Parameters:

serverContext - the ApplinX server context when running in local mode

isShowIntermediateScreen

```
public boolean isShowIntermediateScreen()
```

Determines whether to show intermediate host screens. Relevant for Natural Set Control N command

Returns:

whether to show host screens

setShowIntermediateScreen

```
public void setShowIntermediateScreen(boolean show)
```

Determine whether to show intermediate host screens. Relevant for Natural Set Control N command.

Parameters:

show - whether to show intermediate host screens

get_ShowIntermediateScreen

```
public boolean get_ShowIntermediateScreen()
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_ShowIntermediateScreen

```
public void set_ShowIntermediateScreen(boolean show)
```

For .NET framework usage. Expose the method as a property.

clone

```
public Object clone()  
    throws CloneNotSupportedException
```

toString

```
public String toString()
```

getHostNewPassword

```
public String getHostNewPassword()
```

setHostNewPassword

```
public void setHostNewPassword(String hostNewPassword)
```

isFailOnWarning

```
public boolean isFailOnWarning()
```

setFailOnWarning

```
public void setFailOnWarning(boolean failOnWarning)
```

get_Variable

```
public GXVariable get_Variable(String varName)
```

For .NET framework usage. Expose the method as a property.

get_VariablesModified

```
public boolean get_VariablesModified()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

get_HostNewPassword

```
public String get_HostNewPassword()
```

For .NET framework usage. Expose the method as a property.

set_HostNewPassword

```
public void set_HostNewPassword(String hostNewPassword)
```

For .NET framework usage. Expose the method as a property.

get_FailOnWarning

```
public boolean get_FailOnWarning()
```

For .NET framework usage. Expose the method as a property.

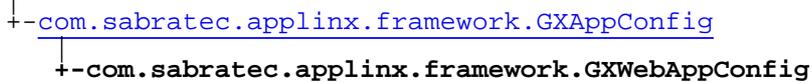
set_FailOnWarning

```
public void set_FailOnWarning(boolean failOnWarning)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework Class GXWebAppConfig

java.lang.Object



All Implemented Interfaces:

Cloneable, java.io.Serializable, java.io.Serializable

public class **GXWebAppConfig**
 extends [GXAppConfig](#)
 implements java.io.Serializable, java.io.Serializable, Cloneable

Constructor Summary

public	GXWebAppConfig()
--------	----------------------------------

Method Summary

void	addBindingToTemplatePart(String fileId) Allows perform binding to a template part.
Object	clone()
boolean	get_addDocTypeToFrameset() For .NET framework usage.
boolean	get_AddJavascript() For .NET framework usage.
boolean	get_AllowTypeAhead() Deprecated. Use <i>gx_container.aspx/jsp emulation frame instead</i>
String[]	get_BoundTemplateParts() For .NET framework usage.
boolean	get_CaptureBrowserClose() For .NET framework usage.
String	get_DocTypeStr() For .NET framework usage.
String	get_DynamicDisableCssClass() For .NET framework usage.
String	get_ExternalCssRequestParamName() For .NET framework usage.
String	get_LogOffForm() For .NET framework usage.

GXNdtConfig	get_NaturalDataTransferConfig() For .NET framework usage.
boolean	get_PromptBeforeSessionTimeout() For .NET framework usage.
String	get_ScreenLocker() For .NET framework usage.
String	get_ScreenLockerText() For .NET framework usage.
boolean	get_SupportPartialPageRendering() Deprecated. <i>Partial page rendering is always supported</i>
String	get_TerminationPath() For .NET framework usage.
boolean	get_UseCache() Deprecated. <i>For .NET framework usage. Expose the method as a property.</i>
boolean	get_UseCalendar() For .NET framework usage.
boolean	get_UseFramesForSubmit() For .NET framework usage.
boolean	get_UseJavaScriptsAsResource() For .NET framework usage.
boolean	get_UseOldJSEngine() For .NET framework usage.
boolean	get_UseScriptsInPage() For .NET framework usage.
boolean	get_UseStateManager() For .NET framework usage.
String	get_VirtualDir() For .NET framework usage.
String	get_WebWindowName() For .NET framework usage.
boolean	get_WritePerformanceLog() For .NET framework usage.
boolean	getAddJavascript() Adds minimal JavaScript to the web page which support basic browser actions
boolean	getAllowTypeAhead() Deprecated. <i>Use gx_container.aspx/jsp emulation frame instead</i>
String[]	getBoundTemplateParts() The template parts may be added one by one by calling the method addTemplatePart or as a list in this method seperated by "," The 2nd options may be used when GXWebAppConfig is read from XML file

boolean	getCaptureBrowserClose() Deprecated. <i>Always performed</i>
String	getDocTypeStr() Determines the doc type parameter that should be added to pages.
String	getDynamicDisableCssClass() The name of the css class that is added to an input field, which changed to read only by the host according to the <code>reflectHostProtected</code> parameter.
String	getExternalCssRequestParamName() Defines an external css request paramater name.
GXIHostKeysTagUserExit	getHostKeysTagUserExit() Defines a user exit for host keys tag(JSP) / control (.NET)
String	getLogOffForm() Detrmine the logoff page of the web application
GXNdtConfig	getNaturalDataTransferConfig() Contains the Natural data transfer configuration
String	getScreenLocker() The purpose of a screen locker is to indicate to the user by means of a message, that the application is processing his request, and blocks him from interfering with the current process by repressing a button/link or keyboard PF/ENTER.
String	getScreenLockerText()
String	getTerminationPath() Defines a termination path to use when the user logs off by either closing the browser, or clicking the logoff link (activates logoff.jsp/asp).
boolean	getUseCache() Determines whether to allow the back button in the browser.
boolean	getUseStateManager() Not internal usage
String	getVirtualDir() Determines the virtual directory used for the project.
String	getWebWindowName() Determines the ApplinX web window name.
boolean	getWritePerformanceLog() Determines whether to create a performance log. The performance monitor is used for analyzing framework performance.
boolean	isAddDocTypeToFrameset() Determines if to add the doc type parameter to the pages.
boolean	isPromptBeforeSessionTimeOut() Set to true to display a message indicating to the user that that the session is about to be disconnected.
boolean	isSupportPartialPageRendering() Deprecated. <i>Partial page rendering is always supported</i>

boolean	isUseCalendar()
boolean	isUseFramesForSubmit() This feature prevents the displayed page from flickering every time the page is submitted.
boolean	isUseJavaScriptsAsResource() For internal use
boolean	isUseOldJSEngine() For internal use
boolean	isUseScriptsInPage() Determines if to add framework scripts to each page.
void	set_AddDocTypeToFrameset (boolean addDocTypeToFrameset) For .NET framework usage.
void	set_AddJavascript (boolean addJavascript) For .NET framework usage.
void	set_AllowTypeAhead (boolean allowTypeAhead) Deprecated. Use <i>gx_container.aspx/jsp emulation frame instead</i>
void	set_CaptureBrowserClose (boolean captureBrowserClose) For .NET framework usage.
void	set_DocTypeStr (String docTypeStr) For .NET framework usage.
void	set_DynamicDisableCssClass (String dynamicDisableCssClass) For .NET framework usage.
void	set_ExternalCssRequestParamName (String externalCssRequestParamName) For .NET framework usage.
void	set_LogOffForm (String logOffForm) For .NET framework usage.
void	set_NaturalDataTransferConfig (GXNdtConfig naturalDataTransferConfig) For internal use
void	set_PromptBeforeSessionTimeOut (boolean promptBeforeSessionTimeOut) For .NET framework usage.
void	set_ScreenLocker (String screenLockerPage) For .NET framework usage.
void	set_ScreenLockerText (String screenLockerPage) For .NET framework usage.
void	set_SupportPartialPageRendering (boolean supportPartialPageRendering1) Deprecated. <i>Partial page rendering is always supported</i>
void	set_TerminationPath (String terminationPath) For .NET framework usage.
void	set_UseCache (boolean useCache) For .NET framework usage.

void	set_UseCalendar (boolean useCalendar) For .NET framework usage.
void	set_UseFramesForSubmit (boolean useFramesForSubmit) For .NET framework usage.
void	set_UseJavaScriptsAsResource (boolean useJavaScriptsAsResource) For .NET framework usage.
void	set_UseOldJSEngine (boolean useOldJSEngine) For .NET framework usage.
void	set_UseScriptsInPage (boolean useScriptsInPage) For .NET framework usage.
void	set_UseStateManager (boolean useStateManager) For .NET framework usage.
void	set_VirtualDir (String virtualDir) For .NET framework usage.
void	set_WebWindowName (String webWindowName) For .NET framework usage.
void	set_WritePerformanceLog (boolean writePerformanceLog) For .NET framework usage.
void	setAddDocTypeToFrameset (boolean addDocTypeToFrameset) Determines if to add the doc type parameter to the pages.
void	setAddJavascript (boolean addJavascript) Adds minimal JavaScript to the web page which support basic browser actions
void	setAllowTypeAhead (boolean allowTypeAhead) Deprecated. Use <i>gx_container.aspx/jsp emulation frame</i> instead
void	setCaptureBrowserClose (boolean captureBrowserClose) Deprecated. Always performed
void	setDocTypeStr (String docTypeStr) Determines the doc type parameter that should be added to pages.
void	setDynamicDisableCssClass (String dynamicDisableCssClass) The css class that is used to give a different look to a read-only input field, which becomes read-only according to the value of the ReflectHostProtected parameter.
void	setExternalCssRequestParamName (String externalCssRequestParamName) Defines an external css request paramater name.
void	setHostKeysTagUserExit (GXIHostKeysTagUserExit hostKeysTagUserExit) Defines a user exit for host keys tag(JSP) / control (.NET)
void	setLogOffForm (String logOffForm) Detrmine the logoff page of the web application
void	setNaturalDataTransferConfig (GXNdtConfig naturalDataTransferConfig) For internal use

void	setPromptBeforeSessionTimeout (boolean promptBeforeSessionTimeout) Set to true to display a message indicating to the user that that the session is about to be disconnected.
void	setScreenLocker (String screenLockerPage) The purpose of a screen locker is to indicate to the user by means of a message, that the application is processing his request, and blocks him from interfering with the current process by repressing a button/link or keyboard PF/ENTER.
void	setScreenLockerText (String screenLockerText)
void	setSupportPartialPageRendering (boolean supportPartialPageRendering) Deprecated. <i>Partial page rendering is always supported</i>
void	setTerminationPath (String terminationPath) Defines a termination path to use when the user logs off by either closing the browser, or clicking the logoff link (activates logoff.jsp/asp).x).
void	setUseCache (boolean useCache) Determines whether to allow the back button in the browser.
void	setUseCalendar (boolean useCalendar)
void	setUseFramesForSubmit (boolean useFramesForSubmit) This feature prevents the displayed page from flickering every time the page is submitted.
void	setUseJavaScriptsAsResource (boolean useJavaScriptsAsResource) For internal use
void	setUseOldJSEngine (boolean useOldJSEngine) For internal use
void	setUseScriptsInPage (boolean useScriptsInPage) Determines if to add framework scripts to each page.
void	setUseStateManager (boolean useStateManager) Not internal usage
void	setVirtualDir (String virtualDir) Determines the virtual directory used for the project.
void	setWebWindowName (String webWindowName) Determines the ApplinX web window name.
void	setWritePerformanceLog (boolean writePerformanceLog) Determines whether to create a performance log. The performance monitor is used for analyzing framework performance.

Methods inherited from class [com.sabratec.applinx.framework.GXAppConfig](#)

[get_Build](#), [get_CaptureTagsEvents](#), [get_DesignMode](#), [get_ErrorForm](#),
[get_FieldsModification](#), [get_FieldTypesInUse](#), [get_FtpConfig](#), [get_IndexForm](#),
[get_Instant](#), [get_InstantConfig](#), [get_InstantForm](#), [get_InstantWinForm](#), [get_IsInstant](#),
[get_MacroConfig](#), [get_MapPath](#), [get_PerformSyncCheckInInstant](#), [get_ProceduresConfig](#),
[get_ReflectBGColors](#), [get_ReflectEmulationBehaviour](#), [get_ReflectFGColors](#),
[get_ReflectHostCursor](#), [get_ReflectHostProtected](#), [get_ReflectMaxlength](#),
[get_SessionConfig](#), [get_SingleSignOnConfig](#), [get_SsoConfig](#), [get_SupportDupAndFieldMark](#),
[get_TableBuildConfig](#), [get_TrimLabels](#), [get_UseFolders](#), [get_UseKeyboardPFKeys](#),
[get_UseModalWindows](#), [get_UseScreenGroups](#), [get_Version](#), [getBuild](#),
[getCaptureTagsEvents](#), [getDesignMode](#), [getErrorForm](#), [getFieldsModification](#),
[getFieldTypesInUse](#), [getFtpConfig](#), [getIndexForm](#), [getInstantConfig](#), [getInstantForm](#),
[getInstantWinForm](#), [getMacroConfig](#), [getMapPath](#), [getPerformSyncCheckInInstant](#),
[getProceduresConfig](#), [getReflectBGColors](#), [getReflectEmulationBehaviour](#),
[getReflectFGColors](#), [getReflectHostCursor](#), [getReflectHostProtected](#),
[getReflectMaxlength](#), [getSessionConfig](#), [getSingleSignOnConfig](#),
[getSupportDupAndFieldMark](#), [getTableBuildConfig](#), [getTrimLabels](#), [getUseFolders](#),
[getUseKeyboardPFKeys](#), [getUseModalWindows](#), [getUseScreenGroups](#), [getVersion](#), [isInstant](#),
[set_CaptureTagsEvents](#), [set_DesignMode](#), [set_ErrorForm](#), [set_FieldsModification](#),
[set_FieldTypesInUse](#), [set_FtpConfig](#), [set_IndexForm](#), [set_Instant](#), [set_InstantConfig](#),
[set_InstantForm](#), [set_InstantWinForm](#), [set_IsInstant](#), [set_MacroConfig](#), [set_MapPath](#),
[set_PerformSyncCheckInInstant](#), [set_ProceduresConfig](#), [set_ReflectBGColors](#),
[set_ReflectEmulationBehaviour](#), [set_ReflectFGColors](#), [set_ReflectHostCursor](#),
[set_ReflectHostProtected](#), [set_ReflectMaxlength](#), [set_SessionConfig](#),
[set_SingleSignOnConfig](#), [set_SsoConfig](#), [set_SupportDupAndFieldMark](#),
[set_TableBuildConfig](#), [set_TrimLabels](#), [set_UseFolders](#), [set_UseKeyboardPFKeys](#),
[set_UseModalWindows](#), [set_UseScreenGroups](#), [setCaptureTagsEvents](#), [setDesignMode](#),
[setErrorForm](#), [setFieldsModification](#), [setFieldTypesInUse](#), [setFtpConfig](#), [setIndexForm](#),
[setInstantConfig](#), [setInstantForm](#), [setInstantWinForm](#), [setIsInstant](#), [setMacroConfig](#),
[setMapPath](#), [setPerformSyncCheckInInstant](#), [setProceduresConfig](#), [setReflectBGColors](#),
[setReflectEmulationBehaviour](#), [setReflectFGColors](#), [setReflectHostCursor](#),
[setReflectHostProtected](#), [setReflectMaxlength](#), [setSessionConfig](#),
[setSingleSignOnConfig](#), [setSupportDupAndFieldMark](#), [setTableBuildConfig](#), [setTrimLabels](#),
[setUseFolders](#), [setUseKeyboardPFKeys](#), [setUseModalWindows](#), [setUseScreenGroups](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXWebAppConfig

```
public GXWebAppConfig()
```

Methods

get_UseCache

```
public boolean get_UseCache()
```

Deprecated. For .NET framework usage. Expose the method as a property.

set_UseCache

```
public void set_UseCache(boolean useCache)
```

For .NET framework usage. Expose the method as a property.

getUseCache

```
public boolean getUseCache()
```

Determines whether to allow the back button in the browser. If it is false, pressing back will get the previous page from the browser cache.

Returns:

whether to allow the back button in the browser

setUseCache

```
public void setUseCache(boolean useCache)
```

Determines whether to allow the back button in the browser. If it is false, pressing back will get the previous page from the browser cache.

Parameters:

useCache - whether to allow the back button in the browser

get_VirtualDir

```
public String get_VirtualDir()
```

For .NET framework usage. Expose the method as a property.

set_VirtualDir

```
public void set_VirtualDir(String virtualDir)
```

For .NET framework usage. Expose the method as a property.

getVirtualDir

```
public String getVirtualDir()
```

Determines the virtual directory used for the project. Should be without any slashes. Needs to be set only if useFolders is true. For a site the value should be empty string.

Returns:

the virtual directory used for the project

setVirtualDir

```
public void setVirtualDir(String virtualDir)
```

Determines the virtual directory used for the project. Should be without any slashes. Needs to be set only if useFolders is true. For a site the value should be empty string.

Parameters:

virtualDir - the virtual directory used for the project

get_AllowTypeAhead

```
public boolean get_AllowTypeAhead()
```

Deprecated. Use *gx_container.aspx/jsp emulation frame* instead

set_AllowTypeAhead

```
public void set_AllowTypeAhead(boolean allowTypeAhead)
```

Deprecated. Use *gx_container.aspx/jsp emulation frame* instead

getAllowTypeAhead

```
public boolean getAllowTypeAhead()
```

Deprecated. Use *gx_container.aspx/jsp emulation frame* instead

setAllowTypeAhead

```
public void setAllowTypeAhead(boolean allowTypeAhead)
```

Deprecated. Use *gx_container.aspx/jsp emulation frame* instead

get_LogOffForm

```
public String get_LogOffForm()
```

For .NET framework usage. Expose the method as a property.

set_LogOffForm

```
public void set_LogOffForm(String logOffForm)
```

For .NET framework usage. Expose the method as a property.

getLogOffForm

```
public String getLogOffForm()
```

Determine the logoff page of the web application

Returns:

the logoff page of the web application

setLogOffForm

```
public void setLogOffForm(String logOffForm)
```

Determine the logoff page of the web application

(continued from last page)

Parameters:

logOffForm - the logoff page of the web application

get_UseStateManager

```
public boolean get_UseStateManager()
```

For .NET framework usage. Expose the method as a property.

set_UseStateManager

```
public void set_UseStateManager(boolean useStateManager)
```

For .NET framework usage. Expose the method as a property.

getUseStateManager

```
public boolean getUseStateManager()
```

Not internal usage

setUseStateManager

```
public void setUseStateManager(boolean useStateManager)
```

Not internal usage

get_ScreenLocker

```
public String get_ScreenLocker()
```

For .NET framework usage. Expose the method as a property.

set_ScreenLocker

```
public void set_ScreenLocker(String screenLockerPage)
```

For .NET framework usage. Expose the method as a property.

getScreenLocker

```
public String getScreenLocker()
```

The purpose of a screen locker is to indicate to the user by means of a message, that the application is processing his request, and blocks him from interfering with the current process by repressing a button/link or keyboard PF/ENTER. To activate the screen locker first select the Use screen locker check box and then access the template/screenLocker.htm file and use the width/height percentages to control the location of the message. Replace the text "Please wait" with an alternative text/image as required.

Refer to the documentation for further details.

Returns:

the screen locker file name

setScreenLocker

```
public void setScreenLocker(String screenLockerPage)
```

(continued from last page)

The purpose of a screen locker is to indicate to the user by means of a message, that the application is processing his request, and blocks him from interfering with the current process by repressing a button/link or keyboard PF/ENTER. To activate the screen locker first select the Use screen locker check box and then access the template/screenLocker.htm file and use the width/height percentages to control the location of the message. Replace the text "Please wait" with an alternative text/image as required.

Refer to the documentation for further details.

Parameters:

screenLockerPage - the screen locker file name.

getScreenLockerText

```
public String getScreenLockerText()
```

setScreenLockerText

```
public void setScreenLockerText(String screenLockerText)
```

get_DynamicDisableCssClass

```
public String get_DynamicDisableCssClass()
```

For .NET framework usage. Expose the method as a property.

set_DynamicDisableCssClass

```
public void set_DynamicDisableCssClass(String dynamicDisableCssClass)
```

For .NET framework usage. Expose the method as a property.

getDynamicDisableCssClass

```
public String getDynamicDisableCssClass()
```

The name of the css class that is added to an input field, which changed to read only by the host according to the reflectHostProtected parameter. Used for giving a different look to this type of input field.

Returns:

the name of the css class that is added to an input field which is read only in the current screen

setDynamicDisableCssClass

```
public void setDynamicDisableCssClass(String dynamicDisableCssClass)
```

The css class that is used to give a different look to a read-only input field, which becomes read-only according to the value of the ReflectHostProtected parameter.

Parameters:

dynamicDisableCssClass - the name of the css class that is added to an input field

get_CaptureBrowserClose

```
public boolean get_CaptureBrowserClose()
```

For .NET framework usage. Expose the method as a property.

set_CaptureBrowserClose

```
public void set_CaptureBrowserClose(boolean captureBrowserClose)
```

For .NET framework usage. Expose the method as a property.

getCaptureBrowserClose

```
public boolean getCaptureBrowserClose()
```

Deprecated. *Always performed*

When inheriting from GXBasicWebForm (.NET) / GXBasicContext (JSP), ApplinX full JavaScript is not added to the page. This causes the page not to have the ability to capture the browser close event in the client side configuration. In this case, this parameter adds the functionality of capturing the browser close and closing the host session.

Returns:

whether the framework is capturing the browser close and closing the host session

setCaptureBrowserClose

```
public void setCaptureBrowserClose(boolean captureBrowserClose)
```

Deprecated. *Always performed*

When inheriting from GXBasicWebForm (.NET) / GXBasicContext (JSP), ApplinX full JavaScript is not added to the page. This causes the page not to have the ability to capture the browser close event in the client side configuration. In this case, this parameter adds the functionality of capturing the browser close and closing the host session.

Parameters:

captureBrowserClose - whether the framework is capturing the browser close and closing the host session

get_AddJavascript

```
public boolean get_AddJavascript()
```

For .NET framework usage. Expose the method as a property.

set_AddJavascript

```
public void set_AddJavascript(boolean addJavascript)
```

For .NET framework usage. Expose the method as a property.

getAddJavascript

```
public boolean getAddJavascript()
```

Adds minimal JavaScript to the web page which support basic browser actions

Returns:

whether minimal JavaScript is added to the web page

setAddJavascript

```
public void setAddJavascript(boolean addJavascript)
```

Adds minimal JavaScript to the web page which support basic browser actions

(continued from last page)

Parameters:

addJavascript - whether minimal JavaScript is added to the web page

get_WritePerformanceLog

```
public boolean get_WritePerformanceLog()
```

For .NET framework usage. Expose the method as a property.

set_WritePerformanceLog

```
public void set_WritePerformanceLog(boolean writePerformanceLog)
```

For .NET framework usage. Expose the method as a property.

getWritePerformanceLog

```
public boolean getWritePerformanceLog()
```

Determines whether to create a performance log.

The performance monitor is used for analyzing framework performance.

It writes log comments for every framework request.

A performance log line contains the following data: Session Id, Screen Name, total request time, total server side divided into: attach, sendKeys, instant generation, detach, total page client load time.

Returns:

whether to create a performance log

setWritePerformanceLog

```
public void setWritePerformanceLog(boolean writePerformanceLog)
```

Determines whether to create a performance log.

The performance monitor is used for analyzing framework performance.

It writes log comments for every framework request.

A performance log line contains the following data: Session Id, Screen Name, total request time, total server side divided into: attach, sendKeys, instant generation, detach, total page client load time.

Parameters:

writePerformanceLog - whether to create a performance log

addBindingToTemplatePart

```
public void addBindingToTemplatePart(String fileId)
```

Allows perform binding to a template part.

Parameters:

fileId - The name of the include file to bind to the current screen. "pageheader" for example.

getBoundTemplateParts

```
public String[] getBoundTemplateParts()
```

The template parts may be added one by one by calling the method addTemplatePart or as a list in this method separated by "," The 2nd options may be used when GXWebAppConfig is read from XML file

Returns:

getExternalCssRequestParamName

```
public String getExternalCssRequestParamName()
```

Defines an external css request paramater name. Used for portal integration. A portal application may provide to the framework as a query string a css URL as follows: http://?cssurl= ("cssurl" will be the value of the field in this case)

Returns:

an external css request paramater name

setExternalCssRequestParamName

```
public void setExternalCssRequestParamName(String externalCssRequestParamName)
```

Defines an external css request paramater name. Used for portal integration. A portal application may provide to the framework as a query string a css URL as follows: http://?cssurl= ("cssurl" will be the value of the field in this case)

Parameters:

externalCssRequestParamName

get_ExternalCssRequestParamName

```
public String get_ExternalCssRequestParamName()
```

For .NET framework usage. Expose the method as a property.

set_ExternalCssRequestParamName

```
public void set_ExternalCssRequestParamName(String externalCssRequestParamName)
```

For .NET framework usage. Expose the method as a property.

get_NaturalDataTransferConfig

```
public GXNdtConfig get_NaturalDataTransferConfig()
```

For .NET framework usage. Expose the method as a property.

getNaturalDataTransferConfig

```
public GXNdtConfig getNaturalDataTransferConfig()
```

Contains the Natural data transfer configuration

Returns:

the Natural data transfer configuration

set_NaturalDataTransferConfig

```
public void set_NaturalDataTransferConfig(GXNdtConfig naturalDataTransferConfig)
```

For internal use

setNaturalDataTransferConfig

```
public void setNaturalDataTransferConfig(GXNdtConfig naturalDataTransferConfig)
```

For internal use

clone

```
public Object clone()
```

isUseOldJSEngine

```
public boolean isUseOldJSEngine()
```

For internal use

setUseOldJSEngine

```
public void setUseOldJSEngine(boolean useOldJSEngine)
```

For internal use

isUseJavaScriptsAsResource

```
public boolean isUseJavaScriptsAsResource()
```

For internal use

setUseJavaScriptsAsResource

```
public void setUseJavaScriptsAsResource(boolean useJavaScriptsAsResource)
```

For internal use

get_UseJavaScriptsAsResource

```
public boolean get_UseJavaScriptsAsResource()
```

For .NET framework usage. Expose the method as a property.

set_UseJavaScriptsAsResource

```
public void set_UseJavaScriptsAsResource(boolean useJavaScriptsAsResource)
```

For .NET framework usage. Expose the method as a property.

isUseScriptsInPage

```
public boolean isUseScriptsInPage()
```

Determines if to add framework scripts to each page. Otherwise the application will work from an z_container.aspx/jsp frameset

Returns:

is adding framework scripts to each page

setUseScriptsInPage

```
public void setUseScriptsInPage(boolean useScriptsInPage)
```

(continued from last page)

Determines if to add framework scripts to each page. Otherwise the application will work from an z_container.aspx/jsp frameset

Parameters:

useScriptsInPage - if to add framework scripts to each page

get_UseScriptsInPage

```
public boolean get_UseScriptsInPage()
```

For .NET framework usage. Expose the method as a property.

set_UseScriptsInPage

```
public void set_UseScriptsInPage(boolean useScriptsInPage)
```

For .NET framework usage. Expose the method as a property.

isUseFramesForSubmit

```
public boolean isUseFramesForSubmit()
```

This feature prevents the displayed page from flickering every time the page is submitted. This affect is prevented by using two separate frames, while only one is visible at each stage. These frames continuously switch between being active and passive each time a page is submitted. The active frame is displayed, and every time a page is submitted, the frame becomes the passive frame, in this way preventing the flickering affect. When the modal window feature is enabled in the Framework Configuration Editor or the 'Enable Natural-Data-transfer support' is enabled in the host, this feature is automatically enabled even if this parameter is not selected.

setUseFramesForSubmit

```
public void setUseFramesForSubmit(boolean useFramesForSubmit)
```

This feature prevents the displayed page from flickering every time the page is submitted. This affect is prevented by using two separate frames, while only one is visible at each stage. These frames continuously switch between being active and passive each time a page is submitted. The active frame is displayed, and every time a page is submitted, the frame becomes the passive frame, in this way preventing the flickering affect. When the modal window feature is enabled in the Framework Configuration Editor or the 'Enable Natural-Data-transfer support' is enabled in the host, this feature is automatically enabled even if this parameter is not selected.

Parameters:

useFramesForSubmit

isUseCalendar

```
public boolean isUseCalendar()
```

setUseCalendar

```
public void setUseCalendar(boolean useCalendar)
```

isPromptBeforeSessionTimeOut

```
public boolean isPromptBeforeSessionTimeOut()
```

(continued from last page)

Set to true to display a message indicating to the user that that the session is about to be disconnected. This message will be displayed towards the end of the Non-activity timeout period (defined in the Application Properties Host tab). The user will be able to select to resume or quit the session. When not selecting either of these options, the user will be logged off automatically. It is possible to customize the relevant prompt page (template/logoffPrompt.htm).

Returns:

isPromptBeforeSessionTimeOut

setPromptBeforeSessionTimeOut

```
public void setPromptBeforeSessionTimeOut(boolean promptBeforeSessionTimeOut)
```

Set to true to display a message indicating to the user that that the session is about to be disconnected. This message will be displayed towards the end of the Non-activity timeout period (defined in the Application Properties Host tab). The user will be able to select to resume or quit the session. When not selecting either of these options, the user will be logged off automatically. It is possible to customize the relevant prompt page (template/logoffPrompt.htm).

Parameters:

promptBeforeSessionTimeOut

get_PromptBeforeSessionTimeOut

```
public boolean get_PromptBeforeSessionTimeOut()
```

For .NET framework usage. Expose the method as a property.

set_PromptBeforeSessionTimeOut

```
public void set_PromptBeforeSessionTimeOut(boolean promptBeforeSessionTimeOut)
```

For .NET framework usage. Expose the method as a property.

getTerminationPath

```
public String getTerminationPath()
```

Defines a termination path to use when the user logs off by either closing the browser, or clicking the logoff link (activates logoff.jsp/aspx).

Returns:

termination path

setTerminationPath

```
public void setTerminationPath(String terminationPath)
```

Defines a termination path to use when the user logs off by either closing the browser, or clicking the logoff link (activates logoff.jsp/aspx).

Parameters:

terminationPath

getHostKeysTagUserExit

```
public GXIHostKeysTagUserExit getHostKeysTagUserExit()
```

Defines a user exit for host keys tag(JSP) / control (.NET)

Returns:

setHostKeysTagUserExit

```
public void setHostKeysTagUserExit(GXIHostKeysTagUserExit hostKeysTagUserExit)
```

Defines a user exit for host keys tag(JSP) / control (.NET)

Parameters:

HostKeysTagUserExit

isSupportPartialPageRendering

```
public boolean isSupportPartialPageRendering()
```

Deprecated. *Partial page rendering is always supported*

Partial Page Rendering (PPR) is a feature that allows a part of a page to be redrawn rather than having to reload the entire page. You can add server side buttons/links and perform logic on the target server function, and as a result update only a part of the page. Typical use: Paging, sorting, collecting aggregated data from a few screens into the same web page, and more. To implement the feature first select the Support Partial Page Rendering check box and then add a button/link which performs a server side action. Create a wrapping tag (div) to the web page, in the area you want to update and add the required JavaScript code to the link/button (Refer to the documentation for details).

Returns:

setSupportPartialPageRendering

```
public void setSupportPartialPageRendering(boolean supportPartialPageRendering1)
```

Deprecated. *Partial page rendering is always supported*

Partial Page Rendering (PPR) is a feature that allows a part of a page to be redrawn rather than having to reload the entire page. You can add server side buttons/links and perform logic on the target server function, and as a result update only a part of the page. Typical use: Paging, sorting, collecting aggregated data from a few screens into the same web page, and more. To implement the feature first select the Support Partial Page Rendering check box and then add a button/link which performs a server side action. Create a wrapping tag (div) to the web page, in the area you want to update and add the required JavaScript code to the link/button (Refer to the documentation for details).

Parameters:

supportPartialPageRendering1

getWebWindowName

```
public String getWebWindowName()
```

Determines the ApplinX web window name. Useful for activating the web application from an external link which targets to this given name, and avoids opening multiple browsers from this link

Returns:

window name

setWebWindowName

```
public void setWebWindowName(String webWindowName)
```

Determines the ApplinX web window name. Useful for activating the web application from an external link which targets to this given name, and avoids opening multiple browsers from this link

Parameters:

webWindowName

get_ScreenLockerText

```
public String get_ScreenLockerText()
```

For .NET framework usage. Expose the method as a property.

set_ScreenLockerText

```
public void set_ScreenLockerText(String screenLockerPage)
```

For .NET framework usage. Expose the method as a property.

get_BoundTemplateParts

```
public String[] get_BoundTemplateParts()
```

For .NET framework usage. Expose the method as a property.

get_UseOldJSEngine

```
public boolean get_UseOldJSEngine()
```

For .NET framework usage. Expose the method as a property.

set_UseOldJSEngine

```
public void set_UseOldJSEngine(boolean useOldJSEngine)
```

For .NET framework usage. Expose the method as a property.

get_UseFramesForSubmit

```
public boolean get_UseFramesForSubmit()
```

For .NET framework usage. Expose the method as a property.

set_UseFramesForSubmit

```
public void set_UseFramesForSubmit(boolean useFramesForSubmit)
```

For .NET framework usage. Expose the method as a property.

get_UseCalendar

```
public boolean get_UseCalendar()
```

For .NET framework usage. Expose the method as a property.

set_UseCalendar

```
public void set_UseCalendar(boolean useCalendar)
```

For .NET framework usage. Expose the method as a property.

get_TerminationPath

```
public String get_TerminationPath()
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_TerminationPath

```
public void set_TerminationPath(String terminationPath)
```

For .NET framework usage. Expose the method as a property.

get_SupportPartialPageRendering

```
public boolean get_SupportPartialPageRendering()
```

Deprecated. *Partial page rendering is always supported*

For .NET framework usage. Expose the method as a property.

set_SupportPartialPageRendering

```
public void set_SupportPartialPageRendering(boolean supportPartialPageRendering1)
```

Deprecated. *Partial page rendering is always supported*

For .NET framework usage. Expose the method as a property.

get_WebWindowName

```
public String get_WebWindowName()
```

For .NET framework usage. Expose the method as a property.

set_WebWindowName

```
public void set_WebWindowName(String webWindowName)
```

For .NET framework usage. Expose the method as a property.

setAddDocTypeToFrameset

```
public void setAddDocTypeToFrameset(boolean addDocTypeToFrameset)
```

Determines if to add the doc type parameter to the pages.

Parameters:

addDocTypeToFrameset

isAddDocTypeToFrameset

```
public boolean isAddDocTypeToFrameset()
```

Determines if to add the doc type parameter to the pages.

Returns:

whether to add a doc type to frame set or not.

set_AddDocTypeToFrameset

```
public void set_AddDocTypeToFrameset(boolean addDocTypeToFrameset)
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

get_addDocTypeToFrameset

```
public boolean get_addDocTypeToFrameset()
```

For .NET framework usage. Expose the method as a property.

setDocTypeStr

```
public void setDocTypeStr(String docTypeStr)
```

Determines the doc type parameter that should be added to pages. The value should be exactly as it should be saved in the html. example .

Parameters:

docTypeStr

getDocTypeStr

```
public String getDocTypeStr()
```

Determines the doc type parameter that should be added to pages. The value should be exactly as it should be saved in the html. example .

Returns:

the doc type parameter.

set_DocTypeStr

```
public void set_DocTypeStr(String docTypeStr)
```

For .NET framework usage. Expose the method as a property.

get_DocTypeStr

```
public String get_DocTypeStr()
```

For .NET framework usage. Expose the method as a property.

Package

**com.sabratec.applinx.framework.config.
doc**

com.sabratec.applinx.framework.config.doc Class GXLogNode

java.lang.Object

└─com.sabratec.applinx.framework.config.doc.GXLogNode

public class **GXLogNode**
extends Object

The Framework Log lists the errors and exceptions and can then be used to debug the framework.

Field Summary

public	AppendFile This parameter determines whether to start the log in a new file or to append the log to the existing file.
public	FileName The framework's log is written to this file.
public	LogHistory The number of backups saved before overwriting the old log files.
public	LogLevel The contents of the log file are as detailed as this property defines, where every level includes the levels above it.
public	MaxFileSize A new log file will be started after the current file has been filled to the maximum file size.

Constructor Summary

public	GXLogNode()
--------	-----------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

FileName

public java.lang.String **FileName**

The framework's log is written to this file.

AppendFile

public java.lang.String **AppendFile**

This parameter determines whether to start the log in a new file or to append the log to the existing file.

LogLevel

```
public java.lang.String LogLevel
```

The contents of the log file are as detailed as this property defines, where every level includes the levels above it. For example, the Debug level also logs Normal, Warnings and Errors Only levels. Available values: Normal, Warnings, Errors only, Debug (by default Normal is selected).

LogHistory

```
public java.lang.String LogHistory
```

The number of backups saved before overwriting the old log files.
For example: 10 means save the last 10 log files, in addition to the current one, then start to overwrite. Default value is 10.

MaxFileSize

```
public java.lang.String MaxFileSize
```

A new log file will be started after the current file has been filled to the maximum file size.

Constructors

GXLogNode

```
public GXLogNode()
```

com.sabratec.applinx.framework.config.doc Class GXPerformanceMonitorNode

java.lang.Object

└-com.sabratec.applinx.framework.config.doc.GXPerformanceMonitorNode

public class **GXPerformanceMonitorNode**
extends Object

The Performance Monitor monitors user actions and is used for analyzing framework performance. It includes log comments for every framework request. A performance log line contains the following data: Session Id, Screen Name, total request time, total server side divided into: attach, sendKeys, instant generation, detach, total page client load time. Note: Framework performance is recorded only for Instant pages and for generated pages that include PF/ENTER keys. Custom code mapped to server side buttons/links cannot be monitored. The Performance monitor is typically used in Web enabled applications.

Field Summary

public	FileName The name of the file where the performance log will be saved.
public	PerSessionID Determines whether separate files will be saved for each session.
public	ShortLongDescription Determines whether to write a short description, or a detailed description.
public	TraceSessions Determines whether to trace all sessions or only a specific session.
public	TraceSessionsIDs Enter the IDs of the specific sessions that you wish to trace.

Constructor Summary

public	GXPerformanceMonitorNode()
--------	--------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

FileName

public java.lang.String **FileName**

The name of the file where the performance log will be saved.

PerSessionID

public java.lang.String **PerSessionID**

(continued from last page)

Determines whether separate files will be saved for each session.

TraceSessions

```
public java.lang.String TraceSessions
```

Determines whether to trace all sessions or only a specific session.

TraceSessionsIDs

```
public java.lang.String TraceSessionsIDs
```

Enter the IDs of the specific sessions that you wish to trace. Separate the session IDs by a comma.

ShortLongDescription

```
public java.lang.String ShortLongDescription
```

Determines whether to write a short description, or a detailed description. A short description means that the information is displayed in a tabular structure. A detailed description displays the information as a paragraph.

Constructors

GXPerformanceMonitorNode

```
public GXPerformanceMonitorNode()
```

Package

com.sabratec.applinx.framework.emulation.ftp.dialog

com.sabratec.applinx.framework.emulation.ftp.dialog

Class GXFtpConfig

java.lang.Object

└-com.sabratec.applinx.framework.emulation.ftp.dialog.GXFtpConfig

All Implemented Interfaces:

java.io.Serializable

```
public class GXFtpConfig
extends Object
implements java.io.Serializable
```

In ApplinX framework, it is possible to transfer files from the client to the host or from the host to the client, using the FTP dialog screens. The HTML emulation contains a link in the footer that opens an FTP Web dialog box. To upload/download files using the FTP option, you need to configure the following parameters.

Refer to the ApplinX Frameworks Developer's Guide for details regarding how to implement this feature.

Field Summary

public static final	AS400 Value: 2
public static final	BY_APPLINX Value: 999
public static final	MAIN_FRAME Value: 1
public static final	SIMPLE Value: 0

Constructor Summary

public	GXFtpConfig()
--------	-------------------------------

Method Summary

String	get_HostAddress() For .NET framework usage.
String	get_HostType() For .NET framework usage.
String	getHostAddress()
String	getHostType()

void	set_HostAddress (String hostAddress) For .NET framework usage.
void	set_HostType (String hostType) For .NET framework usage.
void	setHostAddress (String hostAddress) Sets the IP address of the remote FTP host.
void	setHostType (String hostType) Sets the type of the remote FTP host.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

SIMPLE

```
public static final java.lang.String SIMPLE
```

Constant value: **0**

MAIN_FRAME

```
public static final java.lang.String MAIN_FRAME
```

Constant value: **1**

AS400

```
public static final java.lang.String AS400
```

Constant value: **2**

BY_APPLINX

```
public static final java.lang.String BY_APPLINX
```

Constant value: **999**

Constructors

GXFtpConfig

```
public GXFtpConfig()
```

Methods

(continued from last page)

getHostType

```
public String getHostType()
```

setHostType

```
public void setHostType(String hostType)
```

Sets the type of the remote FTP host.
Possible values are:

- Mainframe
- AS400
- Other - for any other kind
- By Applinx - when the FTP host is the same as the host used in the current ApplinX session.

Parameters:

hostType

get_HostType

```
public String get_HostType()
```

For .NET framework usage. Expose the method as a property.

set_HostType

```
public void set_HostType(String hostType)
```

For .NET framework usage. Expose the method as a property.

getHostAddress

```
public String getHostAddress()
```

setHostAddress

```
public void setHostAddress(String hostAddress)
```

Sets the IP address of the remote FTP host.

Parameters:

hostAddress

get_HostAddress

```
public String get_HostAddress()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

set_HostAddress

```
public void set_HostAddress(String hostAddress)
```

For .NET framework usage. Expose the method as a property.

Package

com.sabratec.applinx.framework.emulation.macros

com.sabratec.applinx.framework.emulation.macros

Class GXMacroConfig

java.lang.Object

└-com.sabratec.applinx.framework.emulation.macros.GXMacroConfig

All Implemented Interfaces:

java.io.Serializable

```
public class GXMacroConfig
extends Object
implements java.io.Serializable
```

Applinx emulation framework contains a built-in utility that allows end users to record macros just like in a standard emulation. The macros are saved on the Web server side in an encrypted (by default) xml file per user.

Constructor Summary

public	GXMacroConfig()
--------	---------------------------------

Method Summary

boolean	get_EncryptData() For .NET framework usage.
long	get_Flicker() For .NET framework usage.
String	get_MacrosFolder() For .NET framework usage.
boolean	get_SaveUserNameLocally() For .NET framework usage.
String	get_UserName() For .NET framework usage.
boolean	getEncryptData()
long	getFlicker()
String	getMacrosFolder()
String	getUserName()
boolean	saveUserNameLocally()
void	set_EncryptData(boolean encryptData) For .NET framework usage.

void	set_Flicker (long flicker) For .NET framework usage.
void	set_MacrosFolder (String folder) For .NET framework usage.
void	set_SaveUserNameLocally (boolean saveLocal) For .NET framework usage.
void	set_UserName (String userName) For .NET framework usage.
void	setEncryptData (boolean encryptData) Determines whether to encrypt the macro.
void	setFlicker (long flicker)
void	setMacrosFolder (String folder) Determines the folder on the web server where the macros will be saved.
void	setSaveUserNameLocally (boolean saveLocal) This parameter must be set to True when selecting to set the User name based on the user's cookies.
void	setUserName (String userName) The user macros file will be saved according to the user name, therefore it should be a unique ID of the Web user.

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXMacroConfig

```
public GXMacroConfig()
```

Methods

getMacrosFolder

```
public String getMacrosFolder()
```

setMacrosFolder

```
public void setMacrosFolder(String folder)
```

Determines the folder on the web server where the macros will be saved.

(continued from last page)

get_MacrosFolder

```
public String get_MacrosFolder()
```

For .NET framework usage. Expose the method as a property.

set_MacrosFolder

```
public void set_MacrosFolder(String folder)
```

For .NET framework usage. Expose the method as a property.

getUserName

```
public String getUserName()
```

setUserName

```
public void setUserName(String userName)
```

The user macros file will be saved according to the user name, therefore it should be a unique ID of the Web user. The User name can be according to the IP Address, it can be cookie based, or set in the code. By default it is configured to IP Address, which is a good idea when the user's IP is constant. When selecting the cookie based option, ApplinX will assign a cookie to the end user, and will read the macro according to the cookie. Macros will be lost when the user deletes his cookies. To enable this option you should set SaveUserNameLocally to true. Select Other to use a session variable which was saved according to the login page user name, or to use the NT user name (relevant for .NET only) (Request.ServerVariables["AUTH_USER"])

get_UserName

```
public String get_UserName()
```

For .NET framework usage. Expose the method as a property.

set_UserName

```
public void set_UserName(String userName)
```

For .NET framework usage. Expose the method as a property.

saveUserNameLocally

```
public boolean saveUserNameLocally()
```

get_SaveUserNameLocally

```
public boolean get_SaveUserNameLocally()
```

For .NET framework usage. Expose the method as a property.

setSaveUserNameLocally

```
public void setSaveUserNameLocally(boolean saveLocal)
```

This parameter must be set to True when selecting to set the User name based on the user's cookies.

setEncryptData

```
public void setEncryptData(boolean encryptData)
```

Determines whether to encrypt the macro.

Recommended to use when the macro includes user names and/or passwords.

When changing this setting, existing macros will no longer function. The existing macros will be deleted from the macros folder when recording new macros.

getEncryptData

```
public boolean getEncryptData()
```

set_EncryptData

```
public void set_EncryptData(boolean encryptData)
```

For .NET framework usage. Expose the method as a property.

get_EncryptData

```
public boolean get_EncryptData()
```

For .NET framework usage. Expose the method as a property.

setFlicker

```
public void setFlicker(long flicker)
```

getFlicker

```
public long getFlicker()
```

set_Flicker

```
public void set_Flicker(long flicker)
```

For .NET framework usage. Expose the method as a property.

get_Flicker

```
public long get_Flicker()
```

For .NET framework usage. Expose the method as a property.

set_SaveUserNameLocally

```
public void set_SaveUserNameLocally(boolean saveLocal)
```

For .NET framework usage. Expose the method as a property.

Package

com.sabratec.applinx.framework.sso

Single SignOn

This package is responsible for managing Single SignOn for host applications. The process is combined from 3 parts:

Recognizing a SignOn screen

The SignOn screen recognition can be one of the followings:

- Automatic (GXSignOnScreenAutomaticRecognizer) - When the first unprotected field of the screen is visible, and the 2nd unprotected field is invisible(password).
- By name (GXSignOnScreenByNameReocgnizer) - May accepts a screen name, and optionally user/password field names.

Retrieving the host user name/password from

The user/password retrieving part can be implemented by implementing the interface GXIUserPasswordRetriever. By default ApplinX framework provides 2 implementations:

- Http request - user name/password are retrieved as a URL parameter of posted to the ApplinX web application URL to gxfirstpage.jsp/aspx
- Http session - user name/password are retrieved as session variables saved within the ApplinX web application URL to gxfirstpage.jsp/aspx

Both retriever should must accept the paramter name of the request parameters/session variables.

Executing a SignOn process

Determines what action to perform when a SignOn screen was recognized. The retrieved user/password will be passed to one of the following Single SignOn executor:

- Path executor (GXSSOPathExecutor) - Executes the given path with the retrieved user/password
- SendKeys executor (GXSSOSendKeysExecutor) - Performs the mentioned action key with with the retrieved user/password

All the relevant paramaters can be configured using the framework configuration editor, Single SignOn node.

com.sabratec.applinx.framework.sso Class GXAbstractSignOnScreenRecognizer

java.lang.Object

└-com.sabratec.applinx.framework.sso.GXAbstractSignOnScreenRecognizer

All Implemented Interfaces:

[GXISignOnScreenRecognizer](#)

Direct Known Subclasses:

[GXSignOnScreenAutomaticRecognizer](#)

public abstract class **GXAbstractSignOnScreenRecognizer**

extends Object

implements [GXISignOnScreenRecognizer](#)

Constructor Summary

public	GXAbstractSignOnScreenRecognizer()
--------	----------------------------------------------------

Method Summary

GXIField	get_PasswordField()
GXIField	get_UserField()
GXIField	getPasswordField()
GXIField	getUserField()
void	setPasswordField(GXIField passwordField) For internal use
void	setUserField(GXIField userField) For internal use

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXISignOnScreenRecognizer](#)

[recognizeScreen](#)

Constructors

(continued from last page)

GXAbstractSignOnScreenRecognizer

```
public GXAbstractSignOnScreenRecognizer()
```

Methods

getPasswordField

```
public GXIField getPasswordField()
```

setPasswordField

```
public void setPasswordField(GXIField passwordField)
```

For internal use

getUserField

```
public GXIField getUserField()
```

setUserField

```
public void setUserField(GXIField userField)
```

For internal use

get_PasswordField

```
public GXIField get_PasswordField()
```

get_UserField

```
public GXIField get_UserField()
```

com.sabratec.applinx.framework.sso Class GXAbstractSSOExecutor

java.lang.Object

└-com.sabratec.applinx.framework.sso.GXAbstractSSOExecutor

All Implemented Interfaces:

[GXISSOExecutor](#)

Direct Known Subclasses:

[GXSSOSendKeysExecutor](#), [GXSSOPathExecutor](#)

public abstract class **GXAbstractSSOExecutor**
extends Object
implements [GXISSOExecutor](#)

Constructor Summary

public	GXAbstractSSOExecutor()
--------	-----------------------------------------

Method Summary

void	performSingleSignOn (GXSSOConfig ssoConfig, GXIClientBaseObject baseObject)
------	------------------------------------------------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXISSOExecutor](#)

[performSingleSignOn](#)

Constructors

GXAbstractSSOExecutor

public **GXAbstractSSOExecutor**()

Methods

performSingleSignOn

public void **performSingleSignOn**([GXSSOConfig](#) ssoConfig,
[GXIClientBaseObject](#) baseObject)
throws [GXGeneralException](#)

(continued from last page)

com.sabratec.applinx.framework.sso Interface GXISignOnScreenRecognizer

All Known Implementing Classes:

[GXAbstractSignOnScreenRecognizer](#)

```
public interface GXISignOnScreenRecognizer  
extends java.io.Serializable
```

Method Summary

GXSignOnRecognizerResponse	recognizeScreen (GXIScreen screen)
--------------------------------------------	---------------------------------------------------------------------

Methods

recognizeScreen

```
public GXSignOnRecognizerResponse recognizeScreen(GXIScreen screen)
```

com.sabratec.applinx.framework.sso Interface GXISSOExecuter

All Known Implementing Classes:
[GXAbstractSSOExecuter](#)

```
public interface GXISSOExecuter
extends java.io.Serializable
```

Method Summary

void	performSingleSignOn (GXSSOConfig ssoConfig, GXIClientBaseObject baseObject)
------	------------------------------------------------------------------------------------------------------------------------------

Methods

performSingleSignOn

```
public void performSingleSignOn(GXSSOConfig ssoConfig,
GXIClientBaseObject baseObject)
throws GXGeneralException
```

com.sabratec.applinx.framework.sso Interface GXIUserPasswordRetriever

All Known Implementing Classes:

[GXAbstractHttpUserPasswordRetriever](#)

public interface **GXIUserPasswordRetriever**
extends java.io.Serializable

Method Summary

String	getPassword()
String	getUserName()

Methods

getUserName

public String **getUserName()**

getPassword

public String **getPassword()**

com.sabratec.applinx.framework.sso Class GXSignOnRecognizerResponse

java.lang.Object

└-com.sabratec.applinx.framework.sso.GXSignOnRecognizerResponse

public class **GXSignOnRecognizerResponse**
extends Object

Constructor Summary

public	GXSignOnRecognizerResponse()
--------	----------------------------------------------

Method Summary

GXIField	get_PasswordField() For .NET framework usage.
GXIField	get_UserField() For .NET framework usage.
GXIField	getPasswordField()
GXIField	getUserField()
boolean	isSignOnScreen()
void	setPasswordField(GXIField passwordField) For internal use
void	setSignOnScreen(boolean isSignOnScreen)
void	setUserField(GXIField userField) For internal use

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXSignOnRecognizerResponse

public **GXSignOnRecognizerResponse()**

Methods

(continued from last page)

getPasswordField

```
public GXIField getPasswordField()
```

getUserField

```
public GXIField getUserField()
```

setPasswordField

```
public void setPasswordField(GXIField passwordField)
```

For internal use

setUserField

```
public void setUserField(GXIField userField)
```

For internal use

get_PasswordField

```
public GXIField get_PasswordField()
```

For .NET framework usage. Expose the method as a property.

get_UserField

```
public GXIField get_UserField()
```

For .NET framework usage. Expose the method as a property.

isSignInScreen

```
public boolean isSignInScreen()
```

setSignInScreen

```
public void setSignInScreen(boolean isSignInScreen)
```

com.sabratec.applinx.framework.sso Class GXSignOnScreenAutomaticRecognizer

java.lang.Object



All Implemented Interfaces:

[GXISignOnScreenRecognizer](#)

Direct Known Subclasses:

[GXSignOnScreenByNameRecognizer](#)

```
public class GXSignOnScreenAutomaticRecognizer
extends GXAbstractSignOnScreenRecognizer
```

This class recognizes a login screen if the 1st field is an unprotected field, and the 2nd field is a hidden field

Constructor Summary

public	GXSignOnScreenAutomaticRecognizer()
--------	-----------------------------------------------------

Method Summary

GXSignOnRecognizerResponse	recognizeScreen(GXIScreen screen)
--------------------------------------------	---------------------------------------------------

Methods inherited from class

[com.sabratec.applinx.framework.sso.GXAbstractSignOnScreenRecognizer](#)

[get_PasswordField](#), [get_UserField](#), [getPasswordField](#), [getUserField](#), [setPasswordField](#), [setUserField](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXISignOnScreenRecognizer](#)

[recognizeScreen](#)

Constructors

GXSignOnScreenAutomaticRecognizer

```
public GXSignOnScreenAutomaticRecognizer()
```

Methods

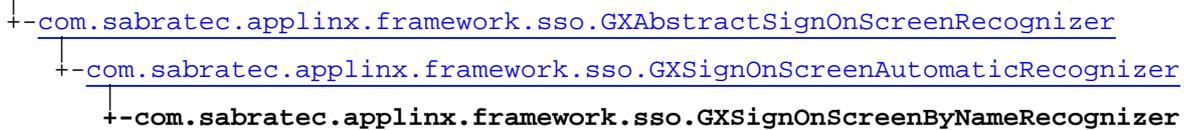
(continued from last page)

recognizeScreen

```
public GXSignInRecognizerResponse recognizeScreen(GXIScreen screen)
```

com.sabratec.applinx.framework.sso Class GXSignOnScreenByNameRecognizer

java.lang.Object



All Implemented Interfaces:

[GXISignOnScreenRecognizer](#)

public class **GXSignOnScreenByNameRecognizer**
extends [GXSignOnScreenAutomaticRecognizer](#)

This class determines if a specific screen is a signon screen according to the screen name and/or user/password field name

Constructor Summary

public	GXSignOnScreenByNameRecognizer()
public	GXSignOnScreenByNameRecognizer(String screenName)
public	GXSignOnScreenByNameRecognizer(String screenName, String userNameFieldName, String passwordFieldName)

Method Summary

String	get_PasswordFieldName() For .NET framework usage.
String	get_ScreenName() For .NET framework usage.
String	get_UserNameFieldName() For .NET framework usage.
String	getPasswordFieldName() Returns the application field name which determines the password field
String	getScreenName() Returns the screen name which determines that the screen is a signOn screen
String	getUserNameFieldName() Returns the application field name which determines the user name field
GXSignOnRecognizerResponse	recognizeScreen(GXIScreen screen) Determines if the screen is a signon screen
void	set_PasswordFieldName(String passwordFieldName) For .NET framework usage.

void	set_ScreenName (String screenName) For .NET framework usage.
void	set_UserNameFieldName (String userNameFieldName) For .NET framework usage.
void	setPasswordFieldName (String passwordFieldName) Set the application field name which determines the password field
void	setScreenName (String screenName) The name of the SignOn screen, when recognizing the signOn screen according to the screen's name.
void	setUserNameFieldName (String userNameFieldName) Returns the application field name which determines the user name field

Methods inherited from class[com.sabratec.applinx.framework.sso.GXSignOnScreenAutomaticRecognizer](#)[recognizeScreen](#)**Methods inherited from class**[com.sabratec.applinx.framework.sso.GXAbstractSignOnScreenRecognizer](#)[get_PasswordField](#), [get_UserField](#), [getPasswordField](#), [getUserField](#), [setPasswordField](#), [setUserField](#)**Methods inherited from class** java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXISignOnScreenRecognizer](#)[recognizeScreen](#)

Constructors

GXSignOnScreenByNameRecognizer

```
public GXSignOnScreenByNameRecognizer()
```

GXSignOnScreenByNameRecognizer

```
public GXSignOnScreenByNameRecognizer(String screenName)
```

GXSignOnScreenByNameRecognizer

```
public GXSignOnScreenByNameRecognizer(String screenName,
                                       String userNameFieldName,
                                       String passwordFieldName)
```

(continued from last page)

Methods

recognizeScreen

```
public GXSignOnRecognizerResponse recognizeScreen(GXIScreen screen)
```

Determines if the screen is a signon screen

Parameters:

screen - the screen to check

Returns:

getPasswordFieldName

```
public String getPasswordFieldName()
```

Returns the application field name which determines the password field

Returns:

the application field name which determines the password field

setPasswordFieldName

```
public void setPasswordFieldName(String passwordFieldName)
```

Set the application field name which determines the password field

Parameters:

passwordFieldName - the application field name which determines the password field

getScreenName

```
public String getScreenName()
```

Returns the screen name which determines that the screen is a signOn screen

Returns:

the screen name which determines that the screen is a signOn screen

setScreenName

```
public void setScreenName(String screenName)
```

The name of the SignOn screen, when recognizing the signOn screen according to the screen's name.

Parameters:

screenName - the screen name which determines that the screen is a signOn screen

getUserNameFieldName

```
public String getUserNameFieldName()
```

Returns the application field name which determines the user name field

Returns:

the application field name which determines the user name field

setUserNameFieldName

```
public void setUserNameFieldName(String userNameFieldName)
```

Returns the application field name which determines the user name field

Parameters:

userNameFieldName - the application field name which determines the user name field

get_PasswordFieldName

```
public String get_PasswordFieldName()
```

For .NET framework usage. Expose the method as a property.

set_PasswordFieldName

```
public void set_PasswordFieldName(String passwordFieldName)
```

For .NET framework usage. Expose the method as a property.

get_ScreenName

```
public String get_ScreenName()
```

For .NET framework usage. Expose the method as a property.

set_ScreenName

```
public void set_ScreenName(String screenName)
```

For .NET framework usage. Expose the method as a property.

get_UserNameFieldName

```
public String get_UserNameFieldName()
```

For .NET framework usage. Expose the method as a property.

set_UserNameFieldName

```
public void set_UserNameFieldName(String userNameFieldName)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.sso Class GXSSOConfig

java.lang.Object

└-com.sabratec.applinx.framework.sso.GXSSOConfig

All Implemented Interfaces:

java.io.Serializable

```
public class GXSSOConfig
extends Object
implements java.io.Serializable
```

This class manages the configuration of a single signOn process against a given host. It holds a [GXISignOnScreenRecognizer](#) which determines whether the screen is a signOn screen, a [GX IUserPasswordRetriever](#) which returns a user password from an external resource, and a [GXISSOExecuter](#) which performs the SignOn.

Constructor Summary

public	GXSSOConfig()
--------	-------------------------------

Method Summary

boolean	get_Enabled() For .NET framework usage.
GXISignOnScreenRecognizer	getSignOnScreenRecognizer() Determines the type of SignOn screen recognizer to use
GXISSOExecuter	getSsoExecuter() Determines the type of single SignOn executer to use
GX IUserPasswordRetriever	getUserPasswordRetriever() Determines the type of user/password retriever to use
boolean	isEnabled() Determines whether to activate a single sign on to the host
void	set_Enabled(boolean enabled) For .NET framework usage.
void	setEnabled(boolean enabled) Determines whether to activate the single sign option.
void	setSignOnScreenRecognizer(GXISignOnScreenRecognizer signOnScreenRecognizer) Determines the method to use to recognize the sign on screen.
void	setSsoExecuter(GXISSOExecuter ssoExecuter) Determines what happens once the SignOn is recognized
void	setUserPasswordRetriever(GX IUserPasswordRetriever userPasswordRetriever) Determines the type of user/password retriever to use

Methods inherited from class `java.lang.Object``equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXSSOConfig

```
public GXSSOConfig()
```

Methods

isEnabled

```
public boolean isEnabled()
```

Determines whether to activate a single sign on to the host

Returns:

whether the single signon mechanism is active

setEnabled

```
public void setEnabled(boolean enabled)
```

Determines whether to activate the single sign option.

Parameters:

`enabled` - if the sign signon mechanism is active

getUserPasswordRetriever

```
public GX IUserPasswordRetriever getUserPasswordRetriever()
```

Determines the type of user/password retriever to use

Returns:

the type of user/password retriever to use

setUserPasswordRetriever

```
public void setUserPasswordRetriever(GX IUserPasswordRetriever userPasswordRetriever)
```

Determines the type of user/password retriever to use

- Based on information retrieved from an HTTP request
- Based on information retrieved from an HTTP session
- Set in the code

Parameters:

`userPasswordRetriever` - the type of user/password retriever to use

getSignOnScreenRecognizer

```
public GXISignOnScreenRecognizer getSignOnScreenRecognizer()
```

Determines the type of SignOn screen recognizer to use

Returns:

the type of SignOn screen recognizer to use

setSignOnScreenRecognizer

```
public void setSignOnScreenRecognizer(GXISignOnScreenRecognizer  
signOnScreenRecognizer)
```

Determines the method to use to recognize the sign on screen.

- According to the screen name.
- Automatically recognize the user name and password fields.
- Set from the code.

Parameters:

signOnScreenRecognizer - the type of SignOn screen recognizer to use

getSsoExecuter

```
public GXISSOExecuter getSsoExecuter()
```

Determines the type of single SignOn executer to use

Returns:

Determines the type of single SignOn screen executer to use

setSsoExecuter

```
public void setSsoExecuter(GXISSOExecuter ssoExecuter)
```

Determines what happens once the SignOn is recognized

- Using an action key (enter an action key)
- Executing a path (enter a path name)
- Set in the code

Parameters:

ssoExecuter - the type of single SignOn executer to use

get_Enabled

```
public boolean get_Enabled()
```

For .NET framework usage. Expose the method as a property.

set_Enabled

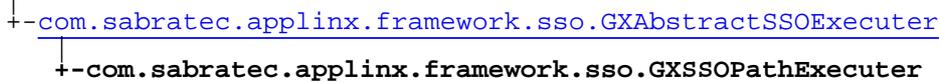
```
public void set_Enabled(boolean enabled)
```

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For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.sso Class GXSSOPathExecuter

java.lang.Object



All Implemented Interfaces:

[GXISSOExecuter](#)

public class **GXSSOPathExecuter**
extends [GXAbstractSSOExecuter](#)

This path performs a single signOn according to the specified path name

Constructor Summary

public	GXSSOPathExecuter ()
public	GXSSOPathExecuter (String pathName)

Method Summary

String	get_PathName () For .NET framework usage.
String	getPathName ()
void	set_PathName (String pathName) For .NET framework usage.
void	setPathName (String pathName) The name of the path that is to be executed

Methods inherited from class [com.sabratec.applinx.framework.sso.GXAbstractSSOExecuter](#)

[performSingleSignOn](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXISSOExecuter](#)

[performSingleSignOn](#)

Constructors

(continued from last page)

GXSSOPathExecuter

```
public GXSSOPathExecuter()
```

GXSSOPathExecuter

```
public GXSSOPathExecuter(String pathName)
```

Methods

getPathName

```
public String getPathName()
```

setPathName

```
public void setPathName(String pathName)
```

The name of the path that is to be executed

get_PathName

```
public String get_PathName()
```

For .NET framework usage. Expose the method as a property.

set_PathName

```
public void set_PathName(String pathName)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.sso Class GXSSOSendKeysExecuter

java.lang.Object



All Implemented Interfaces:

[GXISSOExecuter](#)

public class **GXSSOSendKeysExecuter**
extends [GXAbstractSSOExecuter](#)

Constructor Summary

public	GXSSOSendKeysExecuter()
public	GXSSOSendKeysExecuter(String actionKey)

Method Summary

String	get_ActionKey() For .NET framework usage.
String	getActionKey()
void	set_ActionKey(String actionKey) For .NET framework usage.
void	setActionKey(String actionKey) Enter the action key that is to be activated

Methods inherited from class [com.sabratec.applinx.framework.sso.GXAbstractSSOExecuter](#)

[performSingleSignOn](#)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXISSOExecuter](#)

[performSingleSignOn](#)

Constructors

(continued from last page)

GXSSOSendKeysExecuter

```
public GXSSOSendKeysExecuter()
```

GXSSOSendKeysExecuter

```
public GXSSOSendKeysExecuter(String actionKey)
```

Methods

getActionKey

```
public String getActionKey()
```

setActionKey

```
public void setActionKey(String actionKey)
```

Enter the action key that is to be activated

get_ActionKey

```
public String get_ActionKey()
```

For .NET framework usage. Expose the method as a property.

set_ActionKey

```
public void set_ActionKey(String actionKey)
```

For .NET framework usage. Expose the method as a property.

Package

com.sabratec.applinx.framework.tables

com.sabratec.applinx.framework.tables Class GXTableBuildConfig

java.lang.Object

└-com.sabratec.applinx.framework.tables.GXTableBuildConfig

All Implemented Interfaces:

java.io.Serializable

public class **GXTableBuildConfig**
extends Object
implements java.io.Serializable

Summary description for GXITableBuildConfig.

Constructor Summary

public	GXTableBuildConfig()
--------	--------------------------------------

Method Summary

boolean	get_AlternateColors() For .NET framework usage.
String	get_AlternateCssName() For .NET framework usage.
boolean	get_CloneComboxOnClientSide() For .NET framework usage.
String	get_DynamicDisableCssClass() For .NET framework usage.
boolean	get_DynamicFieldCheck() Deprecated. Use <i>ReflectHostProtected</i> instead
String	get_Encoding() For .NET framework usage.
int	get_FromRow() For .NET framework usage.
boolean	get_GenerateTrOnClickEvent() Deprecated.
boolean	get_ReflectBGColor() For .NET framework usage.
boolean	get_ReflectFGColor() For .NET framework usage.
boolean	get_ReflectHostProtected() For .NET framework usage.

int	get_ToRow() For .NET framework usage.
boolean	get_TrimLabels() For .NET framework usage.
boolean	getAlternateColors() Determines whether to use alternate colors for each second table row.
String	getAlternateCssName() The css name used in every alternate table row when AlternateColors is set to true.
boolean	getCloneComboxOnClientSide()
String	getDynamicDisableCssClass() The name of the css class that is added to an input field, which changed to read only according to the ReflectHostProtected parameter.
boolean	getDynamicFieldCheck() Deprecated. Use <i>ReflectHostProtected</i> instead
String	getEncoding() Deprecated. - should no longer be used, UTF-8 is now used when needed.
int	getFromRow() The starting row of the HTML on which the duplication will be based.
boolean	getGenerateTrOnClickEvent() Deprecated.
boolean	getReflectBGColor() Set if to dynamically add a relevant back color css to the page fields when calling <code>gx_fillForm</code> .
boolean	getReflectFGColor() Determine if to dynamically add a relevant color css to the page fields when calling <code>gx_fillForm</code> .
boolean	getReflectHostProtected() Determines whether to dynamically change the page input fields to read only when <code>gx_fillForm</code> is called
int	getToRow() The ending row of the HTML on which the duplication will be based.
boolean	getTrimLabels()
void	set_AlternateColors (boolean alternateColors) For .NET framework usage.
void	set_AlternateCssName (String alternateCssName) For .NET framework usage.
void	set_CloneComboxOnClientSide (boolean cloneComboxOnClientSide) For .NET framework usage.
void	set_DynamicDisableCssClass (String dynamicDisableCssClass) For .NET framework usage.

void	set_DynamicFieldCheck (boolean dynamicFieldCheck) Deprecated. Use <i>ReflectHostProtected</i> instead <i>/** @property</i>
void	set_Encoding (String encoding) For .NET framework usage.
void	set_FromRow (int fromRow) For .NET framework usage.
void	set_GenerateTrOnClickEvent (boolean generateTrOnClickEvent) Deprecated.
void	set_ReflectBGColor (boolean reflectBGColor) For .NET framework usage.
void	set_ReflectFGColor (boolean reflectFGColor) For .NET framework usage.
void	set_ReflectHostProtected (boolean reflectHostProtected) For .NET framework usage.
void	set_ToRow (int toRow) For .NET framework usage.
void	set_TrimLabels (boolean trimLabels) Deprecated. Use <i>Applinx</i> server configuration, <i>screen content tab</i>
void	setAlternateColors (boolean alternateColors) Determines whether to use alternate colors for every other row in a table.
void	setAlternateCssName (String alternateCssName) The css name used in every alternate table row when <i>AlternateColors</i> is set to true.
void	setCloneComboxOnClientSide (boolean cloneComboxOnClientSide) When this parameter is set to true (by default) an HTML text combo box is rendered once to the browser and all the other combo boxes of the following rows are cloned on the browser side from the first one (this significantly reduces the size of the HTML when there are a large number of options in the combo box).
void	setDynamicDisableCssClass (String dynamicDisableCssClass) The name of the css class that is added to an input field, which changed to read only according to the <i>ReflectHostProtected</i> parameter.
void	setDynamicFieldCheck (boolean dynamicFieldCheck) Deprecated. Use <i>ReflectHostProtected</i> instead
void	setEncoding (String encoding) Deprecated. - <i>should no longer be used, UTF-8 is now used when needed.</i>
void	setFromRow (int fromRow) The starting row of the HTML on which the duplication will be based.
void	setGenerateTrOnClickEvent (boolean generateTrOnClickEvent) Deprecated.
void	setReflectBGColor (boolean reflectBGColor) Set if to dynamically add a relevant back color css to the page fields when calling <i>gx_fillForm</i> .

void	setReflectFGColor (boolean reflectFGColor) Determine if to dynamically add a relevant color css to the page fields when calling <code>gx_fillForm</code> .
void	setReflectHostProtected (boolean reflectHostProtected) Determines whether to dynamically change the page input fields to read only when <code>gx_fillForm</code> is called
void	setToRow (int toRow) The ending row of the HTML on which the duplication will be based.
void	setTrimLabels (boolean trimLabels) Deprecated. Use ApplinX server configuration, screen content tab

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXTableBuildConfig

```
public GXTableBuildConfig()
```

Methods

getFromRow

```
public int getFromRow()
```

The starting row of the HTML on which the duplication will be based. By default, 1 when there is a header row, and 0 when there is not.

Returns:

The starting row of the HTML

setFromRow

```
public void setFromRow(int fromRow)
```

The starting row of the HTML on which the duplication will be based. By default, 1 when there is a header row, and 0 when there is not.

Parameters:

`fromRow` - the starting row of the HTML on which the duplication will be based

get_FromRow

```
public int get_FromRow()
```

For .NET framework usage. Expose the method as a property.

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set_FromRow

```
public void set_FromRow(int fromRow)
```

For .NET framework usage. Expose the method as a property.

getToRow

```
public int getToRow()
```

The ending row of the HTML on which the duplication will be based. By default, 1 when there is a header row, and 0 when there is not. Both these parameters can be used when you want to duplicate host rows based on more than one HTML row. Note: 0 will be the index of the first HTML row (usually the headers row).

Returns:

the ending row of the HTML on which the duplication will be based

setToRow

```
public void setToRow(int toRow)
```

The ending row of the HTML on which the duplication will be based. By default, 1 when there is a header row, and 0 when there is not. Both these parameters can be used when you want to duplicate host rows based on more than one HTML row. Note: 0 will be the index of the first HTML row (usually the headers row).

Parameters:

toRow - the ending row of the HTML on which the duplication will be based

get_ToRow

```
public int get_ToRow()
```

For .NET framework usage. Expose the method as a property.

set_ToRow

```
public void set_ToRow(int toRow)
```

For .NET framework usage. Expose the method as a property.

setGenerateTrOnClickEvent

```
public void setGenerateTrOnClickEvent(boolean generateTrOnClickEvent)
```

Deprecated.

getGenerateTrOnClickEvent

```
public boolean getGenerateTrOnClickEvent()
```

Deprecated.

set_GenerateTrOnClickEvent

```
public void set_GenerateTrOnClickEvent(boolean generateTrOnClickEvent)
```

(continued from last page)

Deprecated.

get_GenerateTrOnClickEvent

```
public boolean get_GenerateTrOnClickEvent()
```

Deprecated.

setDynamicFieldCheck

```
public void setDynamicFieldCheck(boolean dynamicFieldCheck)
```

Deprecated. Use *ReflectHostProtected* instead

getDynamicFieldCheck

```
public boolean getDynamicFieldCheck()
```

Deprecated. Use *ReflectHostProtected* instead

set_DynamicFieldCheck

```
public void set_DynamicFieldCheck(boolean dynamicFieldCheck)
```

Deprecated. Use *ReflectHostProtected* instead */** @property*

set_ReflectHostProtected

```
public void set_ReflectHostProtected(boolean reflectHostProtected)
```

For .NET framework usage. Expose the method as a property.

get_ReflectHostProtected

```
public boolean get_ReflectHostProtected()
```

For .NET framework usage. Expose the method as a property.

get_DynamicFieldCheck

```
public boolean get_DynamicFieldCheck()
```

Deprecated. Use *ReflectHostProtected* instead

(continued from last page)

setReflectHostProtected

```
public void setReflectHostProtected(boolean reflectHostProtected)
```

Determines whether to dynamically change the page input fields to read only when gx_fillForm is called

Parameters:

reflectHostProtected - whether to dynamically change the page input fields to read only

getReflectHostProtected

```
public boolean getReflectHostProtected()
```

Determines whether to dynamically change the page input fields to read only when gx_fillForm is called

Returns:

whether to dynamically change the page input fields to read only

setAlternateColors

```
public void setAlternateColors(boolean alternateColors)
```

Determines whether to use alternate colors for every other row in a table. Use AlternateCssName to control the alternate css name.

Parameters:

alternateColors - whether to use alternate colors for each second table row

getAlternateColors

```
public boolean getAlternateColors()
```

Determines whether to use alternate colors for each second table row. Use AlternateCssName to control the alternate css name.

Returns:

whether to use alternate colors for each second table row

set_AlternateColors

```
public void set_AlternateColors(boolean alternateColors)
```

For .NET framework usage. Expose the method as a property.

get_AlternateColors

```
public boolean get_AlternateColors()
```

For .NET framework usage. Expose the method as a property.

setAlternateCssName

```
public void setAlternateCssName(String alternateCssName)
```

The css name used in every alternate table row when AlternateColors is set to true. The default css is: gx_tbl_alternate2 , since the default generated table is generated with gx_tbl_alternate1.

Parameters:

alternateCssName - the css name used in every alternate table row

getAlternateCssName

```
public String getAlternateCssName()
```

The css name used in every alternate table row when AlternateColors is set to true. The default css is: gx_tbl_alternate2 , since the default generated table is generated with gx_tbl_alternate1.

Returns:

the css name used in every alternate table row

set_AlternateCssName

```
public void set_AlternateCssName(String alternateCssName)
```

For .NET framework usage. Expose the method as a property.

get_AlternateCssName

```
public String get_AlternateCssName()
```

For .NET framework usage. Expose the method as a property.

set_DynamicDisableCssClass

```
public void set_DynamicDisableCssClass(String dynamicDisableCssClass)
```

For .NET framework usage. Expose the method as a property.

get_DynamicDisableCssClass

```
public String get_DynamicDisableCssClass()
```

For .NET framework usage. Expose the method as a property.

setDynamicDisableCssClass

```
public void setDynamicDisableCssClass(String dynamicDisableCssClass)
```

The name of the css class that is added to an input field, which changed to read only according to the ReflectHostProtected parameter. Used for giving a different look to this type of input field.

Parameters:

dynamicDisableCssClass - the name of the css class that is added to an input field

getDynamicDisableCssClass

```
public String getDynamicDisableCssClass()
```

The name of the css class that is added to an input field, which changed to read only according to the ReflectHostProtected parameter. Used for giving a different look to this type of input field.

Returns:

the name of the css class that is added to an input field

setReflectFGColor

```
public void setReflectFGColor(boolean reflectFGColor)
```

(continued from last page)

Determine if to dynamically add a relevant color css to the page fields when calling `gx_fillForm`. The relevant css classes are in `styles_instant.css` in the new application /`css_colors` folder in the emulation template.

Parameters:

`reflectFGColor` - whether to dynamically add a relevant color css to the page fields

getReflectFGColor

```
public boolean getReflectFGColor()
```

Determine if to dynamically add a relevant color css to the page fields when calling `gx_fillForm`. The relevant css classes are in `styles_instant.css` in the new application /`css_colors` folder in the emulation template.

Returns:

whether to dynamically add a relevant color css to the page fields

set_ReflectFGColor

```
public void set_ReflectFGColor(boolean reflectFGColor)
```

For .NET framework usage. Expose the method as a property.

get_ReflectFGColor

```
public boolean get_ReflectFGColor()
```

For .NET framework usage. Expose the method as a property.

setReflectBGColor

```
public void setReflectBGColor(boolean reflectBGColor)
```

Set if to dynamically add a relevant back color css to the page fields when calling `gx_fillForm`. The relevant css classes are in `styles_instant.css` in the new application /`css_colors` folder in the emulation template.

Parameters:

`reflectBGColor` - whether to dynamically add a relevant back color css to the page fields

getReflectBGColor

```
public boolean getReflectBGColor()
```

Set if to dynamically add a relevant back color css to the page fields when calling `gx_fillForm`. The relevant css classes are in `styles_instant.css` in the new application /`css_colors` folder in the emulation template.

Returns:

whether to dynamically add a relevant back color css to the page fields

set_ReflectBGColor

```
public void set_ReflectBGColor(boolean reflectBGColor)
```

For .NET framework usage. Expose the method as a property.

get_ReflectBGColor

```
public boolean get_ReflectBGColor()
```

For .NET framework usage. Expose the method as a property.

setCloneComboxOnClientSide

```
public void setCloneComboxOnClientSide(boolean cloneComboxOnClientSide)
```

When this parameter is set to true (by default) an HTML text combo box is rendered once to the browser and all the other combo boxes of the following rows are cloned on the browser side from the first one (this significantly reduces the size of the HTML when there are a large number of options in the combo box). Set this parameter to false when you would like to dynamically manipulate the combo box values using table user exits: `gx_changeTr`, `gx_changeTd`, `gx_changeControl`.

getCloneComboxOnClientSide

```
public boolean getCloneComboxOnClientSide()
```

set_CloneComboxOnClientSide

```
public void set_CloneComboxOnClientSide(boolean cloneComboxOnClientSide)
```

For .NET framework usage. Expose the method as a property.

get_CloneComboxOnClientSide

```
public boolean get_CloneComboxOnClientSide()
```

For .NET framework usage. Expose the method as a property.

setTrimLabels

```
public void setTrimLabels(boolean trimLabels)
```

Deprecated. Use *ApplinX server configuration, screen content tab*

getTrimLabels

```
public boolean getTrimLabels()
```

set_TrimLabels

```
public void set_TrimLabels(boolean trimLabels)
```

Deprecated. Use *ApplinX server configuration, screen content tab*

get_TrimLabels

```
public boolean get_TrimLabels()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

getEncoding

```
public String getEncoding()
```

Deprecated. - *should no longer be used, UTF-8 is now used when needed.*

For JSP usage only. In JSP tables tags (gx:table), XSL serialization is internally used, and the encoding is required in case the table contains non-english character.

Returns:

the encoding used for JSP table tags (gx:table)

setEncoding

```
public void setEncoding(String encoding)
```

Deprecated. - *should no longer be used, UTF-8 is now used when needed.*

For JSP usage only. In JSP tables tags (gx:table), XSL serialization is internally used, and the encoding is required in case the table contains non-english character

Parameters:

encoding - the encoding used for JSP table tags (gx:table)

get_Encoding

```
public String get_Encoding()
```

For .NET framework usage. Expose the method as a property.

set_Encoding

```
public void set_Encoding(String encoding)
```

For .NET framework usage. Expose the method as a property.

Package

**com.sabratec.applinx.framework.web.jse
engine**

com.sabratec.applinx.framework.web.jsengine

Class GXClientConfig

java.lang.Object

└-com.sabratec.applinx.framework.web.jsengine.GXClientConfig

public class **GXClientConfig**
extends Object

Constructor Summary

public	GXClientConfig()
--------	----------------------------------

Method Summary

GXEngineConfig	get_EngineConfig() For .NET framework usage.
GXInstantEmulatorConfig	get_InstantEmulatorConfig() For .NET framework usage.
GXWebEmulatorConfig	get_WebEmulatorConfig() For .NET framework usage.
GXWindowConfig	get_WindowConfig() For .NET framework usage.
GXEngineConfig	getEngineConfig()
GXInstantEmulatorConfig	getInstantEmulatorConfig()
GXWebEmulatorConfig	getWebEmulatorConfig()
GXWindowConfig	getWindowConfig()
void	set_EngineConfig(GXEngineConfig engineConfig) For .NET framework usage.
void	set_InstantEmulatorConfig(GXInstantEmulatorConfig instantEmulatorConfig) For .NET framework usage.
void	set_WebEmulatorConfig(GXWebEmulatorConfig webEmulatorConfig) For .NET framework usage.
void	set_WindowConfig(GXWindowConfig windowConfig) For .NET framework usage.
void	setEngineConfig(GXEngineConfig engineConfig)

void	setInstantEmulatorConfig (GXInstantEmulatorConfig instantEmulatorConfig)
void	setWebEmulatorConfig (GXWebEmulatorConfig webEmulatorConfig)
void	setWindowConfig (GXWindowConfig windowConfig)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXClientConfig

```
public GXClientConfig()
```

Methods

getEngineConfig

```
public GXEngineConfig getEngineConfig()
```

setEngineConfig

```
public void setEngineConfig(GXEngineConfig engineConfig)
```

get_EngineConfig

```
public GXEngineConfig get_EngineConfig()
```

For .NET framework usage. Expose the method as a property.

set_EngineConfig

```
public void set_EngineConfig(GXEngineConfig engineConfig)
```

For .NET framework usage. Expose the method as a property.

getInstantEmulatorConfig

```
public GXInstantEmulatorConfig getInstantEmulatorConfig()
```

setInstantEmulatorConfig

```
public void setInstantEmulatorConfig(GXInstantEmulatorConfig instantEmulatorConfig)
```

(continued from last page)

get_InstantEmulatorConfig

```
public GXInstantEmulatorConfig get_InstantEmulatorConfig()
```

For .NET framework usage. Expose the method as a property.

set_InstantEmulatorConfig

```
public void set_InstantEmulatorConfig(GXInstantEmulatorConfig instantEmulatorConfig)
```

For .NET framework usage. Expose the method as a property.

getWebEmulatorConfig

```
public GXWebEmulatorConfig getWebEmulatorConfig()
```

setWebEmulatorConfig

```
public void setWebEmulatorConfig(GXWebEmulatorConfig webEmulatorConfig)
```

get_WebEmulatorConfig

```
public GXWebEmulatorConfig get_WebEmulatorConfig()
```

For .NET framework usage. Expose the method as a property.

set_WebEmulatorConfig

```
public void set_WebEmulatorConfig(GXWebEmulatorConfig webEmulatorConfig)
```

For .NET framework usage. Expose the method as a property.

getWindowConfig

```
public GXWindowConfig getWindowConfig()
```

setWindowConfig

```
public void setWindowConfig(GXWindowConfig windowConfig)
```

get_WindowConfig

```
public GXWindowConfig get_WindowConfig()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

set_WindowConfig

```
public void set_WindowConfig(GXWindowConfig windowConfig)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.web.jsengine

Class GXEngineConfig

java.lang.Object

└-com.sabratec.applinx.framework.web.jsengine.GXEngineConfig

public class **GXEngineConfig**
extends Object

framework configurations basic class

Field Summary

public static final	LOG_LEVEL_DEBUG Value: 3
public static final	LOG_LEVEL_ERROR Value: 0
public static final	LOG_LEVEL_MESSAGE Value: 2
public static final	LOG_LEVEL_WARNING Value: 1

Constructor Summary

public	GXEngineConfig()
--------	----------------------------------

Method Summary

String	get_DebugModules() For .NET framework usage.
String	get_DefaultFrameColumns() For .NET framework usage.
int	get_LogLevel() For .NET framework usage.
String	get_LogoffMessage() For .NET framework usage.
boolean	get_LogoffOnBrowserClose() For .NET framework usage.
String	get_MozillaLogoffMessage() For .NET framework usage.
boolean	get_PromptOnBrowserClose() For .NET framework usage.

boolean	get_ShowLogConsole() For .NET framework usage.
String	getDebugModules()
String	getDefaultFrameColumns() Used for debug purposes only.
int	getLogLevel()
String	getLogoffMessage() The popup message that will appear when closing the browser.
String	getMozillaLogoffMessage() Deprecated. use getLogoffMessage()
boolean	isLogoffOnBrowserClose() Determines whether to log off from the host session when the browser is closed.
boolean	isPromptOnBrowserClose() Prompt the user whether to exit the browser session.
boolean	isShowLogConsole()
void	set_DebugModules(String debugModules) For .NET framework usage.
void	set_DefaultFrameColumns(String defaultFrameColumns) For .NET framework usage.
void	set_LogLevel(int logLevel) For .NET framework usage.
void	set_LogoffMessage(String logoffMessage) For .NET framework usage.
void	set_LogoffOnBrowserClose(boolean logoffOnBrowserClose) For .NET framework usage.
void	set_MozillaLogoffMessage(String mozillaLogoffMessage) For .NET framework usage.
void	set_PromptOnBrowserClose(boolean promptOnBrowserClose) For .NET framework usage.
void	set_ShowLogConsole(boolean showLogConsole) For .NET framework usage.
void	setDebugModules(String debugModules)
void	setDefaultFrameColumns(String defaultFrameColumns) Used for debug purposes only.
void	setLogLevel(int logLevel)
void	setLogoffMessage(String logoffMessage) The popup message that will be displayed when closing the browser.

void	setLogoffOnBrowserClose (boolean logoffOnBrowserClose) Determines whether to log off from the host session when the browser is closed.
void	setMozillaLogoffMessage (String mozillaLogoffMessage) Deprecated. use setLogoffMessage(String)
void	setPromptOnBrowserClose (boolean promptOnBrowserClose) Determines whether to disconnect the session once the browser is closed.
void	setShowLogConsole (boolean showLogConsole)

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

LOG_LEVEL_ERROR

```
public static final int LOG_LEVEL_ERROR
```

Constant value: 0

LOG_LEVEL_WARNING

```
public static final int LOG_LEVEL_WARNING
```

Constant value: 1

LOG_LEVEL_MESSAGE

```
public static final int LOG_LEVEL_MESSAGE
```

Constant value: 2

LOG_LEVEL_DEBUG

```
public static final int LOG_LEVEL_DEBUG
```

Constant value: 3

Constructors

GXEngineConfig

```
public GXEngineConfig()
```

Methods

(continued from last page)

getLogLevel

```
public int getLogLevel()
```

setLogLevel

```
public void setLogLevel(int logLevel)
```

get_LogLevel

```
public int get_LogLevel()
```

For .NET framework usage. Expose the method as a property.

set_LogLevel

```
public void set_LogLevel(int logLevel)
```

For .NET framework usage. Expose the method as a property.

isLogoffOnBrowserClose

```
public boolean isLogoffOnBrowserClose()
```

Determines whether to log off from the host session when the browser is closed. It is recommended to define a session timeout in the ApplinX Designer (Application Properties dialog box>Host tab, Non-activity timeout) to ensure logging off from a session.

Returns:

whether to log off from the host session when the browser is closed

setLogoffOnBrowserClose

```
public void setLogoffOnBrowserClose(boolean logoffOnBrowserClose)
```

Determines whether to log off from the host session when the browser is closed. It is recommended to define a session timeout in the ApplinX Designer (Application Properties dialog box>Host tab, Non-activity timeout) to ensure logging off from a session.

Parameters:

logoffOnBrowserClose - - whether to log off from the host session when the browser is closed

get_LogoffOnBrowserClose

```
public boolean get_LogoffOnBrowserClose()
```

For .NET framework usage. Expose the method as a property.

set_LogoffOnBrowserClose

```
public void set_LogoffOnBrowserClose(boolean logoffOnBrowserClose)
```

For .NET framework usage. Expose the method as a property.

getMozillaLogoffMessage

```
public String getMozillaLogoffMessage()
```

Deprecated. use [getLogoffMessage\(\)](#)

Parameters:

mozillaLogoffMessage

set_MozillaLogoffMessage

```
public void set_MozillaLogoffMessage(String mozillaLogoffMessage)
```

For .NET framework usage. Expose the method as a property.

get_MozillaLogoffMessage

```
public String get_MozillaLogoffMessage()
```

For .NET framework usage. Expose the method as a property.

setMozillaLogoffMessage

```
public void setMozillaLogoffMessage(String mozillaLogoffMessage)
```

Deprecated. use [setLogoffMessage\(String\)](#)

Parameters:

mozillaLogoffMessage

getLogoffMessage

```
public String getLogoffMessage()
```

The popup message that will appear when closing the browser. Relevant either when closing the configuring `PromptOnBrowserClose` as on or when closing a Mozilla based browsers (FireFox, Netscape). The reason is that it's not possible to determine whether Browser Refresh button/Close button was pressed. Note: The message will not appear when the menu bar in Mozilla is not available (Full screen mode).

Returns:

the popup message that will appear when closing the browser in Mozilla based browsers

setLogoffMessage

```
public void setLogoffMessage(String logoffMessage)
```

The popup message that will be displayed when closing the browser. Relevant either when closing the configuring `PromptOnBrowserClose` as on or when closing Mozilla based browsers (FireFox, Netscape). The reason is that it's not possible to determine whether Browser Refresh button/Close button was pressed. Note: The message will not appear when the menu bar in Mozilla is not available (Full screen mode).

Parameters:

logoffMessage - the popup message that will appear when closing the browser in Mozilla based browsers

(continued from last page)

getDefaultFrameColumns

```
public String getDefaultFrameColumns()
```

Used for debug purposes only. Shows the invisible frame of the framework frameset. Set it to "70%" for example to see the frameset hidden frames

Returns:

the columns width of the active frameset

setDefaultFrameColumns

```
public void setDefaultFrameColumns(String defaultFrameColumns)
```

Used for debug purposes only. Shows the invisible frame of the framework frameset. Set it to "70%" for example to see the frameset hidden frames

Parameters:

defaultFrameColumns - the columns width of the active frameset

getDebugModules

```
public String getDebugModules()
```

setDebugModules

```
public void setDebugModules(String debugModules)
```

get_DebugModules

```
public String get_DebugModules()
```

For .NET framework usage. Expose the method as a property.

set_DebugModules

```
public void set_DebugModules(String debugModules)
```

For .NET framework usage. Expose the method as a property.

isShowLogConsole

```
public boolean isShowLogConsole()
```

setShowLogConsole

```
public void setShowLogConsole(boolean showLogConsole)
```

(continued from last page)

get_ShowLogConsole

```
public boolean get_ShowLogConsole()
```

For .NET framework usage. Expose the method as a property.

set_ShowLogConsole

```
public void set_ShowLogConsole(boolean showLogConsole)
```

For .NET framework usage. Expose the method as a property.

get_DefaultFrameColumns

```
public String get_DefaultFrameColumns()
```

For .NET framework usage. Expose the method as a property.

set_DefaultFrameColumns

```
public void set_DefaultFrameColumns(String defaultFrameColumns)
```

For .NET framework usage. Expose the method as a property.

isPromptOnBrowserClose

```
public boolean isPromptOnBrowserClose()
```

Prompt the user whether to exit the browser session. Also triggered when user hits refresh button

Returns:

whether to exit the browser session

setPromptOnBrowserClose

```
public void setPromptOnBrowserClose(boolean promptOnBrowserClose)
```

Determines whether to disconnect the session once the browser is closed. This parameter also relates to when the Refresh button is pressed.

Parameters:

promptOnBrowserClose - whether to exit the browser session

get_PromptOnBrowserClose

```
public boolean get_PromptOnBrowserClose()
```

For .NET framework usage. Expose the method as a property.

set_PromptOnBrowserClose

```
public void set_PromptOnBrowserClose(boolean promptOnBrowserClose)
```

For .NET framework usage. Expose the method as a property.

get_LogoffMessage

```
public String get_LogoffMessage()
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_LogoffMessage

```
public void set_LogoffMessage(String logoffMessage)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.web.jsengine

Class GXInstantEmulatorConfig

java.lang.Object

└-com.sabratec.applinx.framework.web.jsengine.GXInstantEmulatorConfig

Direct Known Subclasses:

[GXWebEmulatorConfig](#)

```
public class GXInstantEmulatorConfig
extends Object
```

Configuration class for html emulation instant page. Generated to XML file and loaded on the client side

Field Summary	
public static final	ARROWS_ALL_SCREEN Value: 2
public static final	ARROWS_INPUT_FIELDS Value: 1
public static final	ARROWS_NONE Value: 0
public static final	LABEL_FOCUS_BOLD Value: 2
public static final	LABEL_FOCUS_NONE Value: 0
public static final	LABEL_FOCUS_UNDERLINE Value: 1

Constructor Summary	
public	GXInstantEmulatorConfig()

Method Summary	
boolean	get_AutoSkipAllFields() For .NET framework usage.
boolean	get_BlinkingCaret() For .NET framework usage.
boolean	get_BlockNumericFields() For .NET framework usage.

boolean	get_CaretAtEndOfField() For .NET framework usage.
String	get_ColorSets() For .NET framework usage.
boolean	get_DoJapaneseDataTypeValidityCheck() For .NET framework usage.
String	get_DoubleClickActionKey() For .NET framework usage.
boolean	get_EmulationPasteBehavior() For .NET framework usage.
boolean	get_HandleMenuSelection() For .NET framework usage.
int	get_LabelFocus() For .NET framework usage.
boolean	get_SelectFieldOnFocus() For .NET framework usage.
boolean	get_ShowBlinkingFields() For .NET framework usage.
boolean	get_TabOnInputsOnly() For .NET framework usage.
int	get_UseArrows() For .NET framework usage.
boolean	get_UseKeyboardPfKeys() For .NET framework usage.
String	getColorSets() This functionality enables the end user select one of the pre-defined style sheets for instant screens.
String	getDoubleClickActionKey() Sends the specified action key to the host when double-clicking on a label.
int	getLabelFocus() This option allows you to determine whether the font style of a protected field will become underline, bold or will not change when a user either clicks on the protected field or moves between the protected fields using the keyboard arrow buttons.
int	getUseArrows() Determines the arrow keys' navigation behavior (none, input fields or all screen).
boolean	isAutoSkipAllFields() Determines whether or not the cursor will automatically move to the next input field once the current input field is filled with text (applies to all input fields).
boolean	isBlinkingCaret()
boolean	isBlockNumericFields() Determines whether it will be possible to type non-numeric characters in numeric input fields.

boolean	isCaretAtEndOfField() Determines whether the caret's position should be at the end of the input fields.
boolean	isDoJapaneseDataTypeValidityCheck()
boolean	isEmulationPasteBehavior() Determines whether the paste behavior of text will be as in terminal emulators, that once a field is filled, the remaining text is pasted in the following field or whether the text will be pasted in a single field.
boolean	isHandleMenuSelection() Enables basic menu support: when clicking on a menu item, the corresponding number is automatically placed in the option field.
boolean	isSelectFieldOnFocus() Determines whether when moving the cursor to the following field (using the arrows or TAB key), the field content will be selected and then overwritten or the text will not be selected and when typing, the text will be inserted in the field.
boolean	isShowBlinkingFields() Some hosts contain definitions determining that certain fields should blink.
boolean	isTabOnInputsOnly() Determines whether the TAB key navigates between the input (unprotected) fields of the screen only, or also between additional buttons and hyperlinks in the Web page.
boolean	isUseKeyboardPfKeys() Use PF keys to send actions to the host.
void	set_AutoSkipAllFields (boolean autoSkipAllFields) For .NET framework usage.
void	set_BlinkingCaret (boolean blinkingCaret) For .NET framework usage.
void	set_BlockNumericFields (boolean blockNumericFields) For .NET framework usage.
void	set_CaretAtEndOfField (boolean caretAtEndOfField) For .NET framework usage.
void	set_ColorSets (String colorSets) For .NET framework usage.
void	set_DoJapaneseDataTypeValidityCheck (boolean doJapaneseDataTypeValidityCheck) For .NET framework usage.
void	set_DoubleClickActionKey (String doubleClickActionKey) For .NET framework usage.
void	set_EmulationPasteBehavior (boolean emulationPasteBehavior) For .NET framework usage.
void	set_HandleMenuSelection (boolean handleMenuSelection) For .NET framework usage.
void	set_LabelFocus (int labelFocus) For .NET framework usage.

void	set_SelectFieldOnFocus (boolean selectFieldOnFocus) For .NET framework usage.
void	set_ShowBlinkingFields (boolean showBlinkingFields)
void	set_TabOnInputsOnly (boolean tabOnInputsOnly) For .NET framework usage.
void	set_UseArrows (int useArrows) For .NET framework usage.
void	set_UseKeyboardPfKeys (boolean useKeyboardPfKeys) For .NET framework usage.
void	setAutoSkipAllFields (boolean autoSkipAllFields) Determines whether or not the cursor will automatically move to the next input field once the current input field is filled with text (applies to all input fields).
void	setBlinkingCaret (boolean blinkingCaret) Displays a blinking caret in input fields
void	setBlockNumericFields (boolean blockNumericFields) Determines whether it will be possible to type non-numeric characters in numeric input fields.
void	setCaretAtEndOfField (boolean caretAtEndOfField) Determines whether the caret's position should be at the end of the input fields.
void	setColorSets (String colorSets) This functionality enables the end user select one of the pre-defined style sheets for instant screens.
void	setDoJapaneseDataTypeValidityCheck (boolean doJapaneseDataTypeValidityCheck)
void	setDoubleClickActionKey (String doubleClickActionKey) Sends the specified action key to the host when double-clicking on a label.
void	setEmulationPasteBehavior (boolean emulationPasteBehavior) Determines whether the paste behavior of text will be as in terminal emulators, that once a field is filled, the remaining text is pasted in the following field or whether the text will be pasted in a single field.
void	setHandleMenuSelection (boolean handleMenuSelection) Enables basic menu support: when clicking on a menu item, the corresponding number is automatically placed in the option field.
void	setLabelFocus (int labelFocus) This option allows you to determine whether the font style of a protected field will become underline, bold or will not change when a user either clicks on the protected field or moves between the protected fields using the keyboard arrow buttons.
void	setSelectFieldOnFocus (boolean selectFieldOnFocus) Determines whether when moving the cursor to the following field (using the arrows or TAB key), the field content will be selected and then overwritten or the text will not be selected and when typing, the text will be inserted in the field.
void	setShowBlinkingFields (boolean showBlinkingFields) Some hosts contain definitions determining that certain fields should blink.

void	setTabOnInputsOnly (boolean tabOnInputsOnly) Determines whether the TAB key navigates between the input (unprotected) fields of the screen only, or also between additional buttons and hyperlinks in the Web page.
void	setUseArrows (int useArrows) This option allows you to determine whether the font style of a protected field will become underline, bold or will not change when a user either clicks on the protected field or moves between the protected fields using the keyboard arrow buttons.
void	setUseKeyboardPfKeys (boolean useKeyboardPfKeys) Use PF keys to send actions to the host.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

ARROWS_NONE

public static final int **ARROWS_NONE**

Constant value: 0

ARROWS_INPUT_FIELDS

public static final int **ARROWS_INPUT_FIELDS**

Constant value: 1

ARROWS_ALL_SCREEN

public static final int **ARROWS_ALL_SCREEN**

Constant value: 2

LABEL_FOCUS_NONE

public static final int **LABEL_FOCUS_NONE**

Constant value: 0

LABEL_FOCUS_UNDERLINE

public static final int **LABEL_FOCUS_UNDERLINE**

Constant value: 1

LABEL_FOCUS_BOLD

public static final int **LABEL_FOCUS_BOLD**

(continued from last page)

Constant value: 2

Constructors

GXInstantEmulatorConfig

```
public GXInstantEmulatorConfig()
```

Methods

isAutoSkipAllFields

```
public boolean isAutoSkipAllFields()
```

Determines whether or not the cursor will automatically move to the next input field once the current input field is filled with text (applies to all input fields).

Returns:

is skip to the next input field when the current input field is filled with content

setAutoSkipAllFields

```
public void setAutoSkipAllFields(boolean autoSkipAllFields)
```

Determines whether or not the cursor will automatically move to the next input field once the current input field is filled with text (applies to all input fields).

Parameters:

autoSkipAllFields - enables the cursor to automatically move to the next field

get_AutoSkipAllFields

```
public boolean get_AutoSkipAllFields()
```

For .NET framework usage. Expose the method as a property.

set_AutoSkipAllFields

```
public void set_AutoSkipAllFields(boolean autoSkipAllFields)
```

For .NET framework usage. Expose the method as a property.

getDoubleClickActionKey

```
public String getDoubleClickActionKey()
```

Sends the specified action key to the host when double-clicking on a label.

Returns:

the action key to send

setDoubleClickActionKey

```
public void setDoubleClickActionKey(String doubleClickActionKey)
```

Sends the specified action key to the host when double-clicking on a label.

(continued from last page)

Parameters:

doubleClickActionKey - the action key to send

get_DoubleClickActionKey

```
public String get_DoubleClickActionKey()
```

For .NET framework usage. Expose the method as a property.

set_DoubleClickActionKey

```
public void set_DoubleClickActionKey(String doubleClickActionKey)
```

For .NET framework usage. Expose the method as a property.

getLabelFocus

```
public int getLabelFocus()
```

This option allows you to determine whether the font style of a protected field will become underline, bold or will not change when a user either clicks on the protected field or moves between the protected fields using the keyboard arrow buttons.

Returns:

the look-&-feel of a label when it is clicked

See Also:

[LABEL_FOCUS_NONE](#)

[LABEL_FOCUS_UNDERLINE](#)

[LABEL_FOCUS_BOLD](#)

setLabelFocus

```
public void setLabelFocus(int labelFocus)
```

This option allows you to determine whether the font style of a protected field will become underline, bold or will not change when a user either clicks on the protected field or moves between the protected fields using the keyboard arrow buttons.

Parameters:

labelFocus - the look-&-feel of a label when it is clicked

See Also:

[LABEL_FOCUS_NONE](#)

[LABEL_FOCUS_UNDERLINE](#)

[LABEL_FOCUS_BOLD](#)

get_LabelFocus

```
public int get_LabelFocus()
```

For .NET framework usage. Expose the method as a property.

set_LabelFocus

```
public void set_LabelFocus(int labelFocus)
```

For .NET framework usage. Expose the method as a property.

isTabOnInputsOnly

```
public boolean isTabOnInputsOnly()
```

Determines whether the TAB key navigates between the input (unprotected) fields of the screen only, or also between additional buttons and hyperlinks in the Web page.

Returns:

the tabbing behavior

setTabOnInputsOnly

```
public void setTabOnInputsOnly(boolean tabOnInputsOnly)
```

Determines whether the TAB key navigates between the input (unprotected) fields of the screen only, or also between additional buttons and hyperlinks in the Web page.

Parameters:

tabOnInputsOnly - the tabbing behavior

get_TabOnInputsOnly

```
public boolean get_TabOnInputsOnly()
```

For .NET framework usage. Expose the method as a property.

set_TabOnInputsOnly

```
public void set_TabOnInputsOnly(boolean tabOnInputsOnly)
```

For .NET framework usage. Expose the method as a property.

getUseArrows

```
public int getUseArrows()
```

Determines the arrow keys' navigation behavior (none, input fields or all screen).

Returns:

the arrow keys navigation behavior

See Also:

[ARROWS_NONE](#)

[ARROWS_INPUT_FIELDS](#)

[ARROWS_ALL_SCREEN](#)

setUseArrows

```
public void setUseArrows(int useArrows)
```

This option allows you to determine whether the font style of a protected field will become underline, bold or will not change when a user either clicks on the protected field or moves between the protected fields using the keyboard arrow buttons.

Parameters:

useArrows - the arrow keys navigation behavior

See Also:

(continued from last page)

[ARROWS_NONE](#)
[ARROWS_INPUT_FIELDS](#)
[ARROWS_ALL_SCREEN](#)

get_UseArrows

```
public int get_UseArrows()
```

For .NET framework usage. Expose the method as a property.

set_UseArrows

```
public void set_UseArrows(int useArrows)
```

For .NET framework usage. Expose the method as a property.

isUseKeyboardPfKeys

```
public boolean isUseKeyboardPfKeys()
```

Use PF keys to send actions to the host. Default value: true.

Returns:

if the pf keys on the browser are activated

setUseKeyboardPfKeys

```
public void setUseKeyboardPfKeys(boolean useKeyboardPfKeys)
```

Use PF keys to send actions to the host. Default value: true.

Parameters:

useKeyboardPfKeys - if the pf keys on the browser should be activated

get_UseKeyboardPfKeys

```
public boolean get_UseKeyboardPfKeys()
```

For .NET framework usage. Expose the method as a property.

set_UseKeyboardPfKeys

```
public void set_UseKeyboardPfKeys(boolean useKeyboardPfKeys)
```

For .NET framework usage. Expose the method as a property.

getColorSets

```
public String getColorSets()
```

This functionality enables the end user select one of the pre-defined style sheets for instant screens. In the emulation template this functionality is available by default ("change color set" link in the page footer). These relative css file names must be separated by a comma. For example: css/white.css,css/black.css

Returns:

list of relative css file names separate by comma

(continued from last page)

setColorSets

```
public void setColorSets(String colorSets)
```

This functionality enables the end user select one of the pre-defined style sheets for instant screens. In the emulation template this functionality is available by default ("change color set" link in the page footer). These relative css file names must be separated by a comma. For example: css/white.css, css/black.css

Parameters:

colorSets - list of relative css file names separate by comma

get_ColorSets

```
public String get_ColorSets()
```

For .NET framework usage. Expose the method as a property.

set_ColorSets

```
public void set_ColorSets(String colorSets)
```

For .NET framework usage. Expose the method as a property.

isBlockNumericFields

```
public boolean isBlockNumericFields()
```

Determines whether it will be possible to type non-numeric characters in numeric input fields. The type of the field is a property of the host field which the input field is based on.

Returns:

if to block numeric fields

setBlockNumericFields

```
public void setBlockNumericFields(boolean blockNumericFields)
```

Determines whether it will be possible to type non-numeric characters in numeric input fields. The type of the field is a property of the host field which the input field is based on.

Parameters:

blockNumericFields - if to block numeric fields

get_BlockNumericFields

```
public boolean get_BlockNumericFields()
```

For .NET framework usage. Expose the method as a property.

set_BlockNumericFields

```
public void set_BlockNumericFields(boolean blockNumericFields)
```

For .NET framework usage. Expose the method as a property.

isCaretAtEndOfField

```
public boolean isCaretAtEndOfField()
```

(continued from last page)

Determines whether the caret's position should be at the end of the input fields.

Returns:

if to place caret position at the end of input fields

setCaretAtEndOfField

```
public void setCaretAtEndOfField(boolean caretAtEndOfField)
```

Determines whether the caret's position should be at the end of the input fields. Not applicable when "Select content when content on input field" is active.

Parameters:

caretAtEndOfField - if to place caret position at the end of input fields

get_CaretAtEndOfField

```
public boolean get_CaretAtEndOfField()
```

For .NET framework usage. Expose the method as a property.

set_CaretAtEndOfField

```
public void set_CaretAtEndOfField(boolean caretAtEndOfField)
```

For .NET framework usage. Expose the method as a property.

isHandleMenuSelection

```
public boolean isHandleMenuSelection()
```

Enables basic menu support: when clicking on a menu item, the corresponding number is automatically placed in the option field. The screen should contain only one input field. The clicked label (menu item) must have a number next to it.

Returns:

if to support menu selection

setHandleMenuSelection

```
public void setHandleMenuSelection(boolean handleMenuSelection)
```

Enables basic menu support: when clicking on a menu item, the corresponding number is automatically placed in the option field. The screen should contain only one input field. The clicked label (menu item) must have a number next to it.

Parameters:

handleMenuSelection - if to support menu selection

get_HandleMenuSelection

```
public boolean get_HandleMenuSelection()
```

For .NET framework usage. Expose the method as a property.

set_HandleMenuSelection

```
public void set_HandleMenuSelection(boolean handleMenuSelection)
```

For .NET framework usage. Expose the method as a property.

isSelectFieldOnFocus

```
public boolean isSelectFieldOnFocus()
```

Determines whether when moving the cursor to the following field (using the arrows or TAB key), the field content will be selected and then overwritten or the text will not be selected and when typing, the text will be inserted in the field.

Returns:

if to select the content of input field when it is focus

setSelectFieldOnFocus

```
public void setSelectFieldOnFocus(boolean selectFieldOnFocus)
```

Determines whether when moving the cursor to the following field (using the arrows or TAB key), the field content will be selected and then overwritten or the text will not be selected and when typing, the text will be inserted in the field.

Parameters:

selectFieldOnFocus - if to select the content of input field when it is focus

get_SelectFieldOnFocus

```
public boolean get_SelectFieldOnFocus()
```

For .NET framework usage. Expose the method as a property.

set_SelectFieldOnFocus

```
public void set_SelectFieldOnFocus(boolean selectFieldOnFocus)
```

For .NET framework usage. Expose the method as a property.

isShowBlinkingFields

```
public boolean isShowBlinkingFields()
```

Some hosts contain definitions determining that certain fields should blink. This feature enables these fields to blink in the browser.

Returns:

if to show blinking host fields to blink in the browser

setShowBlinkingFields

```
public void setShowBlinkingFields(boolean showBlinkingFields)
```

Some hosts contain definitions determining that certain fields should blink. This feature enables these fields to blink in the browser.

Parameters:

showBlinkingFields - if to show blinking host fields to blink in the browser

get_ShowBlinkingFields

```
public boolean get_ShowBlinkingFields()
```

For .NET framework usage. Expose the method as a property.

set_ShowBlinkingFields

```
public void set_ShowBlinkingFields(boolean showBlinkingFields)
```

Parameters:

showBlinkingFields

isDoJapaneseDataTypeValidityCheck

```
public boolean isDoJapaneseDataTypeValidityCheck()
```

setDoJapaneseDataTypeValidityCheck

```
public void setDoJapaneseDataTypeValidityCheck(boolean doJapaneseDataTypeValidityCheck)
```

get_DoJapaneseDataTypeValidityCheck

```
public boolean get_DoJapaneseDataTypeValidityCheck()
```

For .NET framework usage. Expose the method as a property.

set_DoJapaneseDataTypeValidityCheck

```
public void set_DoJapaneseDataTypeValidityCheck(boolean doJapaneseDataTypeValidityCheck)
```

For .NET framework usage. Expose the method as a property.

isBlinkingCaret

```
public boolean isBlinkingCaret()
```

setBlinkingCaret

```
public void setBlinkingCaret(boolean blinkingCaret)
```

Displays a blinking caret in input fields

Parameters:

blinkingCaret

get_BlinkingCaret

```
public boolean get_BlinkingCaret()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

set_BlinkingCaret

```
public void set_BlinkingCaret(boolean blinkingCaret)
```

For .NET framework usage. Expose the method as a property.

isEmulationPasteBehavior

```
public boolean isEmulationPasteBehavior()
```

Determines whether the paste behavior of text will be as in terminal emulators, that once a field is filled, the remaining text is pasted in the following field or whether the text will be pasted in a single field. Only supported in Internet Explorer.

Returns:

setEmulationPasteBehavior

```
public void setEmulationPasteBehavior(boolean emulationPasteBehavior)
```

Determines whether the paste behavior of text will be as in terminal emulators, that once a field is filled, the remaining text is pasted in the following field or whether the text will be pasted in a single field. Only supported in Internet Explorer.

Parameters:

emulationPasteBehavior

get_EmulationPasteBehavior

```
public boolean get_EmulationPasteBehavior()
```

For .NET framework usage. Expose the method as a property.

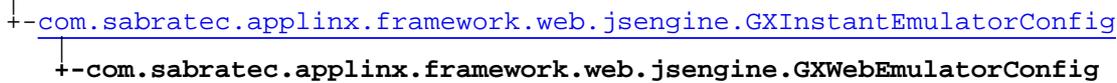
set_EmulationPasteBehavior

```
public void set_EmulationPasteBehavior(boolean emulationPasteBehavior)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.web.jsengine Class GXWebEmulatorConfig

java.lang.Object



public class **GXWebEmulatorConfig**
extends [GXInstantEmulatorConfig](#)

Configuration class for html emulation web pages (generated & instant). Generated to XML file and loaded on the client side

Fields inherited from class [com.sabratec.applinx.framework.web.jsengine.GXInstantEmulatorConfig](#)

[ARROWS_ALL_SCREEN](#), [ARROWS_INPUT_FIELDS](#), [ARROWS_NONE](#), [LABEL_FOCUS_BOLD](#), [LABEL_FOCUS_NONE](#), [LABEL_FOCUS_UNDERLINE](#)

Constructor Summary

public	GXWebEmulatorConfig()
--------	---------------------------------------

Method Summary

boolean	get_AttachInputTagEvents() For .NET framework usage.
boolean	get_CheckHostScreenUpdate() For .NET framework usage.
boolean	get_LoadEmulationComponent() For .NET framework usage.
boolean	get_LoadPrinter() For .NET framework usage.
boolean	get_SupportTypeAhead() For .NET framework usage.
String	get_UserExitsFile() For .NET framework usage.
String	getUserExitsFile() Defines a user exits file for the framework
boolean	isAttachInputTagEvents() Determine whether to capture input tag events : onkey, onkeyup, onkeypress, onselectstart, onpaste, onblur, onclick.
boolean	isCheckHostScreenUpdate() Determines whether to continuously check in the background for changes in the host screen.
boolean	isLoadEmulationComponent() Deprecated. <i>should be configured for Natrual data transfer or type ahead seperatly</i>

boolean	isLoadPrinter() Used to determine whether to load the printer applet within internal frame.
boolean	isSupportTypeAhead()
void	set_AttachInputTagEvents (boolean attachInputTagEvents) For .NET framework usage.
void	set_CheckHostScreenUpdate (boolean checkHostScreenUpdate) For .NET framework usage.
void	set_LoadEmulationComponent (boolean isLoadEmulationComponent) For .NET framework usage.
void	set_LoadPrinter (boolean isLoadPrinter) For .NET framework usage.
void	set_SupportTypeAhead (boolean supportTypeAhead) For .NET framework usage.
void	set_UserExitsFile (String userExitsFile) For .NET framework usage.
void	setAttachInputTagEvents (boolean attachInputTagEvents) Determine whether to capture input tag events : onkey, onkeyup, onkeypress, onselectstart, onpaste, onblur, onclick.
void	setCheckHostScreenUpdate (boolean checkHostScreenUpdate) Determines whether to continuously check in the background for changes in the host screen.
void	setLoadEmulationComponent (boolean isLoadEmulationComponent) Deprecated. <i>should be configured for Natrual data transfer or type ahead seperatly</i>
void	setLoadPrinter (boolean isLoadPrinter) Used to determine whether to load the printer applet within internal frame.
void	setSupportTypeAhead (boolean supportTypeAhead) Determines whether to enable the user to type continuously, without waiting for the browser to display the next page.
void	setUserExitsFile (String userExitsFile) Defines a user exits file for the framework

Methods inherited from class[com.sabratec.applinx.framework.web.jsengine.GXInstantEmulatorConfig](#)

[get_AutoSkipAllFields](#), [get_BlinkingCaret](#), [get_BlockNumericFields](#),
[get_CaretAtEndOfField](#), [get_ColorSets](#), [get_DoJapaneseDataTypeValidityCheck](#),
[get_DoubleClickActionKey](#), [get_EmulationPasteBehavior](#), [get_HandleMenuSelection](#),
[get_LabelFocus](#), [get_SelectFieldOnFocus](#), [get_ShowBlinkingFields](#), [get_TabOnInputsOnly](#),
[get_UseArrows](#), [get_UseKeyboardPfKeys](#), [getColorSets](#), [getDoubleClickActionKey](#),
[getLabelFocus](#), [getUseArrows](#), [isAutoSkipAllFields](#), [isBlinkingCaret](#),
[isBlockNumericFields](#), [isCaretAtEndOfField](#), [isDoJapaneseDataTypeValidityCheck](#),
[isEmulationPasteBehavior](#), [isHandleMenuSelection](#), [isSelectFieldOnFocus](#),
[isShowBlinkingFields](#), [isTabOnInputsOnly](#), [isUseKeyboardPfKeys](#), [set_AutoSkipAllFields](#),
[set_BlinkingCaret](#), [set_BlockNumericFields](#), [set_CaretAtEndOfField](#), [set_ColorSets](#),
[set_DoJapaneseDataTypeValidityCheck](#), [set_DoubleClickActionKey](#),
[set_EmulationPasteBehavior](#), [set_HandleMenuSelection](#), [set_LabelFocus](#),
[set_SelectFieldOnFocus](#), [set_ShowBlinkingFields](#), [set_TabOnInputsOnly](#), [set_UseArrows](#),
[set_UseKeyboardPfKeys](#), [setAutoSkipAllFields](#), [setBlinkingCaret](#), [setBlockNumericFields](#),
[setCaretAtEndOfField](#), [setColorSets](#), [setDoJapaneseDataTypeValidityCheck](#),
[setDoubleClickActionKey](#), [setEmulationPasteBehavior](#), [setHandleMenuSelection](#),
[setLabelFocus](#), [setSelectFieldOnFocus](#), [setShowBlinkingFields](#), [setTabOnInputsOnly](#),
[setUseArrows](#), [setUseKeyboardPfKeys](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXWebEmulatorConfig

```
public GXWebEmulatorConfig()
```

Methods

isLoadPrinter

```
public boolean isLoadPrinter()
```

Used to determine whether to load the printer applet within internal frame. The printlet is loaded into an invisible frame rather than opened in a new window.

Clicking the printer link will display the printlet in the main window, clicking Hide printer in the printlet screen will make it disappear and redisplay the session frame.

Returns:

if to load the printer applet within internal frame

setLoadPrinter

```
public void setLoadPrinter(boolean isLoadPrinter)
```

Used to determine whether to load the printer applet within internal frame. The printlet is loaded into an invisible frame rather than opened in a new window.

Clicking the printer link will display the printlet in the main window, clicking Hide printer in the printlet screen will make it disappear and redisplay the session frame.

Parameters:

`isLoadPrinter` - determine if to load the printer applet within internal frame

get_LoadPrinter

```
public boolean get_LoadPrinter()
```

For .NET framework usage. Expose the method as a property.

set_LoadPrinter

```
public void set_LoadPrinter(boolean isLoadPrinter)
```

For .NET framework usage. Expose the method as a property.

isLoadEmulationComponent

```
public boolean isLoadEmulationComponent()
```

Deprecated. *should be configured for Natrual data transfer or type ahead seperatly*

setLoadEmulationComponent

```
public void setLoadEmulationComponent(boolean isLoadEmulationComponent)
```

Deprecated. *should be configured for Natrual data transfer or type ahead seperatly*

getUserExitsFile

```
public String getUserExitsFile()
```

Defines a user exits file for the framework

Returns:

a user exits file for the framework

setUserExitsFile

```
public void setUserExitsFile(String userExitsFile)
```

Defines a user exits file for the framework

Parameters:

userExitsFile - a user exits file for the framework

get_UserExitsFile

```
public String get_UserExitsFile()
```

For .NET framework usage. Expose the method as a property.

set_UserExitsFile

```
public void set_UserExitsFile(String userExitsFile)
```

For .NET framework usage. Expose the method as a property.

isSupportTypeAhead

```
public boolean isSupportTypeAhead()
```

setSupportTypeAhead

```
public void setSupportTypeAhead(boolean supportTypeAhead)
```

Determines whether to enable the user to type continuously, without waiting for the browser to display the next page. This feature uses an ActiveX component (works in IE only). This feature does not work when a modal window is open, or during the process of opening/closing a pop-up window.

Parameters:

supportTypeAhead

get_SupportTypeAhead

```
public boolean get_SupportTypeAhead()
```

For .NET framework usage. Expose the method as a property.

set_SupportTypeAhead

```
public void set_SupportTypeAhead(boolean supportTypeAhead)
```

For .NET framework usage. Expose the method as a property.

isCheckHostScreenUpdate

```
public boolean isCheckHostScreenUpdate()
```

Determines whether to continuously check in the background for changes in the host screen. If the host screen has changed, the browser is refreshed and a JavaScript event is triggered. As the server is checked continuously, more server resources are required for this. By default, the server is checked every 3, 6, 12 and then every 24 seconds. These intervals can be customized using user exits (refer to the ApplinX documentation for further details).

Returns:

setCheckHostScreenUpdate

```
public void setCheckHostScreenUpdate(boolean checkHostScreenUpdate)
```

Determines whether to continuously check in the background for changes in the host screen. If the host screen has changed, the browser is refreshed and a JavaScript event is triggered. As the server is checked continuously, more server resources are required for this. By default, the server is checked every 3, 6, 12 and then every 24 seconds. These intervals can be customized using user exits (refer to the ApplinX documentation for further details).

Parameters:

checkHostScreenUpdate

get_CheckHostScreenUpdate

```
public boolean get_CheckHostScreenUpdate()
```

For .NET framework usage. Expose the method as a property.

set_CheckHostScreenUpdate

```
public void set_CheckHostScreenUpdate(boolean checkHostScreenUpdate)
```

For .NET framework usage. Expose the method as a property.

setAttachInputTagEvents

```
public void setAttachInputTagEvents(boolean attachInputTagEvents)
```

Determine whether to capture input tag events : onkey, onkeyup, onkeypress, onselectstart, onpaste, onblur, onclick. Should be used only when heavy pages contains a huge amount of input tags (over 100) which may slow the web page load time. Disclaimer *****: The following features will not work when this configuration is set to false: Blinking caret, Block numeric fields, auto skip, right adjust, auto enter, select field on focus, emulation paste behavior

Parameters:

attachInputTagEvents

isAttachInputTagEvents

```
public boolean isAttachInputTagEvents()
```

Determine whether to capture input tag events : onkey, onkeyup, onkeypress, onselectstart, onpaste, onblur, onclick. Should be used only when heavy pages contains a huge amount of input tags (over 100) which may slow the web page load time. Disclaimer *****: The following features will not work when this configuration is set to false: Blinking caret, Block numeric fields, auto skip, right adjust, auto enter, select field on focus, emulation paste behavior

Returns:

set_AttachInputTagEvents

```
public void set_AttachInputTagEvents(boolean attachInputTagEvents)
```

For .NET framework usage. Expose the method as a property.

get_AttachInputTagEvents

```
public boolean get_AttachInputTagEvents()
```

For .NET framework usage. Expose the method as a property.

get_LoadEmulationComponent

```
public boolean get_LoadEmulationComponent()
```

For .NET framework usage. Expose the method as a property.

set_LoadEmulationComponent

```
public void set_LoadEmulationComponent(boolean isLoadEmulationComponent)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.web.jsengine Class GXWindowConfig

java.lang.Object

└-com.sabratec.applinx.framework.web.jsengine.GXWindowConfig

public class **GXWindowConfig**
extends Object

Constructor Summary

public	GXWindowConfig()
--------	----------------------------------

Method Summary

int	get_DefaultOpenedWindowHeight() For .NET framework usage.
int	get_DefaultOpenedWindowLeft() For .NET framework usage.
int	get_DefaultOpenedWindowTop() For .NET framework usage.
int	get_DefaultOpenedWindowWidth() For .NET framework usage.
String	get_OpenedWindowAttributes() For .NET framework usage.
boolean	get_OpenWindowCenter() For .NET framework usage.
String	get_PopupCloseSentKey() For .NET framework usage.
int	getDefaultOpenedWindowHeight() Determines the default window's height when using the method <code>gx_window.open</code>
int	getDefaultOpenedWindowLeft() Determines the default window's left position when using the method <code>gx_window.open</code>
int	getDefaultOpenedWindowTop() Determines the default window's top position when using the method <code>gx_window.open</code>
int	getDefaultOpenedWindowWidth() Determines the default window's width when using the method <code>gx_window.open</code>
String	getOpenedWindowAttributes() Determines the opened window's attributes when using the method <code>gx_window.open</code>
String	getPopupCloseSentKey() Determines the key to send to the host when the modal window is closed

boolean	isOpenWindowCenter() According to the selected radio button, determines whether the popup window is opened in the center of the screen or in a specific position.
void	set_DefaultOpenedWindowHeight(int defaultOpenedWindowHeight) For .NET framework usage.
void	set_DefaultOpenedWindowLeft(int defaultOpenedWindowLeft) For .NET framework usage.
void	set_DefaultOpenedWindowTop(int defaultOpenedWindowTop) For .NET framework usage.
void	set_DefaultOpenedWindowWidth(int defaultOpenedWindowWidth) For .NET framework usage.
void	set_OpenedWindowAttributes(String openedWindowAttributes) For .NET framework usage.
void	set_OpenWindowCenter(boolean openWindowCenter) For .NET framework usage.
void	set_PopupCloseSentKey(String popupCloseSentKey) For .NET framework usage.
void	setDefaultOpenedWindowHeight(int defaultOpenedWindowHeight) Determines the default window's height when using the method <code>gx_window.open</code>
void	setDefaultOpenedWindowLeft(int defaultOpenedWindowLeft) Determines the default window's left position when using the method <code>gx_window.open</code>
void	setDefaultOpenedWindowTop(int defaultOpenedWindowTop) Determines the default window's top position when using the method <code>gx_window.open</code>
void	setDefaultOpenedWindowWidth(int defaultOpenedWindowWidth) Determines the default window's width when using the method <code>gx_window.open</code>
void	setOpenedWindowAttributes(String openedWindowAttributes) Determines the opened window's attributes when using the method <code>gx_window.open</code>
void	setOpenWindowCenter(boolean openWindowCenter) According to the selected radio button, determines whether the popup window is opened in the center of the screen or in a specific position.
void	setPopupCloseSentKey(String popupCloseSentKey) Determines the key to send to the host when the modal window is closed

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXWindowConfig

```
public GXWindowConfig()
```

(continued from last page)

Methods

getDefaultOpenedWindowHeight

```
public int getDefaultOpenedWindowHeight()
```

Determines the default window's height when using the method `gx_window.open`

Returns:

the default window height

setDefaultOpenedWindowHeight

```
public void setDefaultOpenedWindowHeight(int defaultOpenedWindowHeight)
```

Determines the default window's height when using the method `gx_window.open`

Parameters:

`defaultOpenedWindowHeight` - the default window height

getDefaultOpenedWindowLeft

```
public int getDefaultOpenedWindowLeft()
```

Determines the default window's left position when using the method `gx_window.open`

Returns:

the default window left position

setDefaultOpenedWindowLeft

```
public void setDefaultOpenedWindowLeft(int defaultOpenedWindowLeft)
```

Determines the default window's left position when using the method `gx_window.open`

Parameters:

`defaultOpenedWindowLeft` - the default window left position

isOpenWindowCenter

```
public boolean isOpenWindowCenter()
```

According to the selected radio button, determines whether the popup window is opened in the center of the screen or in a specific position.

Returns:

`openWindowCenter`

setOpenWindowCenter

```
public void setOpenWindowCenter(boolean openWindowCenter)
```

According to the selected radio button, determines whether the popup window is opened in the center of the screen or in a specific position.

Parameters:

`openWindowCenter`

getDefaultOpenedWindowTop

```
public int getDefaultOpenedWindowTop()
```

Determines the default window's top position when using the method `gx_window.open`

Returns:

the default window top position

setDefaultOpenedWindowTop

```
public void setDefaultOpenedWindowTop(int defaultOpenedWindowTop)
```

Determines the default window's top position when using the method `gx_window.open`

Parameters:

`defaultOpenedWindowTop` - the default window top position

getDefaultOpenedWindowWidth

```
public int getDefaultOpenedWindowWidth()
```

Determines the default window's width when using the method `gx_window.open`

Returns:

the default window width

setDefaultOpenedWindowWidth

```
public void setDefaultOpenedWindowWidth(int defaultOpenedWindowWidth)
```

Determines the default window's width when using the method `gx_window.open`

Parameters:

`defaultOpenedWindowWidth` - the default window width

getOpenedWindowAttributes

```
public String getOpenedWindowAttributes()
```

Determines the opened window's attributes when using the method `gx_window.open`

Returns:

the opened window attributes

setOpenedWindowAttributes

```
public void setOpenedWindowAttributes(String openedWindowAttributes)
```

Determines the opened window's attributes when using the method `gx_window.open`

Parameters:

`openedWindowAttributes` - the opened window attributes

getPopupCloseSentKey

```
public String getPopupCloseSentKey()
```

(continued from last page)

Determines the key to send to the host when the modal window is closed

Returns:

setPopupCloseSentKey

```
public void setPopupCloseSentKey(String popupCloseSentKey)
```

Determines the key to send to the host when the modal window is closed

Parameters:

popupCloseSentKey

get_DefaultOpenedWindowHeight

```
public int get_DefaultOpenedWindowHeight()
```

For .NET framework usage. Expose the method as a property.

set_DefaultOpenedWindowHeight

```
public void set_DefaultOpenedWindowHeight(int defaultOpenedWindowHeight)
```

For .NET framework usage. Expose the method as a property.

get_DefaultOpenedWindowLeft

```
public int get_DefaultOpenedWindowLeft()
```

For .NET framework usage. Expose the method as a property.

set_DefaultOpenedWindowLeft

```
public void set_DefaultOpenedWindowLeft(int defaultOpenedWindowLeft)
```

For .NET framework usage. Expose the method as a property.

get_DefaultOpenedWindowTop

```
public int get_DefaultOpenedWindowTop()
```

For .NET framework usage. Expose the method as a property.

set_DefaultOpenedWindowTop

```
public void set_DefaultOpenedWindowTop(int defaultOpenedWindowTop)
```

For .NET framework usage. Expose the method as a property.

get_DefaultOpenedWindowWidth

```
public int get_DefaultOpenedWindowWidth()
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

set_DefaultOpenedWindowWidth

```
public void set_DefaultOpenedWindowWidth(int defaultOpenedWindowWidth)
```

For .NET framework usage. Expose the method as a property.

get_OpenedWindowAttributes

```
public String get_OpenedWindowAttributes()
```

For .NET framework usage. Expose the method as a property.

set_OpenedWindowAttributes

```
public void set_OpenedWindowAttributes(String openedWindowAttributes)
```

For .NET framework usage. Expose the method as a property.

get_PopupCloseSentKey

```
public String get_PopupCloseSentKey()
```

For .NET framework usage. Expose the method as a property.

set_PopupCloseSentKey

```
public void set_PopupCloseSentKey(String popupCloseSentKey)
```

For .NET framework usage. Expose the method as a property.

get_OpenWindowCenter

```
public boolean get_OpenWindowCenter()
```

For .NET framework usage. Expose the method as a property.

set_OpenWindowCenter

```
public void set_OpenWindowCenter(boolean openWindowCenter)
```

For .NET framework usage. Expose the method as a property.

Package

**com.sabratec.applinx.framework.web.nd
t**

com.sabratec.applinx.framework.web.ndt Class GXNdtConfig

java.lang.Object

↳ com.sabratec.applinx.framework.web.ndt.GXNdtConfig

All Implemented Interfaces:

java.io.Serializable

```
public class GXNdtConfig
extends Object
implements java.io.Serializable
```

Constructor Summary

public	GXNdtConfig()
--------	-------------------------------

Method Summary

boolean	get_AutomaticDownload() For .NET framework usage.
String	get_DefaultExtension() For .NET framework usage.
boolean	get_DownloadAtOnce() For .NET framework usage.
String	get_HostDownloadForm() For .NET framework usage.
String	get_UploadForm() For .NET framework usage.
boolean	get_UseActiveX() For .NET framework usage.
String	get_WebDownloadForm() For .NET framework usage.
String	getDefaultExtension()
String	getHostDownloadForm() For internal usage
String	getUploadForm() For internal usage
String	getWebDownloadForm() For internal usage

boolean	isAutomaticDownload() Determines whether to automatically start downloading a file, when the first download screen is displayed.
boolean	isDownloadAtOnce() This parameter determines whether to download the file as a whole, or whether to download the file in blocks, appending each block to the existing file.
boolean	isUseActiveX() Determine whether to use ActiveX for natural data transfer
void	set_AutomaticDownload (boolean isAutomaticDownload) For .NET framework usage.
void	set_DefaultExtension (String defaultExtension) For .NET framework usage.
void	set_DownloadAtOnce (boolean downloadAtOnce) For .NET framework usage.
void	set_HostDownloadForm (String hostDownloadForm) For .NET framework usage.
void	set_UploadForm (String uploadForm) For .NET framework usage.
void	set_UseActiveX (boolean useActiveX) For .NET framework usage.
void	set_WebDownloadForm (String webDownloadForm) For .NET framework usage.
void	setAutomaticDownload (boolean isAutomaticDownload) Determines whether to automatically start downloading a file, when the first download screen is displayed.
void	setDefaultExtension (String defaultExtension) Enables defining the default file extension: TXT or CSV.
void	setDownloadAtOnce (boolean downloadAtOnce) This parameter determines whether to download the file as a whole, or whether to download the file in blocks, appending each block to the existing file.
void	setHostDownloadForm (String hostDownloadForm) For internal usage
void	setUploadForm (String uploadForm) For internal usage
void	setUseActiveX (boolean isUseActiveX) Defining to use the ActiveX component, enables the work flow's behavior to be identical to that of Entire Connection.
void	setWebDownloadForm (String webDownloadForm) For internal usage

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXNdtConfig

```
public GXNdtConfig()
```

Methods

getHostDownloadForm

```
public String getHostDownloadForm()
```

For internal usage

setHostDownloadForm

```
public void setHostDownloadForm(String hostDownloadForm)
```

For internal usage

getWebDownloadForm

```
public String getWebDownloadForm()
```

For internal usage

setWebDownloadForm

```
public void setWebDownloadForm(String webDownloadForm)
```

For internal usage

getUploadForm

```
public String getUploadForm()
```

For internal usage

setUploadForm

```
public void setUploadForm(String uploadForm)
```

For internal usage

isAutomaticDownload

```
public boolean isAutomaticDownload()
```

Determines whether to automatically start downloading a file, when the first download screen is displayed. When not selected, a message appears informing you that the host requires you to download a Natural file. If there is a record count from the download, it will be displayed on the page.

Returns:

setAutomaticDownload

```
public void setAutomaticDownload(boolean isAutomaticDownload)
```

Determines whether to automatically start downloading a file, when the first download screen is displayed. When not selected, a message appears informing you that the host requires you to download a Natural file. If there is a record count from the download, it will be displayed on the page.

Parameters:

`isAutomaticDownload` - detrmines if to automatically start download a file, when the first download screen is displayed

get_AutomaticDownload

```
public boolean get_AutomaticDownload()
```

For .NET framework usage. Expose the method as a property.

set_AutomaticDownload

```
public void set_AutomaticDownload(boolean isAutomaticDownload)
```

For .NET framework usage. Expose the method as a property.

getDefaultExtension

```
public String getDefaultExtension()
```

setDefaultExtension

```
public void setDefaultExtension(String defaultExtension)
```

Enables defining the default file extension: TXT or CSV.

Parameters:

`defaultExtension`

get_DefaultExtension

```
public String get_DefaultExtension()
```

For .NET framework usage. Expose the method as a property.

set_DefaultExtension

```
public void set_DefaultExtension(String defaultExtension)
```

For .NET framework usage. Expose the method as a property.

isUseActiveX

```
public boolean isUseActiveX()
```

Determine whether to use ActiveX for natural data transfer

Returns:

(continued from last page)

whether to use ActiveX for natural data transfer

setUseActiveX

```
public void setUseActiveX(boolean isUseActiveX)
```

Defining to use the ActiveX component, enables the work flow's behavior to be identical to that of Entire Connection. This is relevant for Internet Explorer only.

Parameters:

isUseActiveX

get_UseActiveX

```
public boolean get_UseActiveX()
```

For .NET framework usage. Expose the method as a property.

set_UseActiveX

```
public void set_UseActiveX(boolean useActiveX)
```

For .NET framework usage. Expose the method as a property.

isDownloadAtOnce

```
public boolean isDownloadAtOnce()
```

This parameter determines whether to download the file as a whole, or whether to download the file in blocks, appending each block to the existing file. This parameter is typically set when expecting to download large files and is only relevant when working with ActiveX and with non Natural UNIX protocols which support Natural data transfer.

Returns:

setDownloadAtOnce

```
public void setDownloadAtOnce(boolean downloadAtOnce)
```

This parameter determines whether to download the file as a whole, or whether to download the file in blocks, appending each block to the existing file. This parameter is typically set when expecting to download large files and is only relevant when working with ActiveX and with non Natural UNIX protocols which support Natural data transfer.

Parameters:

downloadAtOnce

get_DownloadAtOnce

```
public boolean get_DownloadAtOnce()
```

For .NET framework usage. Expose the method as a property.

set_DownloadAtOnce

```
public void set_DownloadAtOnce(boolean downloadAtOnce)
```

For .NET framework usage. Expose the method as a property.

(continued from last page)

get_HostDownloadForm

```
public String get_HostDownloadForm()
```

For .NET framework usage. Expose the method as a property.

set_HostDownloadForm

```
public void set_HostDownloadForm(String hostDownloadForm)
```

For .NET framework usage. Expose the method as a property.

get_WebDownloadForm

```
public String get_WebDownloadForm()
```

For .NET framework usage. Expose the method as a property.

set_WebDownloadForm

```
public void set_WebDownloadForm(String webDownloadForm)
```

For .NET framework usage. Expose the method as a property.

get_UploadForm

```
public String get_UploadForm()
```

For .NET framework usage. Expose the method as a property.

set_UploadForm

```
public void set_UploadForm(String uploadForm)
```

For .NET framework usage. Expose the method as a property.

Package

**com.sabratec.applinx.framework.web.ss
0**

com.sabratec.applinx.framework.web.sso Class GXAbstractHttpUserPasswordRetriever

java.lang.Object

└-com.sabratec.applinx.framework.web.sso.GXAbstractHttpUserPasswordRetriever

All Implemented Interfaces:

[GXUserPasswordRetriever](#)

Direct Known Subclasses:

[GXHttpSessionUserPasswordRetriever](#), [GXHttpRequestUserPasswordRetriever](#)

public abstract class **GXAbstractHttpUserPasswordRetriever**

extends Object

implements [GXUserPasswordRetriever](#)

Constructor Summary

public	GXAbstractHttpUserPasswordRetriever ()
public	GXAbstractHttpUserPasswordRetriever (String userParameterName, String passwordParameterName)

Method Summary

void	adoptHttpWrapper (GXHttpWebWrapper httpWrapper)
String	getPasswordParameterName () For internal use
String	getUserParameterName () For internal use
void	setPasswordParameterName (String passwordParameterName) For internal use
void	setUserParameterName (String userParameterName) For internal use

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXUserPasswordRetriever](#)

[getPassword](#), [getUserName](#)

Constructors

(continued from last page)

GXAbstractHttpUserPasswordRetriever

```
public GXAbstractHttpUserPasswordRetriever()
```

GXAbstractHttpUserPasswordRetriever

```
public GXAbstractHttpUserPasswordRetriever(String userParameterName,  
                                           String passwordParameterName)
```

Methods

adoptHttpWrapper

```
public void adoptHttpWrapper(GXHttpWebWrapper httpWrapper)
```

getPasswordParameterName

```
public String getPasswordParameterName()
```

For internal use

setPasswordParameterName

```
public void setPasswordParameterName(String passwordParameterName)
```

For internal use

getUserParameterName

```
public String getUserParameterName()
```

For internal use

setUserParameterName

```
public void setUserParameterName(String userParameterName)
```

For internal use

com.sabratec.applinx.framework.web.sso Class GXHttpRequestUserPasswordRetriever

java.lang.Object

├- [com.sabratec.applinx.framework.web.sso.GXAbstractHttpUserPasswordRetriever](#)
└- **com.sabratec.applinx.framework.web.sso.GXHttpRequestUserPasswordRetriever**

All Implemented Interfaces:

[GXUserPasswordRetriever](#)

public class **GXHttpRequestUserPasswordRetriever**
extends [GXAbstractHttpUserPasswordRetriever](#)

Constructor Summary

public	GXHttpRequestUserPasswordRetriever()
public	GXHttpRequestUserPasswordRetriever (String userParameterName, String passwordParameterName)

Method Summary

String	getPassword()
String	getUserName()

Methods inherited from class

[com.sabratec.applinx.framework.web.sso.GXAbstractHttpUserPasswordRetriever](#)

[adoptHttpWrapper](#), [getPasswordParameterName](#), [getUserParameterName](#),
[setPasswordParameterName](#), [setUserParameterName](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXUserPasswordRetriever](#)

[getPassword](#), [getUserName](#)

Constructors

GXHttpRequestUserPasswordRetriever

public **GXHttpRequestUserPasswordRetriever**()

GXHttpRequestUserPasswordRetriever

```
public GXHttpRequestUserPasswordRetriever(String userParameterName,  
                                           String passwordParameterName)
```

Methods

getUserName

```
public String getUserName()
```

getPassword

```
public String getPassword()
```

com.sabratec.applinx.framework.web.sso Class GXHttpSessionUserPasswordRetriever

java.lang.Object



All Implemented Interfaces:

[GXUserPasswordRetriever](#)

public class **GXHttpSessionUserPasswordRetriever**
extends [GXAbstractHttpUserPasswordRetriever](#)

Constructor Summary

public	GXHttpSessionUserPasswordRetriever()
public	GXHttpSessionUserPasswordRetriever (String userParameterName, String passwordParameterName)

Method Summary

String	getPassword()
String	getUserName()

Methods inherited from class

[com.sabratec.applinx.framework.web.sso.GXAbstractHttpUserPasswordRetriever](#)

[adoptHttpWrapper](#), [getPasswordParameterName](#), [getUserParameterName](#),
[setPasswordParameterName](#), [setUserParameterName](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.applinx.framework.sso.GXUserPasswordRetriever](#)

[getPassword](#), [getUserName](#)

Constructors

GXHttpSessionUserPasswordRetriever

public **GXHttpSessionUserPasswordRetriever**()

GXHttpSessionUserPasswordRetriever

```
public GXHttpSessionUserPasswordRetriever(String userParameterName,  
                                           String passwordParameterName)
```

Methods

getUserName

```
public String getUserName()
```

getPassword

```
public String getPassword()
```

Package

com.sabratec.applinx.presentation

This package and its sub packages are responsible for creating a tag representation output from a host screen. The tag representation output is used for creating Instant HTML pages from a host screen.

The following API enables registering as many transformation classes as you require. These transformations can manipulate the output by adding, removing, replacing and changing the screen tag model using a rich library of tags and an easy-to-use API.

The tags are rendered in absolute terms, as oppose to the relative rendering used previously. Rendering the HTML tags relatively caused indentation problems when trying to add or change elements or style sheets such as GUI elements, host windows and different fonts. In the following API, each tag is rendered with corresponding top/left attributes which places the tag in an exact position. The main advantage of this approach is that changing/adding tags/stylesheets doesn't affect the neighboring tags of the modified tag.

The Main entities used in the API:

Base Object Entities:

Host screen (com.sabratec.applinx.baseobject.GXIScreen)

The host screen entity (which is part of the base object API) is the data model that represents the host screen. The host screen is a collection of fields and additional screen data. The host screen is used in transformations as an event parameter. The host screen event parameter can be used for querying the host screen as to its field contents and properties. (Refer to BaseObject JavaDoc for further documentation).

Host field (com.sabratec.applinx.baseobject.GXIField)

The host field entity (which is part of the base object API) contains various ApplinX and/or host properties such as content, protected/unprotected, color, intensified, ApplinX application field name, etc. The host field is also a tag property for tags that are screen based. (Refer to BaseObject JavaDoc for further documentation).

General Entities:

Position (com.sabratec.util.GXPosition)

This class represents a position on the host screen. It is used by the host field and the tag to indicate a specific position on the host screen.

Rectangle (com.sabratec.util.GXRectangle)

This class represents a rectangle area of positions on the screen. This class is used to determine the screen area of the tags output in the Renderer configuration, and can perform area queries, on a specific area.

Instant API Entities:

Renderer

This entity is represented as an instant tag in the JSP/Instant control in .NET (in instant.jsp/aspx). The Renderer tag renders the HTML output based on the current host screen Renderer configuration settings and registered transformations.

Renderer Configuration

(com.sabratec.applinx.presentation.GXRenderConfig)

The Renderer Configuration class contains various configurations such as screen area, font size and sub configurations for various built-in transformations. Examples for such sub configurations include host keys, GUI elements, tables, windows, etc. Each sub configuration also allows disabling specific built-in transformations. The Renderer configuration provides transformation registration of the tag listener and completion listener.

Screen tag model

(com.sabratec.applinx.presentation.tags.GXIScreenTagModel)

The screen tag model is the model which contains a list of tags. The model provides various methods for adding, removing, replacing and searching tags. The final tag list in the screen tag model (after all transformations have been completed) will be rendered to the HTML output by the Renderer entity.

Tag (com.sabratec.applinx.presentation.tags.GXITag)

The tag entity is the root class of all tag types, such as text fields, labels, links, combo boxes etc. The tag is a host oriented entity.

The tag provides a reference to the host field, and allows locating tags by setting their position in host units (row, column). The initial position is derived from the host field, and can be modified by the developer. The position will be rendered to HTML units as top/left.

Each tag type contains methods relevant to its type. Special HTML tags are also available such as `GXHtmlGenericTag` for creating a generic tag by specifying the tag name and `GXHtmlString` for using direct strings and adding them to the screen tag model.

Tags factory

(com.sabratec.applinx.presentation.tags.html.GXHtmlTagFactory)

The tags factory is used for creating new HTML tags and for improving performance.

Syntax: `GXHtmlTagFactory.instance().newLink()`

This class contains methods for each type of tag.

Transformations

Transformations are listeners which are registered to the Renderer configuration by the developer, and allow modifying the screen tag model before it is rendered. The transformations can be one of the following types: Tag listeners or Completion listeners.

Note: All ApplinX special entities such as host keys, tables, GUI elements and windows are also represented as built-in transformations, and are performed automatically by the `Renderer` entity.

Tag listener(`com.sabratec.applinx.presentation.event.GXTagListener`)

When inheriting from this class, you will receive an event on the creation of each type of tag such as: `onNewTextField` , `onNewLabel` , `onNewButton` , etc. It should be used for tag level manipulations, such as changing the content and attributes, adding icons, etc.

Completion listener(`com.sabratec.applinx.presentation.event.GXICompletionListener`)

When implementing this class you will receive an `onComplete` event, which should be used for manipulating the entire tag model.

Render Event

(`com.sabratec.applinx.presentation.event.GXRenderEvent`)

An event is thrown by the `Renderer` to registered transformations when either a new tag is created (tag listener) or the screen tag model has completed its creation process (completion listener). The thrown event passes the `Render` event as a parameter. The `Render` event contains the host screen and the screen tag model. Use the screen tag model for manipulating the HTML output by modifying its contained tags.

Query (`com.sabratec.applinx.presentation.queries.GXITagQuery`)

Used for performing queries on the screen tag model. Each query retrieves a list of the tags that meet the query criteria. The instant API contains a few built-in queries such as a text query and area query. In addition, you can write your own queries by implementing the `GXITagQuery` interface.

com.sabratec.applinx.presentation Interface GXIBrowserSupportedFeatures

public interface **GXIBrowserSupportedFeatures**

Field Summary

public static final	BROWSER_WINDOW_SUPPORT Value: browser.window.support
public static final	HTML_INPUT_TYPE_DATE Value: html.inputtypes.date
public static final	HTML_INPUT_TYPE_DATETIME Value: html.inputtypes.datetime
public static final	HTML_INPUT_TYPE_MONTH Value: html.inputtypes.month

Method Summary

boolean	isFeatureSupported (String featureKey)
void	setFeatureSupport (String featureKey, boolean supported)

Fields

HTML_INPUT_TYPE_DATE

public static final java.lang.String **HTML_INPUT_TYPE_DATE**

Constant value: **html.inputtypes.date**

HTML_INPUT_TYPE_MONTH

public static final java.lang.String **HTML_INPUT_TYPE_MONTH**

Constant value: **html.inputtypes.month**

HTML_INPUT_TYPE_DATETIME

public static final java.lang.String **HTML_INPUT_TYPE_DATETIME**

Constant value: **html.inputtypes.datetime**

BROWSER_WINDOW_SUPPORT

```
public static final java.lang.String BROWSER_WINDOW_SUPPORT
```

Constant value: `browser.window.support`

Methods

isFeatureSupported

```
public boolean isFeatureSupported(String featureKey)
```

setFeatureSupport

```
public void setFeatureSupport(String featureKey,  
    boolean supported)
```

com.sabratec.applinx.presentation Class GXIllegalPositionException

java.lang.Object

├-GXGeneralException

└-com.sabratec.applinx.presentation.GXIllegalPositionException

public class **GXIllegalPositionException**
extends GXGeneralException

This exception is thrown when performing a query on a screen tag model that requires a position but the specified position is outside the screen tag model bounds.

Constructor Summary

public	GXIllegalPositionException (String message)
--------	-------------------------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXIllegalPositionException

public **GXIllegalPositionException**(String message)

Parameters:

message - The thrown message

com.sabratec.applinx.presentation Class GXPresentationConstants

java.lang.Object

└─com.sabratec.applinx.presentation.GXPresentationConstants

public class **GXPresentationConstants**
extends Object

This class contains general constants that are used by the API and its sub packages.

Field Summary

public static final	ALIGNMENT_HORIZONTAL Represents horizontal alignment Value: 1
public static final	ALIGNMENT_VERTICAL Represents vertical alignment Value: 0

Constructor Summary

public	GXPresentationConstants()
--------	-------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

ALIGNMENT_VERTICAL

public static final int **ALIGNMENT_VERTICAL**

Represents vertical alignment
Constant value: **0**

ALIGNMENT_HORIZONTAL

public static final int **ALIGNMENT_HORIZONTAL**

Represents horizontal alignment
Constant value: **1**

Constructors

GXPresentationConstants

public **GXPresentationConstants()**

(continued from last page)

com.sabratec.applinx.presentation Class GXRenderConfig

java.lang.Object

↳ com.sabratec.applinx.presentation.GXRenderConfig

All Implemented Interfaces:

java.io.Serializable

```
public class GXRenderConfig
extends Object
implements java.io.Serializable
```

This class is used for setting the Renderer configuration. It contains various configurations such as screen area, font size and sub classes for various built-in transformation configurations such as:

Host keys, GUI elements, Tables, Windows, etc.

Each configuration sub class allows disabling a specific built-in transformation.

This class also provides transformations registration of tag listener [GXTagListener](#) and completion listener [GXCompletionListener](#).

Constructor Summary

public	GXRenderConfig()
--------	----------------------------------

Method Summary

void	addCompletionListener(GXCompletionListener listener) Used for registering a listener class that can modify the screen tag model.
void	addTagListener(GXITagListener listener) Used for registering a listener class which accepts an event for each tag type.
Vector	get_CompleteListenersVector() For .NET framework usage.
GXEmulationTransformConfig	get_EmulationConfig() For .NET framework usage.
String	get_FontFamily() For .NET framework usage.
int	get_FontSize() For .NET framework usage.
GXGuiElementsTransformConfig	get_GuiElementsConfig() For .NET framework usage.
GXHostKeysTransformConfig	get_HostKeysConfig() For .NET framework usage.
GXRectangle	get_Rectangle() For .NET framework usage.

GXRectangle	get_RenderArea() For .NET framework usage.
boolean	get_RenderTagsFromRightToLeft() For .NET framework usage.
int	get_RowSpacingPrecentageFactor() For .NET framework usage.
GXTableTransformConfig	get_TableConfig() For .NET framework usage.
GXWindowFrameTransformConfig	get_WindowFrameConfig() For .NET framework usage.
GXCompletionListener[]	getCompletionListener() Used for retrieving all the registered completion listeners.
GXEmulationTransformConfig	getEmulationConfig() The emulation transformation configuration contains properties which determine the rendered tag look-and-feel and behavior.
String	getFontFamily() Sets the font family to be used for instant rendering.
int	getFontSize() Used for retrieving the font size.
double	getFontWidth()
GXGuiElementsTransformConfig	getGuiElementsConfig() The GUI elements transformation configuration.
GXHostKeysTransformConfig	getHostKeysConfig() The Host keys transformation configuration.
GXRectangle	getRenderArea() The rendered area of the host screen which the tags are rendered from.
int	getRowSpacingPrecentageFactor() Returns the row height to be used for instant rendering.
GXTableTransformConfig	getTableConfig() The table transformation configuration.
GXITagListener[]	getTagListeners() Used for retrieving all the registered tag listeners.
GXWindowFrameTransformConfig	getWindowFrameConfig() The window transformation configuration.
boolean	isRenderTagsFromRightToLeft() Determines that the HTML tags will be positioned from right to left.
void	removeAllListeners()
void	set_EmulationConfig(GXEmulationTransformConfig emulationConfig) For .NET framework usage.

void	set_FontFamily (String fontFamily) For .NET framework usage.
void	set_FontSize (int fontSize) For .NET framework usage.
void	set_GuiElementsConfig (GXGuiElementsTransformConfig guiElementsConfig) For .NET framework usage.
void	set_HostKeysConfig (GXHostKeysTransformConfig hostKeysConfig) For .NET framework usage.
void	set_Rectangle (GXRectangle rectangle) For .NET framework usage.
void	set_RenderArea (GXRectangle rectangle) For .NET framework usage.
void	set_RenderTagsFromRightToLeft (boolean renderTagsFromRightToLeft) For .NET framework usage.
void	set_RowSpacingPrecentageFactor (int rowSpacingPrecentageFactor) For .NET framework usage.
void	set_TableConfig (GXTableTransformConfig tableConfig) For .NET framework usage.
void	set_WindowFrameConfig (GXWindowFrameTransformConfig windowConfig) For .NET framework usage.
void	setEmulationConfig (GXEmulationTransformConfig emulationConfig)
void	setFontFamily (String fontFamily) Sets the font family to be used for instant rendering.
void	setFontSize (int fontSize) It is possible to change the default font size to a different size (in pixels).
void	setFontWidth (double m_fontWidth)
void	setGuiElementsConfig (GXGuiElementsTransformConfig guiElementsConfig)
void	setHostKeysConfig (GXHostKeysTransformConfig hostKeysConfig)
void	setRenderArea (GXRectangle rectangle) Used to define that a specific area of the host screen will be rendered as HTML in Instant HTML pages by specifying the area's boundaries and in this way hide certain portions of the screen. By default, the entire screen is configured to be rendered to the HTML output.
void	setRenderTagsFromRightToLeft (boolean renderTagsFromRightToLeft) Determines that the HTML tags will be positioned from right to left.
void	setRowSpacingPrecentageFactor (int rowSpacingPrecentageFactor) Sets the row height to be used for instant rendering.
void	setTableConfig (GXTableTransformConfig tableConfig)

void	setWindowFrameConfig (GXWindowFrameTransformConfig windowFrameConfig)
------	--------------------------------------------------------------------------------------------------------

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXRenderConfig

```
public GXRenderConfig()
```

Methods

addTagListener

```
public void addTagListener(GXITagListener listener)
```

Used for registering a listener class which accepts an event for each tag type.

Parameters:

`listener` - The tag listener

addCompletionListener

```
public void addCompletionListener(GXICompletionListener listener)
```

Used for registering a listener class that can modify the screen tag model.

Parameters:

`listener` - The completion listener

setRenderArea

```
public void setRenderArea(GXRectangle rectangle)
```

Used to define that a specific area of the host screen will be rendered as HTML in Instant HTML pages by specifying the area's boundaries and in this way hide certain portions of the screen.

By default, the entire screen is configured to be rendered to the HTML output.

When setting the area to be rendered, tags positioned outside the rendered area will not be available for query execution on the screen tag model. The rendered area also affects the rendered top/left attributes of the tag. The top/left tag will be calculated relatively to the starting position of the rendered area.

Parameters:

`rectangle` - The positions of the rendered area

set_RenderArea

```
public void set_RenderArea(GXRectangle rectangle)
```

For .NET framework usage. Expose the method as a property.

See Also:

[setRenderArea\(GXRectangle\)](#)

getRenderArea

```
public GXRectangle getRenderArea()
```

The rendered area of the host screen which the tags are rendered from.

Returns:

A rectangle that represent the render area

See Also:

[setRenderArea\(GXRectangle\)](#)

get_Rectangle

```
public GXRectangle get_Rectangle()
```

For .NET framework usage. Expose the method as a property.

set_Rectangle

```
public void set_Rectangle(GXRectangle rectangle)
```

For .NET framework usage. Expose the method as a property.

get_RenderArea

```
public GXRectangle get_RenderArea()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getRenderArea\(\)](#)

getFontSize

```
public int getFontSize()
```

Used for retrieving the font size.

Returns:

The font size

See Also:

[setFontSize\(int\)](#)

get_FontSize

```
public int get_FontSize()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getFontSize\(\)](#)

setFontSize

```
public void setFontSize(int fontSize)
```

(continued from last page)

It is possible to change the default font size to a different size (in pixels). Since the change affects the rendering process performed by the framework on the Web server, this setting is not part of the CSS style sheet file (unlike other font settings), but instead it is included in the server-side instant configuration parameters.

Note: Changing the font sizes for generated Web pages is done in the CSS style sheet node.

The possible values include the different pixel possibilities as well as "Dynamic by Resolution". The HTML emulation recognizes user resolution and dynamically changes the css name according to the matching resolution. The resolution can be either 640x480, 800x600, 1024x768 or 1280x1024 pixels. The resolution may also depend on the host resolution (80 or 132 characters). The best-fit functionality is configured by default in the emulation template in all frameworks. It is used by the renderer to calculate the top/left according to each tag's position.

Parameters:

fontSize - The font size to set.

set_FontSize

```
public void set_FontSize(int fontSize)
```

For .NET framework usage. Expose the method as a property.

See Also:

[setFontSize\(int\)](#)

getEmulationConfig

```
public GXEmulationTransformConfig getEmulationConfig()
```

The emulation transformation configuration contains properties which determine the rendered tag look-and-feel and behavior.

Returns:

The emulation transformation configuration.

setEmulationConfig

```
public void setEmulationConfig(GXEmulationTransformConfig emulationConfig)
```

get_EmulationConfig

```
public GXEmulationTransformConfig get_EmulationConfig()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getEmulationConfig\(\)](#)

set_EmulationConfig

```
public void set_EmulationConfig(GXEmulationTransformConfig emulationConfig)
```

For .NET framework usage. Expose the method as a property.

getGuiElementsConfig

```
public GXGuiElementsTransformConfig getGuiElementsConfig()
```

The GUI elements transformation configuration. The GUI elements transformation represents GUI elements which were configured using the ApplinX composer.

(continued from last page)

Returns:

The GUI elements' transformation configuration.

setGuiElementsConfig

```
public void setGuiElementsConfig(GXGuiElementsTransformConfig guiElementsConfig)
```

get_GuiElementsConfig

```
public GXGuiElementsTransformConfig get_GuiElementsConfig()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getGuiElementsConfig\(\)](#)

getHostKeysConfig

```
public GXHostKeysTransformConfig getHostKeysConfig()
```

The Host keys transformation configuration. Host keys transformation represents host keys patterns which were configured using the ApplinX composer.

Returns:

The host keys transformation configuration

setHostKeysConfig

```
public void setHostKeysConfig(GXHostKeysTransformConfig hostKeysConfig)
```

get_HostKeysConfig

```
public GXHostKeysTransformConfig get_HostKeysConfig()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getHostKeysConfig\(\)](#)

set_HostKeysConfig

```
public void set_HostKeysConfig(GXHostKeysTransformConfig hostKeysConfig)
```

For .NET framework usage. Expose the method as a property.

getTableConfig

```
public GXTableTransformConfig getTableConfig()
```

The table transformation configuration. The table transformation is based on a host table that was configured using the ApplinX composer.

Returns:

The table configuration

setTableConfig

```
public void setTableConfig(GXTableTransformConfig tableConfig)
```

get_TableConfig

```
public GXTableTransformConfig get_TableConfig()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getTableConfig\(\)](#)

set_TableConfig

```
public void set_TableConfig(GXTableTransformConfig tableConfig)
```

For .NET framework usage. Expose the method as a property.

getWindowFrameConfig

```
public GXWindowFrameTransformConfig getWindowFrameConfig()
```

The window transformation configuration. Window frame transformation draws a rectangle instead of drawing a host window which is represented as characters or reversed video.

Returns:

The window frame configuration

setWindowFrameConfig

```
public void setWindowFrameConfig(GXWindowFrameTransformConfig windowFrameConfig)
```

get_WindowFrameConfig

```
public GXWindowFrameTransformConfig get_WindowFrameConfig()
```

For .NET framework usage. Expose the method as a property.

See Also:

[getWindowFrameConfig\(\)](#)

set_WindowFrameConfig

```
public void set_WindowFrameConfig(GXWindowFrameTransformConfig windowConfig)
```

For .NET framework usage. Expose the method as a property.

getTagListeners

```
public GXITagListener[] getTagListeners()
```

Used for retrieving all the registered tag listeners.

(continued from last page)

Returns:

An array of the registered tag listeners

getCompletionListener

```
public GXICompletionListener\[\] getCompletionListener()
```

Used for retrieving all the registered completion listeners.

Returns:

An array of the completion listeners

removeAllListeners

```
public void removeAllListeners()
```

getFontFamily

```
public String getFontFamily()
```

Sets the font family to be used for instant rendering.

Returns:

the font family in use. null if no specific font to use(defined in the CSS file).

setFontFamily

```
public void setFontFamily(String fontFamily)
```

Sets the font family to be used for instant rendering. It is used for proportion calculation to best fit specific fonts for Japanese & Arabic applications.

For Japanese the best fitted fixed fonts are: "MS Mincho" or "MS Gothic"

For Arabic the best fitted fixed font is: "Courier".

For other languages the best fitted font is "Courier New", which is by default declared in the CSS files. Defining the font here will override the CSS definition.

Parameters:

fontFamily - the font family in use. null if no specific font to use(defined in the CSS file).

get_FontFamily

```
public String get_FontFamily()
```

For .NET framework usage. Expose the method as a property.

set_FontFamily

```
public void set_FontFamily(String fontFamily)
```

For .NET framework usage. Expose the method as a property.

getRowSpacingPrecentageFactor

```
public int getRowSpacingPrecentageFactor()
```

(continued from last page)

Returns the row height to be used for instant rendering. This height is calculated relatively to the rows font size. The default row height is set to 53% (153% of the font size). For example: When the font size is set to 13px, and using the default row height value of 53%, the row height will be: $13 * 1.53 = 19.89 = \sim 20\text{px}$.

Returns:

the row height to be used

setRowSpacingPrecentageFactor

```
public void setRowSpacingPrecentageFactor(int rowSpacingPrecentageFactor)
```

Sets the row height to be used for instant rendering. This height is calculated relatively to the rows font size. The default row height is set to 53% (153% of the font size). For example: When the font size is set to 13px, and using the default row height value of 53%, the row height will be: $13 * 1.53 = 19.89 = \sim 20\text{px}$.

Parameters:

rowHeightPrecentageFactor - the row height to be used

get_RowSpacingPrecentageFactor

```
public int get_RowSpacingPrecentageFactor()
```

For .NET framework usage. Expose the method as a property.

set_RowSpacingPrecentageFactor

```
public void set_RowSpacingPrecentageFactor(int rowSpacingPrecentageFactor)
```

For .NET framework usage. Expose the method as a property.

isRenderTagsFromRightToLeft

```
public boolean isRenderTagsFromRightToLeft()
```

Determines that the HTML tags will be positioned from right to left. The usage is in Hebrew/Arabic applications when using non-fixed font, to ensure alignment to the right. By default the tags are positioned from left to right.

Returns:

setRenderTagsFromRightToLeft

```
public void setRenderTagsFromRightToLeft(boolean renderTagsFromRightToLeft)
```

Determines that the HTML tags will be positioned from right to left. The usage is in Hebrew/Arabic applications when using non-fixed font, to ensure alignment to the right. By default the tags are positioned from left to right.

Parameters:

renderTagsFromRightToLeft

get_RenderTagsFromRightToLeft

```
public boolean get_RenderTagsFromRightToLeft()
```

For .NET framework usage. Expose the method as a property.

set_RenderTagsFromRightToLeft

```
public void set_RenderTagsFromRightToLeft(boolean renderTagsFromRightToLeft)
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_GuiElementsConfig

```
public void set_GuiElementsConfig(GXGuiElementsTransformConfig guiElementsConfig)
```

For .NET framework usage. Expose the method as a property.

get_CompleteListenersVector

```
public Vector get_CompleteListenersVector()
```

For .NET framework usage. Expose the method as a property.

getFontWidth

```
public double getFontWidth()
```

setFontWidth

```
public void setFontWidth(double m_fontWidth)
```

com.sabratec.applinx.presentation Class GXTagUtil

java.lang.Object

└-com.sabratec.applinx.presentation.GXTagUtil

public class **GXTagUtil**
extends Object

Constructor Summary

public	GXTagUtil()
--------	-----------------------------

Method Summary

static double	getHeightPixels (int height, int fontSize, int precentageFactor) This method is used for determine the proportion between a given height & font size to actual height in pixels
static double	getTagHeight (GXITag tag, int fontSize, int precentageFactor) This methd returns the tag height in pixels, in order to know if the tag is overriding his below neighbour
static double	getTagWidth (GXITag tag, int fontSize) This method returns the tag width in pixels, in order to know if the tag is overriding his right/left neighbor
static double	getWidthPixels (int length, int fontSize) This method is used for determine the proportion between a given length & font size to actual width in pixels

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXTagUtil

public **GXTagUtil**()

Methods

getWidthPixels

public static double **getWidthPixels**(int length,
int fontSize)

This method is used for determine the proportion between a given length & font size to actual width in pixels

(continued from last page)

Parameters:

length - The host field length
fontSize - The display font size in pixels

Returns:

The actual width in pixels

getHeightPixels

```
public static double getHeightPixels(int height,  
    int fontSize,  
    int precentageFactor)
```

This method is used for determine the proportion between a given height & font size to actual height in pixels

Parameters:

height - The host field height
fontSize - The display font size in pixels

Returns:

The actual height in pixels

getTagWidth

```
public static double getTagWidth(GXITag tag,  
    int fontSize)
```

This method returns the tag width in pixels, in order to know if the tag is overriding his right/left neighbor

Parameters:

tag - The tag which it's width is required
fontSize - The font size

Returns:

The tag width in pixels

getTagHeight

```
public static double getTagHeight(GXITag tag,  
    int fontSize,  
    int precentageFactor)
```

This methd returns the tag height in pixels, in order to know if the tag is overriding his below neighbour

Parameters:

tag - The tag which it's height is required
fontSize - The display font size in pixels

Returns:

The tag height in pixles

com.sabratec.applinx.presentation Class GXUndefinedPositionException

```
java.lang.Object
  |
  +-GXGeneralException
     |
     +-com.sabratec.applinx.presentation.GXUndefinedPositionException
```

```
public class GXUndefinedPositionException
extends GXGeneralException
```

This exception is thrown when performing a query on a screen tag model that requires a position but the specified position is empty.

Constructor Summary

public	GXUndefinedPositionException(GXITag tag) Throws an exception with the specified tag details
--------	----------------------------------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXUndefinedPositionException

```
public GXUndefinedPositionException(GXITag tag)
```

Throws an exception with the specified tag details

Parameters:

`tag` - The tag whose position is empty

Package

com.sabratec.applinx.presentation.event

This package contains the events and listeners. These classes are used by the Renderer for notifying transformations of the creation of the screen tag model and new tags.

com.sabratec.applinx.presentation.event Interface GXICompletionListener

All Known Implementing Classes:

[GXHebrewTransform](#)

public interface **GXICompletionListener**

This listener is notified when the screen tag model building process is completed.

Classes that implement this listener should be registered in the Render configuration.

When the building process is completed, a GXRenderEvent event is thrown, and the `onComplete` method is called.

See Also:

[GXRenderConfig.addCompletionListener\(GXICompletionListener\)](#), [onComplete\(GXRenderEvent\)](#),
[GXRenderEvent](#)

Method Summary

void	onComplete(GXRenderEvent event) Invoked when screen tag model build process has been completed.
------	--------------------------------------------------------------------------------------------------------------------

Methods

onComplete

public void **onComplete**([GXRenderEvent](#) event)

Invoked when screen tag model build process has been completed.

Parameters:

event - The event arguments

com.sabratec.applinx.presentation.event Class GXRenderEvent

java.lang.Object

└-com.sabratec.applinx.presentation.event.GXRenderEvent

public class **GXRenderEvent**
extends Object

An event that indicates that the screen tag model building process has been completed. This event is used both for tag completion events and screen-model completion events.

A GXRenderEvent is passed to every tag listener [GXTagListener](#) and every completion listener [GXCompletionListener](#) that were registered within the Renderer configuration.

See Also:

[GXCompletionListener](#), [GXTagListener](#)

Constructor Summary

public	GXRenderEvent (GXIScreenTagModel screenTagModel, GXIScreen screen) For internal usage.
--------	--------------------------------------------------------------------------------------------------------------------------------------------

Method Summary

GXIScreen	getHostScreen () Used for retrieving the current host screen.
GXIScreenTagModel	getScreenTagModel () Used for retrieving the screen tag model created by the renderer.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXRenderEvent

public **GXRenderEvent**([GXIScreenTagModel](#) screenTagModel,
[GXIScreen](#) screen)

For internal usage. Initialized by the renderer.

Parameters:

screenTagModel - The screen tag model
screen - The host screen

Methods

(continued from last page)

getScreenTagModel

```
public GXIScreenTagModel getScreenTagModel()
```

Used for retrieving the screen tag model created by the renderer.

Returns:

The screen model created by the renderer

getHostScreen

```
public GXIScreen getHostScreen()
```

Used for retrieving the current host screen.

Returns:

The current host screen

com.sabratec.applinx.presentation.event Class GXTagListener

java.lang.Object

└-com.sabratec.applinx.presentation.event.GXTagListener

Direct Known Subclasses:

[GXSapPortalTransform](#)

```
public abstract class GXTagListener
extends Object
```

This listener is notified when a tag rendering is completed.

Classes that extend this listener should be registered in the Render configuration.

The class that requires processing a render event extends this abstract [GXTagListener](#) class (overriding only the methods of interest).

When a single tag rendering is completed, a `GXRenderEvent` event is thrown, and the `onNew[TagName]` method is called. The methods in this class are empty. This class exists to be used to conveniently create listener objects.

See Also:

[GXRenderEvent](#), `addTagListener(GXTagListener)`

Constructor Summary

public	GXTagListener()
--------	---------------------------------

Method Summary

void	onNewButton (GXRenderEvent event, GXIButtonTag button) Invoked when a link has been created.
void	onNewCheckbox (GXRenderEvent event, GXICheckboxTag checkbox) Invoked when a checkbox has been created.
void	onNewCombobox (GXRenderEvent event, GXIComboboxTag combobox) Invoked when a combo box has been created.
void	onNewLabel (GXRenderEvent event, GXILabelTag label) Invoked when a label (protected field) has been created.
void	onNewLink (GXRenderEvent event, GXILinkTag link) Invoked when a link has been created.
void	onNewRadioButtonGroup (GXRenderEvent event, GXIRadioButtonGroupTag radioGroup) Invoked when a radio buttons group has been created.
void	onNewTable (GXRenderEvent event, GXITableTag table) Invoked when a table tag has been created.
void	onNewTableCell (GXRenderEvent event, GXITableCellTag tableCell) Invoked when a table cell has been created.

void	onNewTableRow (GXRenderEvent event, GXITableRowTag tableRow) Invoked when a table row tag has been created.
void	onNewTextField (GXRenderEvent event, GXITextFieldTag textField) Invoked when a text field has been created.

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXTagListener

```
public GXTagListener()
```

Methods

onNewTextField

```
public void onNewTextField(GXRenderEvent event,
GXITextFieldTag textField)
```

Invoked when a text field has been created. The common usage is for unprotected fields that are rendered as text fields.

Parameters:

`event` - The event arguments
`textField` - The text field tag which has been created

onNewLabel

```
public void onNewLabel(GXRenderEvent event,
GXILabelTag label)
```

Invoked when a label (protected field) has been created. The common usage is for protected fields that are rendered as text fields.

Parameters:

`event` - The event arguments
`label` - The label tag which has been created

onNewLink

```
public void onNewLink(GXRenderEvent event,
GXILinkTag link)
```

Invoked when a link has been created. The common usage is for host-keys that may be rendered as links.

Parameters:

`event` - The event arguments
`link` - The linked tag which has been created

(continued from last page)

onNewButton

```
public void onNewButton(GXRenderEvent event,  
    GXIButtonTag button)
```

Invoked when a link has been created. The common usage is for host-keys that may be rendered as buttons.

Parameters:

event - the event arguments
button - the button tag which has been created

onNewCombobox

```
public void onNewCombobox(GXRenderEvent event,  
    GXIComboboxTag combobox)
```

Invoked when a combo box has been created. The common usage is for a GUI-element that may be rendered as a combo box.

Parameters:

event - The event arguments
combobox - The combo box tag which has been created

onNewCheckbox

```
public void onNewCheckbox(GXRenderEvent event,  
    GXICheckboxTag checkbox)
```

Invoked when a checkbox has been created. The common usage is for a GUI-element that may be rendered as a check box.

onNewRadioButtonGroup

```
public void onNewRadioButtonGroup(GXRenderEvent event,  
    GXIRadioButtonGroupTag radioButtonGroup)
```

Invoked when a radio buttons group has been created. The common usage is for a GUI-element that may be rendered as a radio button's group.

Parameters:

event - The event arguments
radioGroup - The radio buttons group tag which has been created

onNewTable

```
public void onNewTable(GXRenderEvent event,  
    GXITableTag table)
```

Invoked when a table tag has been created.

In this case, `table.getHostField()` returns null.

Parameters:

event - The event arguments
table - The table tag which has been created

See Also:

[GXITable](#)
[GXIScreen](#)

(continued from last page)

onNewTableRow

```
public void onNewTableRow(GXRenderEvent event,  
    GXITableRowTag tableRow)
```

Invoked when a table row tag has been created.

In this case, `table.getHostField()` returns null.

Parameters:

event - The event arguments

tableRow - The table row tag which has been created

See Also:

[GXITable](#)

[GXIScreen](#)

onNewTableCell

```
public void onNewTableCell(GXRenderEvent event,  
    GXITableCellTag tableCell)
```

Invoked when a table cell has been created.

Unlike the other table-related event objects, `tableCell.getHostField()` returns the host field the cell is based on.

Parameters:

event - The event arguments

tableCell - The table tag which has been created

See Also:

[GXIField](#)

Package

com.sabratec.applinx.presentation.queries

This package contains the query interface and built-in queries such as text query, area query, which should be used for executing queries against the screen tag model.

com.sabratec.applinx.presentation.queries Class GXAreaQuery

java.lang.Object

↳ com.sabratec.applinx.presentation.queries.GXAreaQuery

All Implemented Interfaces:

[GXITagQuery](#)

public class **GXAreaQuery**
extends Object
implements [GXITagQuery](#)

This query returns tags in the given area. The query can be either row based by using the constructor [GXAreaQuery\(int, int\)](#) or rectangle based [GXAreaQuery\(GXRectangle, int, boolean\)](#)

See Also:

[GXIScreenTagModel.executeQuery\(GXITagQuery\)](#)

Field Summary

public static	RETRIEVE_INSIDE_AREA Indicates retrieval of tags from inside the area.
public static	RETRIEVE_OUTSIDE_AREA Indicates retrieval of tags from outside the area.

Constructor Summary

public	GXAreaQuery() Creates an empty instance.
public	GXAreaQuery(GXRectangle area, int retrievalMode, boolean entireTag) Creates an instance of a rectangular area query.
public	GXAreaQuery(int startRow, int endRow) Creates an instance of a rectangular area query using to start and end rows.

Method Summary

GXTagList	find(GXIScreenTagModel screenModel) Only tags that have host-screen positions will be returned.
void	setArea(GXRectangle area) Sets the rectangular area according to which tags will be retrieved.
void	setEntireTag(boolean entireTag) Defines whether tags that intersect with the area's frame will be considered as meeting the criteria.
void	setRetrievalMode(int retrievalMode) Sets the retrieval mode, either tags inside or outside the area.
void	setRowRange(int startRow, int endRow) Sets the rectangular area using the start and end rows.

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [com.sabratec.applinx.presentation.queries.GXITagQuery](#)

[find](#)

Fields

RETRIEVE_INSIDE_AREA

```
public static int RETRIEVE_INSIDE_AREA
```

Indicates retrieval of tags from inside the area. This is the default value.

RETRIEVE_OUTSIDE_AREA

```
public static int RETRIEVE_OUTSIDE_AREA
```

Indicates retrieval of tags from outside the area.

Constructors

GXAreaQuery

```
public GXAreaQuery()
```

Creates an empty instance.

GXAreaQuery

```
public GXAreaQuery(GXRectangle area,  
                  int retrievalMode,  
                  boolean entireTag)
```

Creates an instance of a rectangular area query.

Parameters:

`area` - The rectangular area according which determine tags will be retrieved
`retrievalMode` - indicates retrieval of tags from either inside or outside the area
`entireTag` - indicates whether tags that intersect with the area's frame will be considered as a matching tags

GXAreaQuery

```
public GXAreaQuery(int startRow,  
                  int endRow)
```

Creates an instance of a rectangular area query using to start and end rows. The criteria is inclusive, i.e. tags which are positioned in the rows themselves will also be retrieved.

Parameters:

`startRow` - the row where the range starts, inclusive.
`endRow` - the row where the range ends, inclusive.

Methods

(continued from last page)

setArea

```
public void setArea(GXRectangle area)
```

Sets the rectangular area according to which tags will be retrieved.

Parameters:

area - the rectangular area according to which tags will be retrieved

setRowRange

```
public void setRowRange(int startRow,  
int endRow)
```

Sets the rectangular area using the start and end rows. The criteria is inclusive, i.e. tags which are positioned in the rows themselves will also be retrieved.

Parameters:

startRow - the row where the range starts (including this row).

endRow - the row where the range ends (including this row).

setRetrievalMode

```
public void setRetrievalMode(int retrievalMode)
```

Sets the retrieval mode, either tags inside or outside the area.

Parameters:

retrievalMode - indicates retrieval of tags from either inside or outside the area

See Also:

[RETRIEVE_INSIDE_AREA](#)

[RETRIEVE_OUTSIDE_AREA](#)

setEntireTag

```
public void setEntireTag(boolean entireTag)
```

Defines whether tags that intersect with the area's frame will be considered as meeting the criteria.

Parameters:

entireTag - true if the entire tag has to be contained in the area

find

```
public GXTagList find(GXIScreenTagModel screenModel)
```

Only tags that have host-screen positions will be returned.

com.sabratec.applinx.presentation.queries Interface GXITagQuery

All Known Implementing Classes:

[GXSimpleTagQuery](#), [GXAreaQuery](#)

public interface **GXITagQuery**

An interface for queries executed on a screen tag model. By implementing this interface, you should be able to write your own query classes. The query is defined using the [find\(GXIScreenTagModel\)](#) method.

See Also:

[GXIScreenTagModel.executeQuery\(GXITagQuery\)](#)

Method Summary

GXTagList	find(GXIScreenTagModel screenModel) Performs a query against a given screen model.
---------------------------	-------------------------------------------------------------------------------------------------------

Methods

find

public [GXTagList](#) **find**([GXIScreenTagModel](#) screenModel)

Performs a query against a given screen model.

Parameters:

screenModel - The screen model that the query is performed against

Returns:

All tags meeting the query. If there are no tags that meet the query, an empty list is returned

com.sabratec.applinx.presentation.queries Class GXSimpleTagQuery

java.lang.Object

└─com.sabratec.applinx.presentation.queries.GXSimpleTagQuery

All Implemented Interfaces:

[GXITagQuery](#)

Direct Known Subclasses:

[GXTextQuery](#)

```
public abstract class GXSimpleTagQuery
extends Object
implements GXITagQuery
```

This abstract class provides a simple implementation for the [GXITagQuery](#) interface. The implementation consists of iterating over the entire screen model tag, and at the end returning all tags which meet a given criteria.

Overriding classes should implement the abstract method `matchesCriteria(GXITag)`.

See Also:

[GXIScreenTagModel.executeQuery\(GXITagQuery\)](#)

Constructor Summary

public	GXSimpleTagQuery()
--------	------------------------------------

Method Summary

GXTagList	find (GXIScreenTagModel screenTagModel) Finds tags meeting the specific query criteria.
---------------------------	-----------------------------------------------------------------------------------------------------------------------------

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [com.sabratec.applinx.presentation.queries.GXITagQuery](#)

[find](#)

Constructors

GXSimpleTagQuery

```
public GXSimpleTagQuery()
```

Methods

(continued from last page)

find

```
public GXTagList find(GXIScreenTagModel screenTagModel)
```

Finds tags meeting the specific query criteria.

Parameters:

`screenTagModel` - the screen tag model.

Returns:

the matching tag list

com.sabratec.applinx.presentation.queries

Class GXTextQuery

java.lang.Object

├- [com.sabratec.applinx.presentation.queries.GXSimpleTagQuery](#)
 └- **com.sabratec.applinx.presentation.queries.GXTextQuery**

All Implemented Interfaces:

[GXITagQuery](#)

public class **GXTextQuery**
 extends [GXSimpleTagQuery](#)

This query returns tags that contain the specified texts. This class requires at least one text that is to be searched for, which should be specified in the constructor. For additional texts use the method [addSearchText\(String\)](#). Tags that contain either one of the search texts will be returned.

See Also:

[GXIScreenTagModel.executeQuery\(GXITagQuery\)](#)

Constructor Summary

public	GXTextQuery (String searchText) The constructor accepts the text to search for.
--------	----------------------------------------------------------------------------------------------------

Method Summary

void	addSearchText (String searchText) Adds the specified search text to searched texts list
------	------------------------------------------------------------------------------------------------------------

Methods inherited from class [com.sabratec.applinx.presentation.queries.GXSimpleTagQuery](#)

[find](#)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.presentation.queries.GXITagQuery](#)

[find](#)

Constructors

GXTextQuery

public **GXTextQuery**(String searchText)

The constructor accepts the text to search for.

Parameters:

searchText - The text to search for.

Methods

addSearchText

```
public void addSearchText(String searchText)
```

Adds the specified search text to searched texts list

Parameters:

searchText

Package

com.sabratec.applinx.presentation.tags

This package provides interfaces for the screen tag model, common tags and tag lists.

com.sabratec.applinx.presentation.tags Interface GXIButtonTag

All Superinterfaces:

[GXIClickableTag](#), [GXITag](#)

public interface **GXIButtonTag**
extends [GXIClickableTag](#)

This interface represents a button tag. The common usage is for a host key when setting the Render configuration for buttons.

An `onNewButton` event is thrown when a new button is created by the Renderer. The method `getContent()` returns the caption of the button.

To create a new button use `GXHtmlTagFactory.instance().newButton(...)`

See Also:

[GXTagListener.onNewButton\(GXRenderEvent, GXIButtonTag\)](#),
[GXHostKeysTransformConfig.setRenderingType\(int\)](#), [GXTransformConstants.HOSTKEYS_BUTTONS](#),
[GXHtmlTagFactory.newButton\(\)](#)

Method Summary

String	getCaption()
String	getOnClick()
void	setCaption(String caption)
void	setOnClick(String onClick)

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXIClickableTag](#)

[handleEvent](#)

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#),
[getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#),
[getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#),
[setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#),
[setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

getCaption

public String **getCaption()**

Returns:

The caption of the button. **value** attribute in HTML.

setCaption

```
public void setCaption(String caption)
```

Parameters:

caption - The caption of the button. **value** attribute in HTML.

getOnClick

```
public String getOnClick()
```

Returns:

The onClick action to execute. JavaScript command in HTML.

setOnClick

```
public void setOnClick(String onClick)
```

Parameters:

onClick - The onClick action to execute. JavaScript command in HTML.

com.sabratec.applinx.presentation.tags Interface GXICheckboxTag

All Superinterfaces:

[GXITag](#)

public interface **GXICheckboxTag**

extends [GXITag](#)

This interface represents a check box tag. The common usage is for when creating a GUI element in ApplinX composer.

An `onNewCheckbox` event is thrown when a new check box is created by the renderer. The method `getContent()` returns the checked/unchecked value of the check box depending if it is checked or not.

To create a new check box use `GXHtmlTagFactory.instance().newCheckbox(...)`

In HTML, this tag renders a hidden tag that saves the checked/unchecked value of the tag, so the checked/unchecked value will be passed to the server when the form is submitted.

Method Summary

String	getCaption()
String	getCheckedValue()
String	getUncheckedValue()
boolean	isChecked()
void	setCaption(String caption)
void	setChecked(boolean isChecked)
void	setCheckedValue(String checkedValue)
void	setUncheckedValue(String uncheckedValue)

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

(continued from last page)

isChecked

```
public boolean isChecked()
```

Returns:

is the check box checked.

setChecked

```
public void setChecked(boolean isChecked)
```

Parameters:

isChecked - Set the check box to be checked.

getCheckedValue

```
public String getCheckedValue()
```

Returns:

the checked value

setCheckedValue

```
public void setCheckedValue(String checkedValue)
```

Parameters:

checkedValue - the checked value

getUncheckedValue

```
public String getUncheckedValue()
```

Returns:

the unchecked value

setUncheckedValue

```
public void setUncheckedValue(String uncheckedValue)
```

Parameters:

uncheckedValue - Set the unchecked value

getCaption

```
public String getCaption()
```

(continued from last page)

Returns:

the check box caption

setCaption

```
public void setCaption(String caption)
```

Parameters:

caption - Set the check box caption

com.sabratec.applinx.presentation.tags Interface GXIClickableTag

All Superinterfaces:

[GXITag](#)

All Subinterfaces:

[GXImageTag](#), [GXILinkTag](#), [GXIButtonTag](#)

public interface **GXIClickableTag**
extends [GXITag](#)

Method Summary

void	handleEvent (GXIClickEvent event, GXIScreen screen)
------	-------------------------------------------------------------------------------------

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

handleEvent

public void **handleEvent**(GXIClickEvent event,
[GXIScreen](#) screen)

com.sabratec.applinx.presentation.tags Interface GXIComboboxTag

All Superinterfaces:

[GXITag](#)

public interface **GXIComboboxTag**
extends [GXITag](#)

This interface represents a combo box tag. The common usage is for when creating a GUI element in ApplinX composer.

An `onNewCombobox` event is thrown when a new combo box is created by the renderer. The method `getContent()` returns the checked value of the combo box.

To create a new combo box use `GXHtmlTagFactory.instance().newCombobox(...)`

Method Summary

GXTextValueList	getItems()
String	getSelectedValue() Gets the value of the selected option
void	setItems(GXTextValueList items) Sets a predefined text/value list
void	setSelectedValue(String selectedValue) used for setting the option with the specified value

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

getItems

public GXTextValueList **getItems()**

Returns:

The text/value list

setItems

public void **setItems**(GXTextValueList items)

Sets a predefined text/value list

(continued from last page)

Parameters:items - The combo box items

getSelectedValue

```
public String getSelectedValue()
```

Gets the value of the selected option

Returns:the value of the selected option

setSelectedValue

```
public void setSelectedValue(String selectedValue)
```

used for setting the option with the specified value

Parameters:selectedValue - The option value

com.sabratec.applinx.presentation.tags Interface GXILabelTag

All Superinterfaces:

[GXITag](#)

public interface **GXILabelTag**

extends [GXITag](#)

This interface represents a label tag. The common usage is for displaying protected fields received from the host screen.

An `onNewLabel` event is thrown when a new label is created by the `Renderer`. The method `getContent()` returns the text of the label.

To create a new label use `GXHtmlTagFactory.instance().newLabel(...)`

Method Summary

String	getText() Returns the tag's text.
void	setText(String text) Sets the tag's text.

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

getText

```
public String getText()
```

Returns the tag's text.

Returns:

the tag's text

setText

```
public void setText(String text)
```

Sets the tag's text.

Parameters:

text - the tag's text

com.sabratec.applinx.presentation.tags Interface GXILinkTag

All Superinterfaces:

[GXIClickableTag](#), [GXITag](#)

public interface **GXILinkTag**
extends [GXIClickableTag](#)

This interface represents a link tag. The common usage is for displaying the host keys as links.

An `onNewLink` event is thrown when a new link is created by the `Renderer`. The method `getContent()` returns the text of the link.

To create a new link use `GXHtmlTagFactory.instance().newLink(...)` TODO roi render config links

Method Summary

String	getOnClick()
String	getTarget()
String	getText() Returns the tag's text.
void	setOnClick(String onClick)
void	setTarget(String targetUrl)
void	setText(String text) Sets the tag's text.

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXIClickableTag](#)

[handleEvent](#)

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

getOnClick

public String **getOnClick()**

(continued from last page)

Returns:

The onClick action to execute. JavaScript command in HTML.

setOnClick

```
public void setOnClick(String onClick)
```

Parameters:

onClick - The onClick action to execute. JavaScript command in HTML

getTarget

```
public String getTarget()
```

Returns:

The target URL. In HTML the default value is "#", which stands for no action.

setTarget

```
public void setTarget(String targetUrl)
```

Parameters:

targetUrl - The target URL. The default value is "#".

getText

```
public String getText()
```

Returns the tag's text.

Returns:

the tag's text

setText

```
public void setText(String text)
```

Sets the tag's text.

Parameters:

text - the tag's text

com.sabratec.applinx.presentation.tags Interface GXImageTag

All Superinterfaces:

[GXIClickableTag](#), [GXITag](#)

public interface **GXImageTag**

extends [GXIClickableTag](#)

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXIClickableTag](#)

[handleEvent](#)

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

com.sabratec.applinx.presentation.tags Interface GXIRadioButtonGroupTag

All Superinterfaces:

[GXITag](#)

public interface **GXIRadioButtonGroupTag**
extends [GXITag](#)

This interface represents a radio button group tag. The common usage is for when creating a GUI element in ApplinX composer.

An `onNewRadioButtonGroup` event is thrown when a new radio button group is created by the Renderer. The method `getContent()` returns the value of the selected radio button.

To create a radio button group use `GXHtmlTagFactory.instance().newRadioButtonGroup(...)`

HTML Typical Output:

```
<table>
<tr>
<td>CAPTION1</td> <td><input type="radio" name="<TAG ID>" /></td>
<td>CAPTION2</td>
<td><input type="radio" name="<TAG ID>" /></td>
</tr>
</table>
```

Method Summary

int	getAlignment() Used to determine if the radio button list will be rendered vertically or horizontally
GXTextValueList	getItems() Retrieves the list of text/values which represents the radio button items.
String	getSelectedValue()
void	setAlignment(int alignment) Used to determine if the radio button list will be rendered vertically or horizontally
void	setItems(GXTextValueList items) Sets a predefined text/value list
void	setSelectedValue(String value) Used for setting the relevant radio button according to a single radio button value

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

(continued from last page)

getAlignment

```
public int getAlignment()
```

Used to determine if the radio button list will be rendered vertically or horizontally

Returns:

vertical/horizontal alignment constant

See Also:

[GXPresentationConstants.ALIGNMENT_HORIZONTAL](#)

[GXPresentationConstants.ALIGNMENT_VERTICAL](#)

setAlignment

```
public void setAlignment(int alignment)
```

Used to determine if the radio button list will be rendered vertically or horizontally

Parameters:

alignment - either vertical or horizontal constant

See Also:

[GXPresentationConstants.ALIGNMENT_HORIZONTAL](#)

[GXPresentationConstants.ALIGNMENT_VERTICAL](#)

getItems

```
public GXTextValueList getItems()
```

Retrieves the list of text/values which represents the radio button items.

Returns:

text/value list of the radio buttons

setItems

```
public void setItems(GXTextValueList items)
```

Sets a predefined text/value list

Parameters:

items - The combo box items

getSelectedValue

```
public String getSelectedValue()
```

Returns:

The selected radio button value

setSelectedValue

```
public void setSelectedValue(String value)
```

Used for setting the relevant radio button according to a single radio button value

(continued from last page)

Parameters:

`value` - The value of the radio button to be selected

com.sabratec.applinx.presentation.tags Interface GXIRadioButtonTag

All Superinterfaces:

[GXITag](#)

public interface **GXIRadioButtonTag**
extends [GXITag](#)

This interface represents a single radio button, with a caption.

It should be used for creating single radio buttons and associating them to other single radio buttons. For example, in host tables and action fields, replace each action field in a table row with a radio button.

Use the `setName` method to associate it with other radio buttons.

The method `getContent()` returns the checked value of the radio button, when it is checked, and `null` when it is not.

To create a new radio button use `GXHtmlTagFactory.instance().newRadioButton(...)`

Method Summary

String	getCaption() Returns the caption of the radio button.
String	getCheckedValue() Returns the checked value of the radio button.
String	getName() Returns the name of the radio button tag.
boolean	isChecked() Determines if the radio button is checked.
void	setCaption(String caption) Sets the caption.
void	setChecked(boolean checked) Sets if the radio button is checked.
void	setCheckedValue(String checkedValue) Sets the checked value of the radio button.
void	setName(String name) Sets a name for the radio button tag.

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

(continued from last page)

Methods

getName

```
public String getName()
```

Returns the name of the radio button tag.

Returns:

the name of the radio button tag

setName

```
public void setName(String name)
```

Sets a name for the radio button tag.

Parameters:

name - a name for the radio button tag

isChecked

```
public boolean isChecked()
```

Determines if the radio button is checked.

Returns:

If the radio button is checked

setChecked

```
public void setChecked(boolean checked)
```

Sets if the radio button is checked.

Parameters:

checked - is the radio button checked

getCheckedValue

```
public String getCheckedValue()
```

Returns the checked value of the radio button.

Returns:

Returns the checked value of the radio button

setCheckedValue

```
public void setCheckedValue(String checkedValue)
```

Sets the checked value of the radio button.

Parameters:

checkedValue - the checked value of the radio button

(continued from last page)

getCaption

```
public String getCaption()
```

Returns the caption of the radio button. The caption is written near the radio button tag.

Returns:

the caption of the radio button

setCaption

```
public void setCaption(String caption)
```

Sets the caption. The caption is written near the radio button tag.

Parameters:

`caption` - the caption of the radio button

com.sabratec.applinx.presentation.tags Interface GXIScreenTagModel

public interface GXIScreenTagModel

This class is the model which contains a list of tags.

The model provides various methods for adding, removing, replacing and searching tags.

The final tag list in the screen tag model (after all transformations have been completed) will be rendered to the HTML output by the Renderer entity.

The tags are basically organised in the order they were created, but the order is not important for HTML presentation, since all tags are rendered in absolute terms. The way to search tags is either by checking the direction of the neighboring tag, by ID, by text or by specific position (row, column or both).

Method Summary	
void	add(GXITag tag) Add the specified tag to the screen tag model.
void	addNeighbor(GXITag tag, GXITag neighborTag, GXPosition offset) Add the specified tag to the screen tag model next to the neighboring tag.
GXTagList	executeColumnQuery(int column) Used for executing column based queries on the screen tag model.
GXITag	executePositionQuery(GXPosition position) Used for executing position-based queries on the screen model.
GXITag	executePositionQuery(int row, int column) Used for executing position-based queries, on the screen tag model.
GXTagList	executeQuery(GXITagQuery query) Executes a query on the screen model.
GXTagList	executeRowQuery(int row) Used for executing row based queries on the screen tag model.
GXTagList	executeTextQuery(String searchText) Used for executing text based queries on the screen tag model.
int	getFontSize() The font size (in pixels) in which the tags will be displayed.
GXITag	getNeighbor(GXITag tag, int direction) Returns the neighboring tag in the specified direction.
GXITag	getTagById(String tagId) Finds a tag by the specified tag ID
GXITag[]	getTags() Returns a tag's array which contains all the screen tag model root tags.
void	remove(GXITag tag) Removes the specified tag.

void

[replace](#)([GXITag](#) originalTag, [GXITag](#) newTag)

Replaces the specified tag with the original tag in the screen tag model.

Methods

getTagById

```
public GXITag getTagById(String tagId)
```

Finds a tag by the specified tag ID

Parameters:

tagId - the ID of the searched tag

Returns:

The tag whose ID matches the searched tag ID

executeQuery

```
public GXTagList executeQuery(GXITagQuery query)
```

Executes a query on the screen model.

The query can be either a built-in query such as:

[GXTextQuery](#),

[GXAreaQuery](#)

or a user defined query (class that implements [GXITagQuery](#))

Parameters:

query - the query to execute.

Returns:

the tags meeting the query. If the query is not met, then an empty list is returned

executeTextQuery

```
public GXTagList executeTextQuery(String searchText)
```

Used for executing text based queries on the screen tag model.

Parameters:

searchText - the text to search for within the tags. Searches for sub string matches.

Returns:

Tags meeting the search criteria.

executeColumnQuery

```
public GXTagList executeColumnQuery(int column)  
throws GXIllegalPositionException
```

Used for executing column based queries on the screen tag model.

Parameters:

column - The searched tags column

Returns:

(continued from last page)

Tags meeting the search criteria.

Throws:

`GXIllegalPositionException` - when the column is outside the screen tag model bounds

executeRowQuery

```
public GXTagList executeRowQuery(int row)
    throws GXIllegalPositionException
```

Used for executing row based queries on the screen tag model.

Parameters:

row - The searched tags row

Returns:

tags meeting the search criteria

Throws:

`GXIllegalPositionException` - when the column is outside the screen tag model bounds

executePositionQuery

```
public GXITag executePositionQuery(int row,
    int column)
    throws GXIllegalPositionException
```

Used for executing position-based queries, on the screen tag model.

Parameters:

row - The searched tag row

column - The searched tag column

Returns:

the tag in the specified position

Throws:

`GXIllegalPositionException` - when the column is outside the screen tag model bounds

executePositionQuery

```
public GXITag executePositionQuery(GXPosition position)
    throws GXIllegalPositionException
```

Used for executing position-based queries on the screen model.

Parameters:

position - The searched position

Returns:

the tag in the specified position

Throws:

`GXIllegalPositionException` - when the column is outside the screen tag model bounds

getFontSize

```
public int getFontSize()
```

(continued from last page)

The font size (in pixels) in which the tags will be displayed. The font size is also used for calculating actual top/left according to the tag's position.

Returns:

the font size.

See Also:

[GXRenderConfig.setFontSize\(int\)](#)

getNeighbor

```
public GXITag getNeighbor(GXITag tag,  
                           int direction)  
throws GXUndefinedPositionException
```

Returns the neighboring tag in the specified direction.

Parameters:

tag - the tag whose neighbor is being searched for
direction - The direction to search

Returns:

the neighboring tag in the specified direction

Throws:

[GXUndefinedPositionException](#) - when the specified tag's position is empty

See Also:

[GXTagModelConstants.NEIGHBOR_ABOVE](#)

[GXTagModelConstants.NEIGHBOR_BELOW](#)

[GXTagModelConstants.NEIGHBOR_LEFT](#)

[GXTagModelConstants.NEIGHBOR_RIGHT](#)

add

```
public void add(GXITag tag)
```

Add the specified tag to the screen tag model.

Note: The Insert method is not supported since the tags order is not important for the rendering.

Parameters:

tag - The new tag to add

getTags

```
public GXITag[] getTags()
```

Returns a tag's array which contains all the screen tag model root tags. Child tags of other tags will not be included in the list, but may be accessed by their parent tag. This method should be used for performing iterations on the tags.

Returns:

A tags array

addNeighbor

```
public void addNeighbor(GXITag tag,  
                        GXITag neighborTag,  
                        GXPosition offset)
```

(continued from last page)

Add the specified tag to the screen tag model next to the neighboring tag. The added tag will copy its position taking into account the offset position from the neighboring tag and the length of the neighboring tag. The tag offset top/left will also be copied, in cases where the neighboring tag has an additional offset from its position. This method can be used for adding icons near a tag. For example, adding a calendar icon next to a date text field.

Parameters:

tag - The new tag to add
neighborTag - The neighboring tag of the new tag
offset - the new tag offset position from the neighboring tag

replace

```
public void replace(GXITag originalTag,  
    GXITag newTag)
```

Replaces the specified tag with the original tag in the screen tag model.

The following original tag properties will be copied to the new tag: position, length, offsetTop, offsetLeft, hostField

Is useful for changing a tag type. For example, changing a text to a link.

Parameters:

originalTag - the original tag which should be replaced
newTag - the new tag that should replace the original tag

remove

```
public void remove(GXITag tag)
```

Removes the specified tag. The removed tag will not be displayed in the rendering process result.

Parameters:

tag - the tag to remove.

com.sabratec.applinx.presentation.tags Interface GXITableCellTag

All Superinterfaces:

[GXITag](#)

public interface **GXITableCellTag**
extends [GXITag](#)

This interface represents a table cell tag. The common usage is for creating a table cell within a host table in the ApplinX composer. An `onNewTableCell` event is thrown when a new table cell is created by the Renderer. The method `getContent()` returns the text of the cell. If it's empty, it returns the content of the 1st child tag, which is common behavior in host tables. The method `getHostField()` returns the host field the cell is based on. To create a new table cell use `GXHtmlTagFactory.instance().newTableCell(...)`

Method Summary

String	getText() Returns the cell's text.
void	setIsHeader (boolean isHeader) Determines if the cell is a table header cell or a table body cell.
void	setText (String text) Sets the cell's text.

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

setIsHeader

public void **setIsHeader**(boolean isHeader)

Determines if the cell is a table header cell or a table body cell.

Parameters:

isHeader - if the cell is a header cell

getText

public String **getText**()

Returns the cell's text. If the cell text is empty, returns the content of the 1st child tag if only one child tag exists.

Returns:

the cell's text

setText

```
public void setText(String text)
```

Sets the cell's text.

Parameters:

text - the cell's text

com.sabratec.applinx.presentation.tags Interface GXITableRowTag

All Superinterfaces:

[GXITag](#)

```
public interface GXITableRowTag  
extends GXITag
```

This interface represents a table row tag. The common usage is for creating a table row within a host table in the ApplinX composer. An `onNewTableRow` event is thrown when a new table row is created by the Renderer.

The method `getContent()` returns null.

The method `getHostField()` also returns null.

To create a new table row use `GXHtmlTagFactory.instance().newTableRow(...)`

Method Summary

GXTableCellList	getCells()
---------------------------------	----------------------------

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

getCells

```
public GXTableCellList getCells()
```

Returns:

The child cells of the row

com.sabratec.applinx.presentation.tags Interface GXITableTag

All Superinterfaces:

[GXITag](#)

public interface **GXITableTag**

extends [GXITag](#)

This interface represents a table tag. The common usage for using this tag is when a host table is created in ApplinX composer. An `onNewTable` event is thrown when a new table row is created by the Renderer.

The method `getContent()` returns null.

The method `getHostField()` also returns null.

To create a new table use `GXHtmlTagFactory.istance().newTable(...)`

Method Summary

GXITableRowTag	getHeaders()
GXTableRowList	getRows() Returns the children

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

getHeaders

public [GXITableRowTag](#) **getHeaders()**

Returns:

a table row tag which contains the header cell's.

getRows

public [GXTableRowList](#) **getRows()**

Returns the children

Returns:

a list of the table's row tags

com.sabratec.applinx.presentation.tags Interface GXITag

All Subinterfaces:

[GXITextFieldTag](#), [GXITableTag](#), [GXITableRowTag](#), [GXITableCellTag](#), [GXIRadioButtonTag](#), [GXIRadioButtonGroupTag](#), [GXILabelTag](#), [GXIComboboxTag](#), [GXIClickableTag](#), [GXImageTag](#), [GXILinkTag](#), [GXIButtonTag](#), [GXICheckboxTag](#)

public interface **GXITag**

This interface is the root of all tag classes, such as text fields, labels, links, combo boxes, etc.

The tag class is host oriented. It provides a reference to the host field, and allows locating tags by setting their position [setPosition\(int, int\)](#) in host units (row, column).

The initial position is derived from the host field, and can be modified. The position will be rendered to HTML units as top/left. The tag also contains the methods [getAttribute](#) and [setAttribute](#) which can be used to read/modify any attribute of the tag.

The tag may have an offset [setOffsetLeft\(double\)](#), [setOffsetTop\(double\)](#) from its position.

The offset is used for aligning the tag when neighboring tags such as a combo box that may overlap the tag.

The offset will be added to the final calculated top/left attributes which are derived from the tag's position. In case the tag doesn't have any position, the offset top/left will be considered as the actual top/left.

A tag may have child tags - [getChildren\(\)](#), and a parent tag [getParent\(\)](#)

HTML specific tags are also available such as:

- [GXHtmlGenericTag](#) for creating a generic tag by specifying the tag name
- [GXHtmlString](#) for using direct strings and adding them to the screen tag model.

Method Summary	
void	copyFrom(GXITag tag) Copies tags fields
String	getAttribute (String name) Returns the value of an attribute according to its name.
GXTagList	getChildren() Returns the tag's child tags.
String	getContent() Used for retrieving the content of the tag.
GXIField	getHostField() Returns the host field which the tag is based on.
String	getId() Returns the tag's unique ID.
int	getLength() Returns the length that the tag is considered to occupy on the host screen.
double	getOffsetHeight()

double	getOffsetLeft() Returns the offset left position from the <code>position</code> attribute.
double	getOffsetRight() Returns the offset right position.
double	getOffsetTop() Returns the offset top position from the <code>position</code> attribute.
GXITag	getParent() Returns the parent tag.
GXPosition	getPosition() Returns the position of the tag in host screen units (row, column).
String	getTagName() Returns the concrete name of the tag type.
double	getTopPadding()
boolean	hasChildren() Returns true if the tag has child tags.
boolean	isVisible() Determines whether to display the tag or not.
void	removeAttribute(String name) Removes an attribute according to its name.
void	setAttribute(String name, String value) Sets the value of a given attribute.
void	setId(String id) Sets a unique ID for the tag.
void	setLength(int length) Sets the actual length of the tag on the screen tag model.
void	setOffsetHeight(double height)
void	setOffsetLeft(double left) Sets the offset left position.
void	setOffsetRight(double right) Sets the offset right position.
void	setOffsetTop(double top) Sets the offset top position.
void	setPosition(GXPosition position) Sets the position of the tag in host screen units (row, column).
void	setPosition(int row, int column) A convenient method for setting row and column instead of using a position object.
void	setTopPadding(double topPadding)

void	setVisible (boolean isVisible) Sets the tag to be visible/invisible.
void	setVisible (boolean isVisible, boolean doRender) Used for setting the tag to be visible/invisible.

Methods

getParent

```
public GXITag getParent()
```

Returns the parent tag. If this tag has no parent, returns null.

Returns:

the parent tag.

hasChildren

```
public boolean hasChildren()
```

Returns true if the tag has child tags.

Returns:

true if the tag has child tags. If this tag doesn't support child tags, this method always returns false.

getChildren

```
public GXTagList getChildren()
```

Returns the tag's child tags. If there are no child tags defined, returns an empty list.
If this tag doesn't support child tags, returns null.

Returns:

the tag's children tags.

getId

```
public String getId()
```

Returns the tag's unique ID.

Naming convention:

- When the tag is based on a host field, it will have the ID: "POS<ABSOLUTE SCREEN POSITION>". For example "POS1232".
- If the tag is based on an application field then the tag will have it's name.
- If the tag is based on a multiple application field then the tag will have the name "<APPFIELD_NAME>_00<INDEX>". For example: "ItemNumber_003"

Returns:

the tag's unique ID.

(continued from last page)

setId

```
public void setId(String id)
```

Sets a unique ID for the tag.

Parameters:

id - a unique ID for tag

getOffsetTop

```
public double getOffsetTop()
```

Returns the offset top position from the `position` attribute.

The default value is 0.

When either a GUI element transformation and/or a Table transformation is activated, this attribute may contain a positive value since GUI elements and tables are "higher" elements than standard labels and text fields, and the transformation may change this attribute to avoid tags overlapping each other.

Returns:

the offset top position attribute

See Also:

[setOffsetTop\(double\)](#)

[getOffsetLeft\(\)](#)

[setOffsetLeft\(double\)](#)

[setPosition\(GXPosition\)](#)

[getPosition\(\)](#)

setOffsetTop

```
public void setOffsetTop(double top)
```

Sets the offset top position. This attribute, along with the `offsetLeft` attribute, adjusts the tag's final top/left positioning which is based on the `position` attribute of the tag. When the tag has no position, the offset top will be the actual top attribute in the tag output.

Parameters:

top - the top position attribute.

See Also:

[getOffsetTop\(\)](#)

[getOffsetLeft\(\)](#)

[setOffsetLeft\(double\)](#)

getOffsetLeft

```
public double getOffsetLeft()
```

Returns the offset left position from the `position` attribute.

The default value is 0.

When a GUI element transformation is activated, this attribute may contain a positive value since GUI elements are "longer" elements than standard text fields, and the transformation may change this attribute to avoid tags overriding each other.

Returns:

the left position attribute

See Also:

(continued from last page)

[setOffsetLeft\(double\)](#)
[getOffsetTop\(\)](#)
[setOffsetTop\(double\)](#)
[setPosition\(GXPosition\)](#)
[getPosition\(\)](#)

getOffsetRight

```
public double getOffsetRight()
```

Returns the offset right position. from the `position` attribute. Rendered only when left is 0.

The default value is 0.

Returns:

the right position attribute

See Also:

[setOffsetRight\(double\)](#)
[getOffsetTop\(\)](#)
[setOffsetTop\(double\)](#)
[setPosition\(GXPosition\)](#)
[getPosition\(\)](#)

setOffsetLeft

```
public void setOffsetLeft(double left)
```

Sets the offset left position. This attribute, along with the `offsetTop` attribute, adjusts the tag's final top/left positioning which is based on the `position` attribute of the tag. When the tag has no position, the offset left will be the actual left attribute in the tag output.

Parameters:

`left` - the left position attribute

See Also:

[getOffsetLeft\(\)](#)
[getOffsetTop\(\)](#)
[setOffsetTop\(double\)](#)
[setPosition\(GXPosition\)](#)
[getPosition\(\)](#)

setOffsetRight

```
public void setOffsetRight(double right)
```

Sets the offset right position. This attribute, along with the `offsetTop` attribute, adjusts the tag's final top/right positioning which is based on the `position` attribute of the tag, and when configuring to render from right to left. When the tag has no position, the offset right will be the actual right attribute in the tag output. For this method to work, you must open the ApplinX Framework Configuration Editor and select the Render tags from right check box in the Instant node.

Parameters:

`right` - the right position attribute

See Also:

[getOffsetRight\(\)](#)
[getOffsetTop\(\)](#)
[setOffsetTop\(double\)](#)
[setPosition\(GXPosition\)](#)

(continued from last page)

[getPosition\(\)](#)

setOffsetHeight

```
public void setOffsetHeight(double height)
```

getOffsetHeight

```
public double getOffsetHeight()
```

setTopPadding

```
public void setTopPadding(double topPadding)
```

getTopPadding

```
public double getTopPadding()
```

setPosition

```
public void setPosition(GXPosition position)
```

Sets the position of the tag in host screen units (row, column). The position will be translated in the result as top/left attributes, using the configured font size [GXRenderConfig.setFontSize\(int\)](#), and the specified offset top/left attributes of the tag.

Other considerations:

- When a tag has leading spaces, it will increase the tag's left attribute, and the spaces will be trimmed (only in the final result).
- RTL languages - Hebrew/Arabic.

This attribute is not rendered, since it does not contribute any visual information.

Parameters:

`position` - the position that the tag is considered to have on the host screen

See Also:

[GXIScreenTagModel.getNeighbor\(GXITag, int\)](#)

setPosition

```
public void setPosition(int row,  
                        int column)
```

A convenient method for setting row and column instead of using a position object.

Parameters:

`row` - the row of the position

`column` - the column of the position

(continued from last page)

See Also:

[setPosition\(GXPosition\)](#)

getPosition

```
public GXPosition getPosition()
```

Returns the position of the tag in host screen units (row, column). A tag that was derived from the host screen will have the position of the field it was derived from.

The position may also be used for locating neighboring tags using the [GXIScreenTagModel.getNeighbor\(GXITag, int\)](#) method.

In addition the position may be used for locating tags by position using the [GXIScreenTagModel.executePositionQuery\(GXPosition\)](#) method.

This attribute is not rendered, since it does not contribute any visual information.

Returns:

the position of the tag on the screen tag model. If the tag is not related to a host field element, the returned value is null.

getLength

```
public int getLength()
```

Returns the length that the tag is considered to occupy on the host screen.

This attribute should not be rendered, since it does not contribute any visual information.

Returns:

the length of the tag on the host screen. If the tag does not have a length on the host screen, 0 is returned.

setLength

```
public void setLength(int length)
```

Sets the actual length of the tag on the screen tag model.

The length is primarily used for locating the tag by position using the [GXIScreenTagModel.executePositionQuery\(GXPosition\)](#) method, and for locating neighbors [GXIScreenTagModel.getNeighbor\(GXITag, int\)](#). If a length is not specified the tag will be considered as the size of 1 for search purposes.

For text fields, the length attribute determines the actual size of the text field.

This attribute should not be rendered, since it does not contribute any visual information.

Parameters:

length - the length of the tag on the screen tag model

See Also:

[GXIScreenTagModel.executePositionQuery\(GXPosition\)](#)

[GXIScreenTagModel.getNeighbor\(GXITag, int\)](#)

getTagName

```
public String getTagName()
```

Returns the concrete name of the tag type. Example, 'A' for links in HTML.

Returns:

(continued from last page)

the actual tag name (not the Name attribute)

setAttribute

```
public void setAttribute(String name,  
    String value)
```

Sets the value of a given attribute.

If the attribute doesn't exist - it is added. If the attribute exists - its value is replaced.

The attribute is case sensitive. All the attributes built by the renderer are lower case. When adding an HTML css class, it is appended to the other css classes.

To set a single css class use `removeAttribute("class")` before the above method.

Parameters:

name - the name of the attribute

value - the value to set for the attribute

getAttribute

```
public String getAttribute(String name)
```

Returns the value of an attribute according to its name.

Parameters:

name - the name of the attribute

Returns:

the value of the attribute. If the attribute doesn't exist, `null` is returned.

removeAttribute

```
public void removeAttribute(String name)
```

Removes an attribute according to its name.

Parameters:

name - the name of the attribute

isVisible

```
public boolean isVisible()
```

Determines whether to display the tag or not. The tag will still remain part of the tag model.

Returns:

if the the tag visible

setVisible

```
public void setVisible(boolean isVisible)
```

Sets the tag to be visible/invisible. The tag will not be included at all in the result.

Parameters:

isVisible - if the tag should be visible

See Also:

[setVisible\(boolean, boolean\)](#)

setVisible

```
public void setVisible(boolean isVisible,  
                       boolean doRender)
```

Used for setting the tag to be visible/invisible. For HTML tags if setVisible is false and doRender is true, then the tag will be rendered with `style="display:none"` attribute.

Parameters:

`isVisible` - if the tag should be visible
`doRender` - determines if the tag should be rendered invisibly

getContent

```
public String getContent()
```

Used for retrieving the content of the tag.

A unified method for all types of tags. All tag types implementation returns the content from a different property, in order to be able to query any tag for it's content in a generic way.

For example:

- A combo box returns the selected value as the content
- An HTML label returns it's inner text

Returns:

the content of the tag

getHostField

```
public GXIField getHostField()
```

Returns the host field which the tag is based on. May be used for querying the host field content and properties.

Returns:

the host field that the tag is based on

copyFrom

```
public void copyFrom(GXITag tag)
```

Copies tags fields

Parameters:

`tag` - the tag to copy from

com.sabratec.applinx.presentation.tags Interface GXITextFieldTag

All Superinterfaces:

[GXITag](#)

public interface **GXITextFieldTag**
extends [GXITag](#)

This interface represents a text field tag. The common usage for using this tag is when a host field is an unprotected field.

An `onNewTextField` event is thrown when a new text field is created by the Renderer.

The method `{#getContent() }` returns the text of the text field (**value** attribute in HTML).

To create a new text field use `GXHtmlTagFactory.istance().newTextField(...)`

See Also:

[GXTagListener.onNewTextField\(GXRenderEvent, GXITextFieldTag\)](#),
[GXHtmlTagFactory.newTextField\(String\)](#)

Method Summary

String	getText() Returns the tag's text, value attribute in HTML.
boolean	isPassword() Returns if the text field is a password field.
void	setPassword (boolean isPassword) Set if the text field is a password field.
void	setText (String text) Sets the tag's text, value attribute in HTML.

Methods inherited from interface [com.sabratec.applinx.presentation.tags.GXITag](#)

[copyFrom](#), [getAttribute](#), [getChildren](#), [getContent](#), [getHostField](#), [getId](#), [getLength](#), [getOffsetHeight](#), [getOffsetLeft](#), [getOffsetRight](#), [getOffsetTop](#), [getParent](#), [getPosition](#), [getTagName](#), [getTopPadding](#), [hasChildren](#), [isVisible](#), [removeAttribute](#), [setAttribute](#), [setId](#), [setLength](#), [setOffsetHeight](#), [setOffsetLeft](#), [setOffsetRight](#), [setOffsetTop](#), [setPosition](#), [setPosition](#), [setTopPadding](#), [setVisible](#), [setVisible](#)

Methods

isPassword

public boolean **isPassword**()

Returns if the text field is a password field.

Returns:

if the text field is a password field

(continued from last page)

setPassword

```
public void setPassword(boolean isPassword)
```

Set if the text field is a password field.

Parameters:

isPassword - If the text field is a password field

getText

```
public String getText()
```

Returns the tag's text, **value** attribute in HTML.

Returns:

the tag's text

setText

```
public void setText(String text)
```

Sets the tag's text, **value** attribute in HTML.

Parameters:

text - the tag's text

com.sabratec.applinx.presentation.tags Class GXTableCellList

```
java.lang.Object
```

```
├--GXInitializableTagList
```

```
├--com.sabratec.applinx.presentation.tags.GXTableCellList
```

```
public class GXTableCellList
extends GXInitializableTagList
```

This interface represents a list of table cell tags. The list is a member of a table row tag. It allows retrieving, adding and removing table cells from the cell list. Each cell also may have child tags such as text fields, labels, combo boxes, etc.

See Also:

[GXITableRowTag.getCells\(\)](#)

Constructor Summary

public	GXTableCellList(GXITableRowTag rowTag) Initializes the list and associates it to the specified row tag.
--------	----------------------------------------------------------------------------------------------------------------------------

Method Summary

void	add(GXITableCellTag cell) Adds a new cell to the table cell list.
GXITableCellTag	get(int index) Returns the table cell according to the index.
void	insert(GXITableCellTag cell, int index) Inserts the cell at the specified index.

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXTableCellList

```
public GXTableCellList(GXITableRowTag rowTag)
```

Initializes the list and associates it to the specified row tag. All added cell tags `getParent()` method will return the row tag

Parameters:

`rowTag` - the row's parent tag

Methods

(continued from last page)

get

```
public GXTableCellTag get(int index)
    throws ArrayIndexOutOfBoundsException
```

Returns the table cell according to the index.

Parameters:

index - the index of the requested cell

Returns:

the table cell according to the index

Throws:

[ArrayIndexOutOfBoundsException](#) - if the index was invalid.

insert

```
public void insert(GXTableCellTag cell,
    int index)
    throws ArrayIndexOutOfBoundsException
```

Inserts the cell at the specified index.

Parameters:

cell - the new table cell to insert

index - the cell-list index to insert the cell at

Throws:

[ArrayIndexOutOfBoundsException](#) - if the index was invalid.

add

```
public void add(GXTableCellTag cell)
```

Adds a new cell to the table cell list.

Parameters:

cell - The new cell to add

com.sabratec.applinx.presentation.tags Class GXTableRowList

java.lang.Object

└-GXInitializableTagList

└-com.sabratec.applinx.presentation.tags.GXTableRowList

public class **GXTableRowList**
extends GXInitializableTagList

This interface represents a list of table row tags. The list is a member of a table tag. It allows retrieving, adding and removing table rows from the row list.

See Also:

[GXITableTag.getRows\(\)](#)

Constructor Summary

public	GXTableRowList (GXITableTag tableTag) Initializes the list and associates it to the specified table tag.
--------	----------------------------------------------------------------------------------------------------------------------------------------------

Method Summary

void	add (GXITableRowTag row) Adds a new row to the table row list
GXITableRowTag	get (int index) Returns the table row according to the index.
void	insert (GXITableRowTag row, int index) Inserts the row at the specified index.

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

GXTableRowList

public **GXTableRowList**([GXITableTag](#) tableTag)

Initializes the list and associates it to the specified table tag. All added row tags `getParent()` method will return the row tag

Parameters:

tableTag - the row's parent tag

Methods

(continued from last page)

get

```
public GXTableRowTag get(int index)  
    throws ArrayIndexOutOfBoundsException
```

Returns the table row according to the index.

Parameters:

index - the index of the requested row

Returns:

the table row according to the index

Throws:

[ArrayIndexOutOfBoundsException](#) - if the index was invalid.

insert

```
public void insert(GXTableRowTag row,  
    int index)
```

Inserts the row at the specified index.

Parameters:

row - the new table row to insert

index - the row-list index to insert the row at

Throws:

[ArrayIndexOutOfBoundsException](#) - if the index was invalid.

add

```
public void add(GXTableRowTag row)
```

Adds a new row to the table row list

Parameters:

row - The new row to add

com.sabratec.applinx.presentation.tags Class GXTagList

java.lang.Object

└-GXInitializableTagList

└-com.sabratec.applinx.presentation.tags.GXTagList

public class **GXTagList**
extends GXInitializableTagList

This interface represents a list of tags. The list may be retrieved from an executed query on the screen tag model. The list allows retrieving, adding and removing tags from the tags list.

See Also:

[GXIScreenTagModel.executeQuery\(GXITagQuery\)](#)

Constructor Summary

public	GXTagList()
public	GXTagList(GXITag parentTag) Initializes the list and associates it to the parent tag.

Method Summary

void	add(GXITag tag) Add a new tag to the tag list
GXITag	get(int index) Return the cell according to the index.
void	insert(GXITag tag, int index) Inserts the tag at the specified index.
void	remove(GXITag tag) Removes the specified tag from the tag list
void	replace(GXITag originalTag, GXITag newTag) Replaces the specified tag with the original tag in the tag list.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXTagList

public **GXTagList()**

GXTagList

```
public GXTagList(GXITag parentTag)
```

Initializes the list and associates it to the parent tag. All added tags `getParent()` method will return the parent tag

Parameters:

`parentTag` - the parent tag

Methods

replace

```
public void replace(GXITag originalTag,  
                   GXITag newTag)
```

Replaces the specified tag with the original tag in the tag list.

The following original tag properties will be copied to the new tag:
`position, length, offsetTop, offsetLeft, hostField`

Parameters:

`originalTag` - the original tag which should be replaced
`newTag` - the new tag that should replace the original tag

remove

```
public void remove(GXITag tag)
```

Removes the specified tag from the tag list

Parameters:

`tag` - The tag to remove

insert

```
public void insert(GXITag tag,  
                  int index)
```

Inserts the tag at the specified index.

Parameters:

`tag` - the new tag to insert
`index` - the tag-list index to insert the tag at

Throws:

`ArrayIndexOutOfBoundsException` - if the index was invalid.

get

```
public GXITag get(int index)
```

Return the cell according to the index.

Parameters:

`index` - the index of the requested tag

(continued from last page)

Returns:

the tag according to the index

Throws:

`ArrayIndexOutOfBoundsException` - if the index was invalid.

add

```
public void add(GXITag tag)
```

Add a new tag to the tag list

Parameters:

tag - The new tag to add

com.sabratec.applinx.presentation.tags Class GXTagModelConstants

java.lang.Object

└-com.sabratec.applinx.presentation.tags.GXTagModelConstants

public class **GXTagModelConstants**
extends Object

This class contains constants used by [GXIScreenTagModel](#)

Field Summary

public static final	NEIGHBOR_ABOVE Value: 0
public static final	NEIGHBOR_BELOW Value: 1
public static final	NEIGHBOR_LEFT Value: 2
public static final	NEIGHBOR_RIGHT Value: 3

Constructor Summary

public	GXTagModelConstants()
--------	---------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

NEIGHBOR_ABOVE

public static final int **NEIGHBOR_ABOVE**

Constant value: 0

See Also:

[GXIScreenTagModel.getNeighbor\(GXITag, int\)](#)

NEIGHBOR_BELOW

public static final int **NEIGHBOR_BELOW**

(continued from last page)

Constant value: **1**

See Also:

[GXIScreenTagModel.getNeighbor\(GXITag, int\)](#)

NEIGHBOR_LEFT

public static final int **NEIGHBOR_LEFT**

Constant value: **2**

See Also:

[GXIScreenTagModel.getNeighbor\(GXITag, int\)](#)

NEIGHBOR_RIGHT

public static final int **NEIGHBOR_RIGHT**

Constant value: **3**

See Also:

[GXIScreenTagModel.getNeighbor\(GXITag, int\)](#)

Constructors

GXTagModelConstants

public **GXTagModelConstants**()

Package

com.sabratec.applinx.presentation.tags.html

This package provides specific HTML tags such as: HTML hidden tag, Generic tag nad HTML string tag.

com.sabratec.applinx.presentation.tags.html Class GXHtmlGenericTag

```
java.lang.Object
  |
  +-GXHtmlTag
    |
    +-com.sabratec.applinx.presentation.tags.html.GXHtmlGenericTag
```

```
public class GXHtmlGenericTag
extends GXHtmlTag
```

This class represents a generic HTML tag, which has a display functionality only
For example, <div>, , <p> etc.

To create a new HTML generic tag, use `GXHtmlTagFactory. instance().newGenericTag(<TAG NAME>)`.

Use the `setInnerText` method to set text to the tag. Use `setAttribute` to add an attribute to the tag. Use `getChildren().add(...)` to create child tags.

See Also:

[GXHtmlTagFactory.newGenericTag\(String\)](#)

Method Summary

String	getContent() Returns the inner text of the tag.
void	setInnerText(String innerText) Sets the inner text of the tag
void	setTagName(String tagName) Sets the concrete tag name.

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods

setInnerText

```
public void setInnerText(String innerText)
```

Sets the inner text of the tag

Parameters:

`innerText` - The inner text of the tag

setTagName

```
public void setTagName(String tagName)
```

Sets the concrete tag name.

(continued from last page)

Parameters:

tagName - the concrete tag name.

getContent

```
public String getContent()
```

Returns the inner text of the tag.

Returns:

The inner text of the tag

com.sabratec.applinx.presentation.tags.html Class GXHtmlHidden

```
java.lang.Object
  |
  +-GXHtmlTag
     |
     +-com.sabratec.applinx.presentation.tags.html.GXHtmlHidden
```

```
public class GXHtmlHidden
  extends GXHtmlTag
```

This class represents an HTML hidden input (<input type="hidden").

The method {#getContent()} returns the **value** attribute of the hidden tag.

To create a new hidden tag use `GXHtmlTagFactory. instance().newHiddenTag(...)`

Method Summary

String	getContent() Returns the value of the hidden tag
String	getValue()
void	initialize() For internal use
void	setId(String tagId) Sets the tag ID, also sets the name attribute
void	setValue(String value) Sets the value of the text field

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods

getValue

```
public String getValue()
```

Returns:

The value of the hidden tag

setValue

```
public void setValue(String value)
```

Sets the value of the text field

(continued from last page)

Parameters:value - the value of the hidden tag

setId

```
public void setId(String tagId)
```

Sets the tag ID, also sets the name attribute

Parameters:tagId - the tag ID

initialize

```
public void initialize()
```

For internal use

getContent

```
public String getContent()
```

Returns the value of the hidden tag

Returns:the value of the hidden tag

com.sabratec.applinx.presentation.tags.html Class GXHtmlString

```
java.lang.Object
  |
  +-GXHtmlTag
    |
    +-com.sabratec.applinx.presentation.tags.html.GXHtmlString
```

```
public class GXHtmlString
extends GXHtmlTag
```

This class is used for adding HTML free text. The text may also contain tags.

To create a new HTML string use `GXHtmlTagFactory.istance().newHtmlString(...)`

Method Summary

String	getContent()
void	renderInto (StringBuffer result) For internal use
void	setTagName (String tagName) Sets the concrete name of the tag
void	setTagText (String htmlText) Sets the tag's text.

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods

setTagText

```
public void setTagText(String htmlText)
```

Sets the tag's text. May contain any HTML characters, such as "<" & ">".

Parameters:

`htmlText` - HTML text of the tag

renderInto

```
public void renderInto(StringBuffer result)
```

For internal use

Parameters:

`result`

getContent

```
public String getContent()
```

Returns:

The HTML text of the tag

setTagName

```
public void setTagName(String tagName)
```

Sets the concrete name of the tag

Parameters:

tagName - The name of the tag

com.sabratec.applinx.presentation.tags.html Class GXHtmlTagFactory

java.lang.Object

└-com.sabratec.applinx.presentation.tags.html.GXHtmlTagFactory

public class **GXHtmlTagFactory**
extends Object

Method Summary

static GXHtmlTagFactory	instance() Returns an instance of the HTML tag factory.
GXIButtonTag	newButton() Returns a new HTML button tag (<input type="button">)
GXICheckboxTag	newCheckbox(String tagId) Returns a new HTML check box tag.
GXIComboboxTag	newCombobox(String tagId) Returns a new HTML combo box tag (<select>) The tag ID also sets the name of the tag.
GXHtmlGenericTag	newGenericTag(String tagName) Returns a new HTML generic tag, which may be used for creating a tag.
GXHtmlHidden	newHiddenTag(String tagId) Returns a new HTML hidden tag (<input type="hidden">) The tag ID also sets the name of the tag.
GXHtmlString	newHtmlString(String text) Used for creating a free text HTML tag.
GXImageTag	newImage()
GXILabelTag	newLabel(String text) Returns a new HTML label tag ()
GXILinkTag	newLink(String text) Returns a new HTML link tag (<a ...>).
GXIRadioButtonTag	newRadioButton(String tagName, String tagCheckedValue) Returns a new HTML radio button tag (<input type="radio">) The tag name is used for associating single radio buttons by specifying the same name.
GXIRadioButtonGroupTag	newRadioButtonGroup(String tagId) Returns a new HTML radio button group tag.
GXILabelTag	newStaticLabel(String text)
GXITableTag	newTable() Returns a new HTML table tag (<table>)

GXITableCellTag	newTableCell() Returns a new HTML table cell tag (<td>)
GXITableCellTag	newTableHeader()
GXITableRowTag	newTableRow() Returns a new HTML table row tag (<tr>)
GXITextFieldTag	newTextField(String tagId) Returns a new HTML text field tag (<input type="text">,<input type="password">).
void	recycle(GXITag tag)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

instance

```
public static GXHtmlTagFactory instance()
```

Returns an instance of the HTML tag factory. This class is a singleton and using this method is the only way to use this class.

Syntax:

```
GXHtmlTagFactory.instance().new<LT;TAG NAME>...
```

Returns:

an instance of the HTML tag factory.

recycle

```
public void recycle(GXITag tag)
```

newLabel

```
public GXILabelTag newLabel(String text)
```

Returns a new HTML label tag ()

Parameters:

text - The inner text of the label

Returns:

a new HTML label tag()

newStaticLabel

```
public GXILabelTag newStaticLabel(String text)
```

newTextField

```
public GXITextFieldTag newTextField(String tagId)
```

Returns a new HTML text field tag (<input type="text">,<input type="password">).

The tag ID also sets the name of the tag. It is required for returning the content to the server when the page is submitted.

To set as a password text field, use the `GXITextFieldTag.setPassword(true)` method.

Parameters:

tagId - The text field ID.

Returns:

a new HTML text field tag (<input type="text">,<input type="password">)

newTable

```
public GXITableTag newTable()
```

Returns a new HTML table tag (<table>)

Returns:

a new HTML table tag (<table>)

newTableRow

```
public GXITableRowTag newTableRow()
```

Returns a new HTML table row tag (<tr>)

Returns:

a new HTML table row tag (<tr>)

newTableCell

```
public GXITableCellTag newTableCell()
```

Returns a new HTML table cell tag (<td>)

Returns:

a new HTML table cell tag (<td>)

newButton

```
public GXIButtonTag newButton()
```

Returns a new HTML button tag (<input type="button">)

Returns:

a new HTML button tag (<input type="button">)

newLink

```
public GXILinkTag newLink(String text)
```

Returns a new HTML link tag (<a ...>).

(continued from last page)

Parameters:

text - The inner text of the link

Returns:

a new HTML link tag (<a ...>)

newCombobox

```
public GXIComboboxTag newCombobox(String tagId)
```

Returns a new HTML combo box tag (<select>) The tag ID also sets the name of the tag. It is required for returning the content to the server when the page is submitted.

Parameters:

tagId - The tag ID

Returns:

a new HTML combo box tag(<select>)

newGenericTag

```
public GXHtmlGenericTag newGenericTag(String tagName)
```

Returns a new HTML generic tag, which may be used for creating a tag.

Parameters:

tagName - The specified tag name

Returns:

a new HTML generic tag

newRadioButtonGroup

```
public GXIRadioButtonGroupTag newRadioButtonGroup(String tagId)
```

Returns a new HTML radio button group tag. It is rendered as a table with radio buttons and captions. The tag ID sets the name of the radio button tags. It is required for returning the content to the server when the page is submitted.

Parameters:

tagId - The radio button group tag ID

Returns:

a new HTML label tag ()

newRadioButton

```
public GXIRadioButtonTag newRadioButton(String tagName,  
String tagCheckedValue)
```

Returns a new HTML radio button tag (<input type="radio">) The tag name is used for associating single radio buttons by specifying the same name.

Parameters:

tagName - The tag name

tagCheckedValue - The value of the tag when it is selected

Returns:

a new HTML radio button tag (<input type="radio">)

newHiddenTag

```
public GXHtmlHidden newHiddenTag(String tagId)
```

Returns a new HTML hidden tag (<input type="hidden">) The tag ID also sets the name of the tag. It is required for returning the content to the server when the page is submitted.

Parameters:

tagId - The tag ID

Returns:

a new HTML hidden tag (<input type="hidden">)

newCheckbox

```
public GXICheckboxTag newCheckbox(String tagId)
```

Returns a new HTML check box tag.

Parameters:

tagId - The tag ID

Returns:

a new HTML check box tag

newImage

```
public GXImageTag newImage()
```

newHtmlString

```
public GXHtmlString newHtmlString(String text)
```

Used for creating a free text HTML tag.

Parameters:

text - the HTML text

Returns:

an HTML string tag

newTableHeader

```
public GXITableCellTag newTableHeader()
```

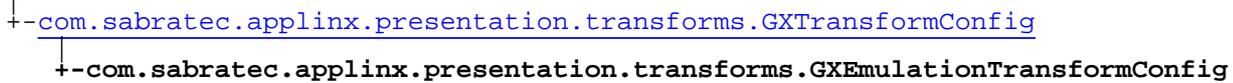
Package

com.sabratec.applinx.presentation.transforms

This package contains the ApplinX built-in transformation configurations. The built-in transformations are: Host keys, Tables, GUI elements, Window frames and emulation behavior.

com.sabratec.applinx.presentation.transforms Class GXEmulationTransformConfig

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, java.io.Serializable

public class **GXEmulationTransformConfig**
 extends [GXTransformConfig](#)
 implements java.io.Serializable, java.io.Serializable

This class is the transformation configuration of various emulation features. It determines the behavior and UI of a tag which may be derived from its host field.

Among the features:

- Field colors: all, background only, none
- Emulation attributes: data type, automatic skip, right adjust, automatic enter
- Intensified

See Also:

[GXRenderConfig.getEmulationConfig\(\)](#)

Constructor Summary

public	GXEmulationTransformConfig()
--------	----------------------------------------------

Method Summary

boolean	get_ClientBlinking() For .NET framework usage.
int	get_ColorMode() For .NET framework usage.
boolean	get_RenderAppFieldCss() For .NET framework usage.
boolean	get_RenderEmulationAttributes() For .NET framework usage.
boolean	get_RenderIntensifiedCss() For .NET framework usage.
int	getColorMode() Determines whether to display all the colors as they are displayed in the host (Background & foreground), display only the background colors or not display any colors at all.
boolean	isClientBlinking() client configuration allows blinking

boolean	isRenderAppFieldCss() Determines whether to render a css class for application fields
boolean	isRenderEmulationAttributes() Returns if emulation attributes are rendered.
boolean	isRenderIntensifiedCss() Determines whether to render an intensified css class for intensified host fields.
void	set_ClientBlinking (boolean isClientBlinking) For .NET framework usage.
void	set_ColorMode (int colorMode) For .NET framework usage.
void	set_RenderAppFieldCss (boolean isRenderAppFieldCss) For .NET framework usage.
void	set_RenderEmulationAttributes (boolean isRenderEmulationAttributes) For .NET framework usage.
void	set_RenderIntensifiedCss (boolean isRenderIntensifiedCss) For .NET framework usage.
void	setClientBlinking (boolean isClientBlinking) client configuration allows blinking
void	setColorMode (int colorMode) Determines whether to display all the colors as they are displayed in the host (Background & foreground), display only the background colors or not display any colors at all.
void	setRenderAppFieldCss (boolean isRenderAppFieldCss) Sets if to render the application field css class.
void	setRenderEmulationAttributes (boolean isRenderEmulationAttributes) Determines whether to render emulation attributes in text fields.
void	setRenderIntensifiedCss (boolean isRenderIntensifiedCss) Sets if to render intensified css class for intensified host fields.

Methods inherited from class [com.sabratec.applinx.presentation.transforms.GXTransformConfig](#)

[get_Enabled](#), [isEnabled](#), [set_Enabled](#), [setEnabled](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXEmulationTransformConfig

```
public GXEmulationTransformConfig()
```

Methods

(continued from last page)

getColorMode

```
public int getColorMode()
```

Determines whether to display all the colors as they are displayed in the host (Background & foreground), display only the background colors or not display any colors at all.

Returns:

Returns the color mode.

See Also:

[GXTransformConstants.COLORS_ALL](#)

[GXTransformConstants.COLORS_NONE](#)

[GXTransformConstants.COLORS_REVERSED_VIDEO](#)

setColorMode

```
public void setColorMode(int colorMode)
```

Determines whether to display all the colors as they are displayed in the host (Background & foreground), display only the background colors or not display any colors at all.

Parameters:

colorMode - The color mode to set.

See Also:

[GXTransformConstants.COLORS_ALL](#)

[GXTransformConstants.COLORS_NONE](#)

[GXTransformConstants.COLORS_REVERSED_VIDEO](#)

isRenderEmulationAttributes

```
public boolean isRenderEmulationAttributes()
```

Returns if emulation attributes are rendered.

Returns:

if emulation attributes are rendered

See Also:

[setRenderEmulationAttributes\(boolean\)](#)

setRenderEmulationAttributes

```
public void setRenderEmulationAttributes(boolean isRenderEmulationAttributes)
```

Determines whether to render emulation attributes in text fields. Emulation attributes are special ApplinX attributes that start with "gx_" and are added to the rendered text field tag. These attributes provide additional information to the ApplinX JavaScript engine, which changes the behavior of the text fields. The attributes are:

- Automatic skipping (gx_autoSkip) - will cause the text field to skip to the neighboring text field, once it is filled with content.
 - Data type (gx_dt) - The data type of the field. See [GXBaseObjectConstants](#) for possible data types.
 - Right adjustment (gx_ra) - AS/400 right adjust
 - Automatic ENTER (gx_au) - AS/400 automatic enter
-

(continued from last page)

Parameters:`isRenderEmulationAttributes` - whether to add emulation attributes in text fields

isRenderAppFieldCss

```
public boolean isRenderAppFieldCss()
```

Determines whether to render a css class for application fields

Returns:

if an application field css class is rendered

setRenderAppFieldCss

```
public void setRenderAppFieldCss(boolean isRenderAppFieldCss)
```

Sets if to render the application field css class.

Parameters:`isRenderAppFieldCss` - whether to render an application field's css class

isRenderIntensifiedCss

```
public boolean isRenderIntensifiedCss()
```

Determines whether to render an intensified css class for intensified host fields.

Returns:

if an intensified css class is rendered

setRenderIntensifiedCss

```
public void setRenderIntensifiedCss(boolean isRenderIntensifiedCss)
```

Sets if to render intensified css class for intensified host fields.

Parameters:`isRenderIntensifiedCss` - whether to render an intensified css class

isClientBlinking

```
public boolean isClientBlinking()
```

client configuration allows blinking

Returns:

setClientBlinking

```
public void setClientBlinking(boolean isClientBlinking)
```

client configuration allows blinking

Parameters:`isClientBlinking`

(continued from last page)

get_RenderEmulationAttributes

```
public boolean get_RenderEmulationAttributes()
```

For .NET framework usage. Expose the method as a property.

get_RenderAppFieldCss

```
public boolean get_RenderAppFieldCss()
```

For .NET framework usage. Expose the method as a property.

get_RenderIntensifiedCss

```
public boolean get_RenderIntensifiedCss()
```

For .NET framework usage. Expose the method as a property.

get_ColorMode

```
public int get_ColorMode()
```

For .NET framework usage. Expose the method as a property.

set_ColorMode

```
public void set_ColorMode(int colorMode)
```

For .NET framework usage. Expose the method as a property.

set_RenderEmulationAttributes

```
public void set_RenderEmulationAttributes(boolean isRenderEmulationAttributes)
```

For .NET framework usage. Expose the method as a property.

set_RenderAppFieldCss

```
public void set_RenderAppFieldCss(boolean isRenderAppFieldCss)
```

For .NET framework usage. Expose the method as a property.

set_RenderIntensifiedCss

```
public void set_RenderIntensifiedCss(boolean isRenderIntensifiedCss)
```

For .NET framework usage. Expose the method as a property.

get_ClientBlinking

```
public boolean get_ClientBlinking()
```

For .NET framework usage. Expose the method as a property.

set_ClientBlinking

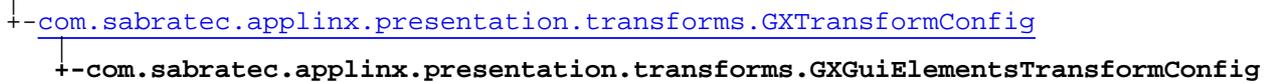
```
public void set_ClientBlinking(boolean isClientBlinking)
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.presentation.transforms Class GXGuiElementsTransformConfig

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, java.io.Serializable

Deprecated. *Gui elements are translated into transformations, and should be controls from ApplinX composer. This class is the transformation configuration for GUI elements as defined in ApplinX composer. It determines the css class for each GUI element and the alignment of radio button groups.*

```

public class GXGuiElementsTransformConfig
extends GXTransformConfig
implements java.io.Serializable, java.io.Serializable
  
```

See Also:

[GXRenderConfig.getGuiElementsConfig\(\)](#)

Constructor Summary

public	GXGuiElementsTransformConfig() Deprecated.
--------	----------------------------------------------------------------------

Method Summary

boolean	get_AdjustNeighbours() Deprecated.
int	get_Alignment() Deprecated.
String	get_CheckboxCss() Deprecated.
String	get_ComboboxCss() Deprecated.
String	get_RadioButtonCss() Deprecated.
int	getAlignment() Deprecated.
String	getCheckboxCss() Deprecated.
String	getComboboxCss() Deprecated.

String	getRadioButtonCss() Deprecated.
boolean	isAdjustNeighbours() Deprecated.
void	set_AdjustNeighbours (boolean isAdjustNeighbours) Deprecated.
void	set_Alignment (int alignment) Deprecated.
void	set_CheckboxCss (String checkboxCss) Deprecated.
void	set_ComboboxCss (String comboboxCss) Deprecated.
void	set_RadioButtonCss (String radioButtonCss) Deprecated.
void	setAdjustNeighbours (boolean isAdjustNeighbours) Deprecated.
void	setAlignment (int alignment) Deprecated.
void	setCheckboxCss (String checkboxCss) Deprecated.
void	setComboboxCss (String comboboxCss) Deprecated.
void	setRadioButtonCss (String radioButtonCss) Deprecated.

Methods inherited from class [com.sabratec.applinx.presentation.transforms.GXTransformConfig](#)

[get_Enabled](#), [isEnabled](#), [set_Enabled](#), [setEnabled](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXGuiElementsTransformConfig

```
public GXGuiElementsTransformConfig()
```

Deprecated.

Methods

(continued from last page)

getAlignment

```
public int getAlignment()
```

Deprecated.

Returns:

Returns the alignment.

See Also:

[GXPresentationConstants.ALIGNMENT_HORIZONTAL](#)

[GXPresentationConstants.ALIGNMENT_VERTICAL](#)

setAlignment

```
public void setAlignment(int alignment)
```

Deprecated.

Parameters:

alignment - The alignment to set.

See Also:

[GXPresentationConstants.ALIGNMENT_HORIZONTAL](#)

[GXPresentationConstants.ALIGNMENT_VERTICAL](#)

isAdjustNeighbours

```
public boolean isAdjustNeighbours()
```

Deprecated.

Returns:

whether the neighboring tags will be adjusted

See Also:

[setAdjustNeighbours\(boolean\)](#)

setAdjustNeighbours

```
public void setAdjustNeighbours(boolean isAdjustNeighbours)
```

Deprecated.

Determines whether to adjust the neighboring tags when replacing a text field with a GUI element. The replacemnt is done according to the GUI pixel offset from the original text field. `true` by default.

Parameters:

isAdjustNeighbours - whether to adjust the neighboring tags

(continued from last page)

getCheckboxCss

```
public String getCheckboxCss()
```

Deprecated.

The css class for a checkbox.

Returns:

the css class for a check box

setCheckboxCss

```
public void setCheckboxCss(String checkboxCss)
```

Deprecated.

The css class for a checkbox.

Parameters:

checkboxCss - the css class for a check box

getComboboxCss

```
public String getComboboxCss()
```

Deprecated.

The css class for a combo box.

Returns:

the css class for a combo box

setComboboxCss

```
public void setComboboxCss(String comboboxCss)
```

Deprecated.

The css class for a combo box.

Parameters:

comboboxCss - the css class for a combo box

getRadioButtonCss

```
public String getRadioButtonCss()
```

Deprecated.

The css class for a radio button.

Returns:

the css class for radio button groups

setRadioButtonCss

```
public void setRadioButtonCss(String radioButtonCss)
```

(continued from last page)

Deprecated.

The css class for a radio button.

Parameters:

radioButtonCss - the css class for radio button groups

get_AdjustNeighbours

```
public boolean get_AdjustNeighbours()
```

Deprecated.

For .NET framework usage. Expose the method as a property.

set_AdjustNeighbours

```
public void set_AdjustNeighbours(boolean isAdjustNeighbours)
```

Deprecated.

For .NET framework usage. Expose the method as a property.

get_Alignment

```
public int get_Alignment()
```

Deprecated.

For .NET framework usage. Expose the method as a property.

set_Alignment

```
public void set_Alignment(int alignment)
```

Deprecated.

For .NET framework usage. Expose the method as a property.

get_CheckboxCss

```
public String get_CheckboxCss()
```

Deprecated.

For .NET framework usage. Expose the method as a property.

set_CheckboxCss

```
public void set_CheckboxCss(String checkboxCss)
```

Deprecated.

For .NET framework usage. Expose the method as a property.

get_ComboboxCss

```
public String get_ComboboxCss()
```

Deprecated.

(continued from last page)

For .NET framework usage. Expose the method as a property.

set_ComboboxCss

```
public void set_ComboboxCss(String comboboxCss)
```

Deprecated.

For .NET framework usage. Expose the method as a property.

get_RadioButtonCss

```
public String get_RadioButtonCss()
```

Deprecated.

For .NET framework usage. Expose the method as a property.

set_RadioButtonCss

```
public void set_RadioButtonCss(String radioButtonCss)
```

Deprecated.

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.presentation.transforms Class GXHebrewTransform

java.lang.Object

└-com.sabratec.applinx.presentation.transforms.GXHebrewTransform

All Implemented Interfaces:

[GXCompletionListener](#)

public class **GXHebrewTransform**
 extends Object
 implements [GXCompletionListener](#)

Constructor Summary

public	GXHebrewTransform (boolean isTypingRTL)
--------	---------------------------------------------------------

Method Summary

void	addRtlAttribute (GXRenderEvent event, GXILabelTag label)
void	onComplete (GXRenderEvent event)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.sabratec.applinx.presentation.event.GXCompletionListener](#)

[onComplete](#)

Constructors

GXHebrewTransform

public **GXHebrewTransform**(boolean isTypingRTL)

Methods

onComplete

public void **onComplete**([GXRenderEvent](#) event)

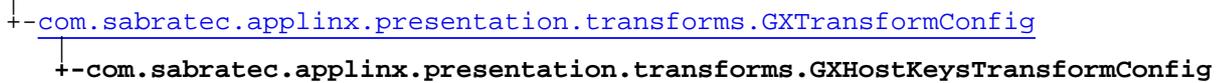
(continued from last page)

addRtlAttribute

```
public void addRtlAttribute(GXRenderEvent event,  
    GXILabelTag label)
```

com.sabratec.applinx.presentation.transforms Class GXHostKeysTransformConfig

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, java.io.Serializable

public class **GXHostKeysTransformConfig**
 extends [GXTransformConfig](#)
 implements java.io.Serializable, java.io.Serializable

This class is the transformation configuration for host keys as defined in the ApplinX application. It determines the rendering type of the host keys (links/buttons), and the css class of the host keys.

See Also:

[GXRenderConfig.getHostKeysConfig\(\)](#)

Constructor Summary

public	GXHostKeysTransformConfig()
--------	---------------------------------------------

Method Summary

String	get_HostKeyCss() For .NET framework usage.
int	get_RenderingType() For .NET framework usage.
String	getHostKeyCss()
int	getRenderingType() The type of the rendered host keys.
void	set_HostKeyCss(String hostKeyCss) For .NET framework usage.
void	set_RenderingType(int renderingType) For .NET framework usage.
void	setHostKeyCss(String hostKeyCss)
void	setRenderingType(int renderingType) The type of the rendered host keys.

Methods inherited from class [com.sabratec.applinx.presentation.transforms.GXTransformConfig](#)

[get_Enabled](#), [isEnabled](#), [set_Enabled](#), [setEnabled](#)

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

GXHostKeysTransformConfig

```
public GXHostKeysTransformConfig()
```

Methods

setRenderingType

```
public void setRenderingType(int renderingType)
```

The type of the rendered host keys.

Parameters:

`renderingType` - constant representing the type of the host keys.

See Also:

[GXTransformConstants.HOSTKEYS_BUTTONS](#)

[GXTransformConstants.HOSTKEYS_LINKS](#)

[GXTransformConstants.HOSTKEYS_DELETE](#)

getRenderingType

```
public int getRenderingType()
```

The type of the rendered host keys.

Returns:

A constant representing the type of the host keys. Listens only to the `onComplete` event.

See Also:

[GXTransformConstants.HOSTKEYS_BUTTONS](#)

[GXTransformConstants.HOSTKEYS_LINKS](#)

[GXTransformConstants.HOSTKEYS_DELETE](#)

set_RenderingType

```
public void set_RenderingType(int renderingType)
```

For .NET framework usage. Expose the method as a property.

get_RenderingType

```
public int get_RenderingType()
```

For .NET framework usage. Expose the method as a property.

getHostKeyCss

```
public String getHostKeyCss()
```

(continued from last page)

Returns:

the CSS class of the host keys

setHostKeyCss

```
public void setHostKeyCss(String hostKeyCss)
```

Parameters:

hostKeyCss - the CSS class of the host keys

get_HostKeyCss

```
public String get_HostKeyCss()
```

For .NET framework usage. Expose the method as a property.

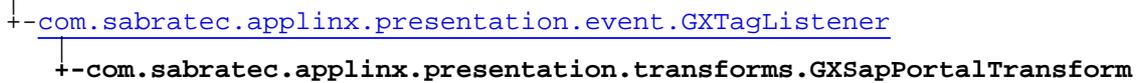
set_HostKeyCss

```
public void set_HostKeyCss(String hostKeyCss)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.presentation.transforms Class GXSapPortalTransform

java.lang.Object



public class **GXSapPortalTransform**
extends [GXTagListener](#)

This class is registered from sap portal jsp application

Constructor Summary

public	GXSapPortalTransform()
--------	----------------------------------------

Method Summary

void	onNewButton (GXRenderEvent event, GXIButtonTag button)
void	onNewCheckbox (GXRenderEvent event, GXICheckboxTag checkbox)
void	onNewCombobox (GXRenderEvent event, GXIComboboxTag combobox)
void	onNewLabel (GXRenderEvent event, GXILabelTag label)
void	onNewLink (GXRenderEvent event, GXILinkTag link)
void	onNewRadioButtonGroup (GXRenderEvent event, GXIRadioButtonGroupTag radioGroup)
void	onNewTable (GXRenderEvent event, GXITableTag table)
void	onNewTableCell (GXRenderEvent event, GXITableCellTag tableCell)
void	onNewTableRow (GXRenderEvent event, GXITableRowTag tableRow)
void	onNewTextField (GXRenderEvent event, GXITextFieldTag textField)

Methods inherited from class [com.sabratec.applinx.presentation.event.GXTagListener](#)

[onNewButton](#), [onNewCheckbox](#), [onNewCombobox](#), [onNewLabel](#), [onNewLink](#),
[onNewRadioButtonGroup](#), [onNewTable](#), [onNewTableCell](#), [onNewTableRow](#), [onNewTextField](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXSapPortalTransform

```
public GXSapPortalTransform()
```

Methods

onNewLabel

```
public void onNewLabel(GXRenderEvent event,  
    GXILabelTag label)
```

Invoked when a label (protected field) has been created. The common usage is for protected fields that are rendered as text fields.

onNewTextField

```
public void onNewTextField(GXRenderEvent event,  
    GXITextFieldTag textField)
```

Invoked when a text field has been created. The common usage is for unprotected fields that are rendered as text fields.

onNewButton

```
public void onNewButton(GXRenderEvent event,  
    GXIButtonTag button)
```

Invoked when a link has been created. The common usage is for host-keys that may be rendered as buttons.

onNewLink

```
public void onNewLink(GXRenderEvent event,  
    GXILinkTag link)
```

Invoked when a link has been created. The common usage is for host-keys that may be rendered as links.

onNewCheckbox

```
public void onNewCheckbox(GXRenderEvent event,  
    GXICheckboxTag checkbox)
```

Invoked when a checkbox has been created. The common usage is for a GUI-element that may be rendered as a check box.

onNewCombobox

```
public void onNewCombobox(GXRenderEvent event,  
    GXIComboboxTag combobox)
```

Invoked when a combo box has been created. The common usage is for a GUI-element that may be rendered as a combo box.

(continued from last page)

onNewRadioButtonGroup

```
public void onNewRadioButtonGroup(GXRenderEvent event,  
    GXIRadioButtonGroupTag radioGroup)
```

Invoked when a radio buttons group has been created. The common usage is for a GUI-element that may be rendered as a radio button's group.

onNewTable

```
public void onNewTable(GXRenderEvent event,  
    GXITableTag table)
```

Invoked when a table tag has been created.

In this case, `table.getHostField()` returns null.

onNewTableRow

```
public void onNewTableRow(GXRenderEvent event,  
    GXITableRowTag tableRow)
```

Invoked when a table row tag has been created.

In this case, `table.getHostField()` returns null.

onNewTableCell

```
public void onNewTableCell(GXRenderEvent event,  
    GXITableCellTag tableCell)
```

Invoked when a table cell has been created.

Unlike the other table-related event objects, `tableCell.getHostField()` returns the host field the cell is based on.

com.sabratec.applinx.presentation.transforms Class GXTableTransformConfig

java.lang.Object

```

  |
  +-- com.sabratec.applinx.presentation.transforms.GXTransformConfig
       |
       +-- com.sabratec.applinx.presentation.transforms.GXTableTransformConfig
  
```

All Implemented Interfaces:

java.io.Serializable, java.io.Serializable

```

public class GXTableTransformConfig
extends GXTransformConfig
implements java.io.Serializable, java.io.Serializable
  
```

This class is the transformation configuration for host tables as defined in ApplinX composer. It determines whether to adjust the tags beneath the table tag since a table tag is "taller" than standard label & text field tags. true by default. In addition it determines the various css classes of the tables.

See Also:

[GXRenderConfig.getTableConfig\(\)](#)

Constructor Summary

public	GXTableTransformConfig()
--------	------------------------------------------

Method Summary

boolean	get_AdjustNeighbours() For .NET framework usage.
boolean	get_RenderAlternatingCssClass() For .NET framework usage.
String	get_TableAlternating1CssClass() For .NET framework usage.
String	get_TableAlternating2CssClass() For .NET framework usage.
String	get_TableCssClass() For .NET framework usage.
boolean	get_WindowRelative() For .NET framework usage.
String	getTableAlternating1CssClass()
String	getTableAlternating2CssClass()
String	getTableCssClass()

boolean	isAdjustNeighbours() Determines whether to adjust the tags below the table tag, as the table tag is taller than the default tags.
boolean	isRenderAlternatingCssClass()
boolean	isWindowRelative() For internal usage
void	set_AdjustNeighbours (boolean isAdjustNeighbours) For .NET framework usage.
void	set_RenderAlternatingCssClass (boolean isRenderAlternatingCssClass) For .NET framework usage.
void	set_TableAlternating1CssClass (String tableAlternating1CssClass) For .NET framework usage.
void	set_TableAlternating2CssClass (String tableAlternating2CssClass) For .NET framework usage.
void	set_TableCssClass (String tableCssClass) For .NET framework usage.
void	set_WindowRelative (boolean isWindowRelative) For .NET framework usage.
void	setAdjustNeighbours (boolean isAdjustNeighbours) Determines whether to adjust the tags below the table tag, as the table tag is taller than the default tags.
void	setRenderAlternatingCssClass (boolean isRenderAlternatingCssClass)
void	setTableAlternating1CssClass (String tableAlternating1CssClass)
void	setTableAlternating2CssClass (String tableAlternating2CssClass)
void	setTableCssClass (String tableCssClass)
void	setWindowRelative (boolean isWindowRelative) For internal usage

Methods inherited from class [com.sabratec.applinx.presentation.transforms.GXTransformConfig](#)

[get_Enabled](#), [isEnabled](#), [set_Enabled](#), [setEnabled](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

GXTableTransformConfig

```
public GXTableTransformConfig()
```

Methods

getTableAlternating1CssClass

```
public String getTableAlternating1CssClass()
```

Returns:

the css class of the odd rows

setTableAlternating1CssClass

```
public void setTableAlternating1CssClass(String tableAlternating1CssClass)
```

Parameters:

tableAlternating1CssClass - the css class of the odd rows

getTableAlternating2CssClass

```
public String getTableAlternating2CssClass()
```

Returns:

the css class of the even rows

setTableAlternating2CssClass

```
public void setTableAlternating2CssClass(String tableAlternating2CssClass)
```

Parameters:

tableAlternating2CssClass - the css class of the even rows

getTableCssClass

```
public String getTableCssClass()
```

Returns:

the css class of the table tag

setTableCssClass

```
public void setTableCssClass(String tableCssClass)
```

(continued from last page)

Parameters:

tableCssClass - the css class of the table tag

isRenderAlternatingCssClass

```
public boolean isRenderAlternatingCssClass()
```

Returns:

whether to render alternating css classes

setRenderAlternatingCssClass

```
public void setRenderAlternatingCssClass(boolean isRenderAlternatingCssClass)
```

Parameters:

isRenderAlternatingCssClass - whether to render alternating css classes

isAdjustNeighbours

```
public boolean isAdjustNeighbours()
```

Determines whether to adjust the tags below the table tag, as the table tag is taller than the default tags.

Returns:

whether to adjust the top/left attributes of the tags below the table tag

setAdjustNeighbours

```
public void setAdjustNeighbours(boolean isAdjustNeighbours)
```

Determines whether to adjust the tags below the table tag, as the table tag is taller than the default tags.

Parameters:

isAdjustNeighbors - whether the top/left attributes of the tags below the table tag will be adjusted

isWindowRelative

```
public boolean isWindowRelative()
```

For internal usage

Returns:

setWindowRelative

```
public void setWindowRelative(boolean isWindowRelative)
```

For internal usage

Parameters:

isWindowRelative

get_TableAlternating1CssClass

```
public String get_TableAlternating1CssClass()
```

For .NET framework usage. Expose the method as a property.

set_TableAlternating1CssClass

```
public void set_TableAlternating1CssClass(String tableAlternating1CssClass)
```

For .NET framework usage. Expose the method as a property.

get_TableAlternating2CssClass

```
public String get_TableAlternating2CssClass()
```

For .NET framework usage. Expose the method as a property.

set_TableAlternating2CssClass

```
public void set_TableAlternating2CssClass(String tableAlternating2CssClass)
```

For .NET framework usage. Expose the method as a property.

get_TableCssClass

```
public String get_TableCssClass()
```

For .NET framework usage. Expose the method as a property.

set_TableCssClass

```
public void set_TableCssClass(String tableCssClass)
```

For .NET framework usage. Expose the method as a property.

get_RenderAlternatingCssClass

```
public boolean get_RenderAlternatingCssClass()
```

For .NET framework usage. Expose the method as a property.

set_RenderAlternatingCssClass

```
public void set_RenderAlternatingCssClass(boolean isRenderAlternatingCssClass)
```

For .NET framework usage. Expose the method as a property.

get_AdjustNeighbours

```
public boolean get_AdjustNeighbours()
```

For .NET framework usage. Expose the method as a property.

set_AdjustNeighbours

```
public void set_AdjustNeighbours(boolean isAdjustNeighbours)
```

(continued from last page)

For .NET framework usage. Expose the method as a property.

get_WindowRelative

```
public boolean get_WindowRelative()
```

For .NET framework usage. Expose the method as a property.

set_WindowRelative

```
public void set_WindowRelative(boolean isWindowRelative)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.presentation.transforms

Class GXTransformConfig

java.lang.Object

↳ `com.sabratec.applinx.presentation.transforms.GXTransformConfig`

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXWindowFrameTransformConfig](#), [GXTableTransformConfig](#), [GXHostKeysTransformConfig](#),
[GXGuiElementsTransformConfig](#), [GXEmulationTransformConfig](#)

```
public abstract class GXTransformConfig
extends Object
implements java.io.Serializable
```

Abstract class for all transformation configurations. Contains a method `setEnabled` for enabling/disabling the transformation.

Constructor Summary

public	GXTransformConfig()
--------	-------------------------------------

Method Summary

boolean	get_Enabled() For .NET framework usage.
boolean	isEnabled()
void	set_Enabled(boolean isEnabled) For .NET framework usage.
void	setEnabled(boolean isEnabled)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXTransformConfig

```
public GXTransformConfig()
```

Methods

(continued from last page)

isEnabled

```
public boolean isEnabled()
```

Returns:

whether the relevant transformation (such as displaying tables, or displaying the graphical window frame) is enabled

setEnabled

```
public void setEnabled(boolean isEnabled)
```

Parameters:

`isEnabled` - whether to enable the relevant transformation

get_Enabled

```
public boolean get_Enabled()
```

For .NET framework usage. Expose the method as a property.

set_Enabled

```
public void set_Enabled(boolean isEnabled)
```

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.presentation.transforms Class GXTransformConstants

java.lang.Object

└─com.sabratec.applinx.presentation.transforms.GXTransformConstants

public class **GXTransformConstants**
extends Object

This class contains various constants which are used for ApplinX built-in transformations.

Field Summary

public static final	COLORS_ALL Renders both foreground and background colors for each tag. Value: 0
public static final	COLORS_NONE Renders no colors Value: 1
public static final	COLORS_REVERSED_VIDEO Render only back colors Value: 2
public static final	HOSTKEYS_BUTTONS Renders host keys as buttons. Value: 1
public static final	HOSTKEYS_DELETE Deletes the button screen text from the screen. Value: 2
public static final	HOSTKEYS_LINKS Renders host-keys as links. Value: 0

Constructor Summary

public	GXTransformConstants()
--------	----------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

COLORS_ALL

public static final int **COLORS_ALL**

(continued from last page)

Renders both foreground and background colors for each tag.
Constant value: **0**

See Also:[GXEmulationTransformConfig.setColorMode\(int\)](#)

COLORS_NONE

```
public static final int COLORS_NONE
```

Renders no colors
Constant value: **1**

See Also:[GXEmulationTransformConfig.setColorMode\(int\)](#)

COLORS_REVERSED_VIDEO

```
public static final int COLORS_REVERSED_VIDEO
```

Render only back colors
Constant value: **2**

See Also:[GXEmulationTransformConfig.setColorMode\(int\)](#)

HOSTKEYS_LINKS

```
public static final int HOSTKEYS_LINKS
```

Renders host-keys as links. The links will be rendered in the same position as the host key's caption, if the host key's action and caption are in the same row. If they are not, the links will be rendered after the last line.
Constant value: **0**

See Also:[GXHostKeysTransformConfig.setRenderingType\(int\)](#)

HOSTKEYS_BUTTONS

```
public static final int HOSTKEYS_BUTTONS
```

Renders host keys as buttons. The buttons will be rendered in the same position as the host key's caption, if the host key's action and caption are in the same row. If they are not, the buttons will be rendered after the last line.
Constant value: **1**

See Also:[GXHostKeysTransformConfig.setRenderingType\(int\)](#)

HOSTKEYS_DELETE

```
public static final int HOSTKEYS_DELETE
```

Deletes the button screen text from the screen.
Constant value: **2**

See Also:[GXHostKeysTransformConfig.setRenderingType\(int\)](#)

Constructors

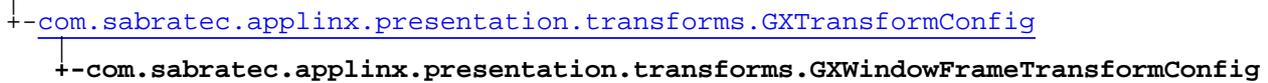
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GXTransformConstants

```
public GXTransformConstants()
```

com.sabratec.applinx.presentation.transforms Class GXWindowFrameTransformConfig

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, java.io.Serializable

public class **GXWindowFrameTransformConfig**
 extends [GXTransformConfig](#)
 implements java.io.Serializable, java.io.Serializable

This class is the transformation configuration for window frames as defined in the ApplinX application. It replaces the host window characters/reverse video with a solid bordered frame. The configuration determines the CSS class for the window frame transformation.

Constructor Summary

public	GXWindowFrameTransformConfig()
--------	------------------------------------------------

Method Summary

boolean	get_HideOnly() For .NET framework usage.
String	get_TitleWindowFrameCssClass() For .NET framework usage.
String	get_WindowFrameCssClass() For .NET framework usage.
String	getTitleWindowFrameCssClass() The CSS class of window frame title.
String	getWindowFrameCssClass() The CSS class of window frame.
boolean	isHideOnly()
void	set_HideOnly(boolean hideOnly) For .NET framework usage.
void	set_TitleWindowFrameCssClass(String titleWindowFrameCssClass) For .NET framework usage.
void	set_WindowFrameCssClass(String windowFrameCssClass) For .NET framework usage.
void	setHideOnly(boolean hideOnly)

void	setTitleWindowFrameCssClass (String titleWindowFrameCssClass) The CSS class of window frame Title.
void	setWindowFrameCssClass (String windowFrameCssClass) The CSS class of window frame.

Methods inherited from class [com.sabratec.applinx.presentation.transforms.GXTransformConfig](#)

[get_Enabled](#), [isEnabled](#), [set_Enabled](#), [setEnabled](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXWindowFrameTransformConfig

```
public GXWindowFrameTransformConfig()
```

Methods

getWindowFrameCssClass

```
public String getWindowFrameCssClass()
```

The CSS class of window frame.

Returns:

the CSS class of window frame

setWindowFrameCssClass

```
public void setWindowFrameCssClass(String windowFrameCssClass)
```

The CSS class of window frame.

Parameters:

windowFrameCssClass - the css class of window frame

getTitleWindowFrameCssClass

```
public String getTitleWindowFrameCssClass()
```

The CSS class of window frame title.

Returns:

the css class of window frame title

setTitleWindowFrameCssClass

```
public void setTitleWindowFrameCssClass(String titleWindowFrameCssClass)
```

(continued from last page)

The CSS class of window frame Title.

Parameters:

windowFrameCssClass - the css class of window frame title

setHideOnly

```
public void setHideOnly(boolean hideOnly)
```

isHideOnly

```
public boolean isHideOnly()
```

get_WindowFrameCssClass

```
public String get_WindowFrameCssClass()
```

For .NET framework usage. Expose the method as a property.

set_WindowFrameCssClass

```
public void set_WindowFrameCssClass(String windowFrameCssClass)
```

For .NET framework usage. Expose the method as a property.

get_TitleWindowFrameCssClass

```
public String get_TitleWindowFrameCssClass()
```

For .NET framework usage. Expose the method as a property.

set_TitleWindowFrameCssClass

```
public void set_TitleWindowFrameCssClass(String titleWindowFrameCssClass)
```

For .NET framework usage. Expose the method as a property.

set_HideOnly

```
public void set_HideOnly(boolean hideOnly)
```

For .NET framework usage. Expose the method as a property.

get_HideOnly

```
public boolean get_HideOnly()
```

For .NET framework usage. Expose the method as a property.

Package
com.sabratec.ci

com.sabratec.ci Class GXLoadBalancer

java.lang.Object

└-com.sabratec.ci.GXLoadBalancer

public class **GXLoadBalancer**
extends Object

In addition to working with any standard load-balancing tool, ApplinX also has a built-in Load Balancer, which allows a user to define a list of candidate servers, and receive the URL of the server which is least busy. The calculation of the load factor of a server is dependent on variables such as the number of users currently connected to the server, number of users that are idle, and other possible factors. The user can explicitly supply the list of possible servers. Servers, which are currently not running, can be added to the list and the Load Balancer will continue working normally. Alternatively, it can be read from a file containing the URLs of common servers.

Constructor Summary

public	GXLoadBalancer()
public	GXLoadBalancer (String[] serversURLs)
public	GXLoadBalancer (String fileName)

Method Summary

void	addServerURL (String serverURL) Adds a server's URL to the list of possible servers to connect.
String	getAvailableServer () A separate thread is instantiated for every server on the list.
String[]	getServers () Returns the list of possible servers to connect.
long	getWaitForResponseTimeout () Returns a response timeout, which is the time limit for waiting for servers load factor responses.
void	removeAllServerURLs () Cleans the list of server urls.
void	setConfigFile (String configFile) Sets a configuration file from which server URLs will be taken.
void	setServers (String[] serverURLs) Sets the list of possible servers to connect.
void	setWaitForResponseTimeout (long timeout) Sets a response timeout, to limit the time to wait for servers load factor responses.

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

GXLoadBalancer

```
public GXLoadBalancer()
```

GXLoadBalancer

```
public GXLoadBalancer(String[] serversURLs)
```

GXLoadBalancer

```
public GXLoadBalancer(String fileName)
```

Methods

addServerURL

```
public void addServerURL(String serverURL)
```

Adds a server's URL to the list of possible servers to connect.

Parameters:

serverURL - The server's URL

getServers

```
public String[] getServers()
```

Returns the list of possible servers to connect.

Returns:

An array with the servers' URLs

setServers

```
public void setServers(String[] serverURLs)
```

Sets the list of possible servers to connect.

Parameters:

serverURLs - An array with the servers' URLs

removeAllServerURLs

```
public void removeAllServerURLs()
```

(continued from last page)

Cleans the list of server urls.

setConfigFile

```
public void setConfigFile(String configFile)
```

Sets a configuration file from which server URLs will be taken. Each URL should be in a separate line

Parameters:

`configFile` - The full path of the configuration file

setWaitForResponseTimeout

```
public void setWaitForResponseTimeout(long timeout)
```

Sets a response timeout, to limit the time to wait for servers load factor responses. While threads are working, the load balancer waits for a specific amount of time. When the last server has responded, the load balancer stops waiting and continues with the algorithm. This method exists for cases a server does not respond, to refrain from waiting indefinitely. The default timeout is one minute (in milliseconds).

Parameters:

`timeout` - The timeout in milliseconds

getWaitForResponseTimeout

```
public long getWaitForResponseTimeout()
```

Returns a response timeout, which is the time limit for waiting for servers load factor responses.

Returns:

The timeout in milliseconds

getAvailableServer

```
public String getAvailableServer()
```

A separate thread is instantiated for every server on the list. Each thread sends a request to the server to return its load factor. The load factor is calculated and the answer is sent back to the load balancer, which compares all load factors and chooses the minimal one.

Returns:

the server's URL

Package

com.sabratec.ci.print

ApplinX supports printer sessions on AS400 and mainframe hosts. It connects to the host, retrieves the print buffers and analyzes them. The host handles the printers queue and connection of printer sessions to display sessions. ApplinX connects to the host as a printer session to receive the print buffers and allows you to work with them.

The printer session has two levels. The first level is by way of the application programming interface which reflects the data returned into your required environment for example, XML, database, email, web or desktop application. The second level is the default behavior where ApplinX sends all print jobs to the clients machine by means of an applet that runs on the clients browser.

com.sabratec.ci.print Class GXPage

java.lang.Object

└-com.sabratec.ci.print.GXPage

public class **GXPage**
extends Object

This class implements one page that is going to be printed. The object can be retrieved from a GXPrintObject by the getPageAt() or getPages() methods once there is a print buffer.

See Also:

[GXPrintObject.getPageAt\(int\)](#), [GXPrintObject.getPages\(\)](#)

Constructor Summary

public	GXPage()
--------	--------------------------

Method Summary

String	getLineAt(int index) Returns the line at the specified index.
int	getLineCount() Returns the number of lines in the page.
String	getOriginalBuffer() Returns the portion of the buffer that corresponds to the current page as a string.
GXISCSInterface[]	getSCSElements() Returns an array of SCS elements that correspond to the current page.
int	getSeqPageNumber() Returns the sequential number of the page in the current print.
boolean	hasContent() Return whether the page contains at least one char or not.
boolean	isComplete() Returns true if the page is complete.
boolean	isEmphasis(String content)
void	setComplete()
void	setIsWrapTextOnMPP(boolean isWrap)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

(continued from last page)

Constructors

GXPage

```
public GXPage()
```

Methods

setIsWrapTextOnMPP

```
public void setIsWrapTextOnMPP(boolean isWrap)
```

setComplete

```
public void setComplete()
```

isComplete

```
public boolean isComplete()
```

Returns true if the page is complete. A page can be not complete if it is the last page that was analyzed from an incomplete buffer.

isEmphasis

```
public boolean isEmphasis(String content)
```

getLineCount

```
public int getLineCount()
```

Returns the number of lines in the page.

Returns:

number of lines in the page.

hasContent

```
public boolean hasContent()
```

Return whether the page contains at least one char or not.

Returns:

whether the page contains at least one char or not.

getLineAt

```
public String getLineAt(int index)
```

Returns the line at the specified index.

(continued from last page)

Parameters:index - ranges from 0 to line count?1.

getSeqPageNumber

```
public int getSeqPageNumber()
```

Returns the sequential number of the page in the current print.

getOriginalBuffer

```
public String getOriginalBuffer()
```

Returns the portion of the buffer that corresponds to the current page as a string.

getSCSElements

```
public GXISCSInterface[] getSCSElements()
```

Returns an array of SCS elements that correspond to the current page.

com.sabratec.ci.print Class GXPrinter

```

java.lang.Object
  |
  +-GXGeneralSession
    |
    +-com.sabratec.ci.print.GXPrinter
  
```

```

public class GXPrinter
extends GXGeneralSession
  
```

This class represents a printer session. The methods to connect to the Applinx Server are similar to the connection methods in the display session.

Field Summary	
public static final	LOG_MODE_DEBUG Value: 1
public static final	LOG_MODE_NORMAL Value: 0

Constructor Summary	
public	GXPrinter()

Method Summary	
int	attach()
int	getCharactersPerLine()
int	getLinesPerPage()
GXIPrintObjectInterface	getPrint() Sends a request to the server to get the latest buffer and returns the GXPrintObject object.
int	getPrinterStatus() Returns the printer status.
void	GXPrinter()
void	setCharactersPerLine(int charactersPerLine)
void	setLinesPerPage(int linesPerPage)
void	setLogLevel(int logLevel)

int	<code>setWaitCondition(int type, String paramString, int intParam1, int intParam2, int caseSensitive, long timeout, long flicker)</code>
-----	------------------------------------------------------------------------------------------------------------------------------------------

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Fields

LOG_MODE_NORMAL

```
public static final int LOG_MODE_NORMAL
```

Constant value: 0

LOG_MODE_DEBUG

```
public static final int LOG_MODE_DEBUG
```

Constant value: 1

Constructors

GXPrinter

```
public GXPrinter()
```

Methods

GXPrinter

```
public void GXPrinter()
```

attach

```
public int attach()
```

getPrint

```
public GXPrintObjectInterface getPrint()
```

Sends a request to the server to get the latest buffer and returns the `GXPrintObject` object. If the sequential print number was increased or the current print was not retrieved, it returns a new `GXPrintObject` object, otherwise it returns null.

getPrinterStatus

```
public int getPrinterStatus()
```

(continued from last page)

Returns the printer status. Possible printer status parameters and their descriptions: GX_PRINTER_STATUS_BUSY The print job is in process. GX_PRINTER_STATUS_CANCELLING Canceling a print job. GX_PRINTER_STATUS_ERROR The host believes that there is an error in the print session. GX_PRINTER_STATUS_INUSE Trying to connect a print session that is engaged to another device. For example, two print sessions are opened with the same printer. GX_PRINTER_STATUS_INVALID The printer object is not attached to the server (default). GX_PRINTER_STATUS_PAPEROUT ApplinX Server has advised the host that it is out of paper. GX_PRINTER_STATUS_READY The printer session is connected to the host and the printer is ready to accept print jobs from the host. GX_PRINTER_STATUS_TIMEDOUT The host attempts to send a print job, however a problem exists with connecting with the ApplinX Server and the time has elapsed.

setLogLevel

```
public void setLogLevel(int logLevel)
```

Parameters:

logLevel - possible values: LOG_MODE_NORMAL, LOG_MODE_DEBUG

setLinesPerPage

```
public void setLinesPerPage(int linesPerPage)
```

getLinesPerPage

```
public int getLinesPerPage()
```

setCharactersPerLine

```
public void setCharactersPerLine(int charactersPerLine)
```

getCharactersPerLine

```
public int getCharactersPerLine()
```

setWaitCondition

```
public int setWaitCondition(int type,  
    String paramString,  
    int intParam1,  
    int intParam2,  
    int caseSensitive,  
    long timeout,  
    long flicker)
```

com.sabratec.ci.print Class GXPrinterSessionConstants

java.lang.Object

└-com.sabratec.ci.print.GXPrinterSessionConstants

public class **GXPrinterSessionConstants**
extends Object

This class holds all the constants of the printer session objects. Used mainly in .NET (where static variables in interfaces are not exposed).

Field Summary

public static final	GX_APPLICATION_PARM_ASSOCIATE_DEVICE_NAME
public static final	GX_APPLICATION_PARM_DEVICE_NAME
public static final	GX_APPLICATION_PARM_DEVICE_TYPE
public static final	GX_APPLICATION_PARM_DISPLAY_DEVICE_NAME
public static final	GX_APPLICATION_PARM_HOST_ADDRESS
public static final	GX_APPLICATION_PARM_HOST_PORT
public static final	GX_APPLICATION_PARM_IGNORE_FIRST_FORM_FEED
public static final	GX_APPLICATION_PARM_IGNORE_FORMFEED_IN_TRANSPARENT
public static final	GX_APPLICATION_PARM_IGNORE_HOST_FORMATTING
public static final	GX_APPLICATION_PARM_IGNORE_HOST_SETTING_FOR_MAX_CHARACTERS_PER_LINE
public static final	GX_APPLICATION_PARM_IGNORE_HOST_SETTING_FOR_MAX_LINES_PER_PAGE
public static final	GX_APPLICATION_PARM_IGNORE_TRANSPARENT
public static final	GX_APPLICATION_PARM_IGNORE_VERTICAL_CHANNEL_SELECT
public static final	GX_APPLICATION_PARM_LANGUAGE
public static final	GX_APPLICATION_PARM_MESSAGE_LIBRARY
public static final	GX_APPLICATION_PARM_MESSAGE_QUEUE
public static final	GX_APPLICATION_PARM_REPLAY_FILE

public static final	GX_APPLICATION_PARM_TRACE_FILE
public static final	GX_APPLICATION_PARM_TRANSLATE_ESCAPE
public static final	GX_APPLICATION_PARM_TRANSPARENT_DATA_IS_ASCII
public static final	GX_PRINT_OBJECT_STATUS_COMPLETE
public static final	GX_PRINT_OBJECT_STATUS_EMPTY
public static final	GX_PRINT_OBJECT_STATUS_NOT_COMPLETE
public static final	GX_PRINTER_STATUS_BUSY
public static final	GX_PRINTER_STATUS_CANCELLING
public static final	GX_PRINTER_STATUS_ERROR
public static final	GX_PRINTER_STATUS_INUSE
public static final	GX_PRINTER_STATUS_INVALID
public static final	GX_PRINTER_STATUS_PAPEROUT
public static final	GX_PRINTER_STATUS_READY
public static final	GX_PRINTER_STATUS_TIMEOUT
public static final	GX_WAIT_COND_END_OF_PRINT
public static final	GX_WAIT_COND_PRINTER_READY

Constructor Summary

public	GXPrinterSessionConstants()
--------	---------------------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

GX_APPLICATION_PARM_LANGUAGE

public static final java.lang.String **GX_APPLICATION_PARM_LANGUAGE**

GX_APPLICATION_PARM_DEVICE_TYPE

```
public static final java.lang.String GX_APPLICATION_PARM_DEVICE_TYPE
```

GX_APPLICATION_PARM_DEVICE_NAME

```
public static final java.lang.String GX_APPLICATION_PARM_DEVICE_NAME
```

GX_APPLICATION_PARM_TRACE_FILE

```
public static final java.lang.String GX_APPLICATION_PARM_TRACE_FILE
```

GX_APPLICATION_PARM_REPLAY_FILE

```
public static final java.lang.String GX_APPLICATION_PARM_REPLAY_FILE
```

GX_APPLICATION_PARM_HOST_ADDRESS

```
public static final java.lang.String GX_APPLICATION_PARM_HOST_ADDRESS
```

GX_APPLICATION_PARM_HOST_PORT

```
public static final java.lang.String GX_APPLICATION_PARM_HOST_PORT
```

GX_APPLICATION_PARM_ASSOCIATE_DEVICE_NAME

```
public static final java.lang.String GX_APPLICATION_PARM_ASSOCIATE_DEVICE_NAME
```

GX_APPLICATION_PARM_DISPLAY_DEVICE_NAME

```
public static final java.lang.String GX_APPLICATION_PARM_DISPLAY_DEVICE_NAME
```

GX_APPLICATION_PARM_MESSAGE_QUEUE

```
public static final java.lang.String GX_APPLICATION_PARM_MESSAGE_QUEUE
```

GX_APPLICATION_PARM_MESSAGE_LIBRARY

```
public static final java.lang.String GX_APPLICATION_PARM_MESSAGE_LIBRARY
```

(continued from last page)

GX_APPLICATION_PARM_IGNORE_HOST_SETTING_FOR_MAX_CHARACTERS_PER_LINE

```
public static final java.lang.String  
GX_APPLICATION_PARM_IGNORE_HOST_SETTING_FOR_MAX_CHARACTERS_PER_LINE
```

GX_APPLICATION_PARM_IGNORE_HOST_SETTING_FOR_MAX_LINES_PER_PAGE

```
public static final java.lang.String  
GX_APPLICATION_PARM_IGNORE_HOST_SETTING_FOR_MAX_LINES_PER_PAGE
```

GX_APPLICATION_PARM_IGNORE_TRANSPARENT

```
public static final java.lang.String GX_APPLICATION_PARM_IGNORE_TRANSPARENT
```

GX_APPLICATION_PARM_TRANSPARENT_DATA_IS_ASCII

```
public static final java.lang.String GX_APPLICATION_PARM_TRANSPARENT_DATA_IS_ASCII
```

GX_APPLICATION_PARM_IGNORE_FORMFEED_IN_TRANSPARENT

```
public static final java.lang.String  
GX_APPLICATION_PARM_IGNORE_FORMFEED_IN_TRANSPARENT
```

GX_APPLICATION_PARM_IGNORE_VERTICAL_CHANNEL_SELECT

```
public static final java.lang.String  
GX_APPLICATION_PARM_IGNORE_VERTICAL_CHANNEL_SELECT
```

GX_APPLICATION_PARM_TRANSLATE_ESCAPE

```
public static final java.lang.String GX_APPLICATION_PARM_TRANSLATE_ESCAPE
```

GX_APPLICATION_PARM_IGNORE_FIRST_FORM_FEED

```
public static final java.lang.String GX_APPLICATION_PARM_IGNORE_FIRST_FORM_FEED
```

(continued from last page)

GX_APPLICATION_PARM_IGNORE_HOST_FORMATTING

```
public static final java.lang.String GX_APPLICATION_PARM_IGNORE_HOST_FORMATTING
```

GX_WAIT_COND_END_OF_PRINT

```
public static final int GX_WAIT_COND_END_OF_PRINT
```

GX_WAIT_COND_PRINTER_READY

```
public static final int GX_WAIT_COND_PRINTER_READY
```

GX_PRINTER_STATUS_INVALID

```
public static final int GX_PRINTER_STATUS_INVALID
```

GX_PRINTER_STATUS_READY

```
public static final int GX_PRINTER_STATUS_READY
```

GX_PRINTER_STATUS_BUSY

```
public static final int GX_PRINTER_STATUS_BUSY
```

GX_PRINTER_STATUS_ERROR

```
public static final int GX_PRINTER_STATUS_ERROR
```

GX_PRINTER_STATUS_TIMEDOUT

```
public static final int GX_PRINTER_STATUS_TIMEDOUT
```

GX_PRINTER_STATUS_PAPEROUT

```
public static final int GX_PRINTER_STATUS_PAPEROUT
```

GX_PRINTER_STATUS_INUSE

```
public static final int GX_PRINTER_STATUS_INUSE
```

(continued from last page)

GX_PRINTER_STATUS_CANCELLING

```
public static final int GX_PRINTER_STATUS_CANCELLING
```

GX_PRINT_OBJECT_STATUS_EMPTY

```
public static final int GX_PRINT_OBJECT_STATUS_EMPTY
```

GX_PRINT_OBJECT_STATUS_NOT_COMPLETE

```
public static final int GX_PRINT_OBJECT_STATUS_NOT_COMPLETE
```

GX_PRINT_OBJECT_STATUS_COMPLETE

```
public static final int GX_PRINT_OBJECT_STATUS_COMPLETE
```

Constructors

GXPrinterSessionConstants

```
public GXPrinterSessionConstants()
```

com.sabratec.ci.print Class GXPrintObject

java.lang.Object

└-com.sabratec.ci.print.GXPrintObject

public class **GXPrintObject**
extends Object

This class implements one print job from the host. Every new print job requires a new print object. The object is created by the `getPrint()` method of the `GXPrinter`.

See Also:

[GXPrinter.getPrint\(\)](#)

Constructor Summary

public	GXPrintObject()
--------	---------------------------------

Method Summary

int	completeBuffer() Completes the buffer using the printer session (if alive).
String	getBuffer() Returns the buffer that currently exists in the object as string.
String	getBuffer(int bufferSize) Retrieves a portion of the buffer.
int	getBufferLength() Returns the length of the current buffer.
int	getError()
String	getErrorMessage()
GXIPageInterface	getPageAt(int index) Returns the page at the specified index.
int	getPageCount() Returns the number of pages in the current print buffer, as they were analyzed by ApplinX.
GXIPageInterface[]	getPages() Returns an array of GXPage objects according to the current buffer in the print object.
GXSCS[]	getSCSElements() Returns an array of GXSCS objects that hold all the printer controls that were retrieved along with the current buffer.
int	getSeqPrintNumber() Returns the sequential print number ? the number of prints received from the host since the beginning of the current session.

boolean	<u>isComplete()</u> Returns true if the print object holds the complete buffer.
boolean	<u>isCurrentPrint()</u> Returns true if this print object is the printer session?s current print object.
boolean	<u>isEmpty()</u> Returns true if the current print object is empty.
boolean	<u>isPassThroughData()</u>
void	<u>setCharactersPerLine(int maxCharactersPerLine)</u> Sets the number of characters per page.
void	<u>setLinesPerPage(int maxLinesPerPage)</u> Sets the number of lines per page.

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXPrintObject

```
public GXPrintObject()
```

Methods

isPassThroughData

```
public boolean isPassThroughData()
```

isCurrentPrint

```
public boolean isCurrentPrint()
```

Returns true if this print object is the printer session?s current print object.

Returns:

whether this print object is the current print in the printer session.

isComplete

```
public boolean isComplete()
```

Returns true if the print object holds the complete buffer. If it returns false further requests must be sent to the server to retrieve the rest of the buffer.

Returns:

whether the print buffer is complete.

isEmpty

```
public boolean isEmpty()
```

Returns true if the current print object is empty.

getSeqPrintNumber

```
public int getSeqPrintNumber()
```

Returns the sequential print number ? the number of prints received from the host since the beginning of the current session.

Returns:

the sequential print number since the current print session was started.

getBuffer

```
public String getBuffer()
```

Returns the buffer that currently exists in the object as string.

getBuffer

```
public String getBuffer(int buffSize)
```

Retrieves a portion of the buffer.

Parameters:

buffSize -- optional - retrieves a portion of the buffer.

getPageAt

```
public GXIPageInterface getPageAt(int index)
```

Returns the page at the specified index. Page starts from zero.

Parameters:

index -- starts from 0.

Returns:

analyzed page at the specified index.

getPages

```
public GXIPageInterface[] getPages()
```

Returns an array of GXPage objects according to the current buffer in the print object.

getPageCount

```
public int getPageCount()
```

Returns the number of pages in the current print buffer, as they were analyzed by ApplinX.

Returns:

number of pages according to the current buffer in the object.

getBufferLength

```
public int getBufferLength()
```

Returns the length of the current buffer.

Returns:

length of the current buffer.

getSCSElements

```
public GXSCS[] getSCSElements()
```

Returns an array of GXSCS objects that hold all the printer controls that were retrieved along with the current buffer.

Returns:

an array of GXSCS objects for the current print buffer.

completeBuffer

```
public int completeBuffer()
```

Completes the buffer using the printer session (if alive). Sends a request to the server to complete the current buffer. This method can be used only if the print object is the current print object and if its status is not complete already.

getError

```
public int getError()
```

getErrorMessage

```
public String getErrorMessage()
```

setLinesPerPage

```
public void setLinesPerPage(int maxLinesPerPage)
```

Sets the number of lines per page. Only applicable if you want to change the current print job settings. The default is the setting of the printer session's configuration, which you configured at the start of the print job.

Parameters:

maxLinesPerPage - the maximum lines per page.

setCharactersPerLine

```
public void setCharactersPerLine(int maxCharactersPerLine)
```

Sets the number of characters per page. Only applicable if you want to change the current print job settings. The default is the setting of the printer session's configuration, which you configured at the start of the print job.

Parameters:

maxCharactersPerLine - the maximum characters per line.

com.sabratec.ci.print Class GXSCS

java.lang.Object

└-com.sabratec.ci.print.GXSCS

public class **GXSCS**
extends Object

This class represents a scs element. SCS are controls sent by the host that inform the printer how the print buffers should be presented.

Method Summary

int	getBufferPosition() Retrieves point in complete buffer print-job.
int	getColumnNumber() Retrieves the column where the control string should be implemented.
byte[]	getData() Retrieves the complete data of the control string (SCS).
int	getKeyAt(int index) Retrieves a value key according to the key?s index.
int	getKeysCount() Number of dynamic values in the control string data.
int	getLineNumber() Retrieves the line where the control string should be implemented.
int	getPageBufferPosition() Retrieves a point in the portion of the original buffer that is in the current page.
int	getType() Retrieves a type of control string (SCS).
String	toString()

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

getKeysCount

public int **getKeysCount()**

Number of dynamic values in the control string data.

getKeyAt

```
public int getKeyAt(int index)
```

Retrieves a value key according to the key's index. Starts from zero.

getType

```
public int getType()
```

Retrieves a type of control string (SCS). List of types: GX_TYPE_UNKNOWN GX_TYPE_LINE_DENSITY GX_TYPE_GRAPHIC_ESCAPE GX_TYPE_CHARACTER_DENSITY GX_TYPE_PAGE_PRESETATION_MEDIA GX_TYPE_VERTICAL_CHANNEL_SELECT GX_TYPE_TRANSPARENT GX_TYPE_HORIZONTAL_TAB GX_TYPE_FORM_FEED GX_TYPE_CARRIAGE_RETURN GX_TYPE_NEW_LINE GX_TYPE_BACKSPACE GX_TYPE_INTERCHANGE_RECORD_SEPARATOR GX_TYPE_LINE_FEED GX_TYPE_HORIZONTAL_FORMAT GX_TYPE_VERTICAL_FORMAT GX_TYPE_VERTICAL_TAB. SCS controls for double byte languages (Japanese / Korean) GX_TYPE_SHIFT_IN GX_TYPE_SHIFT_OUT GX_TYPE_SET_ATTRIBUTE

The following SCS type instructions should be ignored. GX_TYPE_NO_OPERATION

GX_TYPE_ENABLE_PRESENTATION GX_TYPE_INHIBIT_PRESENTATION GX_TYPE_ALERT_BELL

The following are applicable to AS/400 hosts only: GX_TYPE_GRAPHIC_ERROR_ACTION

GX_TYPE_TEXT_ORIENTATION GX_TYPE_FONT_ID GX_TYPE_DEVICE_EXCEPTION_ACTION

GX_TYPE_JUSTIFY_TEXT_FIELD GX_TYPE_JUSTIFY_MODE GX_TYPE_HORIZONTAL_MARGINS

GX_TYPE_VERTICAL_MARGINS GX_TYPE_PRESENTATION_PAGE_SIZE GX_TYPE_SUBSCRIPT

GX_TYPE_SUPERSCRIPT GX_TYPE_SUBSTITUTE GX_TYPE_WORD_UNDERSCORE

GX_TYPE_BEGIN_EMPHASIS GX_TYPE_BEGIN_OVERSTRIKE GX_TYPE_BEGIN_UNDERSCORE

GX_TYPE_END_EMPHASIS GX_TYPE_END_OVERSTRIKE GX_TYPE_END_UNDERSCORE

GX_TYPE_REQUIRED_NEW_LINE GX_TYPE_EXPANDED_BACKSPACE GX_TYPE_UNIT_BACKSPACE

GX_TYPE_INDENT_TAB GX_TYPE_INDEX_RETURN GX_TYPE_PRINT_POSITION

GX_TYPE_REQUIRED_FORM_FEED GX_TYPE_CODEPAGE_LOCAL_ID GX_TYPE_CODEPAGE_GCID

GX_TYPE_INITIAL_CONDITIONS GX_TYPE_HORIZONTAL_TAB_STOPS GX_TYPE_INDENT_LEVEL

GX_TYPE_LINE_SPACING GX_TYPE_SINGLE_LINE_DISTANCE GX_TYPE_ASCII_TRANSPARENT

SCS Types for Double Byte Languages (Japanese / Korean) GX_TYPE_FONT_SIZE_SCALING

GX_TYPE_LOAD_ALTERNATE_CHARACTER GX_TYPE_DEFINE_GRID_LINE GX_TYPE_SET_IGC_TYPE

GX_TYPE_PRESENTATION_OF_CONTROL_CHARACTER

The following SCS type instructions should be ignored. GX_TYPE_REPEAT GX_TYPE_SWITCH

GX_TYPE_PRINT_SETUP GX_TYPE_RELEASE_LEFT_MARGIN 1303

getLineNumber

```
public int getLineNumber()
```

Retrieves the line where the control string should be implemented.

getColumnNumber

```
public int getColumnNumber()
```

Retrieves the column where the control string should be implemented.

getBufferPosition

```
public int getBufferPosition()
```

Retrieves point in complete buffer print-job.

getPageBufferPosition

```
public int getPageBufferPosition()
```

Retrieves a point in the portion of the original buffer that is in the current page.

getData

```
public byte[] getData()
```

Retrieves the complete data of the control string (SCS).

toString

```
public String toString()
```

Package

com.sabratec.j2ee.framework.web.taglib

com.sabratec.j2ee.framework.web.taglib Class GXAnchorTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXAnchorTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractAnchorTag](#)

```

public class GXAnchorTag
extends GXAbstractTag
  
```

This class represents an anchor tag (link) which can be used to activate both client side functionality and server side functionality.

Syntax:

```
<gx:a id="<TAG_ID>" onserverclick="<SERVER_FUNCTION_NAME>">
```

Constructor Summary

public	GXAnchorTag ()
--------	---------------------------------

Method Summary

void	setHref (String value) Called by the JSP page for setting the href attribute to the tag output HTML.
void	setOnClick (String value) Called by the JSP page for setting the onclick attribute to the HTML tag output.
void	setOnmouseout (String value) Called by the JSP page for setting the onmouseout attribute to the tag output HTML.
void	setOnmouseover (String value) Called by the JSP page for setting the onmouseover attribute to the tag output HTML.
void	setOnserverclick (String value) Called by the JSP page for setting a server side function name that will be activated when the anchor (link) is clicked. Syntax: <gx:a id="<TAG_ID>" onserverclick="<SERVER_FUNCTION_NAME>"> The server side function is in the class which was set in: <gx:html gx_context="CONTEXT CLASS" ...>

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

GXAnchorTag

```
public GXAnchorTag()
```

Methods

setOnserverclick

```
public void setOnserverclick(String value)
```

Called by the JSP page for setting a server side function name that will be activated when the anchor (link) is clicked.

Syntax:

```
<gx:a id="<TAG_ID>" onserverclick="<SERVER_FUNCTION_NAME>">
```

The server side function is in the class which was set in:

```
<gx:html gx_context="CONTEXT CLASS" ...>
```

Parameters:

value - The onserverclick function name (without brackets)

setOnClick

```
public void setOnClick(String value)
```

Called by the JSP page for setting the onclick attribute to the HTML tag output. If onserverclick is also specified for the tag, the onserverclick will be added before the onclick attribute.

Parameters:

value - The onclick attribute value

setOnmouseover

```
public void setOnmouseover(String value)
```

Called by the JSP page for setting the onmouseover attribute to the tag output HTML.

Parameters:

value - The onmouseover attribute value

setOnmouseout

```
public void setOnmouseout(String value)
```

Called by the JSP page for setting the onmouseout attribute to the tag output HTML.

Parameters:

value - The onmouseout attribute value

(continued from last page)

setHref

```
public void setHref(String value)
```

Called by the JSP page for setting the href attribute to the tag output HTML.

Parameters:

value - The href attribute value

com.sabratec.j2ee.framework.web.taglib

Class GXBoldTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXBoldTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXBoldTag
extends GXAbstractGenericTag
  
```

Constructor Summary

public	GXBoldTag()
--------	-----------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag](#)

[setDir](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXBoldTag

```
public GXBoldTag()
```

com.sabratec.j2ee.framework.web.taglib Class GXCheckBoxTag

java.lang.Object

└-BodyTagSupport

└-com.sabratec.j2ee.framework.web.tags.GXAbstractTag

└-com.sabratec.j2ee.framework.web.taglib.GXCheckBoxTag

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractCheckBoxTag](#)

```
public class GXCheckBoxTag
extends GXAbstractTag
```

Represents a <gx:checkbox> dynamic tag.

Syntax:

```
<gx:checkbox id="<TAG ID>" checkedValue="Y" uncheckValue="N" checked="true"/>
```

The advantage of this tag over a regular HTML check box is that a regular check box retrieves null when the check box is not selected, whereas this tag returns the value of the cleared check box.

The tag renders a hidden input field along with the check box. To retrieve the check box content (checked/unchecked value) use: `getTagsAccesor().getTagContent("")`

Constructor Summary

public	GXCheckBoxTag()
--------	---------------------------------

Method Summary

void	setChecked (String value) Called by the JSP page for setting the checked attribute of the tag.
void	setCheckedValue (String value) Called by the JSP page for setting a checked value when the check box is selected.
void	setOnClick (String value) Called by the JSP page for setting the onclick attribute to the tag output HTML.
void	setUncheckedValue (String value) Called by the JSP page for setting an unchecked value when the check box is not selected.

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXCheckBoxTag

```
public GXCheckBoxTag()
```

Methods

setCheckedValue

```
public void setCheckedValue(String value)
```

Called by the JSP page for setting a checked value when the check box is selected.

Parameters:

value - The selected value

setUncheckedValue

```
public void setUncheckedValue(String value)
```

Called by the JSP page for setting an unchecked value when the check box is not selected.

Parameters:

value - The unchecked value

setOnClick

```
public void setOnClick(String value)
```

Called by the JSP page for setting the onclick attribute to the tag output HTML.

Parameters:

value - The onclick attribute value

setChecked

```
public void setChecked(String value)
```

Called by the JSP page for setting the checked attribute of the tag.

Parameters:

value - The onclick attribute value

com.sabratec.j2ee.framework.web.taglib

Class GXDivTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXDivTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXDivTag
extends GXAbstractGenericTag
  
```

Constructor Summary

public	GXDivTag()
--------	----------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag](#)

[setDir](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXDivTag

```
public GXDivTag()
```

com.sabratec.j2ee.framework.web.taglib Class GXFormTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXFormTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractFormTag](#)

```

public class GXFormTag
extends GXAbstractTag
  
```

Represents the main form tag in the JSP page. The tag renders a <form> tag. Along with the form, the JavaScript function `gx_postBack` and a hidden field which saves the target function are rendered.

This function triggers a server function according to the specified function name.

Syntax:

```

<gx:form>
...
Field1: <gx:input ...>
Field2: <gx:input ...>
...
</gx:form>
  
```

Constructor Summary

public	GXFormTag()
--------	-----------------------------

Method Summary

String	getId() Returns the form ID.
void	setOnsubmit (String value) Called by the JSP page for setting the <code>onsubmit</code> attribute to the tag output HTML.
void	setSupportFileUpload()

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXFormTag

```
public GXFormTag()
```

Methods

setOnsubmit

```
public void setOnsubmit(String value)
```

Called by the JSP page for setting the `onsubmit` attribute to the tag output HTML.

Parameters:

value - The `onsubmit` attribute value

getId

```
public String getId()
```

Returns the form ID. If an ID is not specified the ID is "GX_form".

setSupportFileUpload

```
public void setSupportFileUpload()
```

com.sabratec.j2ee.framework.web.taglib

Class GXHtmlTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXHtmlTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractHtmlTag](#), [GXPageTag](#)

```

public class GXHtmlTag
extends GXAbstractTag
  
```

This class is the root tag of the JSP page, and the tag that initializes and activates the context class.

Syntax:

```

<gx:html gx_context="<CONTEXT CLASS>">
...
<gx:form>
...
</gx:form>
...
</gx:html>
  
```

This class throws the following events in the context class:

- Page Initialization - `gx_onInit()`
- Page Load - `gx_onLoad()`
- Post Back (page is submitted to itself) - activating a target function using reflection from a `serverclick` event.
- Before html rendering - `gx_preRender()`
- Unload (for cleanup) - `gx_onUnload()`
- Error handling - `gx_onError(RuntimeException)()`

Field Summary

public static final	HTML_TAG_ID Value: <code>gx_html</code>
---------------------	------------------------------------------------------------

Constructor Summary

public	GXHtmlTag()
--------	-----------------------------

Method Summary

int	doEndTag() Method called at end of tag.
int	doStartTag() Method called at beginning of tag.

String	getId()
void	setGx_context (String gx_contextName)
void	setPageContext (PageContext pageContext)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Fields

HTML_TAG_ID

```
public static final java.lang.String HTML_TAG_ID
```

Constant value: `gx_html`

Constructors

GXHtmlTag

```
public GXHtmlTag()
```

Methods

setPageContext

```
public void setPageContext(PageContext pageContext)
```

Overrides the BodyTagSupport class, and is used for initializing the current tag.

doStartTag

```
public int doStartTag()
throws JspException
```

Method called at beginning of tag.

Returns:

EVAL_BODY_TAG

(continued from last page)

doEndTag

```
public int doEndTag()  
    throws JspTagException
```

Method called at end of tag.

Returns:

EVAL_PAGE

setGx_context

```
public void setGx_context(String gx_contextName)  
    throws ClassNotFoundException,  
        IllegalAccessException,  
        InstantiationException
```

getId

```
public String getId()
```

Retrieves the ID of the current tag

com.sabratec.j2ee.framework.web.taglib Class GXImageTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXImageTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXImageTag
extends GXAbstractGenericTag
  
```

Constructor Summary

public	GXImageTag()
--------	------------------------------

Method Summary

void	setOnmouseout (String value) Called by the JSP page for setting the onmouseout attribute to the tag output HTML.
void	setOnmouseover (String value) Called by the JSP page for setting the onmouseover attribute to the tag output HTML.
void	setSrc (String value)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag](#)

[setDir](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

GXImageTag

```
public GXImageTag()
```

Methods

setSrc

```
public void setSrc(String value)
```

setOnmouseover

```
public void setOnmouseover(String value)
```

Called by the JSP page for setting the onmouseover attribute to the tag output HTML.

Parameters:

value - The onmouseover attribute value

setOnmouseout

```
public void setOnmouseout(String value)
```

Called by the JSP page for setting the onmouseout attribute to the tag output HTML.

Parameters:

value - The onmouseout attribute value

com.sabratec.j2ee.framework.web.taglib Class GXInputTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXInputTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractInputTag](#)

```

public class GXInputTag
extends GXAbstractTag
  
```

This class represents an HTML input tag which can be one of the following types: text, hidden, password, button, image, submit. It should not be used for the following types of inputs:

- Checkbox - use [GXAbstractCheckBoxTag](#)
- Radio - use [GXAbstractRadioButtonList](#)
-

Syntax:

```
<gx:input id="<TAG_ID>" type="text" maxlength="10">
```

```
<gx:input id="<TAG_ID>" type="button" onclick="<SERVER_FUNCTION_NAME>">
```

To dynamically set content to the input field use: `getTagsAccesor().setTagContent(,)`

To dynamically set attribute to the input field use: `getTagsAccesor().setTagAttribute(, ,)`

Constructor Summary

public	GXInputTag()
--------	------------------------------

Method Summary

void	setChecked (String value)
void	setDir (String value)
void	setMaxlength (String value)
void	setOnchange (String value)
void	setOnClick (String value)
void	setOnkeydown (String value)
void	setOnkeypress (String value)

void	setOnkeyup (String value)
void	setOnserverclick (String value)
void	setSize (String value)
void	setSrc (String value)
void	setTabIndex (String value)
void	setType (String value)
void	setValue (String value)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXInputTag

```
public GXInputTag()
```

Methods

setOnserverclick

```
public void setOnserverclick(String value)
```

setValue

```
public void setValue(String value)
```

setOnClick

```
public void setOnClick(String value)
```

Called by the JSP page for setting the onclick attribute to the tag output html.

setDir

public void **setDir**(String value)

setType

public void **setType**(String value)

setSize

public void **setSize**(String value)

setMaxlength

public void **setMaxlength**(String value)

setSrc

public void **setSrc**(String value)

setOnkeydown

public void **setOnkeydown**(String value)

setOnkeypress

public void **setOnkeypress**(String value)

setOnkeyup

public void **setOnkeyup**(String value)

setOnchange

public void **setOnchange**(String value)

setTabIndex

public void **setTabIndex**(String value)

(continued from last page)

setChecked

```
public void setChecked(String value)
```

com.sabratec.j2ee.framework.web.taglib

Class GXPageTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXHtmlTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXPageTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXPageTag
extends GXHtmlTag
  
```

Fields inherited from class [com.sabratec.j2ee.framework.web.taglib.GXHtmlTag](#)

[HTML_TAG_ID](#)

Constructor Summary

public [GXPageTag\(\)](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXHtmlTag](#)

[doEndTag](#), [doStartTag](#), [getId](#), [setGx_context](#), [setPageContext](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXPageTag

public **GXPageTag**()

com.sabratec.j2ee.framework.web.taglib Class GXRadioButtonListTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXRadioButtonListTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractRadioButtonList](#)

```

public class GXRadioButtonListTag
extends GXAbstractTag
  
```

This class represents a list of radio buttons. This tag is a parent tag of [GXAbstractRadioButton](#),

Syntax:

```

<gx:radioButtonList id="<TAG ID>">
  <gx:radioButton value="1" checked="true">View</gx:radioButton>
  <gx:radioButton value="2">Edit</gx:radioButton>
</gx:radioButtonList>
  
```

To dynamically set the selected option use: `getTagsAccesor().setTagContent("TAG ID", "")`

To dynamically set the radio buttons list use: `getTagsAccesor().setTagList("", GXNameValueCollection)`

To read the the selected option use: `getTagsAccesor().getTagContent(<TAG ID>)`

See Also:

[GXAbstractRadioButton](#)

Constructor Summary

public	GXRadioButtonListTag()
--------	----------------------------------------

Method Summary

String	getDir()
String	getHorizontal()
void	setBorder (String value)
void	setCellpadding (String value)
void	setCellspacing (String value)
void	setDir (String value)
void	setHorizontal (String value)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXRadioButtonListTag

```
public GXRadioButtonListTag()
```

Methods

setBorder

```
public void setBorder(String value)
```

setCellspacing

```
public void setCellspacing(String value)
```

setCellpadding

```
public void setCellpadding(String value)
```

setHorizontal

```
public void setHorizontal(String value)
```

getHorizontal

```
public String getHorizontal()
```

setDir

```
public void setDir(String value)
```

(continued from last page)

getDir

```
public String getDir()
```

com.sabratec.j2ee.framework.web.taglib Class GXRadioButtonTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXRadioButtonTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractRadioButton](#)

```

public class GXRadioButtonTag
extends GXAbstractTag
  
```

This class represents a single radio button tag within a radio button list. This tag is a child of [GXAbstractRadioButtonList](#), and can't be used as a standalone tag.

Syntax:

```

<gx:radioButtonList id="<TAG ID>">
<gx:radioButton value="1" checked="true">View</gx:radioButton>
<gx:radioButton value="2">Edit</gx:radioButton>
</gx:radioButtonList>
  
```

To dynamically set the selected option use: `getTagsAccesor().setTagContent(" ", " ")`

To dynamically set the radio buttons list use: `getTagsAccesor().setTagList(" ", GXINameValueCollection)`

To read the selected option use: `getTagsAccesor().getTagContent(<TAG ID>)`

See Also:

[GXAbstractRadioButtonList](#)

Constructor Summary

public	GXRadioButtonTag()
--------	------------------------------------

Method Summary

void	setChecked (String value) Called by the JSP page for setting the checked attribute to the tag.
void	setOnClick (String value)
void	setValue (String value) Called by the JSP page for setting the value attribute to the tag.

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXRadioButtonTag

```
public GXRadioButtonTag()
```

Methods

setValue

```
public void setValue(String value)
```

Called by the JSP page for setting the value attribute to the tag.

Parameters:

value - The value attribute value

setChecked

```
public void setChecked(String value)
```

Called by the JSP page for setting the checked attribute to the tag.

Parameters:

value - The checked attribute value

setOnClick

```
public void setOnClick(String value)
```

Called by the JSP page for setting the onclick attribute to the tag output html.

com.sabratec.j2ee.framework.web.taglib Class GXSelectTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXSelectTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractSelectTag](#)

```

public class GXSelectTag
extends GXAbstractTag
  
```

This class represents a Select tag (HTML combobox).

Syntax:

```

<gx:select id="<TAG ID>">
  <option value="1">View</option>
  <option value="2">Edit</option>
</gx:select>
  
```

To dynamically set the selected option use: `getTagsAccesor().setTagContent("", "")`

To dynamically set the combobox option's list use: `getTagsAccesor().setTagList("", GXNameValueCollection)`

To read the the selected option use: `getTagsAccesor().getTagContent("")`

Constructor Summary

public	GXSelectTag()
--------	-------------------------------

Method Summary

void	setDir (String value)
void	setMultiple (String value)
void	setOnchange (String value)
void	setOnClick (String value)
void	setSize (String value)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

GXSelectTag

```
public GXSelectTag()
```

Methods

setDir

```
public void setDir(String value)
```

setOnChange

```
public void setOnChange(String value)
```

setOnClick

```
public void setOnClick(String value)
```

Called by the JSP page for setting the onclick attribute to the tag output html.

setSize

```
public void setSize(String value)
```

setMultiple

```
public void setMultiple(String value)
```

com.sabratec.j2ee.framework.web.taglib

Class GXSpanTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXSpanTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXSpanTag
extends GXAbstractGenericTag
  
```

Constructor Summary

public	GXSpanTag()
--------	-----------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag](#)

[setDir](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXSpanTag

```
public GXSpanTag()
```

com.sabratec.j2ee.framework.web.taglib Class GXTableTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXTableTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXAbstractHtmlTableTag](#)

```

public class GXTableTag
extends GXAbstractTag
  
```

This class creates an HTML table tag according to the specified inner HTML template (tr, td, etc.), and the specified data table: [GXITable](#). The table tag will duplicate the first HTML row and will insert dynamic values from the data table. The binding of child tags to the data table is done using the ID attributes which match the relevant column name in the data table.

Syntax:

```

<gx:table id=i%ItemsTablei%>
  <tr>
  <th> ItemNumber</th>
  <th> Item Description</th>
  </tr>
  <tr>
  <td id=i%ItemNumberi%>dummy data</td>
  <td> <input id=i%ItemDesci% size=i%10i% value=i%sample datai%> </td>
  </tr>
</gx:table>
  
```

The result will be:

```

<table id=i%ItemsTablei%>
  <tr>
  <th> ItemNumber</th>
  <th> Item Description</th>
  </tr>
  <tr>
  <td id=i%ItemNumber_000i%>1007</td>
  <td> <input id=i%ItemDesc_000i% size=i%10i% value=i%Bananai%> </td>
  </tr>
  <tr>
  <td id=i%ItemNumber_001i%>1008</td>
  <td> <input id=i%ItemDesc_001i% size=i%10i% value=i%Applei%> </td>
  </tr>
  ...
</table>
  
```

Note: The ID attributes of the cloned rows, will be changed to <ORIGINAL_TAG_ID>_00<ROW INDEX>.

The data table is set to the tag by using the method `getTagsAccesor().setTagTable(String, GXITable, GXITableBuildConfig, GXITableEvents)` which can be accessed using the `getTagsAccesor()` method.

The `setTagTable` method accepts also a table build configuration class which provides common parameters for the table creation and a table-events class, which provides you the ability to change the data and/or HTML of a created row (tr), cell (td), or a control (any other child tag under a cell).

See Also:

com.sabratec.applinx.framework.tables.GXITableBuildConfig,
com.sabratec.j2ee.framework.web.tables.GXITableEvents, [GXIClientBaseObject.getTable\(\)](#),
org.w3c.dom.Element

Constructor Summary

public	GXTableTag()
--------	------------------------------

Method Summary

void	setBorder (String value)
void	setCellpadding (String value)
void	setCellspacing (String value)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXTableTag

```
public GXTableTag()
```

Methods

setBorder

```
public void setBorder(String value)
```

setCellspacing

```
public void setCellspacing(String value)
```

setCellpadding

```
public void setCellpadding(String value)
```

com.sabratec.j2ee.framework.web.taglib Class GXTagsAccesorImpl

java.lang.Object

↳ com.sabratec.j2ee.framework.web.taglib.GXTagsAccesorImpl

All Implemented Interfaces:

java.io.Serializable, [GXITagsAccesor](#)

public class **GXTagsAccesorImpl**
 extends Object
 implements [GXITagsAccesor](#), java.io.Serializable

Impl. class for [GXITagsAccesor](#)

Constructor Summary

public	GXTagsAccesorImpl (HttpServletRequest request)
--------	----------------------------------------------------------------

Method Summary

void	AddHiddenFieldToForm (String name, String value)
void	AddHtmlTextToForm (String htmlText) Adds an HTML text to the JSP page.
void	AddJSToForm (String jsString)
void	addTableKeyColumn (String refTagId, String keyCol)
String	getBodyAttribute (String attrName)
Hashtable	getBodyAttributes ()
String	getFileName (String refTagId)
String	getFormAttribute (String attrName)
Hashtable	getFormAttributes ()
String	getFormTopString ()
Map	getHiddens ()
java.io.InputStream	getInputStream (String refTagId)
Hashtable	getInputTagAttributes (String refTagid)

String	getPanelToUpdate()
String	getPanelToUpdateContent()
String	getTableName()
String	getTableSelectedKey(String tagId)
String[]	getTableSelectedKeys(String refTagId)
String	getTagAttribute(String refTagId, String attrName)
Hashtable	getTagAttributes(String refTagid)
String	getTagContent(String tagId)
String[]	getTagContents(String refTagName)
boolean	isTagVisible(String refTagId)
void	recycleBodyTag()
void	recycleTag(String refTagId, Hashtable tagPrivateAttributes)
void	removeTagAttribute(String refTagId, String attrName)
void	setAttributeListIfEmpty(String refTagId, Hashtable attrList)
void	setBodyAttribute(String attrName, String content)
void	setBodyAttributeIfEmpty(String attrName, String content)
void	setFormAttribute(String attrName, String content)
void	setInputTagAttribute(String refTagId, String attrName, String content)
void	setPageVisible(boolean visible)
void	setPanelToUpdateContent(String content)
void	setTagAttribute(String refTagId, String attrName, String content)
void	setTagContent(String refTagId, String content)
void	setTagContentIfEmpty(String refTagId, String content)
void	setTagList(String refTagId, GXINameValueCollection list)

void	setTagList (String refTagId, Hashtable list)
void	setTagTable (String tagId, GXITable table)
void	setTagTable (String refTagId, GXITable table, com.sabratec.j2ee.framework.web.tables.GXITableBuildConfig config, GXITableEvents events) Deprecated. Use setTagTable(String, GXITable, GXITableBuildConfig, GXITableEvents) instead
void	setTagTable (String tagId, GXITable table, GXITableBuildConfig config)
void	setTagTable (String refTagId, GXITable table, GXITableBuildConfig config, GXITableEvents events)
void	setTagVisible (String refTagId, boolean visible)
void	setTagVisibleIfEmpty (String refTagId, boolean visible)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [com.sabratec.j2ee.framework.web.tags.GXITagsAccesor](#)

[AddHiddenFieldToForm](#), [AddHtmlTextToForm](#), [AddJSToForm](#), [addTableKeyColumn](#), [getFileName](#), [getInputStream](#), [getTableName](#), [getTableSelectedKey](#), [getTableSelectedKeys](#), [getTagContent](#), [setBodyAttribute](#), [setFormAttribute](#), [setPageVisible](#), [setTagAttribute](#), [setTagContent](#), [setTagList](#), [setTagList](#), [setTagTable](#), [setTagTable](#), [setTagTable](#), [setTagTable](#), [setTagVisible](#)

Constructors

GXTagsAccesorImpl

```
public GXTagsAccesorImpl(HttpServletRequest request)
```

Methods

setTagContent

```
public void setTagContent(String refTagId,
    String content)
```

setTagContentIfEmpty

```
public void setTagContentIfEmpty(String refTagId,
    String content)
```

getTagContents

```
public String[] getTagContents(String refTagName)
```

getTagContent

```
public String getTagContent(String tagId)
```

setTagVisible

```
public void setTagVisible(String refTagId,  
    boolean visible)
```

setTagVisibleIfEmpty

```
public void setTagVisibleIfEmpty(String refTagId,  
    boolean visible)
```

isTagVisible

```
public boolean isTagVisible(String refTagId)
```

setTagList

```
public void setTagList(String refTagId,  
    Hashtable list)
```

setTagTable

```
public void setTagTable(String tagId,  
    GXITable table)
```

setTagTable

```
public void setTagTable(String tagId,  
    GXITable table,  
    GXITableBuildConfig config)
```

(continued from last page)

setTagTable

```
public void setTagTable(String refTagId,  
    GXITable table,  
    com.sabratec.j2ee.framework.web.tables.GXITableBuildConfig config,  
    GXITableEvents events)
```

Deprecated. Use [setTagTable\(String, GXITable, GXITableBuildConfig, GXITableEvents\)](#) instead

setTagTable

```
public void setTagTable(String refTagId,  
    GXITable table,  
    GXITableBuildConfig config,  
    GXITableEvents events)
```

addTableKeyColumn

```
public void addTableKeyColumn(String refTagId,  
    String keyCol)
```

getTableSelectedKey

```
public String getTableSelectedKey(String tagId)
```

getTableSelectedKeys

```
public String[] getTableSelectedKeys(String refTagId)
```

getTableName

```
public String getTableName()
```

removeTagAttribute

```
public void removeTagAttribute(String refTagId,  
    String attrName)
```

setTagAttribute

```
public void setTagAttribute(String refTagId,  
    String attrName,  
    String content)
```

setInputTagAttribute

```
public void setInputTagAttribute(String refTagId,  
    String attrName,  
    String content)
```

setAttributeListIfEmpty

```
public void setAttributeListIfEmpty(String refTagId,  
    Hashtable attrList)
```

getTagAttribute

```
public String getTagAttribute(String refTagId,  
    String attrName)
```

AddHiddenFieldToForm

```
public void AddHiddenFieldToForm(String name,  
    String value)
```

getHiddens

```
public Map getHiddens()
```

AddJSToForm

```
public void AddJSToForm(String jsString)
```

AddHtmlTextToForm

```
public void AddHtmlTextToForm(String htmlText)
```

Adds an HTML text to the JSP page.

Parameters:

htmltext - the html text to add

getFormTopString

```
public String getFormTopString()
```

(continued from last page)

setBodyAttributeIfEmpty

```
public void setBodyAttributeIfEmpty(String attrName,  
    String content)
```

setBodyAttribute

```
public void setBodyAttribute(String attrName,  
    String content)
```

getBodyAttribute

```
public String getBodyAttribute(String attrName)
```

setFormAttribute

```
public void setFormAttribute(String attrName,  
    String content)
```

getFormAttribute

```
public String getFormAttribute(String attrName)
```

getTagAttributes

```
public Hashtable getTagAttributes(String refTagid)
```

getInputTagAttributes

```
public Hashtable getInputTagAttributes(String refTagid)
```

getBodyAttributes

```
public Hashtable getBodyAttributes()
```

getFormAttributes

```
public Hashtable getFormAttributes()
```

(continued from last page)

setTagList

```
public void setTagList(String refTagId,  
    GXINameValueCollection list)
```

recycleTag

```
public void recycleTag(String refTagId,  
    Hashtable tagPrivateAttributes)
```

recycleBodyTag

```
public void recycleBodyTag()
```

getInputStream

```
public java.io.InputStream getInputStream(String refTagId)  
    throws java.io.IOException
```

getFileName

```
public String getFileName(String refTagId)  
    throws java.io.IOException
```

getPanelToUpdate

```
public String getPanelToUpdate()
```

getPanelToUpdateContent

```
public String getPanelToUpdateContent()
```

setPanelToUpdateContent

```
public void setPanelToUpdateContent(String content)
```

setPageVisible

```
public void setPageVisible(boolean visible)
```

com.sabratec.j2ee.framework.web.taglib

Class GXTdTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXTdTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXTdTag
extends GXAbstractGenericTag
  
```

Constructor Summary

public	GXTdTag()
--------	---------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag](#)

[setDir](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXTdTag

```
public GXTdTag()
```

com.sabratec.j2ee.framework.web.taglib Class GXTextAreaTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
        |
        +-com.sabratec.j2ee.framework.web.taglib.GXTextAreaTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXTextAreaTag
extends GXAbstractGenericTag
  
```

Constructor Summary

public	GXTextAreaTag()
--------	---------------------------------

Method Summary

void	setCols (String cols)
void	setRows (String rows)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag](#)

[setDir](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXTextAreaTag

```
public GXTextAreaTag()
```

(continued from last page)

Methods

setCols

```
public void setCols(String cols)
```

setRows

```
public void setRows(String rows)
```

Package

com.sabratec.j2ee.framework.web.tags

Overview

The purpose of this package is to provide the developer the ability to add "HTML like" tags to the JSP page. Though this is done without writing any code inside the tags, it is still possible to set dynamic contents to the tags.

This package contains tag library classes and a tag accessor which allows setting dynamic content to the HTML output of the tags.

The final HTML result of each tag is the matching HTML tag with dynamic content/attributes, added dynamically.

Each JSP page must be associated with a Java class that contains an instance of the tags accessor.

The tags accessor sets dynamic content to the tags.

The association is established by setting a root tag: `<gx:html gx_context="" >`

Tip: If you don't set a context class the page will work in design mode, and will not be connected to a data source (such as ApplinX) in the context class.

The HTML tag class starts the life cycle of the page:

```
gx_onInit -> gx_onLoad -> Post back (submit) -> gx_preRender -> gx_onUnload
```

these are all functions where you can use the object instance of the tags accessor `getTagsAccesor()` in order to pass dynamic content to each tag.

The association to each tag is established by setting an ID to each tag, and specifying the ID of the tag in the tags accessor's various methods.

Using the Tag Library

To set a dynamic content to a tag for example, set the following code:

In `SamplePage.JSP`:

```
<gx:html gx_context="contexts.SamplePage">
```

```
...
```

```
<gx:input id=UserName cssClass=field1/>
```

In `SamplePage.java`:

```
String user = newUser; // can be retrieved from any data source.
```

```
getTagsAccesor().setTagContent(UserName, user)
```

The result will be:

```
<input id=UserName name=UserName class=field1 value=newUser/>
```

Configuration

Note: The following configuration is ready for use in any ApplinX application for JSP.

Check that the tag library contains the following components:

- `gxframework.jar` should be in `WEB-INF/lib` folder.
- `GXTag.tld` should be in `WEB-INF` folder.
- `tags` folder should be in `WEB-INF/classes` including a list of Java classes for each tag type.
- `WEB-INF/web.xml` should contain the following declaration that imports the tag library:

```
<taglib>
  <taglib-uri>com/sabratec/j2ee/framework/tags</taglib-uri>
  <taglib-location>/WEB-INF/GXTags.tld</taglib-location>
</taglib>
```

- Each JSP page should have the following prefix declaration for the tag library:

```
<%@ taglib uri="com/sabratec/j2ee/framework/tags" prefix="gx" %>
```

The classes in this package are abstract in order to allow the developer to extend them easily.

For this purpose, in each new ApplinX project for JSP there is a `tags` folder in `WEB-INF/classes`, which contains Java classes.

Each class in the `tags` folder inherits from an abstract tag class in the tag library.

Associating the tags to the tags' classes is done in `GXTags.tld`.

The `tags` project classes folder is associated to the `GXTags.tld` file (and not directly to the tag library classes) in order to have immediate affect when a developer changes the relevant tag (in the project's `tags` folder).

com.sabratec.j2ee.framework.web.tags

Class GXAbstractAnchorTag

```

java.lang.Object
  |
  +- BodyTagSupport
     |
     +- com.sabratec.j2ee.framework.web.tags.GXAbstractTag
        |
        +- com.sabratec.j2ee.framework.web.taglib.GXAnchorTag
           |
           +- com.sabratec.j2ee.framework.web.tags.GXAbstractAnchorTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from:*

com.sabratec.j2ee.framework.web.taglib.GXAnchorTag otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to:

com.sabratec.j2ee.framework.web.taglib.GXAnchorTag NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade

```

public class GXAbstractAnchorTag
extends GXAnchorTag
  
```

Constructor Summary

public	GXAbstractAnchorTag() Deprecated.
--------	-------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXAnchorTag](#)

[setHref](#), [setOnClick](#), [setOnmouseout](#), [setOnmouseover](#), [setOnserverclick](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractAnchorTag

```
public GXAbstractAnchorTag()
```

Deprecated.

(continued from last page)

com.sabratec.j2ee.framework.web.tags

Class GXAbstractBodyTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractBodyTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *<gx:body> tag is not required any more is jsp pages*

```

public class GXAbstractBodyTag
extends GXAbstractTag
  
```

Constructor Summary

public	GXAbstractBodyTag() Deprecated.
--------	-----------------------------------------------------------

Method Summary

String	getId() Deprecated.
void	setOnload(String value) Deprecated.

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractBodyTag

```
public GXAbstractBodyTag()
```

Deprecated.

(continued from last page)

Methods

getId

```
public String getId()
```

Deprecated.

Retrieves the ID of the current tag

setOnload

```
public void setOnload(String value)
```

Deprecated.

Called by the JSP page for setting the onload attribute to the HTML tag.

Parameters:

value - The title attribute value

com.sabratec.j2ee.framework.web.tags Class GXAbstractCheckBoxTag

```

java.lang.Object
  |
  +- BodyTagSupport
     |
     +- com.sabratec.j2ee.framework.web.tags.GXAbstractTag
        |
        +- com.sabratec.j2ee.framework.web.taglib.GXCheckBoxTag
           |
           +- com.sabratec.j2ee.framework.web.tags.GXAbstractCheckBoxTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXCheckBoxTag](#) otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to: [GXCheckBoxTag](#) NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractCheckBoxTag
extends GXCheckBoxTag
  
```

Constructor Summary

public	GXAbstractCheckBoxTag() Deprecated.
--------	---------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXCheckBoxTag](#)

[setChecked](#), [setCheckedValue](#), [setOnClick](#), [setUncheckedValue](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractCheckBoxTag

```
public GXAbstractCheckBoxTag()
```

Deprecated.

com.sabratec.j2ee.framework.web.tags Class GXAbstractFormTag

```

java.lang.Object
  |
  +- BodyTagSupport
     |
     +- com.sabratec.j2ee.framework.web.tags.GXAbstractTag
        |
        +- com.sabratec.j2ee.framework.web.taglib.GXFormTag
           |
           +- com.sabratec.j2ee.framework.web.tags.GXAbstractFormTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXFormTag](#) otherwise you may delete this class.*

GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to:

[GXFormTag](#) *NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractFormTag
extends GXFormTag
  
```

Constructor Summary

public	GXAbstractFormTag() Deprecated.
--------	-----------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXFormTag](#)

[getId](#), [setOnsubmit](#), [setSupportFileUpload](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractFormTag

```
public GXAbstractFormTag()
```

Deprecated.

com.sabratec.j2ee.framework.web.tags Class GXAbstractGenericTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXAbstractGenericTag
  
```

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXTextAreaTag](#), [GXTdTag](#), [GXSpanTag](#), [GXImageTag](#), [GXDivTag](#), [GXBoldTag](#)

```

public abstract class GXAbstractGenericTag
extends GXAbstractTag
  
```

A generic tag that represents all label tags such as: span, div, p, font, b etc. Each label tag should implement `GXAbstractTag.getTagName()`

and should be written in `WEB-INF/GXTags.tld` as a tag declaration.

The default behavior of the method `buildHtml` renders the tag name, attributes list, inner HTML, and a closing tag.

To dynamically set content to the tag, use: `getTagsAccesor().setTagContent("", "")`

To dynamically set an attribute to the tag, use: `getTagsAccesor().setTagAttribute("", "", "")`

Constructor Summary

public	GXAbstractGenericTag()
--------	----------------------------------------

Method Summary

void	setDir (String value)
------	---------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXAbstractGenericTag

```
public GXAbstractGenericTag()
```

(continued from last page)

Methods

setDir

```
public void setDir(String value)
```

com.sabratec.j2ee.framework.web.tags Class GXAbstractHtmlTableTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXTableTag
        |
        +-com.sabratec.j2ee.framework.web.tags.GXAbstractHtmlTableTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXTableTag](#) otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to: [GXTableTag](#) NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractHtmlTableTag
extends GXTableTag
  
```

Constructor Summary

public	GXAbstractHtmlTableTag() Deprecated.
--------	----------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXTableTag](#)

[setBorder](#), [setCellpadding](#), [setCellspacing](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractHtmlTableTag

```
public GXAbstractHtmlTableTag()
```

Deprecated.

com.sabratec.j2ee.framework.web.tags Class GXAbstractHtmlTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXHtmlTag
        |
        +-com.sabratec.j2ee.framework.web.tags.GXAbstractHtmlTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXHtmlTag](#) otherwise you may delete this class.*

GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to:

[GXHtmlTag](#) *NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractHtmlTag
extends GXHtmlTag
  
```

Fields inherited from class [com.sabratec.j2ee.framework.web.taglib.GXHtmlTag](#)

[HTML_TAG_ID](#)

Constructor Summary

public	GXAbstractHtmlTag() Deprecated.
--------	-----------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXHtmlTag](#)

[doEndTag](#), [doStartTag](#), [getId](#), [setGx_context](#), [setPageContext](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

GXAbstractHtmlTag

```
public GXAbstractHtmlTag()
```

Deprecated.

com.sabratec.j2ee.framework.web.tags Class GXAbstractInputTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXInputTag
        |
        +-com.sabratec.j2ee.framework.web.tags.GXAbstractInputTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXInputTag](#) otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to: [GXInputTag](#) NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractInputTag
extends GXInputTag
  
```

Constructor Summary

public	GXAbstractInputTag() Deprecated.
--------	------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXInputTag](#)

[setChecked](#), [setDir](#), [setMaxLength](#), [setOnchange](#), [setOnClick](#), [setOnkeydown](#), [setOnkeypress](#), [setOnkeyup](#), [setOnserverclick](#), [setSize](#), [setSrc](#), [setTabIndex](#), [setType](#), [setValue](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractInputTag

```
public GXAbstractInputTag()
```

Deprecated.

(continued from last page)

com.sabratec.j2ee.framework.web.tags Class GXAbstractRadioButton

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXRadioButtonTag
        |
        +-com.sabratec.j2ee.framework.web.tags.GXAbstractRadioButton
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXRadioButtonTag](#) otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to: [GXRadioButtonTag](#) NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractRadioButton
extends GXRadioButtonTag
  
```

Constructor Summary

public	GXAbstractRadioButton() Deprecated.
--------	---------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXRadioButtonTag](#)

[setChecked](#), [setOnClick](#), [setValue](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractRadioButton

```
public GXAbstractRadioButton()
```

Deprecated.

com.sabratec.j2ee.framework.web.tags Class GXAbstractRadioButtonList

```

java.lang.Object
  |
  +- BodyTagSupport
     |
     +- com.sabratec.j2ee.framework.web.tags.GXAbstractTag
        |
        +- com.sabratec.j2ee.framework.web.taglib.GXRadioButtonListTag
           |
           +- com.sabratec.j2ee.framework.web.tags.GXAbstractRadioButtonList
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXRadioButtonListTag](#) otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to: [GXRadioButtonListTag](#) NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractRadioButtonList
extends GXRadioButtonListTag
  
```

Constructor Summary

public	GXAbstractRadioButtonList() Deprecated.
--------	-------------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXRadioButtonListTag](#)

[getDir](#), [getHorizontal](#), [setBorder](#), [setCellpadding](#), [setCellspacing](#), [setDir](#), [setHorizontal](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractRadioButtonList

```
public GXAbstractRadioButtonList()
```

Deprecated.

(continued from last page)

com.sabratec.j2ee.framework.web.tags Class GXAbstractSelectTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.taglib.GXSelectTag
        |
        +-com.sabratec.j2ee.framework.web.tags.GXAbstractSelectTag
  
```

All Implemented Interfaces:

java.io.Serializable

Deprecated. *If your class contains any customization you should inherit from: [GXSelectTag](#) otherwise you may delete this class. GXTags.tld was updated during the web application upgrade process (by the Framework Manager Wizard) to point directly to: [GXSelectTag](#) NOTE: Upgrading the web application using any other method other than the Framework Manager doesn't guaranty complete upgrade*

```

public class GXAbstractSelectTag
extends GXSelectTag
  
```

Constructor Summary

public	GXAbstractSelectTag() Deprecated.
--------	-------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.taglib.GXSelectTag](#)

[setDir](#), [setMultiple](#), [setOnchange](#), [setOnClick](#), [setSize](#)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXAbstractSelectTag

```
public GXAbstractSelectTag()
```

Deprecated.

com.sabratec.j2ee.framework.web.tags Class GXAbstractTag

java.lang.Object

├--BodyTagSupport

├--com.sabratec.j2ee.framework.web.tags.GXAbstractTag

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GXJspIncludeTag](#), [GXFeatureDetectTag](#), [GXContextReleaseTag](#), [GXContextInitiatorTag](#), [GXAbstractGenericTag](#), [GXAbstractBodyTag](#), [GXTableTag](#), [GXSelectTag](#), [GXRadioButtonTag](#), [GXRadioButtonListTag](#), [GXInputTag](#), [GXHtmlTag](#), [GXFormTag](#), [GXCheckBoxTag](#), [GXAnchorTag](#)

public abstract class **GXAbstractTag**

extends BodyTagSupport

implements java.io.Serializable

This class is the abstract class for all the gx tags. It provides common functionality for all the inheriting classes such as:

- [getId\(\)](#)
- [getAttribute\(String\)](#)
- [getAttributes\(\)](#)

Each class that inherits from this class should implement two methods:

[getTagName\(\)](#) - to specify the tag name

[buildHtmlTag\(StringBuffer\)](#) - for building the HTML string of the specific tag

All the inheriting classes are initialized automatically by the JSP page, according to a specified tag in the JSP page.

For example: `<gx:TAG-NAME ...attributes...>...</gx:TAG-NAME>` and should not be initialized by the user.

The attributes are translated into set method in this class or the relevant inherited class.

The JSP tag library specification forces having a specific Set method for each tag. This class also contains a Set method for common HTML attributes: [setCssClass](#), [setStyle](#), etc.

Constructor Summary

public	GXAbstractTag()
--------	---------------------------------

Method Summary

int	doAfterBody() Method is invoked after every body evaluation to control whether the body will be reevaluated or not.
int	doEndTag() Triggers the tag build process.
int	doStartTag() Overrides the tag library class <code>BodyTagSupport</code> and performs validation and further initialization.
String	getId() Retrieves the ID of the current tag

String	getInnerHTML() Used for retrieving the Inner HTML tag.
GXIWebPageContext	getMainContext() Used for getting the main context class for the current tag.
void	setAlign(String value) Called by the JSP page for setting the align attribute to the tag output html.
void	setAttributes(String value) Used for writing free text of attributes.
void	setBgcolor(String value)
void	setCssClass(String cssClass) Called by the JSP page for setting the css class of the gx tag.
void	setHeight(String value) Called by the JSP page for setting the height attribute to the tag output html.
void	setId(String id) Sets an ID identifier to the current tag.
void	setOnClick(String value) Called by the JSP page for setting the onclick attribute to the tag output html.
void	setPageContext(PageContext pageContext) Overrides the BodyTagSupport class, and is used for initializing the current tag.
void	setStyle(String value) Called by the JSP page for setting the style attribute to the tag output html.
void	setTitle(String value) Called by the JSP page for setting the title attribute to the tag output html.
void	setVisible(String value) Uses for show/hide the tag.
void	setWidth(String value) Called by the JSP page for setting the width attribute to the tag output html.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXAbstractTag

```
public GXAbstractTag()
```

Methods

(continued from last page)

getInnerHTML

```
public String getInnerHTML()
```

Used for retrieving the Inner HTML tag.
For example: `<gx:span>some text</gx:span>`

Returns:

The tag inner HTML

setId

```
public void setId(String id)
```

Sets an ID identifier to the current tag.
The `set` method is called automatically by the JSP page when setting the ID attribute to a gx tag.
The ID can be used to update content for the tag using [GXITagsAccesor.setTagContent\(String, String\)](#).

getId

```
public String getId()
```

Retrieves the ID of the current tag

setCssClass

```
public void setCssClass(String cssClass)
```

Called by the JSP page for setting the css class of the gx tag.
Translated into the HTML "class" attribute.

Parameters:

`cssClass` - The css class name

setPageContext

```
public void setPageContext(PageContext pageContext)
```

Overrides the `BodyTagSupport` class, and is used for initializing the current tag.

Parameters:

`pageContext` - The JSP page context

doStartTag

```
public int doStartTag()  
throws JspException
```

Overrides the tag library class `BodyTagSupport` and performs validation and further initialization.

See Also:

`doStartTag()`

getMainContext

```
public GXIWebPageContext getMainContext()
```

Used for getting the main context class for the current tag.

(continued from last page)

Returns:

The main context class for the current tag.

doEndTag

```
public int doEndTag()  
    throws JspTagException
```

Triggers the tag build process. If the tag was set to not visible [GXITagsAccesor.setTagVisible\(String, boolean\)](#), the tag will not be rendered.

This method calls the abstract method `buildHtmlTag(StringBuffer)` in order for each inheriting class to build its HTML content.

doAfterBody

```
public int doAfterBody()  
    throws JspTagException
```

Method is invoked after every body evaluation to control whether the body will be reevaluated or not.

Returns:

SKIP_BODY

setAttributes

```
public void setAttributes(String value)
```

Used for writing free text of attributes.

Syntax:

```
<gx:tag attributes="onmouseover='showImage()'; onmouseout='hideImage()';" ...>
```

Parameters:

value - The free text that specifies the attributes

setVisible

```
public void setVisible(String value)
```

Uses for show/hide the tag. This method is called automatically by the JSP page, when placing a visible attribute to a tag.
Typical Usage: `<gx:tag visible="false">...`
false vaue is causing the tag not to be rendered

Parameters:

value - true/false if the tag should be visible.

See Also:[GXITagsAccesor.setTagVisible\(String, boolean\)](#)

setStyle

```
public void setStyle(String value)
```

Called by the JSP page for setting the style attribute to the tag output html.

Parameters:

value - The style attributes value

(continued from last page)

setTitle

```
public void setTitle(String value)
```

Called by the JSP page for setting the title attribute to the tag output html.

Parameters:

value - The title attribute value

setOnClick

```
public void setOnClick(String value)
```

Called by the JSP page for setting the onclick attribute to the tag output html.

Parameters:

value - The onclick attribute value

setAlign

```
public void setAlign(String value)
```

Called by the JSP page for setting the align attribute to the tag output html.

Parameters:

value - The align attribute value

setWidth

```
public void setWidth(String value)
```

Called by the JSP page for setting the width attribute to the tag output html.

Parameters:

value - The width attribute value

setHeight

```
public void setHeight(String value)
```

Called by the JSP page for setting the height attribute to the tag output html.

Parameters:

value - The height attribute value

setBgcolor

```
public void setBgcolor(String value)
```

com.sabratec.j2ee.framework.web.tags Class GXContextInitiatorTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXContextInitiatorTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXContextInitiatorTag
extends GXAbstractTag
  
```

This class is an alternative to the opening tag <gx:html> : [GXAbstractHtmlTag](#). It is required when the Web server doesn't support placing JSP Include files under a server tag.

Syntax:

```

<gx:init gx_context="<CONTEXT CLASS"/>
...
<gx:form>
...
</gx:form>
...
<gx:release/>
  
```

Constructor Summary

public	GXContextInitiatorTag()
--------	-----------------------------------------

Method Summary

int	doStartTag()
void	setGx_context (String gx_contextName)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXContextInitiatorTag

```
public GXContextInitiatorTag()
```

(continued from last page)

Methods

doStartTag

```
public final int doStartTag()  
    throws JspException
```

Overrides the tag library class `BodyTagSupport` and performs validation and further initialization.

setGx_context

```
public void setGx_context(String gx_contextName)  
    throws ClassNotFoundException,  
        IllegalAccessException,  
        InstantiationException
```

com.sabratec.j2ee.framework.web.tags Class GXContextReleaseTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXContextReleaseTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXContextReleaseTag
extends GXAbstractTag
  
```

This class is an alternative to the closing tag `</gx:html>` : [GXAbstractHtmlTag](#). It is required when the web server doesn't support placing JSP Include files under a server tag.

Syntax:

```

<gx:init gx_context="<CONTEXT CLASS"/>
...
<gx:form>
...
</gx:form>
...
<gx:release/>
  
```

Constructor Summary

public	GXContextReleaseTag()
--------	---------------------------------------

Method Summary

int	doEndTag() Method called at the end of tag.
-----	----------------------------------------------------------------

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXContextReleaseTag

```
public GXContextReleaseTag()
```

Methods

doEndTag

```
public final int doEndTag()  
    throws JspTagException
```

Method called at the end of tag.

Returns:

EVAL_PAGE

com.sabratec.j2ee.framework.web.tags Class GXFeatureDetectTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXFeatureDetectTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXFeatureDetectTag
extends GXAbstractTag
  
```

Constructor Summary

public	GXFeatureDetectTag()
--------	--------------------------------------

Method Summary

String	getAttributeName()
void	setAttributeName(String m_name)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

GXFeatureDetectTag

```
public GXFeatureDetectTag()
```

Methods

getAttributeName

```
public String getAttributeName()
```

(continued from last page)

setAttributeName

```
public void setAttributeName(String m_name)
```

com.sabratec.j2ee.framework.web.tags Interface GXITagsAccesor

All Known Implementing Classes:

[GXITagsAccesorImpl](#)

public interface **GXITagsAccesor**

This class which can be accessed from the context classes as `getTagsAccesor()`, provides various methods for updating the various gx tags.

It serves both simple tags using `setTagContent`, `setTagAttribute`, or complex tags such as combobox, radio buttons and table.

Method Summary

void	AddHiddenFieldToForm (String name, String value) Dynamically adds an input hidden field to the JSP page.
void	AddHtmlTextToForm (String htmlText) Adds an HTML text to the JSP page.
void	AddJSToForm (String jsString) Adds a JavaScript code to the JSP page.
void	addTableKeyColumn (String tagId, String keyCol) This method is used for setting the key column(s) of a gx table tag.
String	getFileName (String tagId) Retrieves a file name of an uploaded file according to the tag ID (<gx:input type="file" id="...>).
java.io.InputStream	getInputStream (String tagId) Retrieves an Input Stream for an uploaded file according to the tag ID (<gx:input type="file" id="...>).
String	getTableId () Used for retrieving the table tag ID in the current page
String	getTableSelectedKey (String tagId) Returns the value of the selected key, as specified in addTableKeyColumn(String, String) . If key columns were not added, the row index is returned.
String[]	getTableSelectedKeys (String tagId) Returns the values of the selected keys, as specified in addTableKeyColumn(String, String) .
String	getTagContent (String tagId) Retrieves the tag content from the Request scope.
void	setBodyAttribute (String attrName, String content) Deprecated. Use <code>addJSToForm(String jsString)</code> - <code><script>document.body.<ATTR_NAME> = <ATTR_VALUE>;</script></code> instead
void	setFormAttribute (String attrName, String content) Sets a dynamic attribute to <gx:form> tag.
void	setPageVisible (boolean visible) When set to false, the page will not be rendered.

void	setTagAttribute (String tagId, String attrName, String content) Sets a dynamic attribute to the specified tag ID.
void	setTagContent (String tagId, String content) Sets content to a gx tag with the specified tag ID.
void	setTagList (String tagId, GXINameValueCollection list) This method provides a text-value collection to either a radio button list (<gx:radioButtonList>) or to a combo box element (<gx:select>).
void	setTagList (String tagId, Hashtable list) Deprecated. Use <i>setTagList(String tagId, com.sabratec.applinx.framework.GXINameValueCollection)</i> instead
void	setTagTable (String tagId, GXITable table)
void	setTagTable (String tagId, GXITable table, com.sabratec.j2ee.framework.web.tables.GXITableBuildConfig config, GXITableEvents events)
void	setTagTable (String tagId, GXITable table, GXITableBuildConfig config)
void	setTagTable (String tagId, GXITable table, GXITableBuildConfig config, GXITableEvents events) This method is used for filling a <gx:table> tag with the data from the data table GXITable .
void	setTagVisible (String tagId, boolean visible) When set to false, the specified tag ID will not be rendered.

Methods

setTagContent

```
public void setTagContent(String tagId,
    String content)
```

Sets content to a gx tag with the specified tag ID. The content is set to the relevant tag according to the tag type:

- <gx:input> - the content is set in the value attribute.
- <gx:span> (or any other label tag) - the content is set as the inner HTML.
- <gx:select> - the content is set by the option whose value is equal to the specified content.
- <gx:radioButtonList> - the content is set by the radio button whose value is equal to the specified content.
- <gx:checkbox> - the check box is checked if the content equals the checked value.

Parameters:

tagId - The ID of the gx tag
content - The dynamic content to set to the gx tag

getTagContent

```
public String getTagContent(String tagId)
```

Retrieves the tag content from the Request scope. If setTagContent for the specified tag ID was already set it will be returned, otherwise the form/queryString value will be returned.

(continued from last page)

Parameters:

tagId - the content of the specified tag ID

Returns:

the tag's content/value

setTagVisible

```
public void setTagVisible(String tagId,  
    boolean visible)
```

When set to false, the specified tag ID will not be rendered.

Parameters:

tagId - The tag ID to hide

visible - true/false to determine whether to hide/show a tag

setPageVisible

```
public void setPageVisible(boolean visible)
```

When set to false, the page will not be rendered.

Parameters:

visible - true/false to determine whether to hide/show the page

setTagAttribute

```
public void setTagAttribute(String tagId,  
    String attrName,  
    String content)
```

Sets a dynamic attribute to the specified tag ID. When such a static attribute exists in gx tag in the JSP page, it will be overridden.

Parameters:

tagId - the tag ID

attrName - the name of the attribute to set

content - the content for the attribute

setTagList

```
public void setTagList(String tagId,  
    Hashtable list)
```

Deprecated. Use *setTagList(String tagId, com.sabratec.applinx.framework.GXINameValueCollection)* instead

setTagList

```
public void setTagList(String tagId,  
    GXINameValueCollection list)
```

This method provides a text-value collection to either a radio button list (<gx:radioButtonList>) or to a combo box element (<gx:select>). To use this method, initialize a name-value collection and add text-value pairs to it.

Parameters:

(continued from last page)

tagId - the tag ID of the radio button list/combo box which the dynamic list should be provided
list - the list of text-value items

setTagTable

```
public void setTagTable(String tagId,  
    GXITable table)
```

See Also:

[setTagTable\(String, GXITable, GXITableBuildConfig, GXITableEvents\)](#)

setTagTable

```
public void setTagTable(String tagId,  
    GXITable table,  
    GXITableBuildConfig config)
```

See Also:

[setTagTable\(String, GXITable, GXITableBuildConfig, GXITableEvents\)](#)

setTagTable

```
public void setTagTable(String tagId,  
    GXITable table,  
    com.sabratec.j2ee.framework.web.tables.GXITableBuildConfig config,  
    GXITableEvents events)
```

setTagTable

```
public void setTagTable(String tagId,  
    GXITable table,  
    GXITableBuildConfig config,  
    GXITableEvents events)
```

This method is used for filling a <gx:table> tag with the data from the data table [GXITable](#).

Parameters:

tagId - The ID of <gx:table>

table - The data table

config - a configuration class with common options of how to build the table HTML

events - a table events class which receives events on every new element creation (row,cell and a tag with a cell).

See Also:

[GXITableBuildConfig](#)

[GXITableEvents](#)

[GXAbstractHtmlTableTag](#)

[GXIClientBaseObject.getTable\(\)](#)

addTableKeyColumn

```
public void addTableKeyColumn(String tagId,  
    String keyCol)
```

(continued from last page)

This method is used for setting the key column(s) of a gx table tag. Setting a key column is needed when you are interested to know the key column value when a row is selected. For example, if you have collected a multiple screens table with an item number column, and you would like to show details of an item (according to the item number) when clicking on a button in this row.

If you will use `addTableKeyColumn("TABLE TAG ID", "ItemNumber")` before the table is displayed, when you will select a row and post back to the context class, you will be able to retrieve the selected item number using [getTableSelectedKey\(String\)](#) and use it in order to find and drill down to the relevant row.

Parameters:

tagId - The table tag ID

keyCol - The key column name in [GXITable.getColumns\(\)](#)

getTableNames

```
public String getTableNames()
```

Used for retrieving the table tag ID in the current page

Returns:

The last built table name

getTableSelectedKey

```
public String getTableSelectedKey(String tagId)
```

Returns the value of the selected key, as specified in [addTableKeyColumn\(String, String\)](#). If key columns were not added, the row index is returned.

Parameters:

tagId - The table tag ID

Returns:

The key column value

getTableSelectedKeys

```
public String[] getTableSelectedKeys(String tagId)
```

Returns the values of the selected keys, as specified in [addTableKeyColumn\(String, String\)](#). Use this method when you specify more than one key column in the method `addTableKeyColumn`. If key columns were not added, the row index is returned.

Parameters:

tagId - The table tag ID

Returns:

A String array of the key columns values

AddHiddenFieldToForm

```
public void AddHiddenFieldToForm(String name,  
    String value)
```

Dynamically adds an input hidden field to the JSP page.

Parameters:

name - The name of the hidden field

value - The value of the hidden field

(continued from last page)

AddJSForm

```
public void AddJSForm(String jsString)
```

Adds a JavaScript code to the JSP page. The script should be wrapped with `<script>...</script>` tag.

Parameters:

jsString - The JavaScript command(s)

AddHtmlTextToForm

```
public void AddHtmlTextToForm(String htmlText)
```

Adds an HTML text to the JSP page.

Parameters:

htmltext - the html text to add

setBodyAttribute

```
public void setBodyAttribute(String attrName,  
String content)
```

Deprecated. Use `addJSForm(String jsString)` - `<script>document.body.<ATTR_NAME> = <ATTR_VALUE>;</script>` instead

setFormAttribute

```
public void setFormAttribute(String attrName,  
String content)
```

Sets a dynamic attribute to `<gx:form>` tag.

Parameters:

attrName - The name of the attribute
content - The content of the attribute

getInputStream

```
public java.io.InputStream getInputStream(String tagId)  
throws java.io.IOException
```

Retrieves an Input Stream for an uploaded file according to the tag ID (`<gx:input type="file" id="...">`).

Parameters:

tagId - the input file tag ID

Returns:

Input Stream of the uploaded file

getFileName

```
public String getFileName(String tagId)  
throws java.io.IOException
```

(continued from last page)

Retrieves a file name of an uploaded file according to the tag ID (<gx:input type="file" id="...>).

Parameters:

tagId - The input file tag ID

Returns:

The file name

com.sabratec.j2ee.framework.web.tags Class GXJspIncludeTag

```

java.lang.Object
  |
  +-BodyTagSupport
    |
    +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
      |
      +-com.sabratec.j2ee.framework.web.tags.GXJspIncludeTag
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class GXJspIncludeTag
extends GXAbstractTag
  
```

This class is the root of a JSP Include file and the tag that initializes and activates the JSP Include context class.

Syntax:

```

<gx:include gx_context="<CONTEXT CLASS>">
...
<img src=...
...
</gx:include>
  
```

This class throws the following events in the context class:

- gx_onLoad - informs about the Load event of the Include file - gx_onLoad()
- gx_preRender - informs before the HTML of the Include file is rendered - gx_preRender()
- gx_onUnload - informs of the Unload event (for cleanup) - gx_onUnload()
- gx_onError - Used for error handling - gx_onError(RuntimeException)()

Constructor Summary

public	GXJspIncludeTag()
--------	-----------------------------------

Method Summary

int	doEndTag() Method called at the end of the tag.
int	doStartTag() Method called at the beginning of the tag.
void	setGx_context (String gx_contextName)
void	setPageContext (PageContext pageContext)

Methods inherited from class [com.sabratec.j2ee.framework.web.tags.GXAbstractTag](#)

[doAfterBody](#), [doEndTag](#), [doStartTag](#), [getId](#), [getInnerHTML](#), [getMainContext](#), [setAlign](#), [setAttributes](#), [setBgcolor](#), [setCssClass](#), [setHeight](#), [setId](#), [setOnClick](#), [setPageContext](#), [setStyle](#), [setTitle](#), [setVisible](#), [setWidth](#)

Methods inherited from class [java.lang.Object](#)

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

GXJspIncludeTag

```
public GXJspIncludeTag()
```

Methods

setPageContext

```
public void setPageContext(PageContext pageContext)
```

Overrides the `BodyTagSupport` class, and is used for initializing the current tag.

doStartTag

```
public final int doStartTag()  
    throws JspException
```

Method called at the beginning of the tag.

Returns:

`EVAL_BODY_TAG`

doEndTag

```
public final int doEndTag()  
    throws JspTagException
```

Method called at the end of the tag.

Returns:

`EVAL_PAGE`

setGx_context

```
public void setGx_context(String gx_contextName)  
    throws ClassNotFoundException,  
        IllegalAccessException,  
        InstantiationException
```

com.sabratec.j2ee.framework.web.tags Class GXTagFunctions

java.lang.Object

└-com.sabratec.j2ee.framework.web.tags.GXTagFunctions

public class **GXTagFunctions**
extends Object

Internal Util class for common tasks of the package.

Constructor Summary

public	GXTagFunctions()
--------	----------------------------------

Method Summary

static void	addAttributesToTag (GXITag tag, Hashtable attributes)
static String	hashtableToNameValueString (Hashtable attributes)
static void	renderAndRecycle (GXITag tag, StringBuffer result)
static void	writeComplexRadio (StringBuffer html, GXIWebContext gx_context, String tagId, String isHorizontal, String dir, String innerHTML, String val, String isChecked, Hashtable attributes)
static void	writeRadio (StringBuffer html, String tagId, GXIWebContext gx_context, String radioVal, String isChecked, Hashtable attributes)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXTagFunctions

public **GXTagFunctions**()

Methods

(continued from last page)

writeComplexRadio

```
public static void writeComplexRadio(StringBuffer html,
    GXIWebContext gx_context,
    String tagId,
    String isHorizontal,
    String dir,
    String innerHTML,
    String val,
    String isChecked,
    Hashtable attributes)
```

writeRadio

```
public static void writeRadio(StringBuffer html,
    String tagId,
    GXIWebContext gx_context,
    String radioVal,
    String isChecked,
    Hashtable attributes)
```

hashtableToNameValueString

```
public static String hashtableToNameValueString(Hashtable attributes)
```

addAttributesToTag

```
public static void addAttributesToTag(GXITag tag,
    Hashtable attributes)
```

renderAndRecycle

```
public static void renderAndRecycle(GXITag tag,
    StringBuffer result)
```

Package

com.sabratec.util

com.sabratec.util Class GXPosition

java.lang.Object

└─com.sabratec.util.GXPosition

All Implemented Interfaces:

Cloneable, java.io.Serializable

public class **GXPosition**
 extends Object
 implements java.io.Serializable, Cloneable

This class represents a position on the host screen. Each position is described by its coordinates (row and column).

This class is immutable.

Field Summary

public static	DEFAULT
---------------	-------------------------

Constructor Summary

public	GXPosition() Ctor for dotNet Xstream.Serializable
public	GXPosition(int row, int column) Creates a new position.

Method Summary

Object	clone()
int	compareTo(Object otherPosition) Position A is considered to be greater than position B if it is either in a greater row, or in the same row and with a greater column.
boolean	equals(Object otherPosition) Tests if this position is equal to the given position. Two positions are considered equal if they are in the same row and column.
int	getColumn() Returns the column value set for this position.
int	getRow() Returns the row value set for this position
int	hashCode()
String	toString()

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Fields

DEFAULT

```
public static com.sabratec.util.GXPosition DEFAULT
```

Constructors

GXPosition

```
public GXPosition()
```

Ctor for dotNet Xstream.Serializable

GXPosition

```
public GXPosition(int row,  
                  int column)
```

Creates a new position.

Parameters:

row - the row of the position.

column - the column of the position

Methods

getRow

```
public int getRow()
```

Returns the row value set for this position

Returns:

the row value set for this position

getColumn

```
public int getColumn()
```

Returns the column value set for this position.

Returns:

the column value set for this position

equals

```
public boolean equals(Object otherPosition)
```

Tests if this position is equal to the given position.

Two positions are considered equal if they are in the same row and column.

(continued from last page)

Parameters:

`otherPosition` - another position object

Returns:

Tests if this position is equal to the given position

compareTo

```
public int compareTo(Object otherPosition)
```

Position A is considered to be greater than position B if it is either in a greater row, or in the same row and with a greater column.

Returns:

-1 if this position is smaller than the given position

1 if this position is greater than the given position
and 0 if the positions are equal

toString

```
public String toString()
```

hashCode

```
public int hashCode()
```

clone

```
public Object clone()
```

Package

com.sabratec.util.ftp

This package supplies an API for the ApplinX FTP mechanism.

It can be used instead of using the FTP dialog screens.

The main class in the package is GXFtpManager.

This is a singleton class and it can be accessed only via the `instance()` method.

Another important class is GXFtpRequest, which is a data structure that contains all the relevant information for the FTP transmission.

Below are two code examples of uploading and downloading files:

Code sample for uploading a file to a Mainframe host:

```
GXFtpRequest uploadReq = new GXFtpRequest();
uploadReq.setUser(user);
uploadReq.setPassword(pass);
uploadReq.setServer(host ip address);
uploadReq.setRemoteFile(remote file using full path);
uploadReq.setValue(GXMFCCommands.CMD_MF_DATA_TYPE, GXMFCCommands.CMD_VAL_MF_DATA_TYPE_BIN)
try {
uploadReq.readFileToUpload(local file using full path);
GXFtpManager.instance().putFile(uploadReq);
} catch (GXGeneralException e) {
e.printStackTrace();
}
```

Code sample for downloading a file from a Mainframe host:

```
GXFtpRequest downloadReq = new GXFtpRequest();
downloadReq.setUser(user);
downloadReq.setPassword(pass);
downloadReq.setServer(host ip address);
downloadReq.setRemoteFile(remote file using full path);
downloadReq.setValue(GXMFCCommands.CMD_MF_DATA_TYPE, GXMFCCommands.CMD_VAL_MF_DATA_TYPE_BIN);
try {
GXFtpResponse resp = GXFtpManager.instance().getFile(downloadReq);
resp.writeFileToDisk(local file using full path);
} catch (GXFtpException e) {
e.getMessage();
}
```

com.sabratec.util.ftp Class GXFtpConsts

java.lang.Object

└-com.sabratec.util.ftp.GXFtpConsts

public class **GXFtpConsts**
extends Object

Field Summary

public static final	ADDITIONAL Value: ADDITIONAL
public static final	DATA Value: DATA
public static final	LOCAL_FILE Value: LOCAL_FILE
public static final	MODE Value: MODE
public static final	PASSWORD Value: PASSWORD
public static final	REMOTE_FILE Value: REMOTE_FILE
public static final	SERVER Value: SERVER
public static final	USER Value: USER

Constructor Summary

public	GXFtpConsts ()
--------	--------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

(continued from last page)

SERVER

```
public static final java.lang.String SERVER
```

Constant value: **SERVER**

USER

```
public static final java.lang.String USER
```

Constant value: **USER**

PASSWORD

```
public static final java.lang.String PASSWORD
```

Constant value: **PASSWORD**

LOCAL_FILE

```
public static final java.lang.String LOCAL_FILE
```

Constant value: **LOCAL_FILE**

REMOTE_FILE

```
public static final java.lang.String REMOTE_FILE
```

Constant value: **REMOTE_FILE**

ADDITIONAL

```
public static final java.lang.String ADDITIONAL
```

Constant value: **ADDITIONAL**

MODE

```
public static final java.lang.String MODE
```

Constant value: **MODE**

DATA

```
public static final java.lang.String DATA
```

Constant value: **DATA**

Constructors

(continued from last page)

GXFtpConsts

```
public GXFtpConsts()
```

com.sabratec.util.ftp Class GXFtpException

```
java.lang.Object
  |
  +-GXGeneralException
     |
     +-com.sabratec.util.ftp.GXFtpException
```

```
public class GXFtpException
extends GXGeneralException
```

Exception thrown when unexpected or negative reply is received from the server. The `getReply()` method can be used to examine the reply that caused the exception.

Constructor Summary

public	GXFtpException (GXFtpReply reply, String msg, Throwable e) Constructs new GXFtpException with short explanation of the circumstance.
public	GXFtpException (String msg) Constructs new GXFtpException with short explanation of the circumstance.
public	GXFtpException (GXFtpReply reply) Convenience constructor; Creates new GXFtpException using "Unexpected" as the explanation.

Method Summary

int	getCode () Convenience method; gets FTP reply code of underlying reply object.
GXFtpReply	getReply () Returns reply that caused this exception.
int	getType () Convenience method; gets FTP reply type of underlying reply object.

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXFtpException

```
public GXFtpException(GXFtpReply reply,
                     String msg,
                     Throwable e)
```

Constructs new GXFtpException with short explanation of the circumstance. The explanation is prepended to the text of the actual reply to form the exception message.

(continued from last page)

GXFtpException

```
public GXFtpException(String msg)
```

Constructs new GXFtpException with short explanation of the circumstance. Useful when there is still no reply from the server

GXFtpException

```
public GXFtpException(GXFtpReply reply)
```

Convenience constructor; Creates new GXFtpException using "Unexpected" as the explanation.

Methods

getReply

```
public GXFtpReply getReply()
```

Returns reply that caused this exception.

Returns:

GXFtpReply object that caused exception

getType

```
public int getType()
```

Convenience method; gets FTP reply type of underlying reply object. Equivalent to calling getReply().getType().

Returns:

type of GXFtpReply object that caused exception

See Also:

getType

getCode

```
public int getCode()
```

Convenience method; gets FTP reply code of underlying reply object. Equivalent to calling getReply().getCode().

Returns:

FTP reply code of GXFtpReply object that caused exception

See Also:

getCode

com.sabratec.util.ftp Class GXFtpManager

java.lang.Object

└-com.sabratec.util.ftp.GXFtpManager

public class **GXFtpManager**
extends Object

This class supplies a batch API for the ApplinX FTP mechanism.

All the data for an ftp transmission is stored in a GXFtpRequest object.

An GXFtpRequest object can be passed as a parameter to two different methods of GXFtpManager: getFile() and putFile()

These methods can be called only via GXFtpManager singleton instance.

Two code examples of uploading and downloading files can be found in the package overview.

Method Summary

GXFtpResponse	getFile(GXFtpRequest req) getFile is an API method which is used to retrieve a file from a remote host using the FTP protocol.
static GXFtpManager	instance() instance() supplies an access to the class object (singleton). The object is created automatically in the background.
void	putFile(GXFtpRequest req) putFile is an api method which transfers a file to a remote host using the FTP protocol.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

instance

public static [GXFtpManager](#) **instance()**

instance() supplies an access to the class object (singleton).
The object is created automatically in the background.

Returns:

The single instance of the class.

putFile

public void **putFile(GXFtpRequest req)**
throws [GXFtpException](#)

putFile is an api method which transfers a file to a remote host using the FTP protocol.

Throws:

[GXFtpException](#)

getFile

```
public GXFtpResponse getFile(GXFtpRequest req)  
    throws GXFtpException
```

getFile is an API method which is used to retrieve a file from a remote host using the FTP protocol.

Returns:

[GXFtpResponse](#)

Throws:

[GXFtpException](#)

com.sabratec.util.ftp Class GXFtpRequest

java.lang.Object

↳ com.sabratec.util.ftp.GXFtpRequest

public class **GXFtpRequest**
extends Object

This class is used as a data structure for all the parameters which are relevant for an FTP transmission. Some of the data is stored in the object by designated methods, e.g.: `setUser()`. The rest of the data is stored using the `setValue()` method and pre defined constants such as:
`setValue(GXMFCCommands.CMD_MF_DATA_TYPE, GXMFCCommands.CMD_VAL_MF_DATA_TYPE_BIN);`

An initialized object of this class can be passed as a parameter to each of the following GXFtpManager methods:

```
GXFtpManager.instance().putFile(GXFtpRequest);
GXFtpManager.instance().getFile(GXFtpRequest);
```

Constructor Summary

public	GXFtpRequest() Class constructor
--------	-----------------------------------------------------

Method Summary

String	getAdditionalCommand() For internal use
byte[]	getLocalFile() For internal use
byte[]	getLocalFileBytes() For internal use
String	getPassword() For internal use
String	getRemoteFile() For internal use
String	getServer() For internal use
String	getUser() For internal use
String	getValue(String key) For internal use
String	getValues() For internal use
void	readFileToUpload(String filename) Reads and stores the content of the local file into the request data structure.

void	setAdditional (String additionalCommands) Sets an additional user defined command for the FTP request.
void	setLocalFileBytes (byte[] fileByBytes) For internal use
void	setPassword (String password) Sets the remote host FTP password
void	setRemoteFile (String remoteFile) Sets the remote file name using the full path.
void	setServer (String server) Sets the FTP remote server IP address.
void	setUser (String user) Sets the FTP server user name.
void	setValue (String key, String value) Stores command values in the FTP request.

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

GXFtpRequest

```
public GXFtpRequest()
```

Class constructor

Methods

getValue

```
public String getValue(String key)
```

For internal use

getValues

```
public String getValues()
```

For internal use

setValue

```
public void setValue(String key,
                    String value)
```

Stores command values in the FTP request.

For example:`setValue(GXMFCCommands.COMD_MF_DATA_TYPE, GXMFCCommands.COMD_VAL_MF_DATA_TYPE_BIN);`

(continued from last page)

Parameters:

key - command constant which can be either from the [GXMFCommands](#) class or from the [GXAS400Commands](#) class.

value - The cmd value, which can be a constant either from one of these classes ([GXMFCommands](#) or [GXAS400Commands](#)) or a positive number.

getPassword

```
public String getPassword()
```

For internal use

setPassword

```
public void setPassword(String password)
```

Sets the remote host FTP password

Parameters:

password - host password.

getRemoteFile

```
public String getRemoteFile()
```

For internal use

setRemoteFile

```
public void setRemoteFile(String remoteFile)
```

Sets the remote file name using the full path.

Parameters:

remoteFile - The full path name of the remote name.

getServer

```
public String getServer()
```

For internal use

setServer

```
public void setServer(String server)
```

Sets the FTP remote server IP address.

Parameters:

server

getUser

```
public String getUser()
```

For internal use

setUser

```
public void setUser(String user)
```

Sets the FTP server user name.

Parameters:

user

setLocalFileBytes

```
public void setLocalFileBytes(byte[] fileByBytes)
```

For internal use

getLocalFileBytes

```
public byte[] getLocalFileBytes()
```

For internal use

getLocalFile

```
public byte[] getLocalFile()
```

For internal use

setAdditional

```
public void setAdditional(String additionalCommands)
```

Sets an additional user defined command for the FTP request.

Parameters:

additionalCommands

getAdditionalCommand

```
public String getAdditionalCommand()
```

For internal use

readFileToUpload

```
public void readFileToUpload(String filename)  
    throws GXGeneralException,  
           java.io.IOException
```

Reads and stores the content of the local file into the request data structure. Should be used before uploading a file.

Parameters:

filename

Throws:

GXGeneralException
IOException

com.sabratec.util.ftp Class GXFtpResponse

java.lang.Object

└-com.sabratec.util.ftp.GXFtpResponse

```
public class GXFtpResponse
extends Object
```

This class holds the data retrieved from an FTP download request.

Constructor Summary

public	GXFtpResponse (String fileName, byte[] arr) Constructor - For internal use
--------	-----------------------------------------------------------------------------------------------

Method Summary

void	convertTextIfNeeded (String mode) Converts the downloaded file to Windows/DOS/UNIX file format.
byte[]	getFileAsByteArr ()
java.io.ByteArrayInput tStream	getFileAsInputStream () For internal use
String	getFileName () For internal use

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

GXFtpResponse

```
public GXFtpResponse(String fileName,
                    byte[] arr)
```

Constructor - For internal use

Methods

getFileAsByteArr

```
public byte[] getFileAsByteArr()
```

(continued from last page)

getFileAsStream

```
public java.io.ByteArrayInputStream getFileAsStream()
```

For internal use

getFileName

```
public String getFileName()
```

For internal use

convertTextIfNeeded

```
public void convertTextIfNeeded(String mode)
```

Converts the downloaded file to Windows/DOS/UNIX file format.

Parameters:

mode - possible values: "win", "dos" or "unix"

com.sabratec.util.ftp Class GXFtpTypes

java.lang.Object

└-com.sabratec.util.ftp.GXFtpTypes

public class **GXFtpTypes**
extends Object

Field Summary

public static final	AS400 Value: 2
public static final	MAIN_FRAME Value: 1
public static final	SIMPLE Value: 0

Constructor Summary

public	GXFtpTypes()
--------	------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

SIMPLE

public static final java.lang.String **SIMPLE**

Constant value: 0

MAIN_FRAME

public static final java.lang.String **MAIN_FRAME**

Constant value: 1

AS400

public static final java.lang.String **AS400**

(continued from last page)

Constant value: **2**

Constructors

GXFtpTypes

```
public GXFtpTypes()
```

Package

com.sabratec.util.ftp.as400

com.sabratec.util.ftp.as400 Class GXAS400Commands

```
java.lang.Object
```

```
├--com.sabratec.util.ftp.as400.GXAS400Commands
```

```
public class GXAS400Commands
extends Object
```

This class holds constants for the AS400 FTP commands and their possible values:

AS400 designated commands	Possible values	Description
CMD_AS400_DATA_TYPE	CMD_VAL_AS400_DATA_TYPE_ASC	ASCII
	CMD_VAL_AS400_DATA_TYPE_EBC	EBCDIC
	CMD_VAL_AS400_DATA_TYPE_BIN	Binary
CMD_AS400_MODE	CMD_VAL_AS400_MODE_BLOCK	ASCII double byte character set
	CMD_VAL_AS400_MODE_STREAM	EBCDIC double byte character set
	CMD_VAL_AS400_MODE_CCSID	Coded character set identifier
CMD_AS400_DS	CMD_VAL_AS400_DS_FILE	Data structure file
	CMD_VAL_AS400_DS_RECORD	Data structure record

Field Summary

public static final	CMD_AS400_DATA_TYPE Value: type
public static final	CMD_AS400_DS Value: struct
public static final	CMD_AS400_MODE Value: mode
public static final	CMD_VAL_AS400_DATA_TYPE_ASC Value: a
public static final	CMD_VAL_AS400_DATA_TYPE_BIN Value: i
public static final	CMD_VAL_AS400_DATA_TYPE_CCSID Value: c

public static final	CMD_VAL_AS400_DATA_TYPE_DBCS_ASC Value: b
public static final	CMD_VAL_AS400_DATA_TYPE_DBCS_EBC Value: f
public static final	CMD_VAL_AS400_DATA_TYPE_EBC Value: e
public static final	CMD_VAL_AS400_DS_FILE Value: f
public static final	CMD_VAL_AS400_DS_RECORD Value: r
public static final	CMD_VAL_AS400_MODE_BLOCK Value: b
public static final	CMD_VAL_AS400_MODE_STREAM Value: s

Constructor Summary

public	GXAS400Commands()
--------	-----------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

CMD_AS400_DATA_TYPE

public static final java.lang.String **CMD_AS400_DATA_TYPE**

Constant value: **type**

CMD_VAL_AS400_DATA_TYPE_ASC

public static final java.lang.String **CMD_VAL_AS400_DATA_TYPE_ASC**

Constant value: **a**

CMD_VAL_AS400_DATA_TYPE_EBC

public static final java.lang.String **CMD_VAL_AS400_DATA_TYPE_EBC**

Constant value: **e**

CMD_VAL_AS400_DATA_TYPE_BIN

```
public static final java.lang.String CMD_VAL_AS400_DATA_TYPE_BIN
```

Constant value: **i**

CMD_VAL_AS400_DATA_TYPE_DBCS_ASC

```
public static final java.lang.String CMD_VAL_AS400_DATA_TYPE_DBCS_ASC
```

Constant value: **b**

CMD_VAL_AS400_DATA_TYPE_DBCS_EBC

```
public static final java.lang.String CMD_VAL_AS400_DATA_TYPE_DBCS_EBC
```

Constant value: **f**

CMD_VAL_AS400_DATA_TYPE_CCSID

```
public static final java.lang.String CMD_VAL_AS400_DATA_TYPE_CCSID
```

Constant value: **c**

CMD_AS400_MODE

```
public static final java.lang.String CMD_AS400_MODE
```

Constant value: **mode**

CMD_VAL_AS400_MODE_STREAM

```
public static final java.lang.String CMD_VAL_AS400_MODE_STREAM
```

Constant value: **s**

CMD_VAL_AS400_MODE_BLOCK

```
public static final java.lang.String CMD_VAL_AS400_MODE_BLOCK
```

Constant value: **b**

CMD_AS400_DS

```
public static final java.lang.String CMD_AS400_DS
```

Constant value: **struct**

(continued from last page)

CMD_VAL_AS400_DS_FILE

```
public static final java.lang.String CMD_VAL_AS400_DS_FILE
```

Constant value: **f**

CMD_VAL_AS400_DS_RECORD

```
public static final java.lang.String CMD_VAL_AS400_DS_RECORD
```

Constant value: **r**

Constructors

GXAS400Commands

```
public GXAS400Commands()
```

Package

com.sabratec.util.ftp.mainframe

com.sabratec.util.ftp.mainframe Class GXMFCCommands

java.lang.Object

└-com.sabratec.util.ftp.mainframe.GXMFCCommands

public class **GXMFCCommands**
extends Object

This class holds constants for the Mainframe FTP commands and their possible values:

MF designated commands	Possible values	Description
CMD_MF_RECORD_FORMAT	CMD_VAL_MF_RECORD_FORMAT_FIXED	Fixed length block
	CMD_VAL_MF_RECORD_FORMAT_VB	Variable length
CMD_MF_DATA_TYPE	CMD_VAL_MF_DATA_TYPE_ASC	ASCII
	CMD_VAL_MF_DATA_TYPE_BIN	Binary
	CMD_VAL_MF_DATA_TYPE_EBCDIC	EBCDIC
	CMD_VAL_MF_DATA_TYPE_DBCS	Double byte character set
	CMD_VAL_MF_DATA_TYPE_UNICODE_2L	Unicode
	CMD_VAL_MF_DATA_TYPE_UNICODE_2B	Unicode
CMD_MF_BLOCKSIZE	#number of bytes	Block size
CMD_MF_PRIMARY	#number of tracks	Primary space
CMD_MF_SECONDARY	#number of tracks	Secondary space
CMD_MF_LRECL	#number	Logical record length

Field Summary

public static final	CMD_MF_BLOCKSIZE Value: site blocksize=
public static final	CMD_MF_DATA_TYPE Value: type
public static final	CMD_MF_LRECL Value: site lrecl=
public static final	CMD_MF_PRIMARY Value: site primary=
public static final	CMD_MF_RECORD_FORMAT Value: site recfm=
public static final	CMD_MF_SECONDARY Value: site secondary=

public static final	CMD_VAL_MF_DATA_TYPE_ASC Value: a
public static final	CMD_VAL_MF_DATA_TYPE_BIN Value: i
public static final	CMD_VAL_MF_DATA_TYPE_DBCS Value: b
public static final	CMD_VAL_MF_DATA_TYPE_EBCDIC Value: e
public static final	CMD_VAL_MF_DATA_TYPE_UNICODE_2B Value: u 2 b
public static final	CMD_VAL_MF_DATA_TYPE_UNICODE_2L Value: u 2 l
public static final	CMD_VAL_MF_RECORD_FORMAT_FIXED Value: FB
public static final	CMD_VAL_MF_RECORD_FORMAT_VB Value: VB

Constructor Summary

public	GXMFCCommands ()
--------	-----------------------------------

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

CMD_MF_RECORD_FORMAT

public static final java.lang.String **CMD_MF_RECORD_FORMAT**

Constant value: **site recfm=**

CMD_VAL_MF_RECORD_FORMAT_FIXED

public static final java.lang.String **CMD_VAL_MF_RECORD_FORMAT_FIXED**

Constant value: **FB**

(continued from last page)

CMD_VAL_MF_RECORD_FORMAT_VB

```
public static final java.lang.String CMD_VAL_MF_RECORD_FORMAT_VB
```

Constant value: **VB**

CMD_MF_BLOCKSIZE

```
public static final java.lang.String CMD_MF_BLOCKSIZE
```

Constant value: **site blocksize=**

CMD_MF_PRIMARY

```
public static final java.lang.String CMD_MF_PRIMARY
```

Constant value: **site primary=**

CMD_MF_SECONDARY

```
public static final java.lang.String CMD_MF_SECONDARY
```

Constant value: **site secondary=**

CMD_MF_DATA_TYPE

```
public static final java.lang.String CMD_MF_DATA_TYPE
```

Constant value: **type**

CMD_VAL_MF_DATA_TYPE_ASC

```
public static final java.lang.String CMD_VAL_MF_DATA_TYPE_ASC
```

Constant value: **a**

CMD_VAL_MF_DATA_TYPE_BIN

```
public static final java.lang.String CMD_VAL_MF_DATA_TYPE_BIN
```

Constant value: **i**

CMD_VAL_MF_DATA_TYPE_EBCDIC

```
public static final java.lang.String CMD_VAL_MF_DATA_TYPE_EBCDIC
```

Constant value: **e**

CMD_VAL_MF_DATA_TYPE_DBCS

```
public static final java.lang.String CMD_VAL_MF_DATA_TYPE_DBCS
```

(continued from last page)

Constant value: **b**

CMD_VAL_MF_DATA_TYPE_UNICODE_2L

```
public static final java.lang.String CMD_VAL_MF_DATA_TYPE_UNICODE_2L
```

Constant value: **u 2 l**

CMD_VAL_MF_DATA_TYPE_UNICODE_2B

```
public static final java.lang.String CMD_VAL_MF_DATA_TYPE_UNICODE_2B
```

Constant value: **u 2 b**

CMD_MF_LRECL

```
public static final java.lang.String CMD_MF_LRECL
```

Constant value: **site lrecl=**

Constructors

GXMFCmdands

```
public GXMFCmdands()
```

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