ApplinX 9.7.0.0000 API

Specification
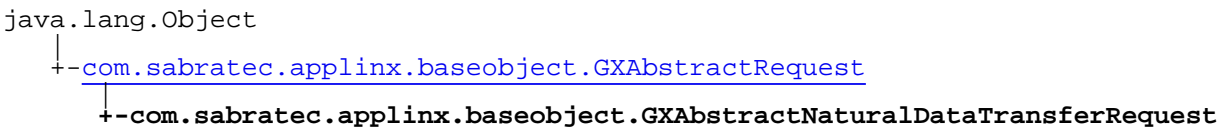
Package
com.sabratec.applinx.baseobject

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

com.sabratec.applinx.baseobject
Class GXAbstractNaturalDataTransferRequest

java.lang.Object

```
   |
   +-com.sabratec.applinx.baseobject.GXAbstractRequest
       |
       +-com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest
```

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**()

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

---

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.

public boolean **isComplete**()

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, 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)
```

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()
```

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

com.sabratec.applinx.baseobject
Class GXAbstractSessionConnectionRequest

```
java.lang.Object
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest
```
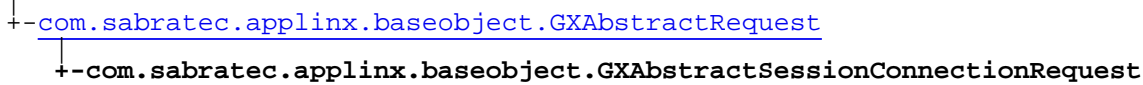
All Implemented Interfaces:
> Cloneable, java.io.Externalizable

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:**

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**(GXIApplicationServerContext serverContext)

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

Parameters:
serverContext - the context to set.

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
```
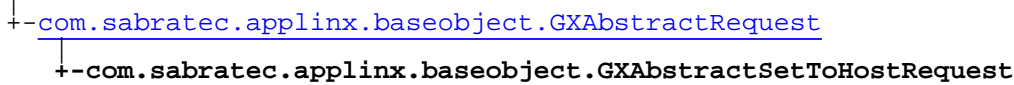
writeExternal

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

com.sabratec.applinx.baseobject
Class GXAbstractSetToHostRequest

```
java.lang.Object
    │
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        │
        +-com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest
```

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)

(continued from last page)

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
```

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:
>   GXIWaitCondition

Direct Known Subclasses:
>   GXWaitHostQuiet, GXAbstractWaitString, GXAbstractWaitScreen, GXAbstractWaitCursor

---

public abstract class **GXAbstractWaitCondition**
extends Object
implements GXIWaitCondition

Abstract class for all wait conditions.

Method Summary

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

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 timout)

---

getFlicker

public long **getFlicker**()

(continued from last page)

setFlicker

```
public void setFlicker(long flicker)
```
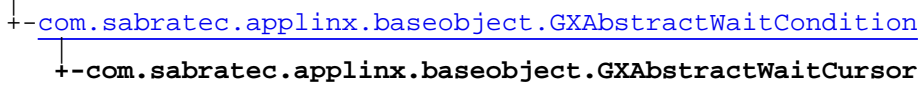
(continued from last page)

setFlicker

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

com.sabratec.applinx.baseobject
Class GXAbstractWaitCursor

```
java.lang.Object
    |
    +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
        |
        +-com.sabratec.applinx.baseobject.GXAbstractWaitCursor
```

All Implemented Interfaces:
   GXIWaitCondition

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)

public void **setUpperLeftPosition**(GXPosition upperLeft)

com.sabratec.applinx.baseobject
Class GXAbstractWaitScreen

```
java.lang.Object
   │
   +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
        │
        +-com.sabratec.applinx.baseobject.GXAbstractWaitScreen
```

All Implemented Interfaces:
GXIWaitCondition

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:

---

screenName - the screen name to set

com.sabratec.applinx.baseobject
Class GXAbstractWaitString

```
java.lang.Object
    |
   +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
        |
       +-com.sabratec.applinx.baseobject.GXAbstractWaitString
```

All Implemented Interfaces:
> GXIWaitCondition

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

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)
```
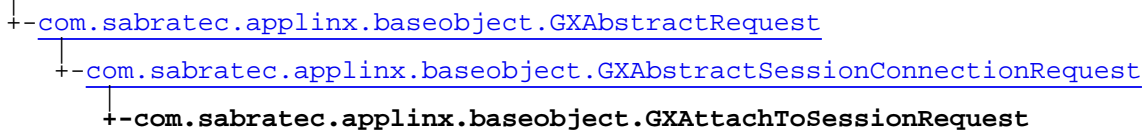
isCaseSensitive

```
public boolean isCaseSensitive()
```

setIsCaseSensitive

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

com.sabratec.applinx.baseobject
Class GXAttachToSessionRequest

```
java.lang.Object
    │
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        │
        +-com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest
            │
            +-com.sabratec.applinx.baseobject.GXAttachToSessionRequest
```

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.buffers**
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.buffers.attributes**	
public static final	GX_VAR_VAL_BUFFERS_NONE	
	No screen buffers are returned.	
	Value: **com.sabratec.applinx.screen.buffers.none**	
public static final	GX_VAR_VAL_BUFFERS_SCREEN_DATA	
	Screen data buffer (the fields' content) is returned.	
	Value: **com.sabratec.applinx.screen.buffers.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**

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.

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.buffers`**

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.buffers.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.

Constant value: **com.sabratec.applinx.screen.buffers.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.buffers.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`**

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**

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**

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

GXBaseObjectConstants

`public` **`GXBaseObjectConstants`**`()`

GXBaseObjectConstants

`public` **`GXBaseObjectConstants`**`()`

com.sabratec.applinx.baseobject
Class GXBinaryRequest
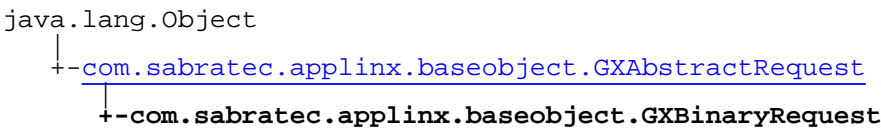
```
java.lang.Object
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXBinaryRequest
```

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**()

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, String langConvType) Create a new client application configuration instance.

Method Summary	
String	getApplicationName()
String	getHostAddress()
String	getHostDeviceName()
String	getHostDeviceType()
String	getKeyboardMappingXML()
String	getLangConvType()
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,
                                     String langConvType)

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**()`

> **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**()`

getLangConvType

`public String **getLangConvType**()`

com.sabratec.applinx.baseobject
Class GXClientBaseObjectFactory

```
java.lang.Object
    │
    +-com.sabratec.applinx.baseobject.GXClientBaseObjectFactory
```

public class **GXClientBaseObjectFactory**
extends Object

Constructor Summary

public	GXClientBaseObjectFactory()

Method Summary

static void	detachSession(GXIReadOnlyBaseObject baseObject)
static void	endSession(GXEndSessionRequest endSessionRequest)
static void	endSession(GXIClientBaseObject baseObject)
static GXIClientBaseObject	getBaseObject(GXAttachToSessionRequest attachRequest)
static GXIClientBaseObject	getBaseObject(GXCreateSessionRequest connectRequest)
static GXIReadOnlyBaseObject	getReadOnlyBaseObject(GXAttachToSessionRequest attachRequest)

Methods inherited from class java.lang.Object

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

Constructors

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
```

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
```

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
   └─com.sabratec.applinx.baseobject.GXAbstractRequest
      └─com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest
         +-com.sabratec.applinx.baseobject.GXCreateSessionRequest
```
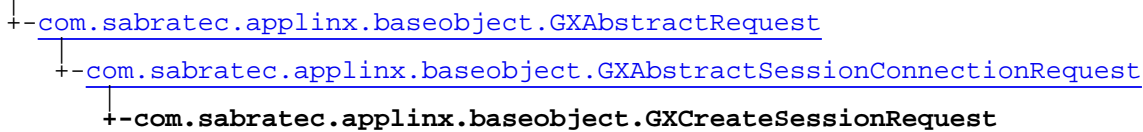
All Implemented Interfaces:
> Cloneable, java.io.Externalizable

---

public class **GXCreateSessionRequest**
extends GXAbstractSessionConnectionRequest

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

Constructor Summary

public	GXCreateSessionRequest()
public	GXCreateSessionRequest(GXIApplicationServerContext 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**()

GXCreateSessionRequest

```
public GXCreateSessionRequest(GXIApplicationServerContext 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:

description - the desciption 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.

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

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

---

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()
```

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractSessionConnectionRequest
            |
            +-com.sabratec.applinx.baseobject.GXEndSessionRequest
```
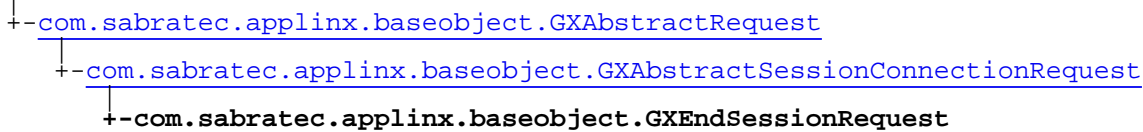
All Implemented Interfaces:
Cloneable, java.io.Externalizable

---

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

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

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**()

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()
```

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.

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
    |
   +-com.sabratec.applinx.baseobject.GXAbstractRequest
         |
         +-com.sabratec.applinx.baseobject.GXGetScreenRequest
```
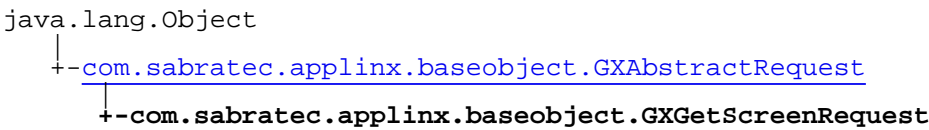
All Implemented Interfaces:
> Cloneable, java.io.Externalizable

---

public class **GXGetScreenRequest**
extends GXAbstractRequest

Settings for the getScreen request.

Constructor Summary

public	GXGetScreenRequest()

Method Summary

void	addWaitCondition(GXIWaitCondition waitCondition) Adds a wait condition to the getScreen request.
GXIWaitCondition[]	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**()

Methods

addWaitCondition

public void **addWaitCondition**(GXIWaitCondition 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 GXIWaitCondition.

Parameters:
waitCondition - the wait condition to add to the request.

getWaitCoditions

public GXIWaitCondition[] **getWaitCoditions**()

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 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* `GXIClientBaseObject.executeProcedure(GXIProcedureRequest, String, String)` *method, or with the* `GXIClientBaseObject.executeProcedure(GXIExtendedProcedureRequest)` *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* `GXIClientBaseObject.getScreen().getTable()` *which returns a table associated with the current screen*
GXITable	**getTable**(GXTableRequest request) **Deprecated.** *Replaced with* `GXIClientBaseObject.executeProcedure` *which returns structured data. Refer to the documentation for further details.*
GXITable	**getTable**(String tableName) **Deprecated.** *Replaced with* `GXIClientBaseObject.executeProcedure` *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 getScreen() 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.

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 GXIProcedureResponse executeProcedure(GXIProcedureRequest 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 GXIProcedureResponse executeProcedure(GXIProcedureRequest request)
   throws GXConnectionException,
          GXGeneralException
```

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

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.*

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.

GXGeneralException - Other errors.

See Also:

GXIReadOnlyBaseObject.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**()

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.

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:
GXFieldCollection

---

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:

---

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

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.
GXNaturalDataTransfer DownloadResponse	`continueDownload()` Continues the download process.
GXNaturalDataTransfer UploadResponse	`continueUpload()` Continues the process of uploading a file.
void	`rejectTransfer()` Sends an indication to the host that a transfer process should be rejected.
GXNaturalDataTransfer DownloadResponse	`startDownload(GXNaturalDataTransferDownloadRequest request)` Starts the download process.
GXNaturalDataTransfer UploadResponse	`startUpload(GXNaturalDataTransferUploadRequest 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 GXNaturalDataTransferDownloadResponse
startDownload(GXNaturalDataTransferDownloadRequest request)
  throws GXConnectionException,
         GXNaturalDataTransferException,
         GXGeneralException

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

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, isWindow

---

Methods

getDataTransferState

public int **getDataTransferState**()

>   Returns the state of the Natural Data Transfer screen.

>   **Returns:**

---

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:
Whetehr 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(GXIReadOnlyBaseObject 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 GXIReadOnlyBaseObject	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 GXIReadOnlyBaseObject **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.

GXGeneralException - other exception thrown in the process.

detachSession

```
public static void detachSession(GXIReadOnlyBaseObject 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)`

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

GXClientApplicationConfig	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.

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:**

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()
GXIHostKey[]	getHostKeys() Gets the host keys associated with this screen.
String	getName()

---

int	`getRows()`
String[]	`getScreenGroupNames()`
int	`getSeqNumber()`
`GXITable`	`getTable()` **Deprecated.** *As of release 8.2.2 HF3, replaced by* `getTables()`
`GXITable[]`	`getTables()` Gets the tables associated with this screen.
`GXIWindow`	`getWindow()` Gets the window associated with this screen.
`GXPosition`	`getWindowLowerRight()` **Deprecated.** *use @see GXIScreen#getWindow() , @see GXIWindow#getBounds()*
`GXIWindow[]`	`getWindows()` Gets an array of the windows associated with this screen, or null if none exist.
`GXPosition`	`getWindowUpperLeft()` **Deprecated.** *use @see GXIScreen#getWindow() , @see GXIWindow#getBounds()*
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	`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 compatability. Equivalent to getBuffers(true).

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.

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:
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.

getFieldContent

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

Parameters:
> `fieldName` - a name of an application field.
> `fieldIndex` - an index of a multiple application field.

(continued from last page)

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 GXIWindow **getWindow**()

Gets the window associated with this screen.

getTable

public GXITable **getTable**()

Deprecated. *As of release 8.2.2 HF3, replaced by* getTables()

Gets the table associated with this screen.

getTables

public GXITable[] **getTables**()

Gets the tables associated with this screen.

getWindows

public GXIWindow[] **getWindows**()

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

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

getHostKeys

public GXIHostKey[] **getHostKeys**()

>   Gets the host keys associated with this screen.

getFieldByCursorPosition

public GXIField **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)

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`, `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 overide 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 overide 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**()

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()](getBounds) method include a border

com.sabratec.applinx.baseobject
Class GXNaturalDataTransferDownloadRequest

java.lang.Object
```
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest
            |
            +-com.sabratec.applinx.baseobject.GXNaturalDataTransferDownloadRequest
```
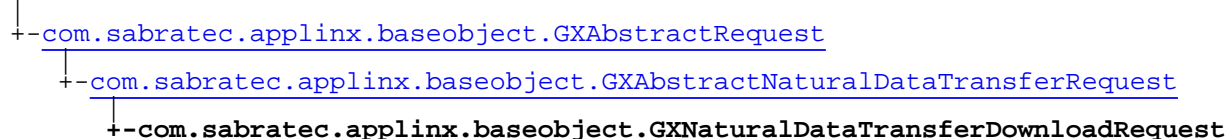
All Implemented Interfaces:
> Cloneable, java.io.Externalizable

---

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

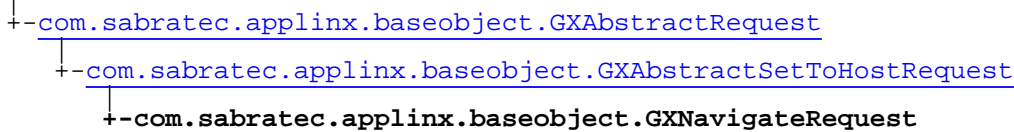| **Methods inherited from class java.lang.Object** |
|---|
| equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait |

Methods inherited from interface java.io.Externalizable
readExternal, writeExternal

Constructors

GXNaturalDataTransferDownloadRequest

```
public GXNaturalDataTransferDownloadRequest()
```

GXNaturalDataTransferDownloadRequest

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

See Also:
> com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest(int)

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

---
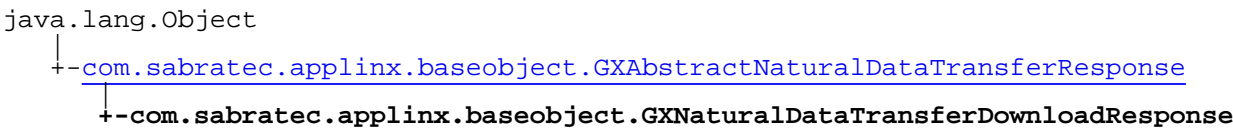
public class **GXNaturalDataTransferDownloadResponse**
extends GXAbstractNaturalDataTransferResponse

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
    │
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        │
        +-com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferRequest
            │
            +-com.sabratec.applinx.baseobject.GXNaturalDataTransferUploadRequest
```

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractNaturalDataTransferResponse
        |
        +-com.sabratec.applinx.baseobject.GXNaturalDataTransferUploadResponse
```

All Implemented Interfaces:
> java.io.Serializable

---
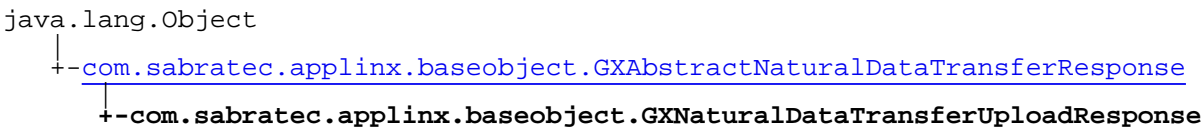
public class **GXNaturalDataTransferUploadResponse**
extends GXAbstractNaturalDataTransferResponse

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
```
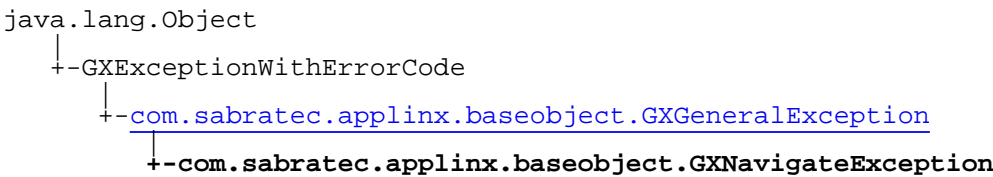
public class **GXNavigateException**
extends GXGeneralException

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest
            |
            +-com.sabratec.applinx.baseobject.GXNavigateRequest
```

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

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
```

(continued from last page)

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

com.sabratec.applinx.baseobject
Class GXPathException

```
java.lang.Object
    │
    +-GXExceptionWithErrorCode
        │
        +-com.sabratec.applinx.baseobject.GXGeneralException
            │
            +-com.sabratec.applinx.baseobject.GXPathException
```
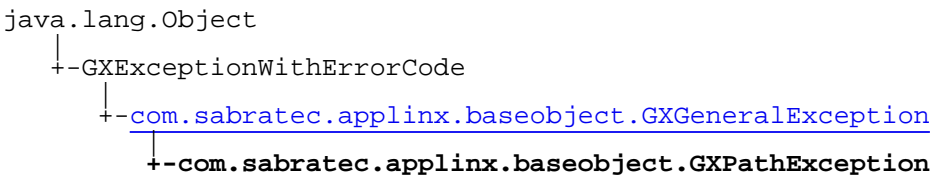
public class **GXPathException**
extends GXGeneralException

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest
            |
            +-com.sabratec.applinx.baseobject.GXPathRequest
```
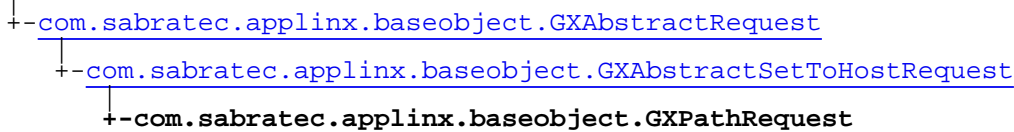
All Implemented Interfaces:
GXDebuggableRequest, Cloneable, java.io.Externalizable

---

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

GXPathRequest

public **GXPathRequest**()

GXPathRequest

public **GXPathRequest**(String pathName)

> **Parameters:**
> > pathName - name of the path to execute.

GXPathRequest

public **GXPathRequest**(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

GXPathResponse

public **GXPathResponse**([GXIScreen\[\]](#) screens,
                         GXVariables variables)

Create a new path response

Parameters:
    screens - the path collected screens
    variables - the path returned variables

GXPathResponse

public **GXPathResponse**()

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**()

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest
            |
            +-com.sabratec.applinx.baseobject.GXSendKeysRequest
```

All Implemented Interfaces:
Cloneable, java.io.Externalizable

---
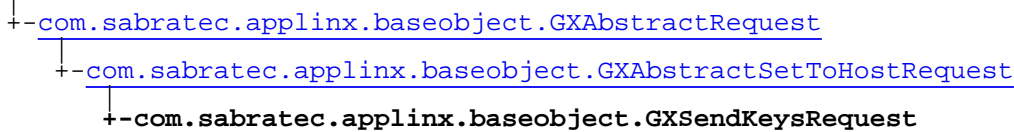
public class **GXSendKeysRequest**
extends GXAbstractSetToHostRequest

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:

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXSetVariablesRequest
```

All Implemented Interfaces:
> Cloneable, java.io.Externalizable

---
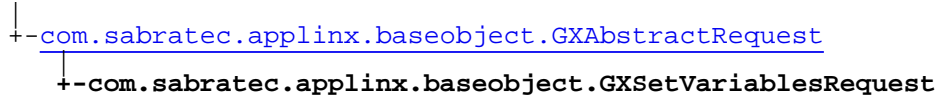
public class **GXSetVariablesRequest**
extends GXAbstractRequest

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

---

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
```

```
public void readExternal(java.io.ObjectInput in)
```

com.sabratec.applinx.baseobject
Class GXTableRequest

```
java.lang.Object
    |
    +-com.sabratec.applinx.baseobject.GXAbstractRequest
        |
        +-com.sabratec.applinx.baseobject.GXAbstractSetToHostRequest
            |
            +-com.sabratec.applinx.baseobject.GXTableRequest
```
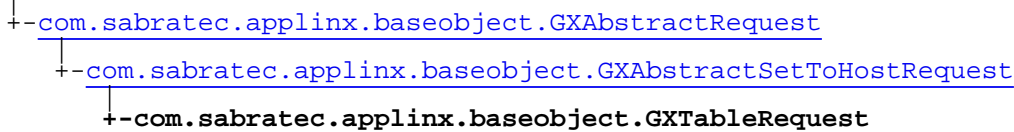
All Implemented Interfaces:
    GXDebuggableRequest, Cloneable, java.io.Externalizable

---

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	**getTableName**()
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

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
```

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)
```

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
        |
        +-com.sabratec.applinx.baseobject.GXAbstractWaitCursor
            |
            +-com.sabratec.applinx.baseobject.GXWaitForCursor
```

All Implemented Interfaces:
> GXIWaitCondition

---
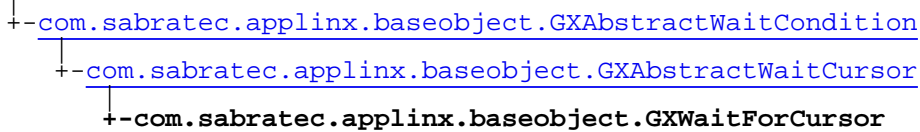
public class **GXWaitForCursor**
extends GXAbstractWaitCursor

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.

---

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:
> GXIWaitCondition

---

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)
```
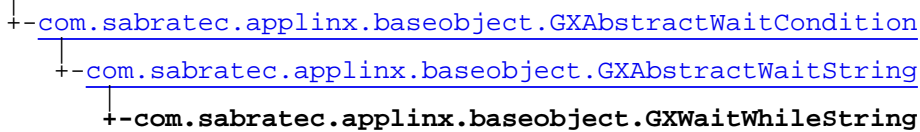
Sets a wait condition that instructs ApplinX server to wait until the screen from the host is identified as the screen with the given name (ID).

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
   |
   +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
      |
      +-com.sabratec.applinx.baseobject.GXAbstractWaitString
         |
         +-com.sabratec.applinx.baseobject.GXWaitForString
```

All Implemented Interfaces:
> GXIWaitCondition

---
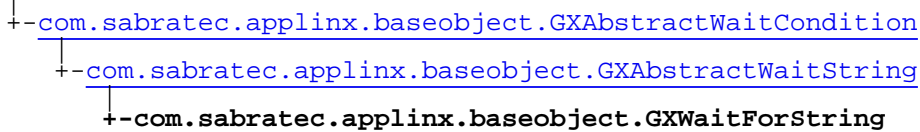
public class **GXWaitForString**
extends GXAbstractWaitString

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.

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
   |
   +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
         |
         +-com.sabratec.applinx.baseobject.GXWaitHostQuiet
```

All Implemented Interfaces:
> GXIWaitCondition

---

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
    |
    +-com.sabratec.applinx.baseobject.GXAbstractWaitCondition
        |
        +-com.sabratec.applinx.baseobject.GXAbstractWaitCursor
            |
            +-com.sabratec.applinx.baseobject.GXWaitWhileCursor
```

All Implemented Interfaces:
> GXIWaitCondition

---
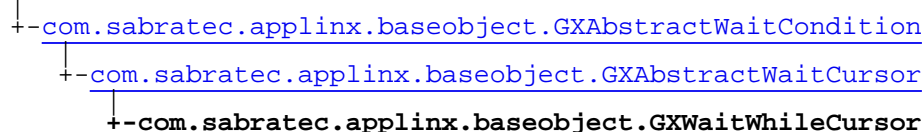
public class **GXWaitWhileCursor**
extends GXAbstractWaitCursor

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.

---

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:
> GXIWaitCondition

---

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:
GXIWaitCondition

---

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.

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 intefaces 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)

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:
> GXIFieldCollectionQuery

---

public class **GXFieldCollectionQueryAppField**
extends Object
implements GXIFieldCollectionQuery

Constructor Summary

public	GXFieldCollectionQueryAppField(String name, int index) Constructor
public	GXFieldCollectionQueryAppField(String name) Constructor

Method Summary

boolean	getFieldMatchQuery(GXIField field) GXIField 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.GXIFieldCollectionQuery`

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)
```

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:
> GXIFieldCollectionQuery

---

public class **GXFieldCollectionQueryProtected**
extends Object
implements GXIFieldCollectionQuery

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.GXIFieldCollectionQuery
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:
> GXFieldCollectionQueryProtected,   GXFieldCollectionQueryAppField

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 intefaces 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	addColumns(String[] columns)
void	createTable(GXIScreen screen)
void	createTable(GXIScreenCollection screenCollection, GXVariables variables)
boolean	equals(Object obj)
GXITableColumnCollection	getColumns()

GXRectangle	getCornersCoordinates()
GXRectangle	getHeaderCoordinates()
String	getName()
GXITableRow	getNewRow()
GXITableColumn[]	getPrimaryKey()
GXITableRowCollection	getRows()
void	readExternal(java.io.ObjectInput in)
void	removeColumn(int columnIndex)
void	removeColumn(String columnName)
void	setCornersCoordinates(GXRectangle corners)
void	setHeaderCoordinates(GXRectangle header)
void	setName(String name)
void	setPrimaryKey(GXITableColumn primaryKey)
void	setPrimaryKey(GXITableColumn[] primaryKey)
void	sort(int[] columnIndices, boolean[] isAscending)
void	sort(int columnIndex, boolean isAscending)
void	sort(String[] columnNames, boolean[] isAscending)
void	sort(String columnName, boolean isAscending)
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.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

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)

addColumns

public void **addColumns**(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)

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**()

---

equals

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

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
```
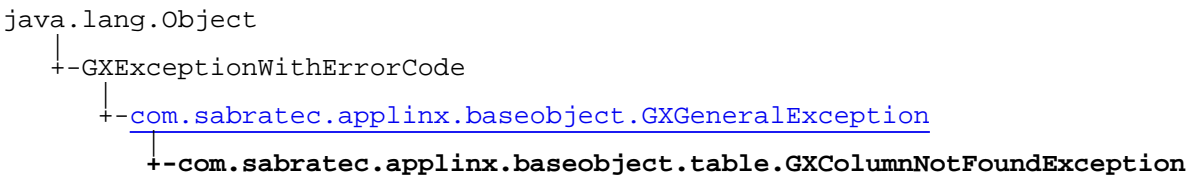
public class **GXColumnNotFoundException**
extends GXGeneralException

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
    │
    +-com.sabratec.applinx.baseobject.table.GXAbstractTable
         │
         +-com.sabratec.applinx.baseobject.table.GXDefaultTable
```
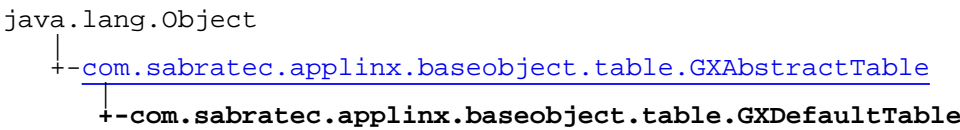
All Implemented Interfaces:
> java.io.Externalizable, GXITable

---

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, 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

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
    |
    +-com.sabratec.applinx.baseobject.table.GXTableCell
         |
         +-com.sabratec.applinx.baseobject.table.GXFieldTableCell
```

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

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**()

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()
```

isAppField

```
public boolean isAppField()
```

isUnderlined

```
public boolean isUnderlined()
```

toString

```
public String toString()
```

isReversedVideo

```
public boolean isReversedVideo()
```

isAppField

```
public boolean isAppField()
```

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

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:

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.

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:

---

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	**addColumns**(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.

addColumns

public void **addColumns**(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.

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.

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**()

setCopyCount

```
public void setCopyCount(int copyCount)
```

getCopyCount

```
public int getCopyCount()
```

setCopyCount

```
public void setCopyCount(int copyCount)
```

com.sabratec.applinx.baseobject.table
Interface GXITableColumnCollection

All Known Implementing Classes:
GXTableColumnCollection

---

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:

`columnName` - the name of the column to remove.

See Also:

GXITable.removeColumn(String)

com.sabratec.applinx.baseobject.table
Interface GXITableRow

All Known Implementing Classes:
GXTableRow

---

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

---

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)
```

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:

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:
GXTableRowCollection

---

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.

See Also:
> `GXIRowsFilter.filter(GXITableRowCollection)`
> `addFilter(GXIRowsFilter)`

---

getItem

```
public GXITableCell getItem(int rowIndex,
        int columnIndex)
```

Parameters:
> `rowIndex` - should range between 0 - rowsCount - 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 - rowsCount - 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 - rowsCount - 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 - rowsCount - 1.
> `columnName` - the name of the column.

Returns:

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 - rowsCount - 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 - rowsCount - 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:

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
    │
    +-com.sabratec.applinx.baseobject.table.GXAbstractTable
            │
            +-com.sabratec.applinx.baseobject.table.GXMasterTable
```

All Implemented Interfaces:
> java.io.Externalizable**,** GXITable

---
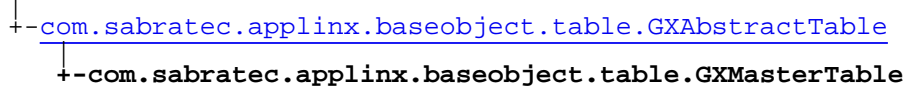
public class **GXMasterTable**
extends GXAbstractTable

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, 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

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
```

readExternal

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

readExternal

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

com.sabratec.applinx.baseobject.table
Class GXMultipleRecordsTable

```
java.lang.Object
    |
    +-com.sabratec.applinx.baseobject.table.GXAbstractTable
        |
        +-com.sabratec.applinx.baseobject.table.GXMultipleRecordsTable
```

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, 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

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
    │
    +-com.sabratec.applinx.baseobject.table.GXAbstractTable
        │
        +-com.sabratec.applinx.baseobject.table.GXPartialRowsTable
```

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

getContent

```
public String getContent()
```

setContent

```
public void setContent(String content)
```

equals

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

```
public String getContent()
```

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	setDataType(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, setDataType, setIsMasterRow, setIsToCopy, setName, setScreenNames, setVariableName

Constructors

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**()

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()
```

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)

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()
```

```
public void removeColumn(String columnName)
```

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[]](GXITableCell) **getItems**()

getItemsContents

public String[] **getItemsContents**()

getItem

public GXITableCell **getItem**(int columnIndex)

getItem

public GXITableCell **getItem**(String columnName)

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)
```

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**()

getRow

public GXITableRow **getRow**(int rowIndex)

addRow

public void **addRow**(GXITableRow row)

removeRow

public void **removeRow**(int rowIndex)

removeRow

public void **removeRow**(GXITableRow row)

addFilter

public void **addFilter**(GXIRowsFilter filter)

getFilters

public GXIRowsFilter[] **getFilters**()

removeFilter

public void **removeFilter**(GXIRowsFilter filter)

filterRows

public GXITableRowCollection **filterRows**()

getItem

public GXITableCell **getItem**(int rowIndex,
        int columnIndex)

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)
```

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()
```

writeExternal

com.sabratec.applinx.baseobject.table
Class GXVariableTableCell

java.lang.Object
```
  |
  +-com.sabratec.applinx.baseobject.table.GXTableCell
        |
        +-com.sabratec.applinx.baseobject.table.GXVariableTableCell
```
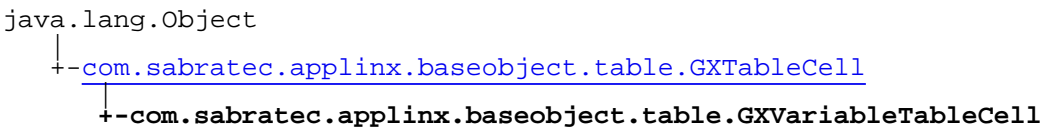
All Implemented Interfaces:
java.io.Serializable, GXITableCell

---

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)

GXVariableTableCell

public **GXVariableTableCell**(GXICellable cellable)

Methods

isProtected

public boolean **isProtected**()

GXVariableTableCell

public **GXVariableTableCell**(GXICellable cellable)

Package

com.sabratec.applinx.baseobject.table.filter

Contains classes and intefaces 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)
```

```
public GXITableRowCollection filter(GXITableRowCollection rows)
```

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)

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_SCREENS 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	IMPORT_APPLICATION_HOST_CATEGORY_UNSUPPORTED Value: **7021**
public static final	INDEXATION_PROCESS_FAILED Value: **7009**
public static final	MAPPING_EXCEEDS_LINE Value: **7007**
public static final	MAPPING_OVERLAP Value: **7005**
public static final	MAPPING_UTILITY_FAILED Value: **7010**
public static final	MESSAGE_PATH_BY_STEP_COMPLETE Value: **4001**
public static final	MESSAGE_PATH_COMPLETE Value: **4002**
public static final	NO_ERROR Value: **0**
public static final	NO_WARNING Value: **0**
public static final	OBJECT_ALREADY_EXISTS Value: **7001**
public static final	OBJECT_NOT_DELETED Value: **7003**
public static final	OBJECT_NOT_FOUND Value: **7002**
public static final	OBJECT_NOT_UPDATED Value: **7003**
public static final	REPOSITORY_NOT_AVAILABLE Value: **7000**
public static final	REPOSITORY_NOT_CREATED Value: **7006**
public static final	REPOSITORY_NOT_SYNCHRONIZED 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`**

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**

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**

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**

Constant value: **5102**

ERROR_CANT_DELETE_ASSIGNED_EXCEPTION_PATH

public static final int **ERROR_CANT_DELETE_ASSIGNED_EXCEPTION_PATH**

Constant value: **5103**

ERROR_PRINTER_CONNECT_ERROR

public static final int **ERROR_PRINTER_CONNECT_ERROR**

Constant value: **5027**

ERROR_EXECUTING_PATH_TYPE_EXCEPTION

public static final int **ERROR_EXECUTING_PATH_TYPE_EXCEPTION**

Constant value: **5028**

ERROR_EXECUTING_PATH_RESOLVE_ACTION

public static final int **ERROR_EXECUTING_PATH_RESOLVE_ACTION**

Constant value: **5029**

ERROR_CURSOR_POSITION_NOT_SET

public static final int **ERROR_CURSOR_POSITION_NOT_SET**

Constant value: **5030**

ERROR_FIELD_CONTENT_NOT_SET

public static final int **ERROR_FIELD_CONTENT_NOT_SET**

Constant value: **5036**

ERROR_REPLAY_DEVICE_INCOMPATIBILITY

public static final int **ERROR_REPLAY_DEVICE_INCOMPATIBILITY**

Constant value: **5037**

ERROR_IMPORT_FILE_REPOSITORY

public 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_SCREENS

public static final int **ERROR_EXECUTING_MAP_NO_PATH_BETWEEN_SCREENS**

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**

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**

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**

Constant value: **7015**

REPOSITORY_NOT_SYNCHRONIZED

public static final int **REPOSITORY_NOT_SYNCHRONIZED**

Constant value: **7016**

UPDATE_NONE_EXISTING_ENTITY

public static final int **UPDATE_NONE_EXISTING_ENTITY**

Constant value: **7017**

FAULTY_SCREEN_IMAGE

public static final int **FAULTY_SCREEN_IMAGE**

Constant value: **7018**

ERROR_SYNCHRONIZING_REPOSITORY

public static final int **ERROR_SYNCHRONIZING_REPOSITORY**

Constant value: **7019**

IMPORT_APPLICATION_CONFIG_MISSING

public static final int **IMPORT_APPLICATION_CONFIG_MISSING**

Constant value: **7020**

IMPORT_APPLICATION_HOST_CATEGORY_UNSUPPORTED

public static final int **IMPORT_APPLICATION_HOST_CATEGORY_UNSUPPORTED**

Constant value: **7021**

IMPORT_APPLICATION_COULD_NOT_RESTORE_OVERRIDEN_APP_FROM_ BACKUP

public static final int **IMPORT_APPLICATION_COULD_NOT_RESTORE_OVERRIDEN_APP_FROM_BACKUP**

Constant value: **7022**

ERROR_RETRIEVING_WSDL_SERVICES

public 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**

(continued from last page)

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

GXResponseCodes

public **GXResponseCodes**()

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.** *Events are capture on the client side. Use GX_CaptureInputTagEvents in _inc_applconf.js*
boolean	get_DesignMode() For .NET framework usage.
String	get_ErrorForm() For .NET framework usage.
int	get_FieldsModification() **Deprecated.** *- ApplinX determines the modified fields both from content difference, and typed fields.*
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 config/gx_clientConfig.xml*	
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 GX_CaptureInputTagEvents in _inc_applconf.js*	
boolean	**getDesignMode**()	
	Get the design of the application, for example: to show the composer link.	
String	**getErrorForm**()	
	The value of the error page.	
int	**getFieldsModification**()	
	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.** *Events are capture on the client side. Use GX_CaptureInputTagEvents in _inc_applconf.js*
void	set_DesignMode(boolean isDesignMode) For .NET framework usage.
void	set_ErrorForm(String errorForm) For .NET framework usage.
void	set_FieldsModification(int fieldsModification) **Deprecated.** *- ApplinX determines the modified fields both from content difference, and typed fields.*
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:

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*

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)`

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()
```

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

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.

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)

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)

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

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:

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**()

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.

set_IndexForm

```
public void set_IndexForm(String indexForm)
```

> For .NET framework usage. Expose the method as a property.

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:

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`**`()`

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.

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`**`()`

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:

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.

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()
```

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.

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.

```
public String get_HostNewPassword()
```

com.sabratec.applinx.framework
Class GXWebAppConfig

```
java.lang.Object
   |
   +-com.sabratec.applinx.framework.GXAppConfig
        |
        +-com.sabratec.applinx.framework.GXWebAppConfig
```
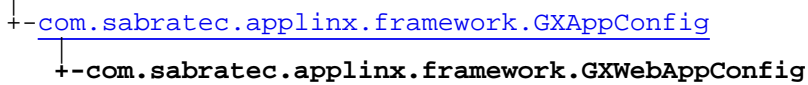
All Implemented Interfaces:
    Cloneable, java.io.Serializable, java.io.Serializable

---

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 gx_container.aspx/jsp emulation frame instead*
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.** *Partial page rendering is always supported*	
String	get_TerminationPath() For .NET framework usage.	
boolean	get_UseCache() **Deprecated.** *For .NET framework usage. Expose the method as a property.*	
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.** *Use gx_container.aspx/jsp emulation frame instead*	
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.** *Always performed*
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 `reflectHostProtected` 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/aspx).
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.** *Partial page rendering is always supported*

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 gx_container.aspx/jsp emulation frame instead*	
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.** *Partial page rendering is always supported*	
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 gx_container.aspx/jsp emulation frame 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 supportPartialPageRendering1)	
	Deprecated. *Partial page rendering is always supported*	
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).	
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**()

> Detrmine the logoff page of the web application
>
> **Returns:**
>   the logoff page of the web application

setLogOffForm

public void **setLogOffForm**(String logOffForm)

> Detrmine the logoff page of the web application

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)`

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:**
>   >   rhe 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

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 seperated 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. Otherwize 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)
```

Determines if to add framework scripts to each page. Otherwize 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()
```

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**()

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)

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 startd 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 startd 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**

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

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.

set_HostAddress

```
public void set_HostAddress(String hostAddress)
```

> For .NET framework usage. Expose the method as a property.

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.

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 (GXSignOnScreenByNameReocognizer) - May accepts a screen name, and optionally user/password field names.

Retrieving the host user name/password from

The user/password retrievring 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 retreived user/password will be passed to one of the following Single SignOn executer:

- Path executer (GXSSOPathExecuter) - Executes the given path with the retrieved user/password
- SendKeys executer (GXSSOSendKeysExecuter) - 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

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 GXAbstractSSOExecuter

```
java.lang.Object
    |
    +-com.sabratec.applinx.framework.sso.GXAbstractSSOExecuter
```

All Implemented Interfaces:
> GXISSOExecuter

Direct Known Subclasses:
> GXSSOSendKeysExecuter, GXSSOPathExecuter

---

public abstract class **GXAbstractSSOExecuter**
extends Object
implements GXISSOExecuter

Constructor Summary

public	GXAbstractSSOExecuter()

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.GXISSOExecuter`

performSingleSignOn

Constructors

GXAbstractSSOExecuter

```
public GXAbstractSSOExecuter()
```

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

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.

isSignOnScreen

public boolean **isSignOnScreen**()

setSignOnScreen

public void **setSignOnScreen**(boolean isSignOnScreen)

com.sabratec.applinx.framework.sso
Class GXSignOnScreenAutomaticRecognizer

```
java.lang.Object
    |
    +-com.sabratec.applinx.framework.sso.GXAbstractSignOnScreenRecognizer
        |
        +-com.sabratec.applinx.framework.sso.GXSignOnScreenAutomaticRecognizer
```

All Implemented Interfaces:
> GXISignOnScreenRecognizer

Direct Known Subclasses:
> GXSignOnScreenByNameRecognizer

---
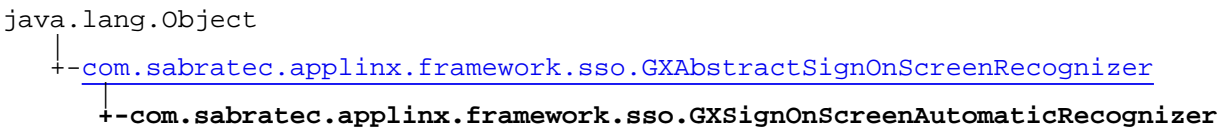
public class **GXSignOnScreenAutomaticRecognizer**
extends GXAbstractSignOnScreenRecognizer

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

---

recognizeScreen

public GXSignOnRecognizerResponse **recognizeScreen**(GXIScreen screen)

recognizeScreen

public GXSignOnRecognizerResponse **recognizeScreen**(GXIScreen screen)

com.sabratec.applinx.framework.sso
Class GXSignOnScreenByNameRecognizer

```
java.lang.Object
    |
    +-com.sabratec.applinx.framework.sso.GXAbstractSignOnScreenRecognizer
        |
        +-com.sabratec.applinx.framework.sso.GXSignOnScreenAutomaticRecognizer
            |
            +-com.sabratec.applinx.framework.sso.GXSignOnScreenByNameRecognizer
```

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 GXIUserPasswordRetriever 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
GXIUserPasswordRetriever	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(GXIUserPasswordRetriever userPasswordRetriever) Determines the type of user/password retriever to use

---

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 [GXIUserPasswordRetriever](#) **getUserPasswordRetriever**()

Determines the type of user/password retriever to use

Returns:
the type of user/password retriever to use

setUserPasswordRetriever

public void **setUserPasswordRetriever**([GXIUserPasswordRetriever](#) 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)

(continued from last page)

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.framework.sso
Class GXSSOPathExecuter

java.lang.Object
```
  |
  +-com.sabratec.applinx.framework.sso.GXAbstractSSOExecuter
        |
        +-com.sabratec.applinx.framework.sso.GXSSOPathExecuter
```

All Implemented Interfaces:
> GXISSOExecuter

---
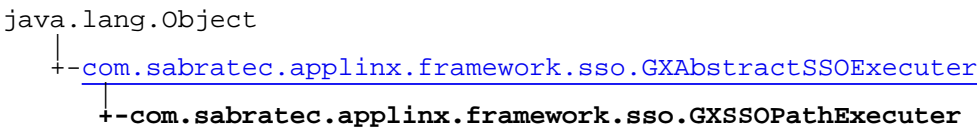
public class **GXSSOPathExecuter**
extends GXAbstractSSOExecuter

This path performs a single signOn according to the speficied 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

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
    |
    +-com.sabratec.applinx.framework.sso.GXAbstractSSOExecuter
          |
          +-com.sabratec.applinx.framework.sso.GXSSOSendKeysExecuter
```

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

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 ReflectHostProtected 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 ReflectHostProtected 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 gx_fillForm.	
boolean	**getReflectFGColor**() Determine if to dynamically add a relevant color css to the page fields when calling gx_fillForm.	
boolean	**getReflectHostProtected**() Determines whether to dynamically change the page input fields to read only when gx_fillForm 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 ReflectHostProtected instead /** @property*	
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 ApplinX server configuration, screen content tab*	
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 AlternateColors 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 ReflectHostProtected parameter.	
void	**setDynamicFieldCheck**(boolean dynamicFieldCheck) **Deprecated.** *Use ReflectHostProtected instead*	
void	**setEncoding**(String encoding) **Deprecated.** *- should no longer be used, UTF-8 is now used when needed.*	
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 gx_fillForm.	

	void	`setReflectFGColor(boolean reflectFGColor)`
		Determine if to dynamically add a relevant color css to the page fields when calling gx_fillForm.
	void	`setReflectHostProtected(boolean reflectHostProtected)`
		Determines whether to dynamically change the page input fields to read only when gx_fillForm 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.

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)

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.

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 ngine

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)

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.

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** <div align=center>Value: **3**</div>
public static final	**LOG_LEVEL_ERROR** <div align=center>Value: **0**</div>
public static final	**LOG_LEVEL_MESSAGE** <div align=center>Value: **2**</div>
public static final	**LOG_LEVEL_WARNING** <div align=center>Value: **1**</div>

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

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

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)

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**()

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.

set_LogoffMessage

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:

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/styles_white.css,css/styles_black.css

Returns:
list of relative css file names seperate by comma

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/styles_white.css,css/styles_black.css

Parameters:
    `colorSets` - list of relative css file names seperate 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()
```

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.

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
    |
    +-com.sabratec.applinx.framework.web.jsengine.GXInstantEmulatorConfig
        |
        +-com.sabratec.applinx.framework.web.jsengine.GXWebEmulatorConfig
```
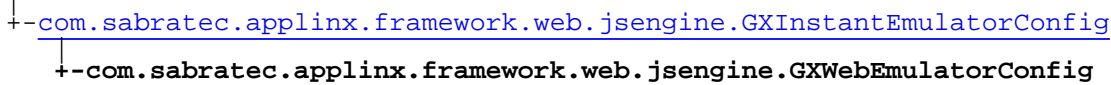
public class **GXWebEmulatorConfig**
extends GXInstantEmulatorConfig

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.** *should be configured for Natrual data transfer or type ahead seperatly*

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.** *should be configured for Natrual data transfer or type ahead seperatly*	
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 gx_window.open
int	getDefaultOpenedWindowLeft() Determines the default window's left position when using the method gx_window.open
int	getDefaultOpenedWindowTop() Determines the default window's top position when using the method gx_window.open
int	getDefaultOpenedWindowWidth() Determines the default window's width when using the method gx_window.open
String	getOpenedWindowAttributes() Determines the opened window's attributes when using the method gx_window.open
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 `gx_window.open`	
void	setDefaultOpenedWindowLeft(int defaultOpenedWindowLeft) Determines the default window's left position when using the method `gx_window.open`	
void	setDefaultOpenedWindowTop(int defaultOpenedWindowTop) Determines the default window's top position when using the method `gx_window.open`	
void	setDefaultOpenedWindowWidth(int defaultOpenedWindowWidth) Determines the default window's width when using the method `gx_window.open`	
void	setOpenedWindowAttributes(String openedWindowAttributes) Determines the opened window's attributes when using the method `gx_window.open`	
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**()

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**()

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.ndt

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:

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.

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.sso

com.sabratec.applinx.framework.web.sso
Class GXAbstractHttpUserPasswordRetriever

```
java.lang.Object
    |
    +-com.sabratec.applinx.framework.web.sso.GXAbstractHttpUserPasswordRetriever
```

All Implemented Interfaces:
> GXIUserPasswordRetriever

Direct Known Subclasses:
> GXHttpSessionUserPasswordRetriever, GXHttpRequestUserPasswordRetriever

---

public abstract class **GXAbstractHttpUserPasswordRetriever**
extends Object
implements GXIUserPasswordRetriever

Constructor Summary

public	GXAbstractHttpUserPasswordRetriever()
public	GXAbstractHttpUserPasswordRetriever(String userParameterName, String passwordParameterName)

Method Summary

void	adoptHttpWrapper(GXIHttpWebWrapper 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.GXIUserPasswordRetriever`

`getPassword, getUserName`

Constructors

GXAbstractHttpUserPasswordRetriever

public **GXAbstractHttpUserPasswordRetriever**()

GXAbstractHttpUserPasswordRetriever

public **GXAbstractHttpUserPasswordRetriever**(String userParameterName,
                                               String passwordParameterName)

Methods

adoptHttpWrapper

public void **adoptHttpWrapper**(GXIHttpWebWrapper 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:
>   GXIUserPasswordRetriever

---

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.GXIUserPasswordRetriever

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
   |
   +-com.sabratec.applinx.framework.web.sso.GXAbstractHttpUserPasswordRetriever
       |
       +-com.sabratec.applinx.framework.web.sso.GXHttpSessionUserPasswordRetriever
```

All Implemented Interfaces:
>   GXIUserPasswordRetriever

---

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.GXIUserPasswordRetriever

getPassword, getUserName

Constructors

GXHttpSessionUserPasswordRetriever

public **GXHttpSessionUserPasswordRetriever**()

GXHttpSessionUserPasswordRetriever

public **GXHttpSessionUserPasswordRetriever**(String userParameterName,
                                              String passwordParameterName)

Methods

getUserName

public String **getUserName**()

getPassword

public String **getPassword**()

public **GXHttpSessionUserPasswordRetriever**(String userParameterName,
                                              String passwordParameterName)

Package

com.sabratec.applinx.presentation

This package and it's 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 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
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 horizonal 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 horizonal 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
GXICompletionListener.

Constructor Summary

public	GXRenderConfig()

Method Summary

void	addCompletionListener(GXICompletionListener 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.	
GXICompletionListener[]	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.	
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		**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)

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.

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**()

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= ~20px.

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= ~20px.

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)

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.

set_GuiElementsConfig

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 length, int fontSize, int precentageFactor)
	This method is used for determine the proportion between a given length & 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

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 length,
        int fontSize,
        int precentageFactor)
```

This method is used for determine the proportion between a given length & font size to actual height in pixels

Parameters:
length - The host field length
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 notifing 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 GXICompletionListener that were registered within the Renderer configuration.
See Also:
> GXICompletionListener, 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

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

getScreenTagModel

public GXIScreenTagModel **getScreenTagModel**()

com.sabratec.applinx.presentation.event
Class GXTagListener

```
java.lang.Object
   |
   +-com.sabratec.applinx.presentation.event.GXTagListener
```

Direct Known Subclasses:
GXSapPortalTransform, GXCisCssTransform

---

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 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.

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

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

onNewTableRow

```
public void onNewTableRow(GXRenderEvent event,
        GXITableRowTag tableRow)
```

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.

Package Specification

FILL IN ANY SPECS NEEDED BY JAVA COMPATIBILITY KIT

- ##### REFER TO ANY FRAMEMAKER SPECIFICATION HERE #####

Related Documentation

For overviews, tutorials, examples, guides, and tool documentation, please see:

- ##### REFER TO NON-SPEC DOCUMENTATION HERE #####

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 rectanglar 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 rectanglar 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

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

find

public GXTagList **find**(GXIScreenTagModel screenTagModel)

Finds tags meeting the specific query criteria.

Parameters:
screenTagModel - the screen tag model.

Returns:
the matching tag list

find

public GXTagList **find**(GXIScreenTagModel screenTagModel)

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 seacrhText)
	The constructor accepts the text to search for.

Method Summary

void	`addSearchText`(String seacrhText)
	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 seacrhText)

> The constructor accepts the text to search for.

> **Parameters:**
>> `seacrhText` - The text to search for.

Methods

addSearchText

public void **addSearchText**(String seacrhText)

Adds the specified search text to searched texts list

Parameters:
seacrhText

---

addSearchText

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,
getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName,
hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength,
setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, setVisible, setVisible

---

Methods

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()
```

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:
GXIImageTag, 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, setVisible, setVisible

Methods

getItems

public GXTextValueList **getItems**()

Returns:
> The text/value list

---

setItems

public void **setItems**(GXTextValueList items)

> Sets a predefined text/value list

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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, setVisible, setVisible

---

Methods

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

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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, setVisible, setVisible

---

Methods

getAlignment

`public int` **`getAlignment`**`()`

Used to determine if the radio button list will be rendered vertically or horizontally

Returns:
veritcal/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

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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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

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

getCaption

`public String `**`getCaption`**`()`

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:

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()
```

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)
```

Add the specified tag to the screen tag model next to the neighboring tag. The added tag will copy it's 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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

setText

```
public void setText(String 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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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.intance().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`, `getOffsetLeft`, `getOffsetRight`, `getOffsetTop`, `getParent`, `getPosition`, `getTagName`, `hasChildren`, `isVisible`, `removeAttribute`, `setAttribute`, `setId`, `setLength`, `setOffsetLeft`, `setOffsetRight`, `setOffsetTop`, `setPosition`, `setPosition`, `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, GXIImageTag, 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	**getOffsetLeft**() Returns the offset left position from the position attribute.

---

double	getOffsetRight() Returns the offset right position.	
double	getOffsetTop() Returns the offset top position from the position 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.	
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	setOffsetLeft(double left) Sets the offset left position.	
void	setOffsetRight(double left) 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	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 convension:

>- 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.

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 then 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 then standard text fields, and the transformation may change this attribute to avoid tags overriding each other.

Returns:
the left position attribute

See Also:
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 left)

> 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)
> > getPosition()

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

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:
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

getHostField

public GXIField **getHostField**()

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.intance().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, getOffsetLeft, getOffsetRight, getOffsetTop, getParent, getPosition, getTagName, hasChildren, isVisible, removeAttribute, setAttribute, setId, setLength, setOffsetLeft, setOffsetRight, setOffsetTop, setPosition, setPosition, 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

---

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

```
public void setPassword(boolean isPassword)
```

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

get

```
public GXITableCellTag 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(GXITableCellTag 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(GXITableCellTag 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

get

```
public GXITableRowTag 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(GXITableRowTag 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(GXITableRowTag 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
```
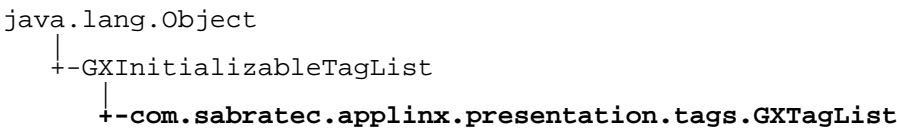
public class **GXTagList**
extends GXInitializableTagList

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

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**

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 functionallity only
 For example, <div>, <font>, <p> etc.

To create a new HTML generic tag, use GXHtmlTagFactory.intance().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	recycle() Recycles the tag in the HTML tag factory
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

---

recycle

public void **recycle**()

Recycles the tag in the HTML tag factory

---

setTagName

```
public void setTagName(String tagName)
```

Sets the concrete tag name.

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.intance().newHiddenTag(...)`

Method Summary

String	[getContent](#)() Returns the value of the hidden tag	
String	[getValue](#)()	
void	[initialize](#)() For internal use	
void	[recycle](#)() 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

> **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

recycle

public void **recycle**()

> 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.intance().newHtmlString(...)`

Method Summary

String	[getContent](#)()
void	[recycle](#)() For internal use
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

---

recycle

public void **recycle**()

For internal use

---

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 (<span>)
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	recycleButton(GXIButtonTag button)	
	Used for recycling the tag.	
void	recycleCheckbox(GXICheckboxTag checkbox)	
	Used for recycling the tag.	
void	recycleCombobox(GXIComboboxTag combobox)	
	Used for recycling the tag.	
void	recycleGenericTag(GXHtmlGenericTag tag)	
	Used for recycling the tag.	
void	recycleHidden(GXHtmlHidden hidden)	
	Used for recycling the tag.	
void	recycleHtmlString(GXHtmlString htmlStringTag)	
	Used for recycling the tag.	
void	recycleImage(GXImageTag image)	
void	recycleLabel(GXILabelTag label)	
	Used for recycling the tag.	
void	recycleLink(GXILinkTag link)	
	Used for recycling the tag.	
void	recycleRadioButton(GXIRadioButtonTag radio)	
	Used for recycling the tag.	
void	recycleRadioButtonGroup(GXIRadioButtonGroupTag radioGroup)	
	Used for recycling the tag.	
void	recycleTable(GXITableTag table)	
	Used for recycling the tag.	
void	recycleTableCell(GXITableCellTag cell)	
	Used for recycling the tag.	
void	recycleTableRow(GXITableRowTag row)	
	Used for recycling the tag.	
void	recycleTextField(GXITextFieldTag textField)	
	Used for recycling the tag.	

Methods inherited from class `java.lang.Object`

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

Methods

instance

public static <ins>GXHtmlTagFactory</ins> **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<TAG NAME>...

Returns:
an instance of the HTML tag factory.

newLabel

public <ins>GXILabelTag</ins> **newLabel**(String text)

Returns a new HTML label tag (<span>)

Parameters:
text - The inner text of the label

Returns:
a new HTML label tag(<span>)

newStaticLabel

public <ins>GXILabelTag</ins> **newStaticLabel**(String text)

newTextField

public <ins>GXITextFieldTag</ins> **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 <ins>GXITableTag</ins> **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 ...>).

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>)

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 (<span>)

---

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">)

---

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

---

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

recycleLabel

public void **recycleLabel**(GXILabelTag label)

Used for recycling the tag.

Parameters:
label - the tag to recycle

recycleTextField

public void **recycleTextField**(GXITextFieldTag textField)

Used for recycling the tag.

Parameters:
textField - the tag to recycle

recycleTable

public void **recycleTable**(GXITableTag table)

Used for recycling the tag.

Parameters:
table - the tag to recycle

recycleTableRow

public void **recycleTableRow**(GXITableRowTag row)

Used for recycling the tag.

Parameters:
row - the tag to recycle

recycleTableCell

public void **recycleTableCell**(GXITableCellTag cell)

Used for recycling the tag.

Parameters:
cell - the tag to recycle

recycleButton

public void **recycleButton**(GXIButtonTag button)

Used for recycling the tag.

Parameters:
button - the tag to recycle

recycleLink

public void **recycleLink**(GXILinkTag link)

Used for recycling the tag.

Parameters:
link - the tag to recycle

recycleCombobox

public void **recycleCombobox**(GXIComboboxTag combobox)

Used for recycling the tag.

Parameters:
combobox - the tag to recycle

recycleRadioButtonGroup

public void **recycleRadioButtonGroup**(GXIRadioButtonGroupTag radioGroup)

Used for recycling the tag.

Parameters:
radioGroup - the tag to recycle

recycleRadioButton

public void **recycleRadioButton**(GXIRadioButtonTag radio)

Used for recycling the tag.

Parameters:
radio - the tag to recycle

recycleGenericTag

public void **recycleGenericTag**(GXHtmlGenericTag tag)

Used for recycling the tag.

Parameters:
    tag - the tag to recycle

recycleHidden

public void **recycleHidden**(GXHtmlHidden hidden)

Used for recycling the tag.

Parameters:
    hidden - the tag to recycle

recycleCheckbox

public void **recycleCheckbox**(GXICheckboxTag checkbox)

Used for recycling the tag.

Parameters:
    checkbox - the tag to recycle

recycleImage

public void **recycleImage**(GXImageTag image)

recycleHtmlString

public void **recycleHtmlString**(GXHtmlString htmlStringTag)

Used for recycling the tag.

Parameters:
    htmlStringTag - the tag to recycle

newTableHeader

public GXITableCellTag **newTableHeader**()

Package

com.sabratec.applinx.presentation.transf orms

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 GXCisCssTransform

```
java.lang.Object
   |
   +-com.sabratec.applinx.presentation.event.GXTagListener
         |
         +-com.sabratec.applinx.presentation.transforms.GXCisCssTransform
```

public class **GXCisCssTransform**
extends GXTagListener

This class is registered from sap portal jsp application

Constructor Summary

public	GXCisCssTransform()

Method Summary

void	onNewButton(GXRenderEvent event, GXIButtonTag button)
void	onNewCheckbox(GXRenderEvent event, GXICheckboxTag checkbox)
void	onNewCombobox(GXRenderEvent event, GXIComboboxTag combox)
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

GXCisCssTransform

```
public GXCisCssTransform()
```

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 combox)
```

Invoked when a combo box has been created. The common usage is for a GUI-element that may be rendered as a combo box.

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.

```
public void onNewRadioButtonGroup(GXRenderEvent event,
        GXIRadioButtonGroupTag radioGroup)
```

com.sabratec.applinx.presentation.transforms
Class GXEmulationTransformConfig

```
java.lang.Object
    |
    +-com.sabratec.applinx.presentation.transforms.GXTransformConfig
        |
        +-com.sabratec.applinx.presentation.transforms.GXEmulationTransformConfig
```

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

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

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

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)

For .NET framework usage. Expose the method as a property.

com.sabratec.applinx.presentation.transforms
Class GXGuiElementsTransformConfig

```
java.lang.Object
    │
    +-com.sabratec.applinx.presentation.transforms.GXTransformConfig
        │
        +-com.sabratec.applinx.presentation.transforms.GXGuiElementsTransformConfig
```

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

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

---

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)
```

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.

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:
> GXICompletionListener

---

public class **GXHebrewTransform**
extends Object
implements GXICompletionListener

Constructor Summary

public	GXHebrewTransform()

Method Summary

void	onComplete(GXRenderEvent event)
static void	splitLabel(GXRenderEvent event, GXILabelTag label)

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.GXICompletionListener`

onComplete

Constructors

GXHebrewTransform

public **GXHebrewTransform**()

Methods

splitLabel

```
public static void splitLabel(GXRenderEvent event,
        GXILabelTag label)
```

---

onComplete

```
public void onComplete(GXRenderEvent event)
```

onComplete

```
public void onComplete(GXRenderEvent event)
```

com.sabratec.applinx.presentation.transforms
Class GXHostKeysTransformConfig

```
java.lang.Object
    |
    +-com.sabratec.applinx.presentation.transforms.GXTransformConfig
          |
          +-com.sabratec.applinx.presentation.transforms.GXHostKeysTransformConfig
```

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**()

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
    |
    +-com.sabratec.applinx.presentation.event.GXTagListener
        |
        +-com.sabratec.applinx.presentation.transforms.GXSapPortalTransform
```

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 combox)
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 combox)
```

Invoked when a combo box has been created. The common usage is for a GUI-element that may be rendered as a combo box.

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.

onNewRadioButtonGroup

```
public void onNewRadioButtonGroup(GXRenderEvent event,
        GXIRadioButtonGroupTag radioGroup)
```

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" then standard label & text field tags. `true` by default. In additional 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

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)

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)

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

GXTransformConstants

```
public GXTransformConstants()
```

GXTransformConstants

```
public GXTransformConstants()
```

com.sabratec.applinx.presentation.transforms
Class GXWindowFrameTransformConfig

java.lang.Object
```
   |
   +-com.sabratec.applinx.presentation.transforms.GXTransformConfig
         |
         +-com.sabratec.applinx.presentation.transforms.GXWindowFrameTransformConfig
```

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)

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

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	[setWaitCondition](#)(int type, String paramString, int intParam1, int intParam2, int caseSensitive, long timeout, long flicker)

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 GXIPrintObjectInterface **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**()

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_TIMEDOUT
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`

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**

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`**

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 buffSize) 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	`isComplete`()	
	Returns true if the print object holds the complete buffer.	
boolean	`isCurrentPrint`()	
	Returns true if this print object is the printer session?s current print object.	
boolean	`isEmpty`()	
	Returns true if the current print object is empty.	
boolean	`isPassThroughData`()	
void	`setCharactersPerLine`(int maxCharactersPerLine)	
	Sets the number of characters per page.	
void	`setLinesPerPage`(int maxLinesPerPage)	
	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 functionallity 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

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

setHref

```
public void setHref(String 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 `onsubmit` 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)
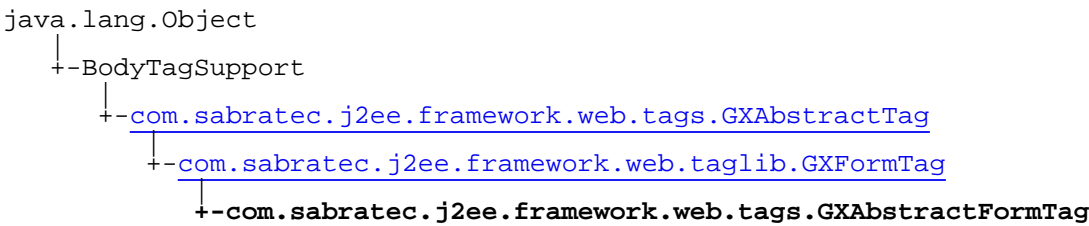
Called by the JSP page for setting the onsubmit attribute to the tag output HTML.

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: **gx_html**

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

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

```
public int doEndTag()
  throws JspTagException
```

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	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

---

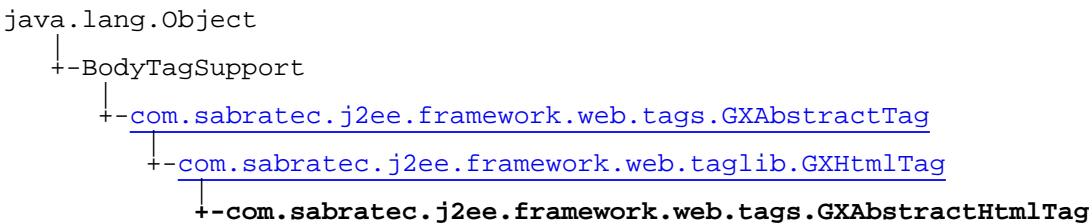## Constructors

GXImageTag

public **GXImageTag**()

Methods

---

setSrc

public void **setSrc**(String value)

setSrc

public void **setSrc**(String 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" onserverclick="<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
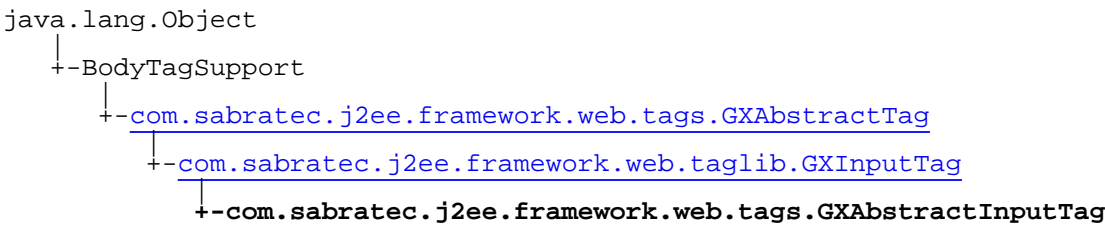
Constructors

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)

setChecked

```
public void setChecked(String value)
```

setChecked

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("", GXINameValueCollection)
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)

getDir

public String **getDir**()

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("", GXINameValueCollection)
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=ï¿½ItemsTableï¿½>
 <tr>
 <th> ItemNumber</th>
 <th> Item Description</th>
 </tr>
 <tr>
 <td id=ï¿½ItemNumberï¿½>dummy data</td>
 <td> <input id=ï¿½ItemDescï¿½ size=ï¿½10ï¿½ value=ï¿½sample dataï¿½> </td>
 </tr>
 </gx:table>
```

The result will be:
```
<table id=ï¿½ItemsTableï¿½>
 <tr>
 <th> ItemNumber</th>
 <th> Item Description</th>
 </tr>
 <tr>
 <td id=ï¿½ItemNumber_000ï¿½>1007</td>
 <td> <input id=ï¿½ItemDesc_000ï¿½ size=ï¿½10ï¿½ value=ï¿½Bananaï¿½/> </td>
 </tr>
 <tr>
 <td id=ï¿½ItemNumber_001ï¿½>1008</td>
 <td> <input id=ï¿½ItemDesc_001ï¿½ size=ï¿½10ï¿½ value=ï¿½Appleï¿½/>
 </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 accesed 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)
```

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()
```

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()
```

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
```
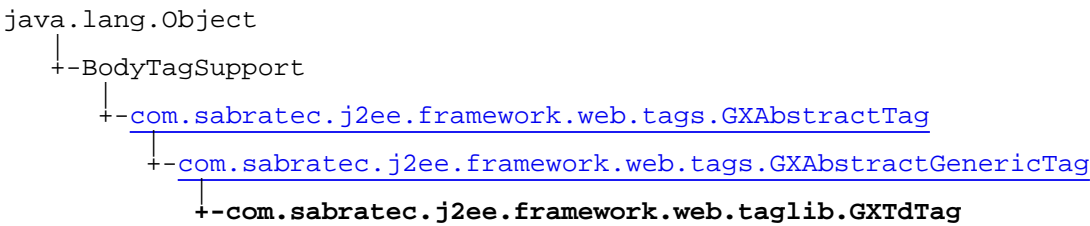
All Implemented Interfaces:
java.io.Serializable

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**()

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 then

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.**

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
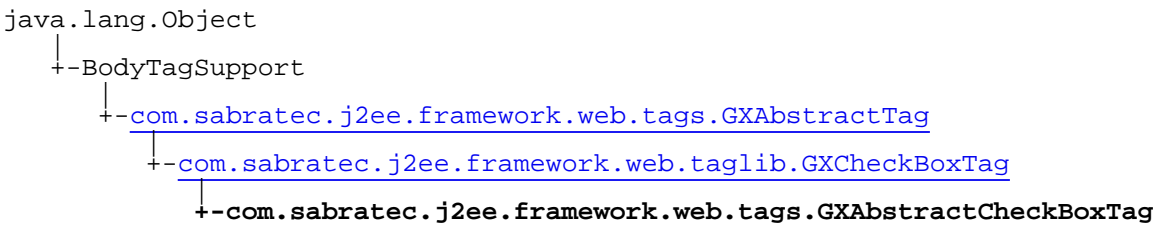
```
java.lang.Object
    │
    +-BodyTagSupport
        │
        +-com.sabratec.j2ee.framework.web.tags.GXAbstractTag
            │
            +-com.sabratec.j2ee.framework.web.taglib.GXCheckBoxTag
                │
                +-com.sabratec.j2ee.framework.web.tags.GXAbstractCheckBoxTag
```

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 then 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 then 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**()

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
```
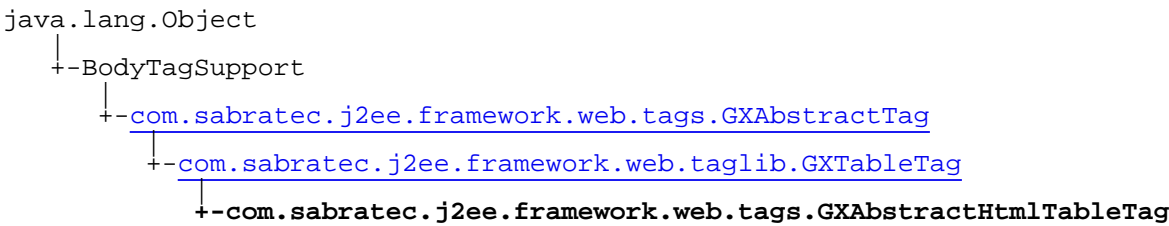
All Implemented Interfaces:
> java.io.Serializable

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 then 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 then 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

GXAbstractHtmlTag

public **GXAbstractHtmlTag**()

> **Deprecated.**

GXAbstractHtmlTag

public **GXAbstractHtmlTag**()

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 then 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 then 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 then 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 then 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, 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 functionallity 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 `BodyTagSupport` 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

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.

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

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

---
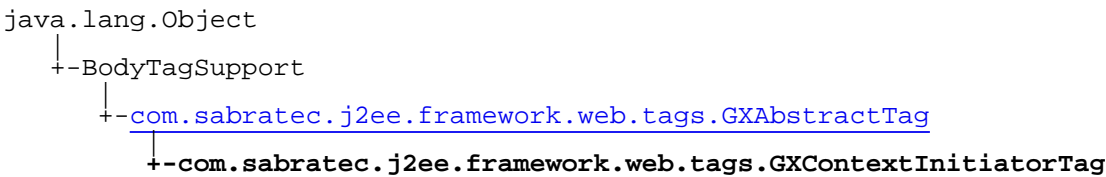
public class **GXContextInitiatorTag**
extends GXAbstractTag

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**()

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
Interface GXITagsAccesor

All Known Implementing Classes:
    GXTagsAccesorImpl

---

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	**getTableName**() 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 addJSToForm(String jsString) - `<script>document.body.<ATTR_NAME> = <ATTR_VALUE>;</script>` 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 setTagList(String*
		    tagId,com.sabratec.applinx.framework.GXINameValueCollection) 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.

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 exsists in gx tag in the JSP page, it will be overriden.

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:

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)
```

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()

---

getTableName

public String **getTableName**()

  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 then 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

AddJSToForm

public void **AddJSToForm**(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 addJSToForm(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

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

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.

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 singletone 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 infomation 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(GXMFCommands.CMD_MF_DATA_TYPE, GXMFCommands.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(GXMFCommands.CMD_MF_DATA_TYPE, GXMFCommands.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

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

GXFtpConsts

public **GXFtpConsts**()

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 explaination of the circumstance.
public	**GXFtpException**(String msg) Constructs new GXFtpException with short explaination of the circumstance.
public	**GXFtpException**(GXFtpReply reply) Convience constructor; Creates new GXFtpException using "Unexpected" as the explaination.

Method Summary

int	**getCode**() Convience method; gets FTP reply code of underlying reply object.
GXFtpReply	**getReply**() Returns reply that caused this exception.
int	**getType**() Convience 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 explaination of the circumstance. The explaination 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 explaination of the circumstance. Useful when there is still no reply from the server

GXFtpException

public **GXFtpException**(GXFtpReply reply)

> Convience constructor; Creates new GXFtpException using "Unexpected" as the explaination.

Methods

getReply

public GXFtpReply **getReply**()

> Returns reply that caused this exception.

> **Returns:**
> > GXFtpReply object that caused exception

getType

public int **getType**()

> Convience 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**()

> Convience 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 singletone 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 (singletone). 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 (singletone).
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

getFile

```
public GXFtpResponse getFile(GXFtpRequest req)
```

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 restof the data is stored using the `setValue()` method and pre defined constants such as:
`setValue(GXMFCommands.CMD_MF_DATA_TYPE, GXMFCommands.CMD_VAL_MF_DATA_TYPE_BIN);`

An initalized 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 constractor

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 constractor

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(GXMFCommands.CMD_MF_DATA_TYPE, GXMFCommands.CMD_VAL_MF_DATA_TYPE_BIN);

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 dowloaded file to Windows/DOS/UNIX file format.
byte[]	[getFileAsByteArr]()
java.io.ByteArrayInputtStream	[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**()

getFileAsInputStream

```
public java.io.ByteArrayInputStream getFileAsInputStream()
```

> For internal use

getFileName

```
public String getFileName()
```

> For internal use

convertTextIfNeeded

```
public void convertTextIfNeeded(String mode)
```

> Converts the dowloaded 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**

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_VAL_AS400_DATA_TYPE_DBCS_ASC	ASCII double byte character set
	CMD_VAL_AS400_DATA_TYPE_DBCS_EBC	EBCDIC double byte character set
	CMD_VAL_AS400_DATA_TYPE_CCSID	Coded character set identifier
CMD_AS400_MODE	CMD_VAL_AS400_MODE_BLOCK	
	CMD_VAL_AS400_MODE_STREAM	
CMD_AS400_DS	CMD_VAL_AS400_DS_FILE	Data structure file
	CMD_VAL_AS400_DS_FILE	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**

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 GXMFCommands

```
java.lang.Object
   │
   +-com.sabratec.util.ftp.mainframe.GXMFCommands
```

public class **GXMFCommands**
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	GXMFCommands()

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**

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

GXMFCommands

`public` **`GXMFCommands`**`()`

Index

H

I

L

S

T

U