

Reference - Broker ActiveX Control

This chapter covers the following topics:

- Methods of Broker ActiveX Control
 - Properties of Broker ActiveX Control
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Methods of Broker ActiveX Control

This section describes the methods of Broker ActiveX Control.

Broker ACI

The following methods are useful for writing applications using the native interface.

Method	Description
BSTR GetReceiveData()	Return the received data inner string
BSTR GetErrorText()	Return the last received error message.
BOOL SetSendDataLong(String, Long) or BOOL SetSendData (String, Short)	Copy user's data buffer into the send buffer.
BOOL InvokeBrokerFunction()	Invoke the broker function call. Set the properties Function and Option.

Transaction Objects

Method	Description
Bool DefineTOMethods(String)	Starts the TO editor. If you specify a valid TOR name, this TO is then loaded into the editor. If a valid TOR name is not specified, the currently loaded TO will be displayed or an empty editor will be started.
Bool LoadTransObject(String)	Loads and initializes a transaction object. You must specify a valid TOR file name; otherwise FALSE will be returned.
Object CreateTransObject(String)	Loads and initializes a transaction object. You must specify a valid TOR file name. An object reference will be returned, which can be used to call the methods defined in the TO. If loading fails, a null reference will be returned.
Object CreateTransObjectSA(String)	This method uses the safe array implementation for arrays instead of the collection implementation. If you experience problems accessing arrays with an automation controller, try using this method to instantiate a TOR object.

Properties of Broker ActiveX Control

Most properties of Broker ActiveX Control correspond to the Broker ACI fields. The properties must be set to the appropriate values before using any function.

If transaction object repository (TOR) files are used, it will not be necessary to set all the properties. See section *Transaction Objects in Broker ActiveX Control*. The properties can also be supplied by means of the property pages (see *Using the Property Pages* in section *Writing Applications - Broker ActiveX Control*).

Property Name	Broker ACI Field	Format	Length	API Version	Description
AdapterError	not used	String	8	2	
AdCount	not used	Long		2	
APIVersion	API-VERSION	Short		2	Possible values: 1, 2, 3, 4, 5, 6, 7, 8, 9. The default is 2. This value can be changed dynamically by setting the property. If the current value of the Function or Option property requires a minimal API version, the value of APIVersion will be adjusted automatically.

Property Name	Broker ACI Field	Format	Length	API Version	Description
BrokerID	BROKER-ID	String	32	1	Target Broker ID. See <i>Using the Broker ID in Applications</i> and details on TCP/IP in <i>Transport Methods</i> for client and server publish and subscribe.
BrokerSecurity	KERNELSECURITY	String	1	7	
ClientUserid	CLIENT-UID	String	32	2	The partner's user ID.
CommitTime	COMMITTIME	String	17	7	Readonly property. Time when UOW was committed. Format: YYYYMMDDHHMMSSms ms = milliseconds in Possible Values field.
CompressLevel	COMPRESSLEVEL	String	1	7	Compression level. Possible values: N/Y/0-9. The first character of the string will be used as the compression value. If you type YES, the character Y will be used and ES will be cut off. Example: Broker1.CompressLevel = "6". See also <i>Data Compression</i> for client and server publish and subscribe.
ConvID	CONV-ID	String	16	1	Conversation ID, see <i>Managing Conversation Contexts</i> .
ConvStatus	CONV-STAT	Short		2	Contains the status of the conversation when the RECEIVE function is complete. See <i>Managing Conversation Contexts</i> . Possible values: 1 NEW 2 OLD 3 NONE
EncryptionLevel	ENCRYPTION-LEVEL	Short		6	Possible values: 0, 1, 2. See <i>Encryption</i> under <i>Writing Applications using EntireX Security</i> .
Environment	ENVIRONMENT	String	32	1	

Property Name	Broker ACI Field	Format	Length	API Version	Description
ErrorCode	ERROR-CODE	String	8	1	Broker error code, see <i>Error Handling</i> for client and server publish and subscribe.
ErrorMsg	not used	String	40	1	Contains the error message to the corresponding error code.
ForceLogon	FORCE-LOGON	Boolean		6	Possible values: Y, N.
Function	FUNCTION Possible values: 1 SEND 2 RECEIVE 4 UNDO 5 EOC 6 REGISTER 7 DEREGISTER 8 VERSION 9 LOGON 10 LOGOFF 13 SYNCPOINT 14 KERNELVERS 17 SEND_PUBLICATION 18 RECEIVE_PUBLICATION 19 SUBSCRIBE 20 UNSUBSCRIBE 21 CONTROL_PUBLICATION	Short		1	The functions to be performed by Broker.
LocaleString	LOCALE-STRING	String	40	4	For sending locale strings to the broker (see <i>Using Internationalization in Writing Applications - Broker ActiveX Control</i>).
MessageId	not used	String	32	2	
MessageType	not used	String	32	2	
NewPassword	NEWPASSWORD	String	32	2	

Property Name	Broker ACI Field	Format	Length	API Version	Description
Option	OPTION Possible values: 0 NULL 1 MSG 2 HOLD 3 IMMED 4 QUIESCE 5 EOC 6 CANCEL 7 LAST 8 NEXT 9 PREVIEW 10 COMMIT 11 BACKOUT 12 SYNC 13 ATTACH 14 DELETE 15 EOCCANCEL 16 QUERY 17 SETUSTATUS 18 ANY 19 no longer used 20 DURABLE 21 CHECKSERVICE	Short		1	
Password	PASSWORD	String	32	1	
ReceiveBufferLength	RECEIVE-LENGTH	Long		3	Length of the receive buffer.
ReceiveBufferSize	RECEIVE-LENGTH	Short		1	This is an old property. Can be used instead of ReceiveBufferLength - for buffers with less than 32 KB only.
ReturnDataLength	RETURN-LENGTH	Long		3	Length of returned data.
ReturnLength	RETURN-LENGTH	Short		1	This is an old property. Can be used instead of ReturnDataLength - for buffers with less than 32 KB only.

Property Name	Broker ACI Field	Format	Length	API Version	Description
SecurityToken	SECURITY-TOKEN	String	32	2	This is handled automatically, but can be filled in by the user if required.
SendBufferSize		Short		1	No longer used.
ServerClass	SERVER-CLASS	String	32	1	These three Broker parameters form the target service.
ServerName	SERVER-NAME	String	32	1	
Service	SERVICE	String	32	1	
Store	STORE	Short		2	Possible values: 0 NULL 1 OFF 2 BROKER
Token	TOKEN	String	32	1	
UOWID	UOWID	String	16	3	
UOWStatus	UOWSTATUS Possible values: 0 NONE 1 RECEIVED 2 ACCEPTED 3 DELIVERED 4 BACKEDOUT 5 PROCESSED 6 CANCELLED 7 TIMEOUT 8 DISCARDED 9 FIRST 10 MIDDLE 11 LAST 12 ONLY	Short		3	
UOWStatusPersist	UOW-STATUS-PERSIST	Short		3	
UOWTime	UOWTIME	String	8	3	
UserData	USER-DATA	String	16	2	This field is not converted by the Broker. If the field contains H'00', only the data up to the first H'00' will be sent.
UserID	USER-ID	String	32	1	User ID.

Property Name	Broker ACI Field	Format	Length	API Version	Description
UserStatus	USTATUS	String	32	3	
Wait	WAIT	String	8	1	Possible values: Yes No <n>S - waiting n Seconds (max 99999) <n>M - waiting n Minutes (Max 99999) <n>H - waiting n Hours (max 99999). See <i>Blocked and Non-blocked Broker Calls</i> .
Topic		String		8	Required for handling with publish and subscribe.
PublicationID		String	16	8	Required for handling with publish and subscribe.
UOWStatusLife		String	8	8	