Software

webMethods EntireX

webMethods Integration Server Wrapper

Version 9.5 SP1

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webMethods EntireX

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webMethods Integration Server Wrapper

The webMethods Integration Server Wrapper generates Integration Server adapter services and listeners from a Software AG IDL file within an Integration Server connection definition.

This document covers the following topics:

Introduction	Introduction to the webMethods Integration Server Wrapper.
Using	How to use the webMethods Integration Server Wrapper.
Data Types Mapping	Software AG IDL to Integration Server Data Types Mapping
Handling SVM Files	A server mapping file (SVM) is used at runtime to marshal and unmarshal the RPC data stream. This document provides information on source control, change management, comparing, etc. of SVM files.
Preferences	Describes the webMethods Integration Server preferences.

1 Introduction to the webMethods Integration Server Wrapper

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Scope

The Integration Server Wrapper provides access to EntireX RPC-based components, ApplinX, IMS Connect, or CICS ECI from Integration Server services. A wizard generates Integration Server objects from a Software AG IDL file.



The Integration Server Wrapper enables users to generate both client and server objects in the Integration Server. A client consists of a connection of type "RPC", "Reliable RPC", "CICS ECI", "Direct RPC", "ApplinX" or "IMS Connect". A server consists of a connection of type "RPC Listener" or "Reliable RPC Listener".



It is possible to create the following objects:

RPC Connection



See Step 4a: Create Adapter Services.

Reliable RPC Connection



See Step 4a: Create Adapter Services.

Connection to IMS Connect



See Step 4a: Create Adapter Services.

CICS ECI Connection



See Step 4a: Create Adapter Services.

RPC Listener

Package			Package
Service	IDL Extractor for Integration Server	Integration Server Wrapper	RPC Listener Connection
	1	2	Listener

- 1. See Using the IDL Extractor for Integration Server.
- 2. See Step 4b: Create an RPC Listener or a Reliable RPC Listener.
- Reliable RPC Listener



- 1. See Using the IDL Extractor for Integration Server.
- 2. See Step 4b: Create an RPC Listener or a Reliable RPC Listener.

Prerequisites

Four components are required for integration:

- the EntireX Adapter installed inside the Integration Server
- the EntireX Broker (not for Direct RPC connections, connections to IMS Connect, or CICS ECI Connections, or ApplinX)
- the EntireX RPC Server (not for Connections to IMS Connect or CICS ECI Connections, or ApplinX)
- the EntireX Workbench for design time (not for ApplinX connections)
 - **Note:** The EntireX Workbench is used at design time. All other components are used also at runtime.

For ApplinX connections we have the following prerequisites:

- the EntireX Adapter installed inside the Integration Server
- the ApplinX server
- the ApplinX Workbench (inside Software AG Designer)

Using the webMethods Integration Server Wrapper

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Step 1: Start the Integration Server Wrapper Wizard

To start the Integration Server Wrapper wizard

1 In the context menu of a Software AG IDL file, choose **Generate webMethods IS Connection from Software AG IDL ...**.

This starts the wizard with a list of existing Integration Server Wrapper connections.



Note: If the selected IDL file is not valid because of a syntax error, an error dialog comes up and the wizard does not start.

2 If you are using the wizard for the first time without any predefined Integration Server connections, continue with *Step 2a: Create a New Integration Server Connection*.

Or:

If **Integration Server Connections** are already defined, or if you want to communicate with an additional Integration Server, continue with *Step 2b: Use an Existing Integration Server Connection*.

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n in the second s	y Import
r.	A Export
	Refresh
-	Validate
	Edit XML Mapping of Software AG IDL
	Test Software AG IDL
	Generate webMethods IS Connection from Software AG IDL
	Generate DCOM from Software AG IDL
	Run As
	Debug As
	Profile As
	T <u>e</u> am ▶
	Comp <u>a</u> re With
	Replace With
	Source
	Generate FIR from Software AG IDL
	Generate COBOL from Software AG IDL
	Generate C from Software AG IDI
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L	P <u>r</u> operties

Step 2a: Create a New Integration Server Connection

Integratio	n Server Wrapper				
Define New Integration Server Connection					
Add host:p specified, t	ort, user and password for a new Integration Server (If no port is				
Server:					
<u>U</u> ser:					
Password:					
🔲 Us <u>e</u> secu	ure connection				
Trustst	ore for HTTPS:				
√ <u>V</u> eri	fy host name				
Client	tAuthentication				
<u>K</u> eyst	ore: Browse				
Pass <u>vi</u>	yord;				
?	< Back Next > Einish Cancel				
•					

To create a new Integration Server connection

1 Define the new Integration Server connection on the wizard page.

Notes:

- 1. The only required field is **Server**. Enter the hostname of the Integration Server including an optional port number. If no port number is specified, port number defaults to "5555". The **Integration Server Authentication** can be passed with the **User** and **Password** fields.
- 2. Optional settings are for secure connections. The **Truststore for HTTPS** contains all signed certificates and must be a valid truststore.
- 3. The check box Verify host name checks that the hostname is entered in the stored certificate.

- 4. When the Integration Server has **Client Authentication** enabled, you can specify your **Keystore** file and keystore **Password**.
- 5. For managing Integration Server connections, see *webMethods Integration Server Preferences*.
- 2 Choose **Next** and continue with *Step 3: Select the Connection Type*.

Step 2b: Use an Existing Integration Server Connection

Integration Server Wrapper	
Create or choose an Integration Server Connection. Connection to localhost:5555 verified.	+
 <u>Create a new Integration Server connection.</u> <u>Choose an existing Integration Server Connection</u> 	
 Iocalhost:5555 - User: Developer Iocalhost:5565 - User: Developer 	
< <u>Back</u> <u>Next > Einish</u>	Cancel

To use an existing Integration Server connection

1 Select **Choose an existing Integration Server Connection** and an Integration Server connection from the list.

The selected connection is verified by a ping command. If the response is valid, the **Next** button is enabled, if not, an error message is displayed.

2 Continue with *Step 3: Select the Connection Type*.

To create an additional Integration Server connection

Select Create a new Integration Server Connection and continue with Step 2a: Create a New Integration Server Connection.

Step 3: Select the Connection Type

The page shown for this step and the instructions given depend on the version of the EntireX Adapter inside the selected Integration Server. The following variants exist:

Select the Connection Type for EntireX Adapter 9.0 or Above

Select the Connection Type for EntireX Adapter 8.2 or Below

Select the Connection Type for EntireX Adapter 9.0 or Above

C	Integration Server Wrapper					
Cr s	Create or Update a Connection Select a connection type to create or select a connection to update					
0	<u>Create a new Integration Server con</u>	nection of type	Entire	X RPC Connection		
() L	Update Adapter Services to an <u>existin</u> ist of Connections	ng Integration Se	rver co	onnection:		
	Connection Name	Package Name		Connection Type	Status	
	EXAMPLE:EXAMPLEConnection	Default		EntireX RPC Connection	enabled	
						Total: 1
(?			< <u>B</u> ack <u>N</u> ext >		Finish Cancel

In this step you can either create a new Integration Server connection or update adapter services to an existing Integration Server connection.

To create a connection for EntireX Adapter 9.0 or above

- 1 Select a connection type from the drop down list.
- 2 Click Next and continue with Step 4a: Define Adapter Services for an RPC Connection

Or:

Step 4b: Define Adapter Services for an RPC Listener or a Reliable RPC Listener, depending on the selected connection type.

To update an existing connection for EntireX Adapter 9.0 or above

1 Select a connection from **List of Connections**.

As a result, you are informed on how many adapter services will be created, modified or left unchanged.

The update process can be characterized as follows:

- For each IDL program the meta data is updated.
- For each new IDL program an adapter service is created.
- An adapter service that has already existed before the update is updated if it is contained in the IDL file for the update.
- A connection remains unchanged with respect to its type and settings (broker ID, server address, user ID, etc.).

2 Click Finish.

Example

A connection is created with IDL programs A and B. Later, the update operation uses IDL programs A and C. After the update, the service for A is modified, the service for B is unchanged, and the service for C is new.

Select the Connection Type for EntireX Adapter 8.2 or Below

Integration Server Wrapper	
Connection type Please choose the Connection type.	
 EntireX RPC Connection EntireX Direct RPC Connection EntireX Reliable RPC Connection EntireX RPC Listener Connection EntireX Direct RPC Listener Connection EntireX Reliable RPC Listener Connection EntireX Reliable RPC Listener Connection EntireX Connect Connection CICS ECI Connection ACI Server Connection 	
< <u>B</u> ack Next >	<u>F</u> inish Cancel

To select a connection type forEntireX Adapter 8.2 or below

1 Select a **Connection type** from the list of available types.

4	Notes:

- 1. Some connection types require a license.
- 2. The connection types for **Reliable RPC** require an IDL file with IN parameters only. If the selected IDL file contains OUT parameters, the connection types for **Reliable RPC** are not available.
- 3. Listeners can be generated only for connection types RPC, Direct RPC and Reliable RPC.
- 2 Click Next and continue with Step 4a: Define Adapter Services for an RPC Connection

Or:

Step 4b: Define Adapter Services for an RPC Listener or a Reliable RPC Listener, depending on the selected connection type.

Step 4a: Define Adapter Services for an RPC Connection

Integration Server	Wrapper	
Define Adapter S	Services for EntireX RPC Connection	
Select a package, na	ame a folder and a connection, and complete the page.	→
Packages on Integra	tion Server localhost:5555	
Default		
WmART		
WmAssetP	ublisher	
wmentirex		Ŧ
F <u>o</u> lder Name:	EXAMPLE	
Connection Name:	EXAMPLEConnection	
RPC Connection to E	EntireX	
<u>B</u> roker ID:	localhost:1971	-
Server Address:	RPC/SRV1/CALLNAT	-
<u>U</u> ser ID:		•
<u>P</u> assword:		
<u>E</u> ncoding:		•
?	< <u>Back</u> <u>N</u> ext > <u>Finish</u>	Cancel

To create a connection and related adapter services:

- Select a package for the created objects.
- Define a folder name. If the folder does not exist, it will be created.
- Define a connection name.

Define the parameters of the connection type. See the EntireX Adapter for Integration Server documentation at *http://documentation.softwareag.com/webmethods/entirex_adapter.htm* for details about these parameters.

As a result, the folder will contain the connection and the adapter services (one for each IDL program). The name of a service is the same as the respective IDL program.

The default settings for new RPC adapter services are:

- the **Default** package; if not available, the first package
- the IDL library name for the Folder Name
- the IDL library name with the suffix "Connection" for the Connection Name
- Notes:
- 1. The check box **Overwrite existing Objects in Integration Server** is useful for re-generating objects created previously. However, you cannot overwrite an RPC Listener Connection or a reliable RPC Listener Connection with a connection of a different type. If the connection is deleted with the Adapter Administration UI, it is not possible to overwrite the objects. In this case, you have to delete the adapter services in the Designer.
- 2. When creating a connection, a package dependency is added such that the selected package depends on webMethods EntireX (the package WmEntireX) with the version currently used.

Step 4b: Define Adapter Services for an RPC Listener or a Reliable RPC Listener

🛃 Integration Server	Wrappe	er						• X	
Define Adapter Select a package, na	Servico ame a fo	es for E Ider and a	EntireX RF	PC L n, and	.isteneı d comple	r Conne te the pa	ection Ige.	4	
Packages on Integra Default WmART WmAssetP	tion Serv ublisher (rer localh	ost:5555					* =	
F <u>o</u> lder Name:	EXAMP	LE1							
Connection Name:	EXAMP	LEConne	ection						
Listener Na <u>m</u> e: <u>T</u> able of IDL Program	EXAMP	PLEListene neir relate	er ed IS Service	5:					
RPC Program Nam	ie	IS Servio	ce Name						
CALC		EXAMPL	E:CALC						
POWER		EXAMP	LE:POWER						
HELLO		EXAMP	LE:HELLO						
RPC Listener Conne	ction to l	EntireX							_
<u>B</u> roker ID:	localho	ost:1971						•	·
<u>S</u> erver Address:	RPC/SF	RV1/CALL	.NAT					•	•
<u>U</u> ser ID:								•	·
Password:]
Encoding:								•	·
?	< <u>B</u> a	ck 📃	<u>N</u> ext >		<u> </u>	ish	C	ancel]

To create an RPC Listener or a Reliable RPC Listener

Select a package for the created objects.

- Define a folder name. If the folder does not exist, it will be created.
- Define a connection name.
- Define a listener name.

As a result, the following objects will be created:

- one connection of type "RPC Listener" or "Reliable RPC Listener"
- one listener object
- and in addition for Reliable RPC Listener:
 - one notification object for each RPC program
 - one trigger object for each RPC program
 - one document type object for each RPC program

The default settings for this page are:

- the Default package; if not available, the first package
- the IDL library name for the Folder Name
- the IDL library name with the suffix "Connection" for the Connection Name
- the IDL library name with the suffix "Listener" for the Listener Name
- in the table that maps RPC Program Name to IS service Name, the IS service must already be defined. Modification is not recommended.
- the Broker ID from the IDL file properties; if there are no properties available, the values from the general Software AG IDL preferences are used
- the Server Address from the IDL file properties; if there are no properties available, the values from the general Software AG IDL preferences are used

Notes:

- 1. The check box **Overwrite existing Objects in Integration Server** is useful for re-generating objects created previously. However, you cannot overwrite an RPC Listener Connection or a reliable RPC Listener Connection with a connection of a different type. If the connection is deleted with the Adapter Administration UI, it is not possible to overwrite the objects. In this case, you have to delete the adapter services in the Designer.
- 2. When creating a connection, a package dependency is added such that the selected package depends on webMethods EntireX (the package WmEntireX) with the version currently used.

Step 5: Finish the Wizard

To finish the Wizard

■ Choose **Finish**.

As a result, the folder contains multiple objects as listed under the corresponding step.

Note: See *Mapping Software AG IDL to Integration Server Data Types.*

Mapping Software AG IDL to Integration Server Data Types

- All primitive data types of the Software AG IDL (except B and BV) are mapped to java.lang.String.
- Only data types B and BV (with or without maximum length) are mapped to byte[].
- With data types N, NU, P, and PU, you have the option to keep or remove leading zeros or the decimal point. Default is to remove leading zeros and to keep the decimal point. This can be configured individually for each adapter service.
- Data types A, K, and U (for fixed length) have the option to keep leading and trailing whitespace characters. Default is to trim these whitespace characters. This can be configured individually for each adapter service.
- Groups are mapped to documents.

3

- One dimensional arrays are mapped to String lists (java.lang.String[]).
- Two dimensional arrays are mapped to String tables (java.lang.String[][]).
- Three dimensional arrays are mapped to java.lang.String[][][].
- Data type D: the format of the string in the pipeline is java.text.DateFormat.getDateInstance(DateFormat.MEDIUM, Locale.ENGLISH).format(date)), where date is of type java.util.Date.
- Data type T: the format of the string in the pipeline is java.text.DateFormat.getDateTimeInstance(DateFormat.MEDIUM, DateFormat.MEDIUM, Locale.ENGLISH).format(date)), where date is of type java.util.Date.



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A server mapping file (SVM) enables the RPC server to correctly support special COBOL syntax such as REDEFINES, JUSTIFIED, SYNCHRONIZE and OCCURS DEPENDING ON clauses, LEVEL-88 fields, etc. If one of these elements is used, the EntireX Workbench automatically extracts an SVM file in addition to the IDL (interface definition language), or an SVM file is generated by the COBOL Wrapper for a server skeleton. The SVM file is used at runtime to marshal and unmarshal the RPC data stream.

SVM Files in the EntireX Workbench

In the *EntireX Workbench*, an SVM file has to relate to an appropriate IDL file. Therefore, you always have to keep the IDL file and the SVM file together in the same folder.

If there is an SVM file and a corresponding IDL file,

- at least one of the IDL programs in the corresponding IDL file requires server-mapping information to correctly call the target server. For those IDL programs, there is an SVM entry (line) in the Workbench SVM file.
- deployment of the SVM file to the RPC server is mandatory, see *Server Mapping Deployment*.

If there is an IDL file but no corresponding SVM file,

there is no IDL program that requires server mapping information.

SVM Files in EntireX Adapter

SVM files may be used for IMS Connect and CICS ECI connections only. For other connections they are not used; the SVM files are wrapped into the Integration Server adapter service itself.

Do not change the location of the generated SVM file. It has to be kept in the same folder as the IDL file and will be picked up automatically together with the IDL file when an adapter connection for IMS Connect or CICS ECI is generated.

Source Control of SVM Files

Because SVM entries within an SVM file contain text data only, a Workbench SVM file is textbased (although it is not intended for human consumption). Therefore, you can include it in your source control management together with the IDL file and the COBOL source(s) as a triplet that should always be kept in sync.

Compare SVM Files

For SVM files in the *EntireX Workbench* format, you can use a third party file/text compare tool to check if two files are identical.

The SVM entries (corresponding to lines in a Workbench SVM file) contain a creation timestamp at offset 276 (decimal) in the format YYYYMMDDHHIISST. The precision is 1/10 of a second.

When is an SVM File Required?

For the IDL Extractor for COBOL

Interface Type	COBOL Syntax	COBOL Mapping Editor	SVM Required	More Information
CICS with DFHCOMMAREA Calling Convention and IN different to OUT	all		yes	CICS with DFHCOMMAREA Calling Convention under Introduction to the IDL Extractor for COBOL CICS DFHCOMMAREA under COBOL Parameter Selection
CICS Channel Container Calling Convention	all		yes	CICS with Channel Container Calling Convention
CICS with DFHCOMMAREA Large Buffer Interface	all		yes	CICS with DFHCOMMAREA Large Buffer Interface
IMS MPP Message Interface (IMS Connect)	all		yes	IMS MPP Message Interface (IMS Connect)
IMS BMP with Standard Linkage Calling Convention	all		yes	IMS BMP with Standard Linkage Calling Convention
Micro Focus with Standard Linkage Calling Convention	BINARY clause		yes	Micro Focus with Standard Linkage Calling Convention
all	OCCURS DEPENDING ON clause		yes	<i>Tables with Variable Size - DEPENDING</i> <i>ON Clause</i> under <i>COBOL to IDL Mapping</i> in the IDL Extractor for COBOL documentation
all	REDEFINES clause		yes	REDEFINE Clause

Interface Type	COBOL Syntax	COBOL Mapping Editor	SVM Required	More Information
all	TRAILING [SEPARATE] clause		yes	SIGN LEADING and TRAILING SEPARATE Clause
all	LEADING [SEPARATE] clause		yes	SIGN LEADING and TRAILING SEPARATE Clause
all	ALIGNED RIGHT attribute		yes	
all	all	Rename of program	yes	<i>The Software AG IDL Tree Pane</i> under <i>Mapping Editor User Interface</i> in the IDL Extractor for COBOL documentation
all	all	Map to operation	yes	Context Menu under The COBOL Parameters Pane
all	all	Map to constant	yes	Context Menu
all	all	Suppress	yes	Context Menu
other	combinations		no	

For the COBOL Wrapper

This depends on the interface type chosen and the IDL type:

Interface Type	IDL Type	COBOL Wrapper	SVM Required	More Information
CICS with DFHCOMMAREA Large Buffer Interface	all		yes	CICS with DFHCOMMAREA Large Buffer Interface under COBOL Server Interface Types
CICS with Channel Container Calling Convention	all		yes	CICS with Channel Container Calling Convention
IMS BMP with Standard Linkage Calling Convention	all		yes	IMS BMP with Standard Linkage Calling Convention
Micro Focus	I2 or I4		yes	Micro Focus with Standard Linkage Calling Convention IDL Data Types under Software AG IDL File in the IDL Editor documentation
all	IDL unbounded array		yes	array-definition under <i>Software AG</i> <i>IDL Grammar</i> in the <i>IDL Editor</i> documentation

Interface Type	IDL Type	COBOL Wrapper	SVM Required	More Information
all	IDL unbounded group		yes	group-parameter-definition under Software AG IDL Grammar in the IDL Editor documentation
all	all	IDL program name is not a valid COBOL name and is therefore adapted, or the COBOL program name is customized	yes	Customize Automatically Generated Server Names
other combina	ations		no	

Is There a Way to Smoothly Introduce SVM Files?

All EntireX RPC servers can be executed without SVM files. There is no need to install the SVM container (see *SVM Files in EntireX Adapter*) as long as you do not use features that require SVM files (see *When is an SVM File Required?*). You can also call COBOL servers generated or extracted with previous versions of EntireX mixed with a COBOL server that requires SVM files. All EntireX RPC servers are backward compatible.

webMethods Integration Server Preferences

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The Integration Server preferences are used to manage Integration Server connections. This chapter applies both to the Integration Server Wrapper and the IDL Extractor for Integration Server.

Integration Server Connections

The Integration Server connections are responsible for the HTTP/HTTPS communication to the Integration Server. They are used in the wizards described in *Using the Integration Server Wrapper* and *Using the IDL Extractor for Integration Server* and are managed in the Integration Server preferences.

An Integration Server connection contains the following information:

- Server name (required, consists of hostname and optional port number, where the default port number is 5555)
- User name
- Password
- optional parameters for SSL (HTTPS):
 - Truststore (name of the file)
 - Verify hostname
 - Optional parameters for client verification:
 - Keystore (name of the file)
 - Password for the Keystore

This information can be specified in the following dialog:

🖨 Integr	ation	Server C	Connection 🔀
Integrat Edit an In	ion S _{itegrati}	erver C on Server (onnection
<u>S</u> erver:	loc	alhost:666	5
<u>U</u> ser: <u>P</u> assword:	Ad	ministrator	
Us <u>e</u> se <u>T</u> rusts	cure co ;tore fo	nnection r HTTPS:	C:\Program Files\Software AG\EntireX\Etc\ExxJavaAppCert.jks Browse
_ ✓ <u>V</u> e	rify hos	t name	
	store:		B <u>r</u> owse
Pass	s <u>w</u> ord:		
			OK Cancel

Notes:

- 1. The only required field is **Server**. Enter the hostname of the Integration Server including an optional port number. If no port number is specified, port number defaults to "5555". The **Integration Server Authentication** can be passed with the **User** and **Password** fields.
- 2. Optional settings are for secure connections. The **Truststore for HTTPS** contains all signed certificates and must be a valid truststore.
- 3. The check box **Verify host name** checks that the hostname is entered in the stored certificate.
- 4. When the Integration Server has **Client Authentication** enabled, you can specify your **Keystore** file and keystore **Password**.
- 5. For managing Integration Server connections, see *webMethods Integration Server Preferences*.

Setting Integration Server Preferences

be filter text		Integration Server		⇔ - ⊂
Software AG	^	Manage the Integration Serv	er Connections	
		Server	User	Add.
COBOL Wrapper		localhost:5555	Administrator	
Custom Wrapper		🔓 localhost:6666	Administrator	<u>E</u> dit.
DCOM Wrapper				Remo
Deployment Environments				<u>Licence</u>
- EJB Wrapper				
IDL Extractor for COBOL				
IDL Extractor for Natural				
IDL Extractor for PL/I				
Installation				
Integration Server				
Java Wrapper				
PL/I Wrapper				
····· XML Mapping Editor				
Proxy Settings				
UDDI Registries				
	~			

To add, edit or remove Integration Server connections

• Open the Preferences page and choose **Add...**, **Edit...** or **Remove**.

All changes in the table will be stored permanently after leaving the preferences with **OK**.

Caution: The creation of duplicates is forbidden. A duplicate will be detected if server (including port number, for instance the default "5555"), user and truststore file have the same name.