

webMethods EntireX

EntireX Glossary

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EntireX Glossary

A

Accounting	Accounting in EntireX refers to the handling of accounting records for EntireX Broker that can be used for several purposes, including application chargeback (for apportioning EntireX resource consumption); performance measurement and trend analysis.
ACI	Advanced communication interface. ACI-based programming is the base technology of EntireX. It uses a traditional Application Programming Interface (API) approach for conducting client/server and peer-to-peer dialog between distributed processes.
ACI Binary Field	An ACI binary field is a field that is transmitted in the ACI binary data section of an ACI request or reply. It has an associated 2-byte identifier and is transmitted as binary data.
ACI Control Block	The fields contained in the control block of the EntireX Advanced Communication Interface (ACI) define the Broker functions to be performed.
ACI Reply	An ACI reply is a PDU that is transmitted between the broker kernel and a stub. It consists of an optional transport header, an SPFX (stub prefix) and various other sections.
ACI Request	An ACI request is a protocol data unit (PDU) that is transmitted between a stub and the broker kernel. It consists of an optional transport header, an SPFX (stub prefix) and various other sections.
ACI Server	An ACI server is a customer-written server program that uses ACI commands to call ACI services.
ACI Service	An ACI service is a customer-written service contained in or called by an ACI server.

ACI String Field	An ACI string field is a field of the form <code>keyword=value</code> that is transmitted in the ACI string data section of an ACI request or reply. It is transmitted in the single-byte character set of the stub.
ADALNK	ADALNK is an Adabas module used by Entire Net-Work, which is an alternative transport method to TCP/IP.
Advanced Communication Interface	See ACI .
Application Monitoring	Application Monitoring is an EntireX feature that enables you to monitor the response times in your distributed applications, and it also enables you to monitor certain error situations. The EntireX Application Monitoring Data Collector collects the response time data of each involved software component of selected synchronous EntireX RPC services. The Application Monitoring Data Collector stores the KPI values in CSV (comma-separated values) files. The files can be processed by any tool that supports CSV files. A sample MashApp is also provided.
Attach Server	An attach server is a server that registers with the EntireX Broker, can offer any of a range of services but never actually receives a request for a client application. When client requests cannot be satisfied due to busy or unavailable servers, the Broker notifies the attach server which starts another instance of the required service.
Attribute File	The Broker attribute file contains a series of parameters (attributes) that control the availability and characteristics of clients and servers, publishers and subscribers as well as of the Broker itself. You can customize the Broker environment by modifying the attribute settings.
Authentication	Authentication is the process by which the security system verifies that a client is actually who they claim to be. Authentication is performed at the user point of entry, which avoids the need for multiple sign-ons to the different security systems. The result of the authentication is propagated for use in the authorization process on the server side without the need to pass the user's password at execution time, even in an encrypted form.
Authorization	Authorization is the process whereby a client's access rights to a specific service are verified. If you are using the System Authorization Facility (SAF) option, the authorization rules are stored in the server's native security system.
Authorization Rule	An authorization rule is used to perform an access check for a particular Broker instance against an (authenticated) user ID and list of

rules. Checks are performed on a UNIX or Windows Broker kernel, using standard EntireX Security on these platforms. Authorization rules can be stored within a repository. When an authorization call occurs, the security exit performs checks based on the values of Broker attributes `AUTHORIZATIONDEFAULT` and `AUTHORIZATIONRULE`.

B

Batch RPC Server	The EntireX z/VSE Batch RPC Server allows standard RPC clients to communicate with RPC servers on the operating system z/VSE under Batch. It supports the programming language COBOL and works together with the <i>COBOL Wrapper</i> and <i>IDL Extractor for COBOL</i> .
Batch RPC Server	The EntireX z/OS Batch RPC Server allows standard RPC clients to communicate with RPC servers on the operating system z/OS running in batch mode. It supports the programming languages COBOL, PL/I and C.
Broker	EntireX Broker controls communication among the distributed application components within your IT architecture. The Broker supports many types of communication models: synchronous and asynchronous, client/server, peer-to-peer, publish and subscribe. The Broker also handles RPC communication.
Broker ACI	See ACI .
Broker ActiveX Control	Broker ActiveX Control allows GUI application developers to use an ActiveX-based interface to access EntireX Broker. It can be used within ActiveX containers, such as Visual Basic, PowerBuilder, Delphi, Microsoft Excel, Microsoft Word.
Broker Administration Tool	With the Broker Administration Tool you can manage Broker instances on your local Windows machine.
Broker Agent	A broker agent is a “dummy broker” that acts as a transport protocol converter or relay node for broker calls. See also Broker HTTP(S) Agent , Broker SSL Agent , Broker TCP Agent .
Broker Attribute File	The Broker attribute file contains a series of parameters (attributes) that control the availability and characteristics of clients and servers, publishers and subscribers as well as of the Broker itself. You can customize the Broker environment by modifying the attribute settings.

Broker Command Line Utility	<p>Software AG provides two command-line utility programs for use with EntireX Broker. Both utility programs use command-line parameters that specify various options and information to be built into a request. These utility programs are <code>ETBINFO</code> and <code>ETBCMD</code>.</p> <ul style="list-style-type: none">■ The command-line utility <code>ETBINFO</code> queries the Broker for different types of information, generating an output text string with basic formatting. This text output can be further processed by script languages. <code>ETBINFO</code> uses data descriptions called profiles to control the type of data that is returned for a request. <code>ETBINFO</code> is useful for monitoring and administering EntireX Broker efficiently - for example, how many users are to run concurrently and whether the number of specified message containers is large enough.■ The command-line utility <code>ETBCMD</code> allows you to take actions - for example, purge a unit of work, stop a server, shut down a Broker - against EntireX Broker.
Broker HTTP(S) Agent	<p>The Broker HTTP(S) Agent is a Java-based component that implements a Java servlet for servlet-enabled Web servers. It builds the bridge between a Web server and EntireX Broker in the intranet. This component was formerly referred to as "Tunnel Servlet".</p>
Broker Kernel	<p>The role of the Broker kernel is to control communication among distributed application components. It supports many types of communication models (asynchronous and synchronous, conversational, request/reply, message-oriented and publish and subscribe) to support a wide variety of application integration requirements. The Broker kernel shields the communicating programs from platform and language-specific issues by mapping requests and replies to its interface programs, the ACI stubs.</p>
Broker SSL Agent	<p>The Broker SSL Agent is a gateway to the broker whenever direct SSL or TLS communication with the broker is not possible.</p>
Broker Stub	<p>A Broker stub is a ready-made module/class delivered with EntireX to communicate with a Broker. It is platform-dependent, but application independent. A Broker Stub implements an API (application programming interface) that allows programs written in Java, C#, C, Natural, and IBM i ILE-enabled languages (C, COBOL, Natural, RPG) to access the EntireX Broker. A Broker stub can communicate with an EntireX Broker using either TCP/IP, SSL (and TLS), or Entire Net-Work. Stubs are required for RPC and message-based communication.</p>

In earlier versions of EntireX, the term "stub" was also used to refer to application-dependent, Workbench-generated pieces of code for issuing and receiving remote procedure calls. These objects are now referred to as *interface objects*.

Broker TCP Agent	The Broker TCP Agent is a gateway to the broker whenever direct TCP/IP communication with the broker is not possible.
Broker Trace Utility	See EntireX Trace Utility .
Broker Tutorial	EntireX Broker is delivered with a Natural-based tutorial that can help you get started with the EntireX Broker by trying out some of its functions. The tutorial contains several example client and appropriate server programs. All programs can be displayed, edited and executed. Help texts are available for each program to explain the purpose of the program and to indicate typical usage. The programs therefore illustrate the use and functionality of the EntireX Broker ACI.

C

C Wrapper	EntireX C Wrapper provides access to RPC-based components from C applications. It enables you to develop both client and server applications.
CCB	Conversation control block. In the context of persistence in EntireX, part of the UOW (unit of work).
CentraSite	CentraSite is a jointly developed SOA repository from Fujitsu and Software AG. CentraSite acts as a Web services and SOA asset management platform, holding all metadata assets, and offering reports on usage.
CICS ECI RPC Server	The EntireX CICS® ECI RPC Server allows standard RPC clients to communicate with CICS programs running on IBM CICS® version 3.2 and higher. The CICS ECI RPC Server transforms the RPCs from the clients into messages to CICS ECI. The CICS ECI RPC Server acts on one side as an RPC server and on the other side as a client for CICS ECI. The CICS ECI RPC Server is a Java-based component that can run on a different host to the one where CICS is running. This allows it to operate with a zero footprint of EntireX on the CICS host.
CICS RPC Server	The EntireX z/VSE CICS® RPC Server allows standard RPC clients to communicate with RPC servers on the operating system z/VSE under CICS. It supports the programming language COBOL.

CICS RPC Server	The EntireX z/OS CICS® RPC Server allows standard RPC clients to communicate with RPC servers on the operating system z/OS under CICS. It supports the programming languages COBOL and PL/I.
Client	Within EntireX Broker nomenclature, a client is an application issuing Broker requests to get a service processed by a server.
Client Program	A client program is a piece of software that issues a request and thus initiates communication. A client program uses a Broker stub.
Client-side Mapping File	<p>A client-side mapping file (EntireX Workbench file with extension .cvm) may contain COBOL mapping or Natural mapping for a target RPC server program. Client-side mapping is wrapped into the client interface objects when an RPC client is generated. Therefore it is important the client-side mapping is available before creating any RPC client component, that is, the server program must be extracted or generated first.</p> <p>See also Glossary entry for Server Mapping File for COBOL.</p>
COBOL Mapping	See Server Mapping File for COBOL .
COBOL Wrapper	EntireX COBOL Wrapper provides access to RPC-based components from COBOL applications. It enables you to develop both client and server applications.
Command and Information Services	EntireX Broker provides two internal services: Command Service and Information Services that can be used administer and monitor the EntireX Broker. The command service allows you to issue a set of Broker commands; the information services provide you with various statistics to better administer and tune your Broker. Because these services are implemented internally, nothing has to be started or configured. You can use these services immediately after starting EntireX Broker.
Command Line Utility	In order to configure and administer the Broker properly and efficiently, you need certain types of information, such as how many users are to run concurrently, whether the number of specified message containers is large enough. EntireX Broker has a command-line utility that allows you to query the Broker for different types of information. Basic formatting of the output is available, but the real purpose of this tool is for further processing of the information in script languages or elsewhere.

Command Logging	Command logging is a feature to assist in debugging Broker ACI applications. A command in this context represents one user request sent to the Broker and the related response of Broker.
Conversation	Within EntireX Broker nomenclature, a conversation is one message or a set of messages exchanged between one client and one server in EntireX Broker. All requests must specify the conversation ID generated when the client issues the first send command.
Correlation ID	Correlation ID is contained within the message descriptor. It is used in conjunction with the message ID to correlate a <code>REQUEST</code> and a <code>REPLY</code> . The correlation ID is used internally and is not directly exposed through the ACI. It is exposed indirectly; that is, the ACI field <code>CONV - ID</code> is used as the correlation ID when sending a <code>REQUEST</code> or a <code>DATAGRAM</code> .
Custom Wrappers	The EntireX Custom Wrappers are user-configurable, template-based wrappers and need a Software AG IDL file, a template (e.g., client or server) and the Software AG IDL Compiler.

D

Data Compression	Data compression within EntireX Broker allows you to exchange smaller packet sizes between clients and servers. This helps to reduce response time during transmissions as well as improve the overall network throughput, especially with low-bandwidth connections.
DCOM Wrapper	The EntireX DCOM Wrapper generates DCOM-enabled components using RPC technology. This so-called “wrapping” makes it possible to treat existing applications as ActiveX components.
Default Broker View	The EntireX Default Broker View is part of the EntireX Workbench. It displays the status of the EntireX Default Broker and the active RPC Services registered to it.
Deferred Delivery	A UOW (unit of work) can be created by the sender and accepted by EntireX Broker even if the intended receiver is not registered or active. The Broker holds the UOW until the receiver registers or becomes active. The UOW can then be delivered. This process is referred to as deferred delivery.
Developer's Kit	<p>The EntireX Developer's Kit contains a wide range of tools and user interfaces for developing language-specific applications on supported operating systems. It includes the following:</p> <ul style="list-style-type: none">■ Eclipse Workbench

- Visual Studio plug-ins
- all RPC servers
- client and server examples for all relevant operating systems and language environments
- Trace Tool

DCOM Wrapper The EntireX DCOM Wrapper generates DCOM-enabled components using RPC technology. This so-called “wrapping” makes it possible to treat existing applications as ActiveX components.

.NET Wrapper The EntireX .NET Wrapper provides access to RPC servers for .NET client applications and access to .NET servers for any RPC client. The .NET Wrapper generation tools of the Workbench take as input a Software AG IDL file, which describes the interface of the RPC, and generates C# classes that implement the methods and data types of the interface.

DVIPA Dynamic virtual IP address (DVIPA) is a z/OS Communications Server feature used to describe the automatic failover of TCP/IP stack instances within a Sysplex cluster.

See *Setting up your EntireX Environment for Sysplex*.

E

Eclipse Plug-in A plug-in is a component that extends functionality of the platform or other plug-ins. Eclipse employs plug-ins to provide all of its additional functionality on top of the Rich Client Platform.

Eclipse Workbench The Eclipse Workbench is a platform for development tools and provides the user interface structure for Eclipse. The Workbench is responsible for the presentation and coordination of the user interface. Each workbench window contains one or more perspectives. A perspective contains views and editors. It controls what appears in certain menus and toolbars. Multiple workbench windows can exist on the desktop concurrently.

Encryption Encryption is the process by which the information or data being sent back and forth between two computers (including the password submitted when logging on) is “encoded”, shielding it from view by unauthorized persons.

With EntireX, the algorithms for encryption/decryption are in the security module for the Broker kernel.

	<p>Encryption/decryption takes place at every stage of communication: in the client, in the Broker and in the server. When Broker receives encrypted communication from a client, the Broker must decrypt it - if codepage translation is necessary - and encrypt it again before sending it on to a server.</p>
EntireX	<p>webMethods EntireX is a secure, robust, high-performance communication infrastructure that uniquely combines message queuing capabilities with built-in support for synchronous request/reply and conversational communication. It manages interactions for tightly coupled XML-enabled and non-XML enabled systems in time-critical user applications. EntireX's powerful and easy-to-use wrapping technology and flexible programming interfaces turn existing application functions into business services or Web services. These features allow an organization to define an integration architecture for enhancing existing applications, linking up legacy applications with new standard software or adding new custom applications to the mix.</p>
EntireX Broker	<p>EntireX Broker controls communication among the distributed application components within your IT architecture. The Broker supports many types of communication models: synchronous and asynchronous, client/server, peer-to-peer, publish and subscribe. The Broker also handles RPC communication.</p>
EntireX Broker ACI	<p>See ACI</p>
EntireX CICS® ECI RPC Server	<p>The EntireX CICS® ECI RPC Server allows standard RPC clients to communicate with CICS programs running on IBM CICS® version 3.2 and higher. The CICS ECI RPC Server transforms the RPCs from the clients into messages to CICS ECI. The CICS ECI RPC Server acts on one side as an RPC server and on the other side as a client for CICS ECI. The CICS ECI RPC Server is a Java-based component that can run on a different host to the one where CICS is running. This allows it to operate with a zero footprint of EntireX on the CICS host.</p>
EntireX DCOM Wrapper	<p>The EntireX DCOM Wrapper generates DCOM-enabled components using RPC technology. This so-called “wrapping” makes it possible to treat existing applications as ActiveX components.</p>
EntireX .NET RPC Server	<p>The EntireX .NET RPC Server, together with the EntireX .NET Wrapper, enables you to call .NET assemblies as servers.</p>
EntireX .NET Wrapper	<p>The EntireX .NET Wrapper provides access to RPC servers for .NET client applications and access to .NET servers for any RPC client. The .NET Wrapper generation tools of the Workbench take as input a Software AG IDL file, which describes the interface of the RPC,</p>

and generates C# classes that implement the methods and data types of the interface.

EntireX Java ACI	EntireX Java ACI is a Java class library that provides access to the EntireX Broker ACI for Java programmers. It covers the whole EntireX Broker ACI which enables you to write both client and server applications in Java. Any of these can then interact with each other and with other applications written in other languages on the same network using EntireX Broker. The EntireX Java ACI also contains the framework necessary for Java RPC requests.
EntireX Java RPC Server	The EntireX Java RPC Server is an RPC server which runs Java server interface objects generated from your IDL files. This server can register an Attach Service to start several services with the same server address on demand.
EntireX Java Runtime	EntireX Java Runtime is a protocol that enables RPC-based communication between clients and servers in a Java environment.
EntireX Java Wrapper	The EntireX Java Wrapper provides access to EntireX RPC-based components from Java applications. EntireX Java RPC enables users to develop both client and server applications written in Java. Java applets can also be used as EntireX RPC clients.
EntireX Micro Focus COBOL RPC Server	The EntireX Micro Focus COBOL RPC Server allows standard RPC clients to communicate with COBOL servers written with Micro Focus COBOL. It works together with the <i>COBOL Wrapper</i> and the <i>IDL Extractor for COBOL</i> .
EntireX Mini Runtime	The EntireX Mini Runtime is a set of components that may be used for the deployment of applications using the Broker ACI, the Broker RPC, and - under Windows only - DCOM Wrapper objects and the Broker ActiveX Control. Unlike the full EntireX Runtime, the Mini Runtime does not include Java capabilities.
EntireX RPC	EntireX RPC enables programmers to develop client applications which access RPC servers (for example CICS, Batch or IMS RPC Server) providing RPC services (for example COBOL batch programs, CICS transaction, Java methods etc.) on mainframe, UNIX, Linux and Windows platforms. EntireX RPC opens the door for various environments such as Web services/SOA, webMethods IS, Java, .NET etc. to access EntireX-enabled RPC server environments.
EntireX RPC-ACI Bridge	The RPC-ACI Bridge enables RPC-based client applications to be used with ACI servers.

EntireX RPC Servers	The EntireX RPC Servers (available under CICS, z/OS Batch, UNIX, Windows and Java) execute servers on RPC client requests. Using EntireX RPC Wrapper technology of the <i>EntireX Workbench</i> , you can generate these servers together with integrated wrappers (server interface objects). The Workbench tool you choose to generate these servers depends on your environment, for example Java Wrapper, COBOL Wrapper, C Wrapper, XML/SOAP Wrapper, etc.
EntireX Runtime	EntireX Security consists of all the parts required to run applications that were created or were enabled for distributed computing using EntireX technology (for example, ACI and RPC components, ActiveX Control etc.).
EntireX Security	EntireX Security provides protection for applications utilizing EntireX Broker. Functionality includes authentication for distributed application components, authorization to start and execute services and encryption of the payload (Broker message). All user and resource definitions are managed through RACF, CA Top Secret and CA ACF2. EntireX Security comprises two separate components, one for the Broker kernel and one for each Broker stub.
EntireX Support Tool	The EntireX Support Tool provides information about the internal versions of the EntireX modules (executables, shared libraries and JAR files).
EntireX Trace Utility	Formerly referred to as “EntireX Broker Trace Utility”. The EntireX Trace Utility processes and analyzes a trace (or log) file of the EntireX broker kernel or broker stubs. Trace files from any broker version since 2.1 on all platforms can be used. The tool extracts from the trace file all logged broker calls and generates a CSV file (comma-separated values), where each line represents one broker call and the columns represent the most important parameters of the call. The CSV file can be used with other tools, such as Microsoft Excel.
EntireX Workbench	The EntireX Workbench is implemented and delivered as of a set of Eclipse plug-ins. It provides the EntireX development-time user interface in a commonly used environment. Among other capabilities, EntireX Workbench provides various wrappers, IDL extractors, editors and testers for generating and testing interface objects to be used in RPC communication between existing RPC servers and RPC client applications.
EntireX Wrapper for Enterprise JavaBeans	The EntireX Wrapper for Enterprise JavaBeans enables Java-based components to access an EntireX RPC server using Enterprise JavaBeans. This is accomplished by mapping RPC server libraries to EJB stateful session beans. A remote procedure call will be mapped to

a method of the corresponding Enterprise JavaBeans. The Java-based components can use the logic implemented in the libraries of the existing RPC servers, or they can implement new logic on the application server side, using parts of the old logic.

EntireX XML Adapters	EntireX XML Adapters provide access to a wide range of enterprise resources (ERP and CRM systems, database management systems, etc.) by exposing services from those systems as Web services. Using the EntireX XML/SOAP Wrapper, the Web services defined with EntireX XML Adapters can be made available to EntireX or Natural clients.
EntireX XML Mapping Editor	The EntireX XML Mapping Editor allows you to map XML document structures to IDL libraries, programs and parameters. The mappings can be defined for the request and response to the server application, or from the server to the client. The input for the XML Mapping Editor can be a Software AG IDL file and/or an IDL-XML mapping file (perhaps produced by a previous XML Mapping Editor session or by importing a WSDL file, XML Document or XML Schema). The output is an IDL-XML mapping file, other XML structure definitions (such as sample XML files), and perhaps a created or changed IDL file.
EntireX XML Servlet	See <i>EntireX XML/SOAP Listener</i> .
EntireX XML to IDL Generators	XML to IDL Generators generate Software AG IDL files and related mapping files from DTD files, XML Schema files, XML files and WSDL files.
EntireX XML/SOAP Listener	The EntireX XML/SOAP Listener is part of the EntireX XML/SOAP Runtime. It plugs the generated AAR file, including XMM files, into Web servers and so enables the EntireX XML/SOAP Runtime to send and receive XML documents using HTTP/HTTPS to/from a Web server. This component was formerly referred to as “XML Servlet”.
EntireX XML/SOAP RPC Server	With the XML/SOAP RPC Server you can process XML-based server calls from EntireX RPC clients/Natural RPC clients. The EntireX RPC client communicates with the XML-based server, using the XML/SOAP RPC Server.
EntireX XML/SOAP Runtime	The EntireX XML/SOAP Runtime enables XML-based clients to communicate with an EntireX/Natural RPC Server; and it enables EntireX RPC clients to communicate with applications that have an XML or SOAP interface (via XML/SOAP Runtime).

EntireX XML/SOAP Wrapper	The EntireX XML/SOAP Wrapper enables XML-based communication to EntireX/Natural RPC servers and communication from EntireX/Natural RPC clients to XML-based servers.
ETBCMD	The command-line utility <code>ETBCMD</code> allows you to take actions - for example, purge a unit of work, stop a server, shut down a Broker - against EntireX Broker.
ETBINFO	The command-line utility <code>ETBINFO</code> queries the Broker for different types of information, generating an output text string with basic formatting. This text output can be further processed by script languages. <code>ETBINFO</code> uses data descriptions called profiles to control the type of data that is returned for a request. <code>ETBINFO</code> is useful for monitoring and administering EntireX Broker efficiently - for example, how many users are to run concurrently and whether the number of specified message containers is large enough.
Extractor	An extractor is a tool contained in the EntireX Workbench to extract a Software AG IDL file. This can be extracted from a variety of sources, for example COBOL, Natural, WSDL.

F

Failover	Feature used to describe the control switch between redundant resources in the event of a resource failure. See also <i>High Availability in EntireX</i> .
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H

High Availability	Under High Availability we understand an environment with engineered redundancy which, if any one component fails, guarantees the integrity of the system as a whole. To achieve high availability, EntireX uses existing third-party clustering technology. See also <i>High Availability in EntireX</i> .
HiperSockets	HiperSockets is an IBM technology for offering TCP/IP communications between partitions at in-memory speed. See also <i>Setting up your EntireX Environment for Sysplex</i> .

I

IDL	Software AG IDL (Interface Definition Language) is a language that lets a program or object (the client) written in one language commu-
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nicate with another program written in another language (the server). An interface definition language works by requiring a program's interfaces to be described in an interface object or slight extension of the program that is compiled into it.

Software AG IDL is used to define an interface between the client and the server. These definitions are contained in a Software AG IDL file. IDL compilers read IDL files and generate interface objects or descriptions from the definitions they contain.

IDL Compiler	The Software AG IDL Compiler generates interface objects, skeletons and wrappers. It uses a Software AG IDL file and a template file that controls the generated output.
IDL Editor	The Software AG IDL Editor is a syntax-aware editor for Software AG IDL files. A content outline view enables operations on the IDL tree. Other features include syntax highlighting, content assist and a Problems view for resolving IDL syntax errors.
IDL Extractor for COBOL	The Software AG IDL Extractor for COBOL enables you to extract the interface of a COBOL server and transforms it into a Software AG IDL and a Software AG server mapping file. Both files are required to provide access for any RPC client to the COBOL server.
IDL Extractor for Integration Server	The Software AG IDL Extractor for webMethods Integration Server is a wizard that reads a package from the Integration Server and generates a Software AG IDL file from all the existing services and nodes. Each service results in a program in the IDL file. All parameters of the services are mapped to an IDL alphanumeric data type, available as variable (AV) or fixed (A n) length. From EntireX Adapter 9.7, mapping is described in this product's documentation.
IDL Extractor for Natural	The Software AG IDL Extractor for Natural extracts a Software AG IDL definition from a Natural source in a Natural project in Eclipse, or from an object within a Natural RPC environment.
IDL Extractor for PL/I	The Software AG IDL Extractor for PL/I extracts a Software AG IDL file from a PL/I source. The PL/I source can be located in the file system or accessed remotely within a PL/I RPC environment definition.
IDL Extractor for WSDL	The Software AG IDL Extractor for WSDL is a wizard that generates Web service client artifacts from a WSDL file. With these artifacts, EntireX RPC client applications can access external Web services.

IDL Extractor for XML Document	The Software AG IDL Extractor for XML Document generates a <i>Software AG IDL File</i> in the IDL Editor documentation and a related XML mapping file (XMM) from a given XML document.
IDL Extractor for XML Schema	The Software AG IDL Extractor for XML Schema generates a <i>Software AG IDL File</i> in the IDL Editor documentation and a related XML mapping file (XMM) from given XML schema files.
IDL File	A Software AG IDL file contains definitions of the interface between client and server. The IDL file is used by Software AG wrappers to generate RPC clients, RPC servers and tester etc. on the basis of these definitions. The IDL file can be edited by the IDL Editor provided by plug-ins for Eclipse.
IDL Template	An IDL template file contains the rules that the Software AG IDL Compiler uses - together with the IDL file - to generate interface objects, skeletons and wrappers for a programming language. The Developer's Kit provides several templates for various programming languages.
Impersonation	<p>EntireX Security allows a server to be started under</p> <ul style="list-style-type: none"> ■ the user ID of the calling client or ■ a defined user ID (obtained from the registry, for example). <p>Authorisation is carried out appropriately in either case.</p>
Integration Server	The webMethods Integration Server is a Java-based, multiplatform enterprise integration engine supporting the execution of services to perform integration logic such as data mapping and communication with other systems.
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.
Interface	<p>A specification of a set of methods, which implement functionality of the same subject. An interface is a strongly typed, semantic contract between client and server.</p> <p>In EntireX Broker, the prominent interface is the ACI in its various implementations (for example, broker.dll).</p> <p>In the context of RPC programming, a client/server interface contains one or more remote procedure call operations and associated data, each of which may have input and output parameters associated with it.</p>

Interface Object

An interface object is an application-dependent generated piece of code to issue/receive remote procedure calls (RPCs).

In EntireX RPC programming, a *client-side interface object* is a piece of code generated by a wrapper contained in the EntireX Workbench that allows you to call a remote RPC service. The signature of each RPC service is described by a Software AG IDL file (Interface Definition Language) which must be provided as input for a wrapper. The main task of the *client-side interface object* is to marshal/unmarshal the RPC parameters and to call the underlying transport layer using an available Broker stub.

A *server-side interface object* is a piece of code also generated by a wrapper contained in the EntireX Workbench to be used on the server side. The main task of the server-side interface object is to marshal/unmarshal the parameters received/returned by an RPC server.



Note: In earlier versions of EntireX, interface objects were referred to as “stubs”.

Internationalization

Software internationalization is the process of designing products and services so that they can be adapted easily to a variety of different local languages and cultures. Internationalization within EntireX means internationalization of messages: the incoming and outgoing messages are converted to the desired codepage of the platform in use.

IUBL

The Internal User Buffer Length (IUBL) is the EntireX Broker parameter that sets the maximum length (in bytes) of the buffer that can be passed from the caller to the EntireX Broker. It must be large enough to hold the maximum send length plus receive length required for any caller program plus an administration overhead of about 600 bytes. Default is 8000. The maximum size of IUBL is the same as the maximum value of the Adabas parameter LU.

J**Java ACI**

EntireX Java ACI is a Java class library that provides access to the EntireX Broker ACI for Java programmers. It covers the whole EntireX Broker ACI which enables you to write both client and server applications in Java. Any of these can then interact with each other and with other applications written in other languages on the same network using EntireX Broker. The EntireX Java ACI also contains the framework necessary for Java RPC requests.

Java Runtime	EntireX Java Runtime is a protocol that enables RPC-based communication between clients and servers in a Java environment.
Java RPC Server	The EntireX Java RPC Server is an RPC server which runs Java server interface objects generated from your IDL files. This server can register an Attach Service to start several services with the same server address on demand.
Java Wrapper	The EntireX Java Wrapper provides access to EntireX RPC-based components from Java applications. EntireX Java RPC enables users to develop both client and server applications written in Java. Java applets can also be used as EntireX RPC clients.
Java Wrapper for Natural	The EntireX Java Wrapper for Natural allows you to generate EntireX Java client interface objects from Natural subprograms in a NaturalONE project in Eclipse. The generated Java client interface objects can be used by Java application developers to access Natural server components, using EntireX/Natural RPC.

L

Lightweight Diagnostics	Lightweight Diagnostics is a subset of the Trace facility of Entirex Broker. With Lightweight Diagnostics you can run the Broker kernel without needing to run a heavyweight trace all the time. Lightweight Diagnostics report on problems that impact the performance and the functionality of the Broker kernel.
Listener	A listener is an EntireX component that listens on incoming requests and sends RPC requests in the background (for example XML or MQ).
Load Balancing	A network-based technique to distribute common workload across multiple back-end services that can be evenly distributed or routed based on weighted inference of a key performance attribute (commonly called filtering).
Locale	A locale provides a means of identifying a specific region for the purposes of internationalization and localization. EntireX sends properties of the operating system locale to the Broker, using the locale string.
LPAR	A logical partition (LPAR) describes the virtualization of the System z hardware platform; if one LPAR goes down it has no effect on any others running on the same hardware.

See High Availability with Sysplex under z/OS.

M

Mainframe	Some sites that deploy one or more UNIX servers refer to these as 'mainframes'. The EntireX documentation uses the term 'mainframe' specifically to refer to z/OS, z/VSE (IBM) and BS2000/OSD (Fujitsu) systems as opposed to UNIX machines.
Marshalling	Marshalling is the process of packaging interface data into RPC packets for delivery across process or network boundaries. This includes converting data from its true data type (for example int, long etc.) to an internal representation. Converting data from an internal representation to its true data type (for example int, long etc.) is called unmarshalling. RPC programming thus has an advantage over native ACI coding in the area of transparent data translation.
Message	In an environment that uses EntireX as communication technique, clients and servers communicate by exchanging messages. For example, a message can be both a request for data and the returned data itself.
Message ID	<p>Message ID identifies a message and can be used in several ways:</p> <ul style="list-style-type: none">■ It allows a REPLY to be associated with a specific REQUEST.■ It can be used on a RECEIVE to limit the RECEIVE to a specific message. If message ID is not specified, the next available message is returned.■ It can be used by a client program when sending a REQUEST or a DATAGRAM. If message ID is not specified, the system generates one and returns it upon completion of the SEND.■ When sending a REPLY, the server program should specify the message ID of the associated REQUEST.
Messaging	<p>Messaging is defined as the creation, exchange, storage and management of files in a communications network. Those files can be text, images, voice, telex, fax, e-mail, paging, and Electronic Data Interchange (EDI).</p> <p>In programming, messaging is defined as the exchange of specially formatted data describing events, requests, and replies (messages) to a messaging server, which acts as a message exchange program for client programs. The two major messaging server models are point-to-point and publish and subscribe. With messaging, programs can share a common message-handling code, isolate resources and interdependencies, and easily handle an increase in message volume.</p>

Messaging also makes it possible for programs to communicate across different programming languages and operating systems. All that each environment needs to understand is the common messaging format and protocol.

Micro Focus RPC Server The EntireX Micro Focus COBOL RPC Server allows standard RPC clients to communicate with COBOL servers written with Micro Focus COBOL. It works together with the *COBOL Wrapper* and the *IDL Extractor for COBOL*.

N

NABS The Number of Attached Buffers (NABS) is the Broker parameter that specifies the number of attached buffers to be used. The default value is 10. An attached buffer is an internal buffer used for interregional communication. An attached buffer pool equal to the NABS value multiplied by 4096 will be allocated. This buffer pool must be large enough to hold all data (IUBL) of all parallel calls to EntireX Broker.

Natural Mapping See [*Server Mapping File for Natural*](#).

Natural Wrapper The Natural Wrapper allows you to develop Natural client applications that access RPC-based server components, and to create Natural RPC server skeletons you can use as a basis to write a Natural RPC server that can be accessed by RPC clients.

NCQE The Number of Command Queue Elements (NCQE) is the Broker parameter that specifies the number of command queue elements to be established. Its value determines the maximum number of EntireX Broker commands that can be queued and/or be in progress at any time. Each command is assigned a command queue element. This element is released when the user has received the results of the command or when the user has been timed out.

.NET RPC Server The EntireX .NET RPC Server, together with the EntireX .NET Wrapper, enables you to call .NET assemblies as servers.

NLB Network Load Balancing (NLB) is a clustering technology for Windows servers that enhances the scalability and availability of mission-critical, TCP/IP-based services, such as Web, Terminal Services, virtual private networking, and streaming media servers.

See also *High Availability with NLB under Windows*.

.NET Wrapper	The EntireX .NET Wrapper provides access to RPC servers for .NET client applications and access to .NET servers for any RPC client. The .NET Wrapper generation tools of the Workbench take as input a Software AG IDL file, which describes the interface of the RPC, and generates C# classes that implement the methods and data types of the interface.
Node Convergence	The process of converging static machine addresses into a clustered IP address on Windows.

P

Participant	Within EntireX Broker nomenclature, a participant is an application implicitly or explicitly logged on to the Broker as a specific user. A participant could act as client, server, publisher or subscriber.
PCB	Participant control block. In the context of persistence in EntireX, part of the UOW (unit of work).
Persistence	Persistence is the ability of a message or message queue to live longer than the connection it is using, allowing the system to recover to a known point without loss of data. Persistence is implemented in EntireX as an optional attribute of a UOW (unit of work). If a UOW is specified as persistent, it is stored on some non-volatile medium after being committed by the sender. Its delivery to the intended receiver is assured, even if a system failure occurs. Persistent UOWs are automatically restored to their last status prior to Broker or system failure. All of the necessary internal structures are reconstructed.
Persistent Status	<p>Persistent status is an attribute of a UOW (unit of work). If a UOW has persistent status, the status of the UOW is maintained in the persistent store, and is updated whenever the status changes. The persistent status remains in the persistent store after the UOW is completed, until its status lifetime has expired.</p> <p>A persistent status value represents a multiple of the UOW lifetime value. Thus if a UOW has a lifetime of 5M (whereby M stands for minutes) and a persistent status value of 4, the status of the UOW would be deleted 20M (5M*4) after the UOW was completed.</p>
Persistent Storage Interface	The Persistent Storage Interface (PSI) is the EntireX Broker component that maintains non-volatile images of persistent UOWs (units of work). The PSI provides status information and is responsible for recovery if a system failure occurs.

Persistent Store	The persistent store is used for storing unit-of-work messages and publish-and-subscribe data to disk. This means message and status information can be recovered after a hardware or software failure to the previous commit point issued by each application component.
Persistent Unit of Work	Persistence is an attribute of a UOW (unit of work). If a UOW is persistent, its messages are saved in the persistent store when the sender <code>COMMITs</code> the UOW and they are retained until the receiver <code>COMMITs</code> or <code>CANCELs</code> the UOW, or until its lifetime expires. If the Broker or system should fail after the UOW is committed by the sender, the UOW (and its conversation) will be restored to their last, stable status when the Broker restarts.
PL/I Wrapper	The EntireX PL/I Wrapper provides access to RPC-based components from PL/I applications. It enables you to develop both client and server applications.
Privacy	In the context of EntireX Security, privacy means that data packages cannot be examined by unauthorized persons.
Proxy	<p>In COM/DCOM terms, a proxy is a small binary loaded into the client's process space that acts as a “front-end” to the remote server's interface. The client calls the proxy just as it would the server, and the data is marshalled to the stub which in turn calls the server object.</p> <p>In EntireX Broker terms, the ACI acts both as a proxy and a stub, but is commonly referred to as the “broker stub” or simply “stub” regardless of whether it is installed on the client side or the server side.</p>
Publication	Within EntireX Broker nomenclature, a publication is a message or a set of messages created by one publisher for a list of subscribers. All requests must specify the publication ID generated when the publisher issues the first send publication.
Publish and Subscribe	The EntireX Broker uses two communication models: publish and subscribe and client and server. Publish and subscribe communication is used if data is to be published. Client and server communication is used if data is to be sent to exactly one partner. These two communication models cannot be combined with each other.
Publisher	Within EntireX Broker nomenclature, a publisher is an application issuing Broker requests to send one or more publications to one or more topics.

Q

Queued Direct IO Queued Direct IO is a System z hardware feature offering an enhanced data transfer architecture for improving data transfer speed and efficiency for TCP/IP traffic.

See *High Availability with Sysplex under z/OS*.

R

Relay Manager Obsolete. In earlier EntireX versions, the Relay Manager was the EntireX Broker component that re-created structures and environment for any UOW (unit of work) that were incomplete at the time the last execution of EntireX Broker ended, whether normally or abnormally. All Relay Manager functionality is now handled by broker stubs.

Remote Program The application program with which the local program converses.

RPC A Remote Procedure Call (RPC) is a protocol that one program can use to request a service from a program located in another computer in a network without having to understand network details. (A procedure call is also sometimes known as a function call or a subroutine call.)

RPC uses the client/server model. The requesting program is a client and the service-providing program is the server. Like a regular or local procedure call, an RPC is a synchronous operation requiring the requesting program to be suspended until the results of the remote procedure are returned. However, the use of lightweight processes or threads that share the same address space allows multiple RPCs to be performed concurrently.

When program statements that use RPC are compiled into an executable program, an interface object is included in the compiled code that acts as the representative of the remote procedure code. When the program is run and the procedure call is issued, the interface object receives the request and forwards it to a client runtime program in the local computer. The client runtime program has the knowledge of how to address the remote computer and server application and sends the message across the network that requests the remote procedure. Similarly, the server includes a runtime program and interface object that interface with the remote procedure itself. Results are returned the same way.

Some examples of RPC technology are Software AG's EntireX/Natural RPC, Microsoft RPC, and DCE RPC.

RPC Compression	RPC compression is a means of reducing network traffic. IDL fields that are marked as IN, OUT, or IN OUT parameters are transferred in the respective direction only. RPC compression is handled automatically for EntireX RPC Servers and Natural RPC Server after Natural RPC version 5.1.1. If you are using an older Natural RPC Version, RPC compression must be turned on manually in your RPC client component to take effect.
RPC Runtime	Software AG RPC runtime is a protocol that enables RPC-based communication between clients and servers.
RPC Servers	The EntireX RPC Servers (available under CICS, z/OS Batch, UNIX, Windows and Java) execute servers on RPC client requests. Using EntireX RPC Wrapper technology of the <i>EntireX Workbench</i> , you can generate these servers together with integrated wrappers (server interface objects). The Workbench tool you choose to generate these servers depends on your environment, for example Java Wrapper, COBOL Wrapper, C Wrapper, XML/SOAP Wrapper, etc.
RPC Service	An RPC service is a customer-written program to be provided as a service by means of a configured RPC server.
RPC-ACI Bridge	The RPC-ACI Bridge enables RPC-based client applications to be used with ACI servers.

S

SCB	Sender control block. In the context of persistence in EntireX, part of the UOW (unit of work).
SDK	A Developer's Kit is a set of programs usually including an editor, a compiler, a linker, a screen builder etc., used by computer programmers to write application programs.
SDL	The Server Definition Language (SDL) is the language in which the statements are written that define the EntireX Broker systems installed, the servers that are to be controlled by the Attach Server and the path definitions required to establish the execution environments of the servers.
Server	Within EntireX Broker nomenclature, a server is an application issuing Broker requests to process client requests assigned to specific services.
Server Mapping File for COBOL	Server mapping enables the RPC server to correctly support special COBOL syntax such as <code>REDEFINES</code> , <code>SIGN LEADING</code> and <code>OCCURS</code>

DEPENDING ON clauses, LEVEL-88 fields, etc. If one of these elements is used, the IDL Extractor for COBOL automatically extracts a server mapping file in addition to the IDL file (interface definition language). Also, the COBOL Wrapper may generate a server mapping file for RPC server generation. The server mapping is used at runtime to marshal and unmarshal the RPC data stream. There are client-side mapping files (EntireX Workbench files with extension .cvm) and server-side mapping files (Workbench files with extension .svm). If you have not used server-side mapping, we recommend you use client-side mapping. See *Server Mapping Files for COBOL* in the EntireX Workbench documentation.

Server Mapping File for Natural	Server mapping enables the RPC server to correctly support special Natural syntax such as <code>REDEFINES</code> , special Natural Mapping Editor operations, etc. If one of these elements is used the IDL Extractor for Natural automatically extracts a server mapping file in addition to the IDL file (interface definition language). Also the Natural Wrapper may generate a server mapping file for RPC server generation. The server mapping file is used at runtime to marshal and unmarshal the RPC data stream. Client-side mapping files (EntireX Workbench files with extension .cvm) are used for Natural only.
Server Program	A piece of application software that can provide one or more services to client programs on request.
Server-side Mapping File	<p>A server-side mapping file (EntireX Workbench files with extension .svm) contains COBOL mapping for a target RPC server program. Server-side mapping files have to be deployed to the RPC server (except for IMS Connect and CICS ECI connections with the web-Methods EntireX Adapter).</p> <p>See also glossary entry for Server Mapping File for COBOL.</p>
Service	A particular type of functionality provided by one or more servers. Within EntireX Broker nomenclature, a service is uniquely identified by a combination of service name, server name and server class.
SMA	System Maintenance Aid. Software AG product for installing and managing the configuration of a Software AG product environment.
Software AG Common Platform	The Software AG Common Platform is a Java runtime environment based on the OSGi framework. It provides a standard platform on which to run Software AG products and the enterprise applications you develop around those products. The Software AG Common Platform provides common infrastructure for user authentication, event handling, and the execution of Web applications. Infrastructure

components that the Software AG Common Platform provide include Software AG Security Infrastructure, Software AG Web Server based on Apache Tomcat, and Web Services Stack.

Software AG IDL

Software AG IDL (Interface Definition Language) is a language that lets a program or object (the client) written in one language communicate with another program written in another language (the server). An interface definition language works by requiring a program's interfaces to be described in an interface object or slight extension of the program that is compiled into it.

Software AG IDL is used to define an interface between the client and the server. These definitions are contained in a Software AG IDL file. IDL compilers read IDL files and generate interface objects or descriptions from the definitions they contain.

See also [IDL Compiler](#)

Software AG Runtime

The Software AG Runtime is an installable instance of the Software AG Common Platform that functions as a stand-alone Tomcat server and a container for Web applications. EntireX uses the Software AG Runtime to host the EntireX XML/SOAP Listener and XML/SOAP RPC Server.

Software AG Security Infrastructure

Software AG's webMethods line of products has a common authentication infrastructure called SIN. It provides the products with security components for authentication of users, management of roles, and query of user, role, and group information. It works both on client-side applications and on server-side applications.

Software AG Web Server

The Software AG Web Server based on Apache Tomcat is one of the basic infrastructure components provided by the Software AG Common Platform. It provides HTTP/HTTPS services, a JSP engine, and a servlet container. Unlike a typical Tomcat implementation, the Software AG Web Server is OSGi-based and supports both .WAR-based and .WAB-based web applications.

SPFX

Stub prefix. The SPFX acts as a table of contents for the other sections of the ACI request or reply.

SSX

Software AG Security Extension. SSX handles authentication and provides interfaces to the user database to perform list, add, modify and delete operations.

Stub

A Broker stub is a ready-made module/class delivered with EntireX to communicate with a Broker. It is platform-dependent, but application independent. A Broker Stub implements an API (application

programming interface) that allows programs written in Java, C#, C, Natural, and IBM i ILE-enabled languages (C, COBOL, Natural, RPG) to access the EntireX Broker. A Broker stub can communicate with an EntireX Broker using either TCP/IP, SSL (and TLS), or Entire Net-Work. Stubs are required for RPC and message-based communication.

In earlier versions of EntireX, the term "stub" was also used to refer to application-dependent, Workbench-generated pieces of code for issuing and receiving remote procedure calls. These objects are now referred to as *interface objects*.

Subscriber In the context of the EntireX publish and subscribe communication model, a subscriber is an application issuing Broker requests to receive one or more publications of one or more topics.

Subscription In the context of the EntireX publish and subscribe communication model, a subscription identifies a Broker participant as receiver of publications for the subscribed topic.

Sysplex A Parallel Sysplex is a cluster of IBM mainframes acting together as a single system image with z/OS. Parallel Sysplex combines data sharing and parallel computing to allow a cluster of up to 32 systems to share a workload for high performance and high availability.

See also *Setting up your EntireX Environment for Sysplex*.

System Management Hub The System Management Hub is Software AG's cross-product and cross-platform product management framework. Its platform-independent, XML-based architecture provides generic rendering engines for HTML, batch etc. and standard interfaces for application development (HTML, WML, native C/C++, native Java, etc.)

T

Tamino X-Tensions Tamino X-Tensions can be described as the technology you need to develop, administer and execute XML-based application logic within the Tamino context. Tamino X-Tensions provide you with the ability to extend the functionality of the Tamino Server in cases in which the standard functions are not sufficient to satisfy all of the needs of an internet application. Tamino X-Tensions can be generated by the *EntireX Workbench* to call an EntireX/Natural RPC Server.

TCP/IP Communicator The EntireX Broker TCP/IP communicator enables transparent direct TCP/IP communications between a broker stub and the EntireX Broker running under z/OS.

Template	In EntireX RPC programming, a template file is required by the Software AG IDL Compiler and describes the source language in which the client interface object or server interface object is generated. Several templates are provided by the Developer's Kit for various programming languages. Experienced users can modify these templates or create new templates for other program languages.
Topic	<p>A topic is a logical grouping of publications relating to one subject area which is defined in the Broker attribute file. Topics reflect subject areas, for example current news, stock quotations, weather, online chat, sales systems. Data can be published to a topic only if there are current subscribers for this topic.</p> <p>For EntireX Broker, the term <i>topic</i> is analogous to the term <i>service</i>. Topic represents the grouping of related information flows for the publish and subscribe communication model, as service does for the client and server model.</p>
TOR	In Broker ActiveX Control, the transaction object repository (TOR) is the compound file within the file system in which transaction objects (TOs) are stored.
Transaction Object	Transaction Object (TOs) in Broker ActiveX Control are selections of logical methods that are stored in a transaction object repository (TOR). These logical methods contain all the connection and interface details necessary to communicate with EntireX Broker.
Transaction Recovery	A feature for recovering resources in the event of an unplanned outage.
TRAP	Translation Routine / Area for Parameters (TRAP) control block fields are supplied by the Broker and <i>must not</i> be modified by user-written translation routines.
Tunnel Servlet	See Broker HTTP(S) Agent.

U

UDDI Registration	EntireX UDDI Registration is a tool with which you can register a Web service with any UDDI registry for which you have an account.
UOW	A unit of work (UOW) is a set of one or more messages that are processed as a single unit. The sender of a UOW adds messages to the UOW and then indicates that the UOW is complete (COMMIT). The UOW and its messages are not visible to the receiver until the sender has committed the UOW. Once the UOW is committed, the

receiver can receive the messages, and can indicate when the UOW is complete (COMMIT).

UOW Lifetime

Each UOW has a lifetime value associated with it. This is the period of time that the UOW is allowed to exist without being completed. This time starts when the UOW is initially created and runs until the UOW is completed. A UOW is completed when it is successfully:

- cancelled or backed out by its sender, or
- cancelled or committed by its receiver.

If the UOW is in ACCEPTED status when this lifetime expires, the UOW is placed into a TIMEOUT status. Lifetime timeouts will not occur when the UOW is in either RECEIVED or DELIVERED status.

A special “pseudo-clock” is maintained for UOW lifetimes. This clock is implemented in such a way that it only runs when the Broker is active. This prevents a UOW lifetime from expiring while the Broker is down or otherwise unavailable.

UOW Status Query

Each unit of work (UOW) has a unique identifier that allows you to check the status of the UOW. This is particularly useful during recovery from a system failure. The status of persistent and non-persistent UOWs is maintained by the Broker for a period of time which is determined by user-defined attributes.

USRSEC

USRSEC is the name of the security exit which is called if `SECURITY=YES` is specified in the Broker attribute file. A security component called USRSEC is provided by EntireX Security in object form only. The EntireX Security USRSEC provides full protection of applications using EntireX Broker. Functionality includes authentication for distributed application components, authorization to start and execute services and encryption of the payload (Broker message). All user and resource definitions are managed through RACF and CA ACF2. In addition, a sample source and load example USRSEC is provided to perform LOGON and LOGOFF security for EntireX Broker. You can adapt this example to your specific needs if required.

UWCB

UOW (unit of work) control block. In the context of persistence in EntireX, the UWCB represents the UOW.

V

VIPA

Virtual IP addressing is an IP address assigned to multiple static IP addresses to make them accessible as one address for the purpose of improving availability or load balancing.

See also *Setting up your EntireX Environment for Sysplex*.

Visual Studio Wizard for DCOM Wrapper

The Microsoft Visual Studio Wizard for EntireX DCOM Wrapper is a Software AG plug-in that enables Microsoft Visual Studio 2010 to generate Visual C# .NET and Visual Basic .NET Windows applications that use EntireX DCOM Wrapper objects. The Visual Studio Wizard creates a DCOM Wrapper object from a Software AG IDL file and adds a reference to the object into the new Windows application.

Visual Studio Wizard for .NET Wrapper

The Visual Studio Wizard for .NET Wrapper is a plug-in for Microsoft Visual Studio 2010, which makes the client functionality of the EntireX .NET Wrapper available to Microsoft Visual Studio 2010.

W

webMethods EntireX

webMethods EntireX is a secure, robust, high-performance communication infrastructure that uniquely combines message queuing capabilities with built-in support for synchronous request/reply and conversational communication. It manages interactions for tightly coupled XML-enabled and non-XML enabled systems in time-critical user applications. EntireX's powerful and easy-to-use wrapping technology and flexible programming interfaces turn existing application functions into business services or Web services. These features allow an organization to define an integration architecture for enhancing existing applications, linking up legacy applications with new standard software or adding new custom applications to the mix.

webMethods EntireX was previously referred to as "EntireX Communicator".

webMethods EntireX Adapter

The webMethods EntireX Adapter enables webMethods Integration Server to consume (IS outbound) as well as provide (IS inbound) EntireX RPC services. EntireX supports bidirectional integration with Natural, COBOL, PL/I, C and other applications on z/OS, z/VSE, BS2000/OSD and other platforms. On Linux, UNIX and Windows also Micro Focus COBOL can be integrated with EntireX, bidirectionally.

webMethods EntireX Package

A webMethods EntireX package is an Integration Server (IS) package written to the Adapter runtime specification that allows EntireX assets to be tightly integrated with IS Flow Services. The package features IS nodes and automatic generation of communication services and application services that are associated with making program calls to mainframe transactions via EntireX RPC.

webMethods Integration Server	The webMethods Integration Server is a Java-based, multiplatform enterprise integration engine supporting the execution of services to perform integration logic such as data mapping and communication with other systems.
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.
Web Services	Web services are programmable, distributed application components accessible on the Web using solely standard internet protocols. In contrast to the current “document Web”, which specializes in human interaction, Web services are designed to be accessed by programs to form a new application architecture, the “application Web”. EntireX supports the creation of Web services from existing EntireX RPC servers.
Web Services Wrapper	The EntireX Web Services Wrapper is a wizard that generates Web services from Software AG IDL, XML/SOAP mapping files or Natural subprogram files. The generated result is a Web service archive (.aar) that contains the relevant artifacts of the Web service such as an XML/SOAP mapping file (.xmm), WSDL file and additional configuration files. The Web service archive can be deployed for execution by the wizard or - in an extra deployment step - in a Web Services Stack with the EntireX XML/SOAP Listener runtime.
Web Services Wrapper for Natural	The EntireX Web Services Wrapper for Natural allows you to develop Web Services that access Natural server components, using EntireX/Natural RPC.
WebSphere MQ RPC Server	<p>EntireX WebSphere MQ RPC Server runs as an RPC server and processes RPC client calls. It is used to send messages to and receive messages from a WebSphere MQ Queue. This means that existing EntireX wrappers can be used for communication with WebSphere MQ.</p> <p>This component was previously referred to as “EntireX WebSphere MQ Bridge”.</p>
WebSphere MQ Listener	<p>EntireX WebSphere MQ Listener runs as a listener on a WebSphere MQ queue and passes messages to an RPC server. It is used to send messages received from a WebSphere MQ queue to an RPC server applications. This means that existing RPC servers can be used for communication with WebSphere MQ.</p> <p>This component was previously referred to as “EntireX MQ Bridge Listener”.</p>

WLM	IBM Workload Manager is a Sysplex based load balancer offering workload filtering.
Wrapper	In EntireX terms, a wrapper is a tool contained in the EntireX Workbench to generate interface objects based on a Software AG IDL file and additional wrapping properties. Wrappers are provided for different target environments, for example Java, Web services, webMethods IS, .NET, COBOL and many more.

X

XCOM Communicator	The XCOM Communicator consists of the Adabas modules ADAMPM, ADALNK, and ADASVC. It can be used for intra-mainframe communications, that is, communications between client and server applications via the EntireX Broker when all components are located on the z/OS mainframe.
XMLAdapter	A Java class generated by the XML Mapping Editor and used by the XML/SOAP Runtime to map between client XML documents and EntireX/Natural RPC Server parameters (deprecated). Not to be confused with EntireX XML Adapters.
XML Mapping Editor	The EntireX XML Mapping Editor allows you to map XML document structures to IDL libraries, programs and parameters. The mappings can be defined for the request and response to the server application, or from the server to the client. The input for the XML Mapping Editor can be a Software AG IDL file and/or an IDL-XML mapping file (perhaps produced by a previous XML Mapping Editor session or by importing a WSDL file, XML Document or XML Schema). The output is an IDL-XML mapping file, other XML structure definitions (such as sample XML files), and perhaps a created or changed IDL file.
XML Mapping File	The XML Mapping File is an XML file (file extension .xmm) generated by the EntireX XML Mapping Editor and used by the EntireX XML/SOAP Runtime, to map between XML documents and EntireX/Natural RPC parameters.
XML RPC	XML RPC is a simple, language and platform neutral, RPC mechanism using XML over HTTP. It is a specification and a set of implementations that allow software running on disparate operating systems, running in different environments to make procedure calls over the internet. HTTP provides the transport and XML provides the encoding. XML RPC is designed for simplicity but allows complex data structures to be transmitted, processed and returned.

XML Schema	XML Schemas express shared vocabularies and allow machines to carry out rules made by people. They provide a means for defining the structure, content and semantics of XML documents in more detail.
XML Servlet	This term is obsolete. See XML/SOAP Listener .
XML Tester	Using the XML Tester you can send an XML document to the EntireX XML/SOAP Listener.
XML to IDL Generators	XML to IDL Generators generate Software AG IDL files and related mapping files from DTD files, XML Schema files, XML files and WSDL files.
XML/SOAP Listener	The EntireX XML/SOAP Listener is part of the EntireX XML/SOAP Runtime. It plugs the generated AAR file, including XMM files, into Web servers and so enables the EntireX XML/SOAP Runtime to send and receive XML documents using HTTP/HTTPS to/from a Web server. This component was formerly referred to as “XML Servlet”.
XML/SOAP RPC Server	With the XML/SOAP RPC Server you can process XML-based server calls from EntireX RPC clients/Natural RPC clients. The EntireX RPC client communicates with the XML-based server, using the XML/SOAP RPC Server.
XML/SOAP Runtime	The EntireX XML/SOAP Runtime enables XML-based clients to communicate with an EntireX/Natural RPC Server; and it enables EntireX RPC clients to communicate with applications that have an XML or SOAP interface (via XML/SOAP Runtime).
XML/SOAP Wrapper	The EntireX XML/SOAP Wrapper enables XML-based communication to EntireX/Natural RPC servers and communication from EntireX/Natural RPC clients to XML-based servers.
XMM	XML Mapping File, file extension .xmm, replaces the deprecated XML Adapter.

Z

Zero Client Footprint	In the context of EntireX Security, the fact that the application requires no space on the client machine.
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Numbers

24x7	A business definition for highly available applications representing 24 hours, 7 days a week availability.
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See also *High Availability in EntireX*.

99.999

A business definition for highly available applications representing a percentage very close to 100 % availability.

See also *High Availability in EntireX*.

