Introduction to Installing EntireX under z/OS

This chapter covers the following topics:

- Installation Method

- Licensing Considerations

- Installable Components

- Contents of Mainframe Installation Medium

- Installation Jobs

- Storage Requirements

- Copying the Contents of the Installation Medium to Disk

Installation Method

There are two methods for installing EntireX under z/OS:

- the new, simplified installation method

- the classic installation method as used in previous versions of EntireX
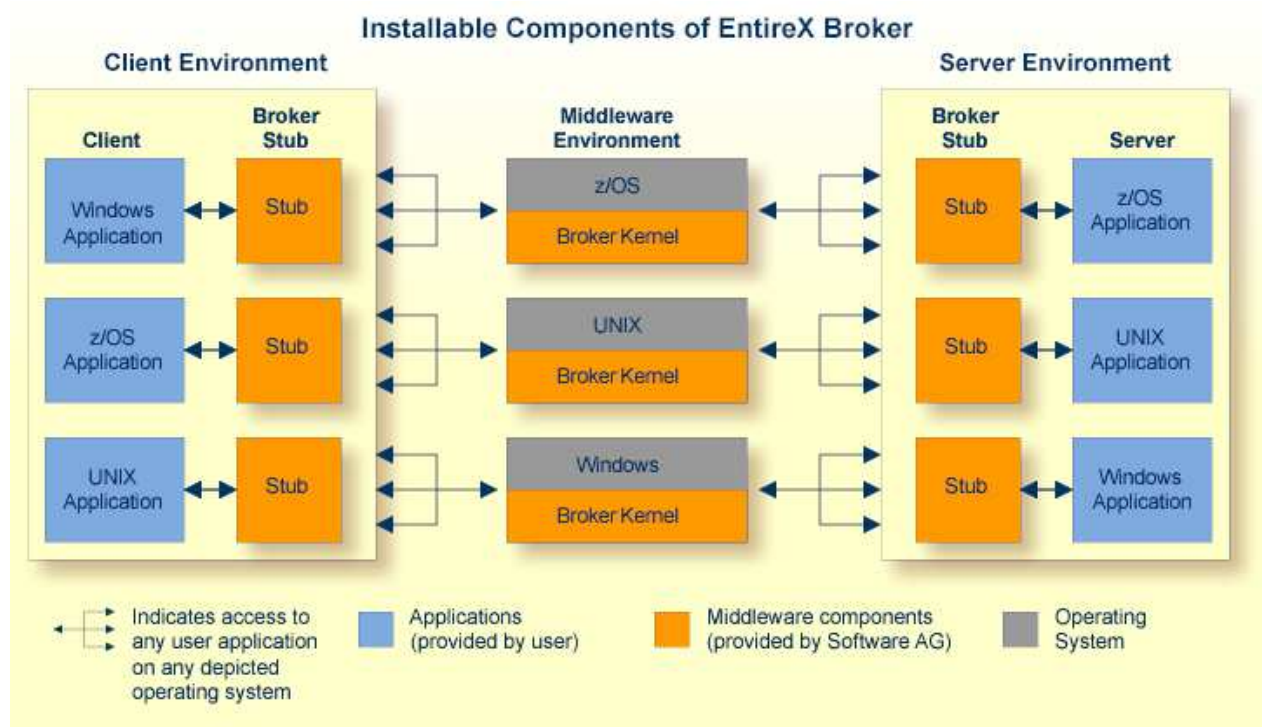
The information provided in this section applies to both methods. Then continue with either *Simplified z/OS Installation Method* or *Installing EntireX Broker under z/OS*.

Licensing Considerations

Software AG licensing requires that the modules LICMAIN and LICUTIL can be loaded when the EntireX Broker starts up. These modules are distributed in the MLC127.LOAD library.

See *z/OS Licensing Data Sets*.

Installable Components

Contents of Mainframe Installation Medium

The webMethods EntireX installation medium contains the data sets required to install all EntireX z/OS components. Data set names begin with a product code that identifies the module, as in the following tables.

With webMethods EntireX, the following additional products are included:

- Various Base Products for EBCDIC platforms

- Transport Services for EBCDIC platforms

Code	webMethods EntireX Component
EXP	EntireX RPC (mainframe part of EntireX Developer's Kit).
EXB	EntireX Broker.
EXX	Common modules used by all EntireX components.
MLC	Software AG's common mainframe license check software.
SSX	Software AG Security Extensions.
WAL	Adabas Limited Libraries.

The installation medium contains the data sets listed below:

Data Set Name	Description
SMT111.TABS	SMA tables and jobs.
EXB970.ERRN	Broker Natural tutorial error message data set.
EXB970.INPL	Broker Natural tutorial INPL data set.
EXB970.LOAD	Broker-specific load library (PDS/E).
EXB970.SRCE	Broker-specific source library
EXP970.EXPL	EntireX Developer's Kit RPC compressed examples library (COBOL and PL/I).
EXP970.INCL	Developer's Kit RPC include and copybook library.
EXP970.LB00	Developer's Kit RPC batch load library.
EXP970.LD00	Developer's Kit RPC CICS load library.
EXP970.MACS	Developer's Kit RPC macros.
EXP970.SD00	Developer's Kit RPC side deck library.
EXP970.SRCE	Developer's Kit RPC source data set.
EXX970.CERT	Certificates to demonstrate SSL/TLS connections.
EXX970.DC00	Readme.
EXX970.LICS	License key.
EXX970.JOBS	This data set has been thoroughly restructured. It contains installation, installation verification and maintenance jobs of all EntireX subproducts.
EXX970.LOAD	Common load library (PDS/E), also includes broker stubs.
EXX970.SD00	Common side deck library.
EXX970.TAR	All Java components for z/OS. See *Installing EntireX Java Components under z/OS UNIX*.
EXX970.SRCE	Common source library.
EXX970.ZAPS	Common zaps library.
MLC127.JOBS	Sample job library for Software AG's common mainframe license check software.
MLC127.LOAD	Load library for Software AG's common mainframe license check software.
SSX*vrs*.LOAD	SSX-specific load library.
WAL826.LOAD	Adabas limited load library.
WAL826.SRCE	Adabas limited source library.
WAL826.JOBS	Adabas limited jobs library.

Note:
In the table above, *vrs* represents the version, release and service pack. Make sure you install the highest patch level available.

Installation Jobs

The installation of Software AG products on z/OS is performed by installation jobs. These jobs are either created manually or generated by System Maintenance Aid (SMA).

For each step of the installation procedure, an installation job is generated by SMA according to your specifications in SMA. If you are not using SMA, follow the instructions using your own jobs.

Information on using SMA for the installation process is provided in the *System Maintenance Aid Manual*.

Storage Requirements

For specific storage requirements, see the Software AG Product Delivery Report.

Copying the Contents of the Installation Medium to Disk

Installation Steps

Copy the data sets from the supplied installation medium to your disk before you perform the individual installation procedure for each component to be installed.

The way you copy the data sets depends on the installation method and the medium used:

- If you use System Maintenance Aid (SMA), refer to the copy job instructions provided in the *System Maintenance Aid* documentation.

- If you are not using SMA and want to copy the data sets from CD-ROM, refer to the README.TXT file on the CD-ROM.

- If you are not using SMA and want to copy the data sets from tape, follow the instructions in this section.

This section explains how to copy all data sets from tape to disk.

- Step 1: Copy Data Set COPY.JOB from Tape to Disk
- Step 2: Modify hilev.COPY.JOB on Your Disk
- Step 3: Submit COPY.JOB

Step 1: Copy Data Set COPY.JOB from Tape to Disk

- Modify the following sample job according to your requirements:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* ------------------------------
//COPY EXEC PGM=IEBGENER
//SYSUT1 DD DSN=COPY.JOB,
// DISP=(OLD,PASS),
// UNIT=(CASS,,DEFER),
// VOL=(,RETAIN,SER=tape-volser),
// LABEL=(2,SL)
//SYSUT2 DD DSN=hilev.COPY.JOB,
// DISP=(NEW,CATLG,DELETE),
// UNIT=3390,VOL=SER=disk-volser,
```

```
// SPACE=(TRK,(1,1),RLSE),
// DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//
```

where:

tape-volser is the VOLSER of the tape, for example: T12345,
hilev is a valid high-level qualifier, and
disk-volser is the VOLSER of the disk.

● Execute the job to copy the data set COPY.JOB to your disk.

Step 2: Modify *hilev*.COPY.JOB on Your Disk

● Modify *hilev*.COPY.JOB according to your requirements:

Set EXPDT to a valid expiration date, for example, 99365.

Set HILEV to a valid high-level qualifier, for example, USERLIB.

Set LOCATION to a storage location, for example, STORCLAS=ABC or
UNIT=3390,VOL=SER=USR123.

Step 3: Submit COPY.JOB

● Execute *hilev*.COPY.JOB to copy single, multiple, or all data sets to your disk.

Next Steps

Continue the installation with either *Simplified z/OS Installation Method* or *Installing EntireX Broker under z/OS*.