

Which EntireX Security Solution

This chapter covers the following topics:

- Choosing a Security Solution
 - Overview of Security Configurations
 - Features of EntireX Security
 - User-written Sample Security Exits for EntireX Broker
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Choosing a Security Solution

On each operating system where the Broker kernel resides, you have the choice of installing one of Software AG's two security solutions. These solutions, which provide security for your distributed applications using EntireX Broker, are described below.

Security Alternatives

- **EntireX Security**
This is Software AG's standard security solution, delivered with EntireX. Most organizations that use EntireX choose EntireX Security, Software AG's standard security solution.
- **Sample Security Exits for Broker**
This is an alternative, user-written security solution for use only in exceptional processing situations.

Note:

Do not mix these two security solutions: do not use a stub secured with a sample exit against a kernel secured with EntireX Security or vice versa.

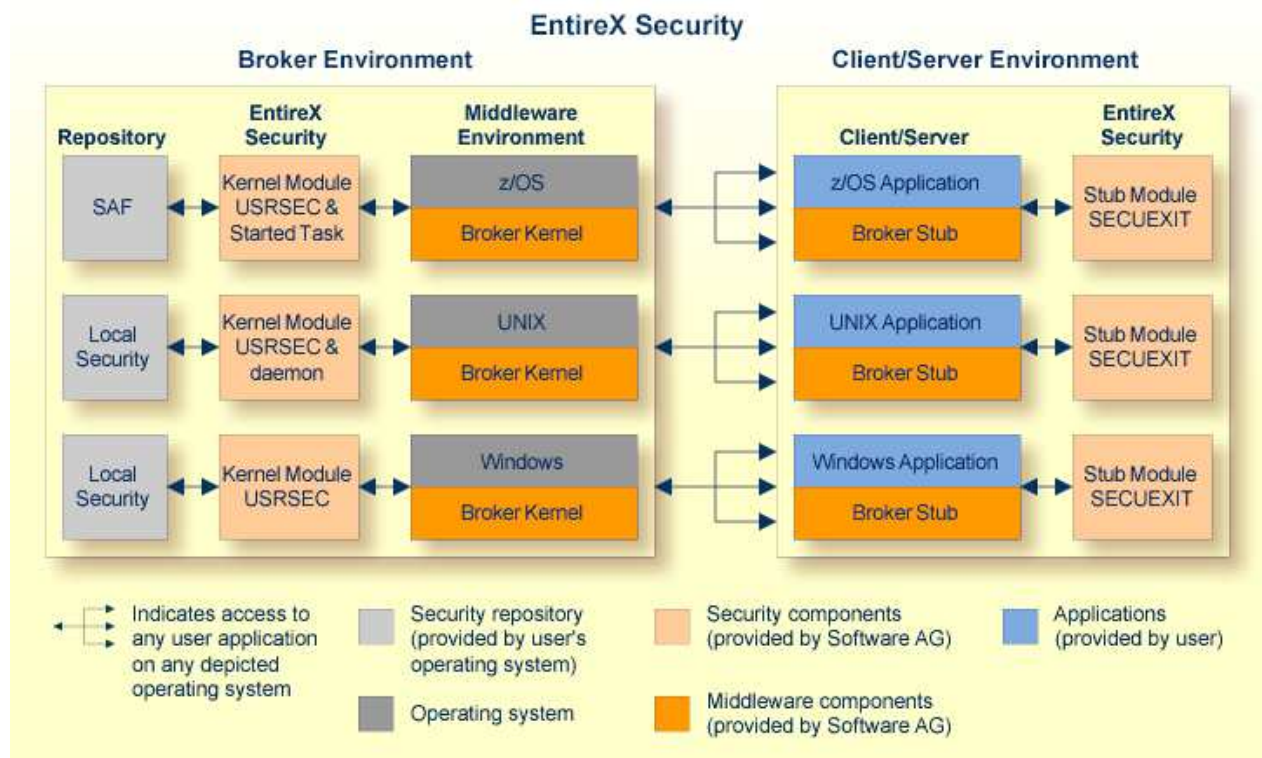
Criteria for Choosing a Security Solution

Security Choice	Criteria for Choosing a Security Solution
EntireX Security	<p>Choose this option if you want to use the standard security functionality already provided with EntireX and your organization uses one of the following security repositories:</p> <ul style="list-style-type: none"> ● SAF-based security (e.g. RACF, CA ACF2, CA Top Secret, or LDAP repository) for Broker running under z/OS. See <i>Installing EntireX Security under z/OS</i>. ● UNIX local security or LDAP repository for Broker running under UNIX. See <i>Setting up EntireX Security under UNIX</i>. ● Windows local security or LDAP repository for Broker running under Windows. See <i>Post-installation Steps under Windows</i>. <p>EntireX Security is fully supported (that is, object code only), and there are no user exits to write and debug. EntireX Security provides user authentication (logon/logoff security), user authorization (z/OS only) and application data encryption. This functionality is provided for EntireX Broker kernel running on all supported operating systems and for the corresponding stubs. In most installations EntireX Security operates without altering runtime applications.</p>
Sample Security Exits for Broker Security	<p>Choose this option only if your organization requires an alternative to standard SAF-based security on z/OS or local UNIX / Windows security on these platforms.</p> <p>Writing sample security exits is recommended only in exceptional processing situations - for example, if your organization wants to access its own user-written security system when operating EntireX Broker. Sample security exits are provided as skeleton programs only and must be completely customized before they can be deployed.</p> <p>See Sample Security Exits for Broker Security.</p>

Overview of Security Configurations

EntireX Security: Standard Security Solution

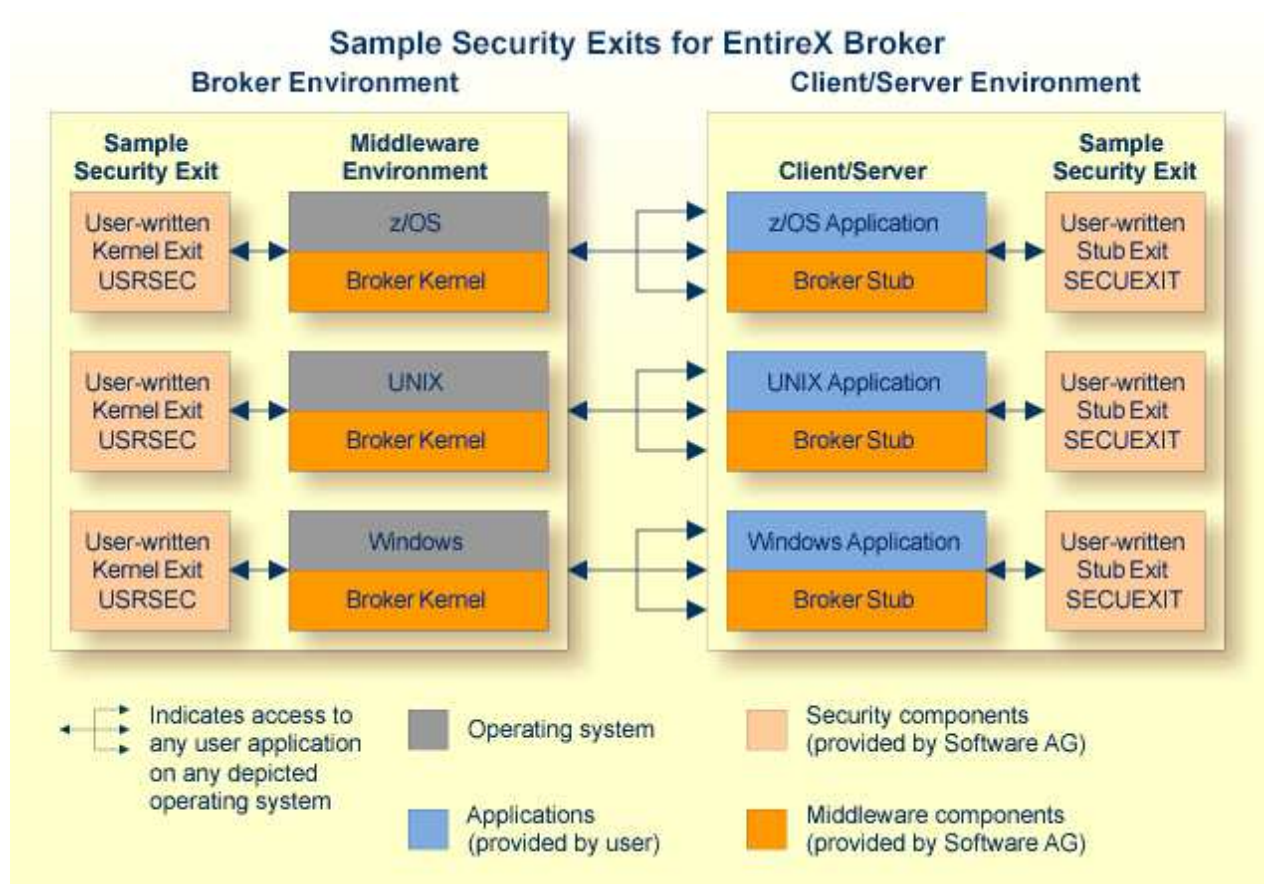
This diagram shows the locations where the broker kernel and broker stubs can be installed; it also shows the locations of the security components of the kernel and stubs.



See *Platform Coverage* for where EntireX Security for broker kernel and stubs is supported.

Sample Security Exits for EntireX Broker

This diagram shows the locations where the broker kernel and broker stubs can be installed; it also shows the locations of the security components of the kernel and stubs.



See *Platform Coverage* for where EntireX Security for broker kernel and stubs is supported.

Features of EntireX Security

EntireX Security provides comprehensive security for EntireX Broker:

- user authentication
- user authorization
- application-data encryption
- supplied in object code only

See also *Overview of EntireX Security Features*.

User-written Sample Security Exits for EntireX Broker

Software AG intends security supplied by EntireX Broker to be only an alternative to EntireX Security, which is Software AG's standard security solution and shipped with EntireX. See *Overview of EntireX Security*. Do not mix these two security solutions: do not use a stub secured with a sample exit against a kernel secured with EntireX Security or vice versa.

Most organizations that use Software AG's EntireX choose EntireX Security instead of sample security exits for EntireX Broker security. If your organization is deploying distributed computer systems encompassing mainframe, UNIX and Windows environments, you will use EntireX Security instead of sample security exits for EntireX Broker security.

See *Sample Security Exits for Broker Security*.