

Setting up and Administering the Broker SSL Agent

The Broker SSL Agent is a gateway to the broker whenever direct SSL or TLS communication with the broker is not possible. Under Windows, use the delivered batch file `<drive>:\SoftwareAG\EntireX\EntireX\bin\sslbrokeragent.bat` to start the agent. This chapter covers the following topics:

- Common Scenarios
 - Using the SSL Agent
 - Activating Tracing for the SSL Agent
 - Architecture of the SSL Agent
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Common Scenarios

The most common scenarios for using the SSL Agent are where direct SSL communication to the Broker is not possible or it is not required by the network architecture.

Although in most cases the SSL Agent will be used from a Broker application written in Java, the SSL Agent can also be used from non-Java applications as long as the Broker stubs support SSL.

Using the SSL Agent

Class Name and Parameters

The SSL Agent is a standalone Java application. The class name is `com.softwareag.entirex.ba.SSLBrokerAgent`.

Specify the following parameters in the order given in this table when the SSL Agent listens on an SSL port:

Parameter	Explanation
1. Trace Option	Valid values: ON or OFF. Default: OFF. A dump of the buffers is written to standard output for diagnostic purposes.
2. Port Number	The port number the TCP Agent uses for incoming requests from Broker applications. Specify this port number as part of the broker ID in the broker application.
3. SSL Parameters	SSL parameters when the SSL Agent runs as an SSL server. SSL requires a (server) certificate with a private key. Specify with <code>key_store=filename</code> the file name of a Java keystore that contains the private key. SSL client authentication can be requested with the parameter <code>verify_client=yes</code> . In this case, specify with <code>trust_store=filename</code> the file name of a Java keystore containing the list of trusted certificate authorities that issued the client's certificate. The complete list of parameters could be <code>key_store=keystore&verify_client=yes&trust_store=castore</code> . Examples: <code>key_store=ExxJavaAppCert.jks trust_store=ExxCACert.jks</code> .
4. Password	The password which protects the private key. If the value <code>-prompt</code> is specified the password is read from standard input.
5. Broker Address	The SSL Agent sends all requests to this Broker using any legal Broker ID as in EntireX Java. The SSL Agent will use SSL communication if the address starts with <code>ssl://</code> .
6. Port Number for commands	The port number the SSL Agent uses for incoming commands from the System Management Hub.

Starting the SSL Agent

Under Windows, the EntireX distribution kit comes with a batch file to start the SSL Agent. Change the port number, the Broker address and the SSL parameters in file
`<drive>:\SoftwareAG\EntireX\EntireX\bin\sslbrokeragent.bat`.

Activating Tracing for the SSL Agent

Set the parameter Trace Option to "ON". See *Class Name and Parameters*.

Architecture of the SSL Agent

The architecture of the SSL Agent is shown in the following picture:

