

1896961 - HTTP/HTTPS Configuration for SAP NetWeaver Gateway

Component: OPU-GW-COR (Occasional Platform User > Gateway > Framework), Version: 1, Released On: 08.08.2013

| Symptom

This SAP Note concerns the system settings for the communications with an SAP NetWeaver Gateway hub system via HTTP or HTTPS.

| Other Terms

HTTP, HTTPS, SSL, CSRF, XSRF, SAP NW Gateway, Gateway Client

| Reason and Prerequisites

| Solution

First at all, no specific HTTP/HTTPS configuration settings for SAP NetWeaver Gateway are necessary. Your system administrators have to configure the SAP Web Application Server (SAP NW Gateway hub system) for HTTP and HTTPS.

Using HTTPS

To use HTTPS, the SAP NW Gateway hub system must be configured to support Secure Sockets Layer (SSL).

The following link describes how to configure the SAP web Application Server for supporting SSL:

http://help.sap.com/saphelp_nw70/helpdata/en/65/6a563cef658a06e100000000a11405a/frameset.htm

See also SAP Note 510007 for a brief description about the required configuration steps: <https://service.sap.com/sap/support/notes/510007>

HTTPS and the Gateway Client

If your SAP NW Gateway hub system only supports HTTPS and you want to use the test tool, Gateway Client (transaction /IWFND/GW_CLIENT on the SAP NW Gateway hub system), you have to configure your SAP NW Gateway hub system to act as an HTTPS client (configuration step: Creating the SSL Client PSEs). This is necessary because the Gateway Client acts as an HTTP/HTTPS client to the SAP NW Gateway hub system.

Using HTTP

- Necessary settings for CSRF token handling when HTTP is used

To protect Cross-Site Request Forgery attacks (CSRF or XSRF), SAP NW Gateway also supports CSRF token handling and returns a CSRF token if required by the OData consumer (HTTP/HTTPS client). On the other hand, this CSRF token must also be protected. Therefore, by default this token will only be sent if HTTPS is used. Default settings: The instance profile parameter "login/ticket_only_by_https" is set to 1.

When using HTTP you have to ask your system administrators to set the instance profile parameter "login/ticket_only_by_https" to 0. Otherwise, the SAP NW Gateway hub system does not provide a CSRF token and the next modify operation such as POST, PUT, MERGE or DELETE will be terminated with HTTP status code 403 because of an invalid CSRF token.

Ensure that this setting is only made for internal test systems because it is a high security risk!

- Deactivate "Redirect HTTP to HTTPS" to use HTTP

Normally, if an SAP NW Gateway hub system is configured to support SSL because of security reasons, your system administrators will also configure it to automatically redirect all HTTP requests to HTTPS to secure your system fully. The redirect setting is done by the instance profile parameter "icm/HTTP/redirect_xx". If you want to use HTTP for tests, you have to ask your system administrators to remove this redirect setting.

Don not forget to set the instance profile parameter "login/ticket_only_by_https" to 0 as mentioned above.

| This document refers to

SAP Note/KBA	Component	Title
510007		<u>BC-SEC-SSL-CFG</u>

| This document is referenced by

SAP Note/KBA	Component	Title
2618301		<u>SAP Gateway returns "Error when processing resource" for OData modifying requests (CUD)</u>
1891369	CA-FLP-ABA	<u>Opportunity and Account OData Services for SAP Jam</u>
510007	BC-SEC-SSL-CFG	<u>Additional considerations about setting up SSL on Application Server ABAP</u>