



EUMETSAT
TMPropagator

Doc. No.: HA.EPS.ORSF.RN.043

Issue: 1.0


Date: 8th September, 2023

TMPropagator

Release 3.5.2

Release Note

8th September, 2023

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Document Signature Table

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1 SCOPE

The document is the release note accompanying release 3.5.2 of the TMPropagator. This is a patch release which fixes a single blocking issue.

2 ISSUES FIXED BY THIS RELEASE

The following JIRA issues are considered fixed by this release;

TMPROP-470 Client unable to connect to Servers on version 3.5.0

3 ISSUES STILL OPEN AFTER THIS RELEASE

TMPROP-248 TCH display: cannot sort or navigate by execution time

TMPROP-289 Mission Selection on start up

TMPROP-372 [EPSSG/AR/2876] TM Propagator TC History MMI look and feel not aligned with MCS
TC History MMI


4 IMPROVEMENTS AND NEW FEATURES UNRELATED TO NON-CONFORMANCES

4.1 New Features Implemented as a Result of CN12

None

4.2 Other New Features

A small cosmetic fix has been made to the client to fully display the server name in the connection properties window.

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5 INSTALLATION INSTRUCTIONS

Please see the document *Configuration Manual for Gateway, Server and Dev Machine* for instructions.

This patch update contains only updates to the client application. The Server and Gateway are unmodified and the version numbers not updated. They do not need to be re-installed if version 3.5.1 has already been deployed. As an alternative to a full installation, a minimum number of files can also be updated to apply the fix in this patch as follows:


1. Install the client using the “ClientInstaller.msi” in the root of the distribution media.
2. Replace the client installer in the download folder of the server.
3. Follow the instructions below to configure an X.509 certificate for the server **(important)**.

This version requires an X.509 certificate for the server which has been issued by a recognised certificate authority, which encrypts the transmission of data between client and server and also authenticates the server to the client. There should be a certificate already on the operational servers, because they are required for the HTTPS connections from the client (e.g. for loading pages). Using an existing X.509 certificate installed for the web service has been successfully tested, and these instructions are based on this approach.

Important: a self-signed certificate cannot be used, as it will not be recognised by the clients which will refuse to connect.

To configure the server to use an X.509 certificate installed on the server:

1. Open the Internet Information Service (IIS) Manager.
2. Select the server node and then open the “Server Certificates” window by double clicking the icon in the main panel.
3. Double click on the certificate to be used for the TMPropagator server to open the details window. This will be the same certificate used for the web service.
4. In the details window, click on the “Details” tab and then double click the “thumbprint” field. Copy the thumbprint (hash) value which appears into the clipboard.
5. Start the TMPropagator server GUI, and stop the server so that the startup settings can be edited.
6. Click the “Edit” button to edit the startup settings and paste the certificate hash into the corresponding text input.
7. Click “OK” to save the settings and then restart the server.
8. Open the Windows MMC console by typing <Control>-R and then entering mmc.exe in the run command text box. The MMC console application should start.

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9. Click on the "File - Add/Remove snap-in" menu item and then select "Certificates" and click the "Add" button
10. In the next pop-up with three radio buttons, select the "Computer account" and click Finish.
11. In the next "Select computer" dialog, make sure "Local computer" is selected, then click Finish.
12. Click OK to dismiss the "Add or Remove Snap-ins" dialog.
13. Expand the "Certificates" node in the left panel and find the certificate used for the SSL connections. This will be the same one configured in IIS and also configured for the TMProp server as described in the release notes. On our test server, this was under the "Personal/Certificates" subtree.
14. Right click on the certificate in the main panel, and select "All tasks", then "Manage private keys".
15. In the dialog titled "Permissions for ... private keys", click the "Add" button and then enter the name of the account under which the TMProp server runs (this will probably be the currently logged on account). Click the "Check names" button to verify this account exists. If the name appears underlines, then it exists.
16. Click the OK button and verify that the checked permissions include at least "Read" and then click OK.
17. The MMC console can now be closed.
18. Try to connect with a client. It is possible the connection is successful, but if not, there will be an error message which looks something like this:

Exception when connecting to server Server1: Identity check failed for outgoing message. The expected DNS identity of the remote endpoint was 'www.heavens-above.com' but the remote endpoint provided DNS claim 'heavens-above.com. If this is a legitimate remote endpoint, you can fix the problem by explicitly specifying DNS identity 'localhost' as the Identity property of EndpointAddress when creating channel proxy.


If this is the case, then an additional setting is also necessary in the file

...\Server\InetPub\wwwroot\SourcDef\ORSFSource.xml

The "Server" element should have an attribute "certificateIdentity" which has to be set to the remote endpoint provided DNS claim. In the example error message this would be "heavens-above.com". Save the file and try again.

19. Clients should now be able to connect, even if they are not in the same Windows domain.

This release has been compiled for the .Net Framework 4.8, and may require this to be installed on the target machines. However, most recent versions of Windows already have this pre-installed.

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6 COMPATIBILITY TO PREVIOUS VERSIONS

The server and gateway are unmodified since version 3.5.1. Neither the client nor the server are compatible with versions prior to 3.5.

7 SYSTEM REQUIREMENTS

7.1.1 Operating System

The TMPropagator Gateway and Server require Windows Server 2019 or higher as the operating system. For the clients, Windows 10 or higher is required.

7.1.2 .NET Framework 4.8

All machines where any module of the TMPropagator software is installed requires the .NET Framework 4.8 (or higher) as a prerequisite.

Download and install the latest Microsoft .NET Framework version (4.8 at time of writing) for the machines operating system from the Microsoft web site. It is not necessary, or desirable, to uninstall the previous .Net versions first. This step might not be necessary if .NET 4.8 or higher is already installed. This can be verified by following the procedure given here;

<https://docs.microsoft.com/en-us/dotnet/framework/migration-guide/how-to-determine-which-versions-are-installed>

7.1.3 Hardware

A minimum of 8 GB memory is recommended for the Gateway and Server machines. This should be increased if many projects are to share the same hardware.

The disk usage depends almost entirely on the telemetry data rate and the desired length of archive. It is suggested to compare the anticipated data rates and archive duration of new projects to older projects when estimating disk space requirements.

The new stream types have also been found to generate considerable quantities of data which increases the size of the archive.

For the clients, any modern PC hardware should be sufficient. A minimum 4 GB memory is recommended.