



EUMETSAT
TMPropagator

Doc. No.: HA.EPS.ORSF.RN.036

Issue: 1.0

Date: 30th May, 2022


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TMPropagator

Release 3.3.3

Release Note

30th May, 2022

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1 SCOPE

The document is the release note accompanying release 3.3.3 of the TMPropagator. This is a relatively major release which fixes a number of issues and adds some new features.


2 ISSUES FIXED BY THIS RELEASE

The following JIRA issues are considered fixed by this release;

TMPROP-145	[MuMi/AR/3888] TM Propagator TMProp entity not properly configured
TMPROP-171	[MuMi/AR/4155] TMProp val chain not displaying some TM
TMPROP-235	[MTG/AR/3496] TM Propagator TMProp entity not showing stopped streams
TMPROP-326	TM Propagator 3.3.3 - NCR fixes
TMPROP-350	[MTG/AR/4939] TMProp out of memory on MTG backup gateway
TMPROP-357	[MTG/AR/5082] TMprop Entity not usable
TMPROP-360	Timestamps on xml dump files

3 ISSUES STILL OPEN AFTER THIS RELEASE

TMPROP-190	[MuMi/AR/4292] TM Propagator v3 log viewer not starting up
TMPROP-289	Mission Selection on start up
TMPROP-301	TM Propagator stream views

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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

4.2.1 TMPropagator Monitoring


The monitoring of the TMPropagator itself has been completely redesigned. It is no longer necessary to maintain a database and set of pages which need to be updated whenever a new server, gateway or entity instance is added. There is now a small number of new pages which correspond to each type of object being monitored, and these are automatically configured at run-time to show the data associated with the corresponding object. The pages use introspection to discover the monitorable properties, so when new properties are added, no changes are needed to the page design.

There is no archiving of TMPropagator data, so the playback controls are disabled in the client.

4.2.2 Improvements to MCS Message Logging

In previous versions, it was possible to record the message exchange for packet streams between the MCS and Gateway. These messages were all sent to a file which grew without limit until the stream handler was disabled or the Gateway shut down.

This release stores the messages in a rolling set of files which are automatically created and named according to the stream name, date and hour of the day. The message dumping can be enabled/disabled via the Gateway GUI as before.

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5 INSTALLATION INSTRUCTIONS

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

It is important to copy the pages stored in the directory

...\\Server\Inetpub\wwwroot\DisplayPages\TMProp

and replace any existing TMProp entity pages. The new TMProp monitoring function has a completely new set of pages and the old ones are no longer used.

Any existing TMProp database, such as TMProp.xml can be safely deleted from an existing database folder.

6 COMPATIBILITY TO PREVIOUS VERSIONS

None, as new message types have been added to both Gateway-Server and Server-Client communication.

7 SYSTEM REQUIREMENTS

7.1.1 Operating System

The TMPropagator Gateway and Server require Windows Server 2008 R2 or higher as the operating system.


For the clients, Windows 7 or higher is required.

7.1.2 .NET Framework 4.6

All machines where any module of the TMPropagator software is installed requires the .NET Framework 4.6 (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 4.6 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>

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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.