



**EUMETSAT**  
**TMPropagator**

**Doc. No.: HA.EPS.ORSF.RN.030**

**Issue: 1.0**


**Date: 17<sup>th</sup> September, 2021**

**TMPropagator**

**Release 3.3.1**


**Release Note**

**17<sup>th</sup> September, 2021**

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## Document Signature Table

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## 1 SCOPE

The document is the release note accompanying release 3.3.1 of the TMPropagator. This release is a major update to implement the changes requested to support the merging of multiple streams of all types except command history as part of Contract Change Notice No. 12. In addition, a number of both major and minor issues have been fixed.


## 2 ISSUES FIXED BY THIS RELEASE

The following JIRA issues are considered fixed by this release;


TMPROP-53	MSG1 BAD TM on TM Propagator
TMPROP-126	TM Propagator takes a long time to start
TMPROP-136	Support for MTG datastreams
TMPROP-196	Combining packet datastreams
TMPROP-212	TM Propagator v3 unordered stream list
TMPROP-222	TMProp v3.2.0 Verification: server throws error after saving role access exceptions
TMPROP-225	TM Propagator 3.3.1 - NCR fixes (except TMPROP-163)
TMPROP-229	TMProp v3: cumbersome user management
TMPROP-235	TMProp entity not showing stopped streams
TMPROP-247	Severe memory leak in TMProp client V3.2.1
TMPROP-258	Not possible to see all commands in TC History display in playback mode
TMPROP-263	TMPropagator client time jumping back and forth continuously in live mode
TMPROP-273	TM Propagator: client server incompatibilities
TMPROP-279	TM Propagator filters no scroll

## 3 ISSUES STILL OPEN AFTER THIS RELEASE

TMPROP-154	Object reference not set to an instance of an object error when adding parameters to a Time Plot in TM Propagator
TMPROP-163	Design traceability
TMPROP-185	TM Propagator disconnecting continuously

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- TMPROP-190      TM Propagator v3 log viewer not starting up
- TMPROP-216      TMProp v3: gateway performance decrease
- TMPROP-233      TM Propagator v3 gateway got stalled

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#### **4 IMPROVEMENTS AND NEW FEATURES UNRELATED TO NON-CONFORMANCES**

##### **4.1 New Features Implemented as a Result of CN12**

- The server and client now both support the merging of multiple streams of all types except telecommand history. Any number of streams can now provide updates to the archive and these are merged within the archive to form a single chronological sequence. The mechanism is similar to the merging of the previous S- and X-band TM streams, but the number of streams is now unlimited.
- The client header now allows the user to select any of the defined streams for the entity as the “live” stream. When in real-time mode, the selected stream updates drives the current display time.

##### **4.2 Other New Features**

- Filtering of packets is now done on the server, not the client. This reduces both network bandwidth and client memory usage, as only the data necessary for display is sent to the client.
- The user interface of the server has been modified to support multiple streams of different types. The administrator can select any of the defined streams to monitor, and a set of statistics for the selected stream is shown.
- The user database editor has been made easier to use. The administrator can add new roles and users just by typing in the last row of the table. Furthermore, for each user, there is a single column per defined role, and the user can be assigned to a role simply by checking the appropriate checkbox. Entities are assigned to roles in a similar manner.

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## 5 INSTALLATION INSTRUCTIONS

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

## 6 COMPATIBILITY TO PREVIOUS VERSIONS

The Gateway to Server interface has been slightly modified in this release to include a new message type to identify the stream type. The new Gateway is backwards compatible with the old Server, but not vice versa.

There has been no change to the archive file format this time, so old archive files can be read by the new Server version.

The Client/Server interface has changed significantly and older client versions will not work with the new Server, and vice-versa. If an older client version tries to connect to the new server, then the user is given an on-screen warning and told to install the latest version. The client then disconnects.

## 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>

### 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.

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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.