TMPropagator

Release 3.3

Release Note

31st May, 2021

	EUMETSAT TMPropagator	Doc. No.: HA.EPS.ORSF.RN.028
		Issue: 1.0
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Document Signature Table

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1   SCOPE

The document is the release note accompanying release 3.3 of the TMPropagator. This release is a major update to implement the changes requested to support more flexible specification of overall command verification status and the addition of OPS information to telecommands, as part of Contract Change Notice No. 12.

2   ISSUES FIXED BY THIS RELEASE

The following JIRA issues are considered fixed by this release;

TMPROP-195   Increased flexibility on TC History verification reporting

TMPROP-206   ICD with MCS and therefore TC History in TMProp client does not include execution orbit-angle for OPS commands

TMPROP-210   TM Propagator V3.3.0

TMPROP-231   SCC missing entries in OBEH

TMPROP-237   TM Propagator discards test parameters

3   ISSUES STILL OPEN AFTER 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-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-177   TMProp time toggling between desired time and D339-23:24

TMPROP-185   TM Propagator disconnecting continuosly

TMPROP-190   TM Propagator v3 log viewer not starting up

TMPROP-209   TM Prop AND display on LMC- parameter update is not consistent

TMPROP-212   TM Propagator v3 unordered stream list

TMPROP-216   TMProp v3: gateway performance decrease

TMPROP-229   TMProp v3: cumbersome user management

TMPROP-230   Cannot get instant plot for parameters outside of default AND displayed rows

TMPROP-233   TM Propagator v3 gateway got stalled

TMPROP-238   TM Propagator v3 registration counter no reset

4   IMPROVEMENTS AND NEW FEATURES UNRELATED TO NON-CONFORMANCES

4.1   New Features Implemented as a Result of CN12

- The telecommand messages have been extended to include both the overall verification status (mandatory) and the optional OPS (relative and absolute) fields. The overall verification status field is now used instead of the previous algorithm which used the verification status of each individual stage to compute the overall status. The overall status is indicated by colour coding the verification columns in the client display.

- The TC History page definition has been extended to require definition of the verification stage columns. An example display definition is included in the release.

- The TC History page definition also allows the specification of which OPS field to display in the OPS column. This is done via the element >ShowRelativeOpsValue> element.

4.2   Other New Features

None

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 modified in this release to include new mandatorz fields in the TC History messages. This means that backwards compatibility is NOT maintained and it is necessary to upgrade both Gateway and Server to the latest version. Furthermore, the archive format has also been modified, so and existing archive files on the server should be deleted before installation.

The Client/Server interface has also changed, so 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 <u>not</u> 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.

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.