| | EUMETSAT

TMPropagator | Doc. No.: HA.EPS.ORSF.RN.026 |
| :---: | :---: | :--- |
| | | Issue: 1.0 |
| | | Date: 16th March, 2021 |

TMPropagator

Release 3.2

Release Note

16th March, 2021

		EUMETSAT		Doc. No.:	HA.EPS.ORSF.RN.026
				Issue:	1.0
		TMPropagator		Date:	16th March, 2021

Document Signature Table

	Name	Signature	Date
Prepared by	C. Peat	*C. Peat*	16th March, 2021
Approved by	C. Peat	*C. Peat*	16th March, 2021

	EUMETSAT	Doc. No.: HA.EPS.ORSF.RN.026
		Issue: 1.0
		Date: 16th March, 2021
	TMPropagator	

Table of Contents

1 SCOPE

The document is the release note accompanying release 3.2 of the TMPropagator. This release is a major update to implement the changes requested to support user access authorization to TC History, On-board Events, Fixed and Variable packets, as part of Contract Change Notice No. 11.

2 ISSUES FIXED BY THIS RELEASE

The following JIRA issues are considered fixed by this release;

TMPROP-172   Further details about group permissions

TMPROP-178   TM Propagator V3.2.0

TMPROP-184   TM Propagator v3 misses data on the onboard events and tc history displays

TMPROP-186   OBEH Display on TM Prop wrong behaviour

TMPROP-187   TMProp format verification does not deliver an error log entry

TMPROP-190   TM Propagator v3 log viewer not starting up

TMPROP-191   TM Propagator v3 stream failed to reconnect

TMPROP-197   Fixed TM Packet Display shows multiple repeated entries for the same S6 TM Packet

TMPROP-198   TM Propagator Client HMI frozen after applying a filter on the Fixed TM Packets View

TMPROP-199   TMPropagator V3.1 client unresponsive Playback Control when opening Fixed TM Packet Display

TMPROP-200   Not possible to see all packets from Variable Packet Display when generated with frequency higher than 1Hz

TMPROP-202   Duplicated and missing information on On-Board Event GUI of TMProp client

TMPROP-203   Missing parameters, with empty cells, on On-Board Events GUI of TMProp client

TMPROP-204   TMProp G/W closes connection with TCPI in S6-MCS due to unexpected value received "-"

TMPROP-207   Very slow handling of TM(149,5) packets on TM Propagator Client VPD View

TMPROP-208   TM Propagator v3 RAW format is gone

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

TMPROP-211   Latest command missing on TC History Display on Propagator Client

TMPROP-213   TMProp portable defaults

TMPROP-214   Scrolling Display on TM Propagator Client not updating in Live mode

3   NON-CONFORMANCES STILL OPEN AFTER THIS RELEASE

TMPROP-53   MSG1 BAD TM on TM Propagator

TMPROP-126   TM Propagator takes a long time to start

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-212   TM Propagator v3 unordered stream list

TMPROP-216   TMProp v3: gateway performance decrease

	EUMETSAT	Doc. No.: HA.EPS.ORSF.RN.026
		Issue: 1.0
		Date: 16th March, 2021
	TMPropagator	

4 IMPROVEMENTS AND NEW FEATURES UNRELATED TO NON-CONFORMANCES

4.1 New Features Implemented as a Result of CN11

- The user and group editor windows on the Server have been replaced with a completely new user database editor. It is started using the button on the Server overview screen and can be used whilst the server is running.

- User groups have now been replaced with roles. A role defines the access rights of users who have the role to each type of data (TM, TC, on-board events, fixed and variable packets) for a particular entity.

- User accounts can be imported from the previous database version using the user database editor. User passwords are preserved, but entity access definitions specified in the previous user groups are not converted, and there is not a straightforward mapping to the new roles.

- The four new display types have been updated to only show data for which the user is authorised, as defined in the SRD. If the user does not have access to a packet or packet parameter, then this is clearly indicated in red coloured text, but no actual data is shown to the user. This is valid also for snapshots and data copied to the clipboard.

- The frame counter field of the TC History display can be configured to show the value in hex format. This is the default if no formatting is specified.

4.2 Other New Features

- The existing TC/Events Source Simulator has been updated to playback messages dumped by the Gateway whilst connected to a real MCS stream. The messages are adjusted for the current time and played back at the same rate as they were recorded. This feature is useful for testing with realistic data.

- Tool tips have been added to most of the column headers of the new display types. When the user hovers over them, they are presented with a popup text window describing the column values.

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 not been modified in this release, so the new Server should work with an older version of the Gateway, and vice-versa. However, it is recommended to upgrade both Gateway and Server to the latest version, because issues have been fixed in both modules.

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.