



MÄK Data Logger 3.7-ngc Release Notes

This document provides the following release-specific information for MÄK Data
Logger 3.7-ngc:

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Systems Supported

Logger 3.7-ngc is being released initially for the following platforms:

- ♦ PC with Windows 95/98/2000/NT 4.0
- ♦ Red Hat Linux 6.0
- ♦ SGI IRIX 6.5 n32
- ♦ Sun Solaris version 2.6 or later.

Logger API and Logger File API

You must have VR-Link 3.6.1 or later and its required compiler versions to use the Logger file library or the Logger API, but you do not need it to run the executables. See VR-Link documentation for information about required compiler versions.

You must have a VR-Link developer's license to compile plug-ins or applications that use the Logger API or Logger file API.

RAM and Memory Requirements

To install and run the Logger on a PC, we recommend the following minimum configuration:

- ♦ Pentium class PC 133 MHz or above
- ♦ 25 MB disk space
- ♦ 64 MB RAM.

On UNIX systems, the Logger requires the following amount of disk space:

- ♦ Linux and Sun Solaris - 26 MB
- ♦ SGI IRIX - 70 MB.

Online Help Browser Requirements

The online help system included with this release of the Logger is an HTML-based system. To view online help, you must have a web browser installed that supports Javascript and Java. Java and Javascript must be enabled.

Network Compatibility

HLA only

Logger 3.7-ngc is built against VR-Link 3.6.1. This change makes the Logger compatible with:

- ♦ RPR-FOM 0.5, 0.7, 0.8, and 1.0
- ♦ MÄK Real-time RTI 1.3.4-ngc
- ♦ DMSO RTI NG v1, v2, v3.0, v3.2.

Logger 3.7-ngc is compatible with applications that use earlier versions of VR-Link if they support versions of the RPR FOM listed above.

DIS only

Logger 3.7-ngc supports DIS 2.0.4, IEEE 1278.1, 2.1.4, and IEEE 1278.1a, and can therefore interoperate with DIS applications of any of these versions.

RTI Support

Logger 3.7-ngc comes with the MÄK Real-time RTI 1.3.4-ngc, which is link-compatible with DMSO RTI NG. Logger 3.7-ngc has been tested with DMSO RTI NG v1, v2, v3.0, and v3.2.



MÄK products no longer support the DMSO RTI versions 1.3v4 through 1.3v7, because DMSO no longer supports those versions of its RTI. If you need a version of the Logger that can run with the older versions of the DMSO RTI, contact MÄK and we can make arrangements to build you a version of the Logger to meet your needs.

Logger 3.7-ngc may work with older versions of the MÄK Real-time RTI, but we recommend using it with release 1.3.4-ngc.

When using the MÄK Real-time RTI, remember to make sure that the Logger can find your FED file, and optional *rid.mtl*, file by either putting them in the directory from which you are running, or by setting the environment variable RTI_CONFIG to the directory that contains them.



If you want to use the Logger with DMSO RTI NG v3.2, you must let your application choose object names, rather than the RTI. If you let the RTI choose object names, you will not be able to play back the Logger recordings.

RTI Library Names

Logger 3.7-ngc expects library names that match those of DMSO RTI NG v3.2. If you run Logger 3.7-ngc with DMSO RTI NG v3.2, both the UNIX and PC versions work without any modification. If you want to run Logger 3.7-ngc with DMSO RTI NG v1 or v2, you must make the following changes:

- ♦ For UNIX, you must use the libraries *libRTI-NGv2.so* or *libRTI-NGv1.so*, which are supplied by MÄK in the *.lib* directory. These libraries correspond to DMSO RTI NG v1 and v2. To use Logger 3.7-ngc with RTI NG v1 or v2, copy the appropriate library to the DMSO RTI NG *lib* directory and rename it *libRTI-NG.so*. (You might want to rename the v3.x *libRTI-NG.so* library first.)
- ♦ For PCs, rename the libraries that come with RTI NG v1 or v2 to the names used by the RTI NG v3.2 libraries (*libRTI-NG.lib* and *libfedtime.lib*).

FOM Support

Logger 3.7-ngc has built-in support for versions 0.5, 0.7, 0.8, and 1.0 of the RPR FOM. It also supports VR-Link's ability to support alternative FOMs through the FOM Mapper. By default, Logger 3.7-ngc uses RPR FOM 1.0.

For information about FOM mapping and selecting the correct FOM mapper, see Configuring the Logger for HLA in Chapter 2, "Installing and Configuring the Logger", in *MÄK Data Logger User's Guide*.

New Features and Other Changes

Logger 3.7-ngc has the following new features and changes:

- ♦ The command line interface is no longer a separate executable. It is integrated into the Logger executable.
- ♦ The plug-in API is now part of the Logger API.
- ♦ The Logger API allows you write plug-ins to extend the Logger, and to integrate Logger functionality into other applications. The API is described in Chapter 7, “Using the Logger API,” in *MÄK Data Logger User’s Guide*.
- ♦ New MTL and command-line options allow the Logger to ignore advisory messages.
- ♦ The number of annotations that you can store in an annotations file has been set at 1000. However, you can override this limit through the Logger API.
- ♦ The command line interface has new commands (open and record) that allow you to switch between playback and record mode.
- ♦ The Logger supports time scaling for aggregate entities.
- ♦ We have improved how the Logger consumes memory when you change position in a large recording.

Documentation Updates

MÄK Data Logger User’s Guide has been updated and re-issued for this release. It now has a quick reference card with startup options and commands for the text interface. All MTL commands for the Logger are documented in a new appendix. The documentation set in the *.doc* directory has new files that contain class diagrams and reference documentation for the Logger API.

The following paragraphs describe Logger behavior that is not noted in the user’s guide:

- ♦ Section 2.2.3 of *MÄK Data Logger User’s Guide* lists the subdirectories in the Logger directory. This list should include the *appsrc* directory, which contains some source files that you may need to use.
- ♦ The command line option *-i* instructs the Logger to send updates regardless of RTI advisory messages.
- ♦ When you play a recording in reverse using HLA, Logger packets may not contain enough information to properly identify entities. This is because HLA messages only send changes and the sequence of messages is incorrect for sending initial entity information.
- ♦ If you have a recording that has blank areas (that is, there was no network activity while the Logger was in record mode) at the beginning or end of the recording, the blank areas get truncated during playback.

Fixed Bugs

The following problems that were present in previous releases have been fixed:

- ♦ Pressing Stop in record mode did not work.
- ♦ In DIS, jumping to a new time resulted in all packets between the start and end time getting sent.
- ♦ The Logger crashed if the FOM class *LgrControl* was missing from the FED file.

Known Problems

Logger 3.7-ngc has the following known problems:

- ♦ The Logger script feature is not supported in this release.
- ♦ If you try to replay a recording when all entities cannot be registered with the RTI, the Logger crashes.
- ♦ In DIS, when you play a recording immediately after you have recorded it, the Logger display the following error message:

```
Tried to subtract InterestInPduKind to be lower than the number of  
callbacks for PDU kind #0.
```

You can ignore this message.
- ♦ On some systems, when you activate the on-line help, if you already have a web browser open, the online help does not open up. If this occurs, close your open browser, then activate online help again. It should open up the default browser and display the help file.
- ♦ When you play a recording in reverse, the time value may become negative.