



MÄK Data Logger 3.7.1-ngc Release Notes

This document provides the following release-specific information for MÄK Data Logger 3.7.1-ngc:

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Systems Supported

Logger 3.7.1-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 3.7.1 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 3.7.1-ngc was built against VR-Link 3.7.1-ngc and is compliant with:

- ♦ RPR-FOM 0.5, 0.7, 0.8, 1.0, and 2.0
- ♦ MÄK RTI 1.3.6-ngc
- ♦ DMSO RTI NG v1, v2, v3.0, v3.1, v3.2, and 4.0.

Logger 3.7.1-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 3.7.1-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 3.7.1-ngc comes with the MÄK Real-time RTI 1.3.6-ngc, which is link-compatible with DMSO RTI NG. Logger 3.7.1-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 3.7.1-ngc may work with older versions of the MÄK Real-time RTI, but we recommend using it with release 1.3.6-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 or later, 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 3.7.1-ngc expects library names that match those of DMSO RTI NG v3.2 or later. If you run Logger 3.7.1-ngc with DMSO RTI NG v3.2 or later, both the UNIX and PC versions work without any modification. If you want to run Logger 3.7.1-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 3.7.1-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 3.7.1-ngc has built-in support for versions 0.5, 0.7, 0.8, 1.0, and 2.0 of the RPR FOM. It also supports VR-Link's ability to support alternative FOMs through the FOM Mapper. By default, Logger 3.7.1-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

Logger 3.7.1-ngc features an updated GUI that provides support for internationalization. The updated GUI is now based on the Qt toolkit. The interface has translation files that you can edit to localize the Logger for different languages. This process is explained in section 2.7, “Localizing the Logger Interface”, in the PDF version of *MÄK Data Logger User’s Guide*, provided with this release.

The playfile example `./examples/loggerAPI/playfile` has been updated to work with the Qt toolkit.

Documentation Updates

The PDF version of *MÄK Data Logger User’s Guide* provided with this release contains minor updates for the new GUI, and explains how to create translation files to localize the Logger. The printed version of the manual does not currently have these updates.

Fixed Bugs

The following problem has been fixed:

- ♦ The time associated with an annotation is now the time when you click Add Annotation, rather than the time when you save the annotation.

Known Problems

Logger 3.7.1-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 displays 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.

- ♦ Skip time in HLA does have bad performance if you try to skip a large amount of time or try to skip backwards in the recording. To work around this you will have to add checkpoints to the recording. At the checkpoint all the data for all entities is rewritten to the file. This lets the logger find the closest checkpoint and read from there. It will increase the size of the file though.
- ♦ The script capability for the command line interface does not work.
- ♦ The DtSendToFile class does not work correctly.
- ♦ Netscape 6 has problems displaying the table of contents and index for the online help. Microsoft Internet Explorer works properly.