



MÄK Data Logger 3.7.2-ngc Release Notes

This document provides the following release-specific information for MÄK Data Logger 3.7.2-ngc:

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Systems Supported

Logger 3.7.2-ngc is being released initially for the following platforms:

- ♦ PC with Windows 2000/XP/NT 4.0
- ♦ Red Hat Linux 7.2
- ♦ SGI IRIX 6.5 n32
- ♦ Sun Solaris version 2.6 or later.

Logger API and Logger File API

You must have VR-Link 3.7.3 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.

Qt Toolkit Compatibility

The Logger GUI is built using the Qt Toolkit, a cross-platform GUI toolkit. If you use the Logger API to change the GUI, you need to get a Qt license and install Qt. Logger 3.7.2-ngc was built with Qt 3.0.5.

RAM and Memory Requirements

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

- ♦ Pentium class PC 400 MHz or above
- ♦ 52 MB disk space
- ♦ 64 MB RAM.

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

- ♦ Linux and Sun Solaris - 52 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. Javascript must be enabled.

Network Compatibility

HLA only

Logger 3.7.2-ngc was built against VR-Link 3.7.3-ngc and is compliant with:

- ♦ RPR-FOM 1.0 and a subset of 2.0 (draft 6)
- ♦ MÄK RTI 2.0-ngc
- ♦ DMSO RTI NG 6.0.

Logger 3.7.2-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 3.7.2-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 3.7.2-ngc comes with the MÄK RTI 2.0-ngc, which is link-compatible with DMSO RTI NG v6.

Logger 3.7.2-ngc may work with older versions of the MÄK RTI, but we recommend using it with release 2.0-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.

FOM Support

Logger 3.7.2-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 3.7.2-ngc uses RPR FOM 1.0.

The keywords for specifying different versions of the RPR FOM are:

- ♦ RPR FOM 0.5: `v1RPR05`
- ♦ RPR FOM 0.7: `v1RPR07`
- ♦ RPR FOM 0.8: `v1RPR08`
- ♦ RPR FOM 1.0: `v1RPR10`
- ♦ RPR FOM 2.0: `v1RPR20`.

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

- This release add support for the RPR FOM, 2.0, draft 6.
- This release is configured to drop fewer packets in DIS. This was accomplished by increasing the default socket receive buffer.

Setting the Socket Receive Buffer

You can configure the size of the socket receive buffer with the -B command line option, for example:

```
Logger -B buffer_size
```

where n is the size of the socket’s receive buffer in bytes. The default is 64000.

Fixed Bugs

The following problem has been fixed:

- The Logger can load FOM mappers that override *DtEntityStateRepository* or *DtAggregateStateRepository* without crashing the Logger.
- Online help navigation panes work correctly in Netscape.
- If you try to replay a recording when all entities cannot be registered with the RTI, the Logger does not crash.

Known Problems

Logger 3.7.2-ngc has the following known problems:

- The Logger script feature is not supported in this release.
- 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.

- 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.

