



MÄK Data Logger 3.8.1-ngc Release Notes

This document provides the following release-specific information for MÄK Data Logger 3.8.1-ngc:

Systems Supported	2
Logger API and Logger File API	2
Qt Toolkit Compatibility	2
RAM and Memory Requirements	2
Online Help Browser Requirements	2
Network Compatibility	3
RTI Support	3
FOM Support	3
New Features and Changes	4
Fixed Bugs	4
Known Problems	4

Systems Supported

Logger 3.8.1-ngc is being released for the following platforms:

- ♦ PC with Windows 2000/XP/NT 4.0
- ♦ Red Hat Linux 8.0
- ♦ SGI IRIX 6.5 n32
- ♦ Sun Solaris version 2.8.

Logger API and Logger File API

You must have VR-Link 3.8.1 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.

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 3.8.1-ngc was built with Qt 3.1.2.

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 3.8.1-ngc was built against VR-Link 3.8.1-ngc and is compliant with:

- ♦ RPR-FOM 1.0 and a subset of 2.0 (draft 6 and 14)
- ♦ MÄK RTI 2.0.2-ngc
- ♦ DMSO RTI NG v6.

Logger 3.8.1-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 3.8.1-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 3.8.1-ngc works with the MÄK RTI 2.0.1-ngc and DMSO RTI NG v6.

Logger 3.8.1-ngc works with older versions of the MÄK RTI, but we recommend using it with release 2.0.2-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.

FOM Support

Logger 3.8.1-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 3.8.1-ngc uses RPR FOM 1.0.

The keywords for specifying different versions of the RPR FOM with the `-f` startup option 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 darft 6: `v1RPR20006`
- ♦ RPR FOM 2.0 draft 14: `v1RPR20014`.

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 Changes

MÄK Data Logger 3.8.1-ngc is being released to provide the bug fixes listed below. There are no new features in this release.

Documentation Updates

The printed version of *MÄK Data Logger User's Guide* states that the MÄK RTI comes with, or is included with, all MÄK products. These statements mean that the MÄK RTI software is on product CDs. It does not mean that purchase of a MÄK product includes a MÄK RTI license. The MÄK RTI is licensed separately from other MÄK products.

Fixed Bugs

The following problems have been fixed:

- When used with HLA recordings, the lgrDump utility used to display “UNKNOWN” for the names of all objects (recorded on the recordings). It now displays the appropriate name (as recorded on the recording).
- When playing a recording in HLA, the first update for every object used to have incorrect dynamic information. Now, all updates (including the first updates) are issued with dynamic information that matches (within standard roundoff error) the dynamic information as recorded in the corresponding packet on recording.
- The special run mode in which the Data Logger runs without an interface was inaccessible in release 3.8. It is now available by specifying the `-G` option at startup, or by setting the `interfaceType` parameter to 0 in the *logger.mtl*.
- When packing and unpacking AHVP lists in updates' packets, there was a problem with the total count of AHV pairs in the list and the actual number of AHV pairs actually stored in the packet when one (or more) of the AHV pairs did not specify a value. This is now fixed. AHV pairs without values are dropped from the packet, and the total count is adjusted accordingly.
- There was a problem with playback in reverse direction when initiated from the end of a recording. You can now start a reverse-direction playback from the end of the recording.
- There was a problem, in certain special cases, reading the FOM description inside an HLA recording when using 64-bit file I/O. This has been fixed.

Known Problems

Logger 3.8.1-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.
- ♦ Skip time in HLA performs poorly if you try to skip a large amount of time or try to skip backwards in the recording.

