MÄK Data Logger 3.10.1 Release Notes

This document provides the following release-specific information for MÄK Data Logger 3.10.1:

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Systems Supported

Logger 3.10.1 is being released for the following platforms:

- PC with Windows 2000/XP
- Red Hat Linux 8.0 and 9.0
- SGI IRIX 6.5 n32
- Sun Solaris version 2.8.

Logger API and Logger File API

You must have VR-Link 3.9.1 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 3.10.1 was built with Qt 3.3.1.

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
- 110 MB disk space
- 64 MB RAM.

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

- Linux - 110 MB
- Sun Solaris - 144 MB
- SGI IRIX - 285 MB.

Network Compatibility

HLA only

Logger 3.10.1 was built against VR-Link 3.9.1 and is compliant with:

- RPR-FOM 1.0 and a subset of 2.0 (draft 6, 14, and 17)
- MÄK RTI 2.2
- DMSO RTI NG v6.

Logger 3.10.1 is compatible with applications that use earlier versions of VR-Link if they support versions of the RPR FOM listed above.

DIS only

Logger 3.10.1 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 3.10.1 works with the MÄK RTI 2.2, and DMSO RTI NG v6.

Logger 3.10.1 works with older versions of the MÄK RTI, but we recommend using it with release 2.2.

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 3.10.1 has built-in support for versions 0.5, 0.7, 0.8, 1.0, and 2.0, drafts 6, 14, and 17, of the RPR FOM. It also supports VR-Link's ability to support alternative FOMs through the FOM Mapper. By default, Logger 3.10.1 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: `vlRPR05`
- RPR FOM 0.7: `vlRPR07`
- RPR FOM 0.8: `vlRPR08`
- RPR FOM 1.0: `vlRPR10`
- RPR FOM 2.0 draft 6: `vlRPR20006`
- RPR FOM 2.0 draft 14: `vlRPR20014`
- RPR FOM 2.0 draft 17: `vlRPR20017`.

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

Logger 3.10.1 is being released to fix bugs in release 3.10. There are no new features.

Fixed Bugs

The following problems have been fixed:

- Objects were not properly removed from recordings made with older versions of the Logger.
- A memory allocation error has been fixed.
- The SQL plug-in did not correctly output object attributes such as position and velocity.

Known Problems

Logger 3.10.1 has the following known problems:

- The IRIX version of the Logger does not include the sqlSender plug-in.
- If you run the MÄK RTIspy LRC GUI with the Logger, the Logger may crash the second time you play a recording.
- 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.
- When you export data to a database, if objects in the simulation have articulated parts, you may receive errors message indicating that there is a problem copying the articulated parts data.