



MÄK Logger User's Guide Addendum B

This is the second addendum to *MÄK Logger User's Guide* (LOG-3.3-1-981007). It contains release-specific information for the MÄK Logger Release 3.5 and 3.5-ngc:

Systems Supported	2
Network Compatibility	2
New License File Required for Some Upgrades	3
RTI Support	3
FOM Support	4
New Features and Other Changes	4
Known Problems	6
Fixed Bugs	6

i

Because DMSO RTI 1.3 NG is not link compatible with the previous generation of DMSO RTI releases, we have released a separate version of the Logger for each version of the DMSO RTI: one that works with RTI NG, and one that works with the previous generation of RTIs. The version that supports RTI NG is installed in the directory *logger3.5-ngc*. The version that supports the previous generation of RTIs is installed in the directory *logger3.5*.

Systems Supported

Logger 3.5 is being released initially for the following platforms:

- ♦ SGI IRIX6.5 (Logger 3.5-ngc only)
- ♦ SGI IRIX6.2 or later (Logger 3.5 only)
- ♦ Sun Sparcstation with Solaris2.6 or later
- ♦ PC with Red Hat Linux 6.0 (Linux 2.2.5)
- ♦ PC with Windows NT, Windows 95/98, or SGI NT.

You must have VR-Link 3.5 and its required compiler versions to use the Logger library, but you do not need it to run the executables. See VR-Link documentation for information about required compiler versions.

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
- ♦ 45MB disk space
- ♦ 64 MB RAM.

Installation of the Logger on a UNIX machine requires approximately 75 MB of disk space.

Network Compatibility

HLA only

The Logger 3.5 is built against VR-Link 3.5. This change makes the Logger compliant with:

- ♦ RPR-FOM 0.5, 0.7, 0.8, and 1.0
- ♦ MÄK RTI 1.3.2
- ♦ DMSO RTI 1.3v4, 1.3v5, 1.3v6, 1.3NG.

If you run the HLA Logger 3.5 with version 0.5 of the RPR FOM, it is network compatible with applications that are using VR-Link 3.3. It is not network compatible with applications that use VR-Link 3.2 or earlier and it is not compatible with applications using VR-Link 3.3 if the Logger is using RPR FOM 0.7, 0.8, or 1.0.

DIS only

This release continues to support 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. However, we have not included support for DIS 2.0.3 - an obsolete 7-year-old draft version of the DIS standard. If you want to use DIS 2.0.3, please let us know at support@mak.com, and we will try to provide you with a solution.

New License File Required for Some Upgrades

If you are upgrading from a previous version of the Logger and you obtained your current license file prior to January 31, 1999, you must update your license file. Please send email to keys@mak.com to request the new license file. Include the original invoice number (as listed in the current license file) in the email.

If, when you try to run Logger 3.5, you receive the following error message, it means that you must update your license file, as explained in the previous paragraph:

```
"license server does not support this feature"  
The feature has expired (on the server), or has not yet started, or the  
version is greater than the highest supported version.
```

RTI Support

The NG-compatible version of Logger 3.5 comes with a version of MÄK RTI 1.3.2 that is link-compatible with DMSO RTI1.3 NG (makRti1.3.2-ngc). The Logger 3.5-ngc release has also been tested with DMSO RTI 1.3 NG.

The non-NG-compatible version of Logger 3.5 comes with a version of MÄK RTI 1.3.2 that is link-compatible with DMSO RTI 1.3 v4, v5, and v6 (makRti1.3.2). This release has been tested with those DMSO RTI 1.3 releases.

Due to slight network incompatibilities between MÄK RTI 1.3.1 and MÄK RTI 1.3.2 (including a switch to WinSock2 on the Windows platform), you need to move to MÄK RTI version 1.3.2 when you move to Logger 3.5.

When using the MÄK 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 Release 3.5 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. The default version of the RPR FOM supported by Logger Release 3.5 is version 1.0.

You can specify which FOM Mapping code to use with the `-f` startup option, in one of two ways:

```
Logger -f { v1RPR05 | v1RPR07 | v1RPR08 | v1RPR10 }  
Logger -f library:init_data
```

If the argument to the `-f` option is one of the `v1RPRxx` keywords, the Logger uses VR-Link's built-in RPR FOM mapper, configured for RPR FOM version 0.5, 0.7, 0.8, or 1.0 as specified by the keyword. For example:

```
Logger -f v1RPR05
```

This command instructs the Logger to use the built-in RPR FOM Mapper, configured for RPR FOM version 0.5.

Specifying A FED File that is Appropriate for the FOM Mapper

If you do not use the default version of the RPR FOM with the default FED file, you must specify the one you want to use. The Logger comes with the following FED files:

- *VR-Link.fed*, based on RPR FOM 1.0 (default FED file and RPR FOM version)
- *VR-Link08.fed*, based on RPR FOM 0.8
- *VR-Link07.fed*, based on RPR FOM 0.7
- *VR-Link05.fed*, based on RPR FOM 0.5.

The following example instructs the Logger to use the RPR FOM 0.5 FOM Mapping code (`-f v1RPR05`), and also instructs it to use the *VR-Link05.fed* file (`-x VR-Link05`).

```
Logger -f v1RPR05 -x VR-Link05
```



As an alternative to using the `-x` option, you could rename the *VR-Link05.fed* file to *VR-Link.fed*. If you do this, be sure to save the *VR-Link.fed* file as *VR-Link10.fed* or some other name before you rename *VR-Link05.fed*.

New Features and Other Changes

Logger 3.5 has the following new features and changes:

- Ability to delete Logger files from a remote application
- New default directory location on PCs
- License management changes on PCs.

Deleting Logger Files

MÄK VR-Link has a new Logger Control PDU, *DtLgrDelFilePdu*. It instructs the Logger to delete a Logger file. When the Logger receives this PDU, it decides whether or not to delete the file specified in the PDU based on the following criteria:

- ♦ If the MTL variable **allowRemoteFileDelete** is non-zero
- ♦ If the **-D** flag is set
- ♦ The default is to not allow deletion.

The file to be deleted must be a Logger file of the correct protocol, that is, the DIS Logger can delete only DIS files and the HLA Logger can delete only HLA files.

If the Logger receives a *DtLgrDelFilePdu* that specifies the filename *foo.lgr*, it searches for *foo.lgr* in its working directory. If the PDU specifies a relative pathname, such as *..\logger_tapes\foo.lgr*, the Logger searches for the file at that location relative to its working directory.

Diagnostic messages are sent to the *logger.txt* file.

To create a *DtLgrDelFilePdu*, use code similar to the following:

```
#include "lcDelFile.h"

DtLgrDelFilePdu deleteFile;
deleteFile.setFilename("logger_tape.lgr");
exerciseConn.sendStamped(deleteFile);
```

In HLA, add:

```
DtLgrControlInteraction lcInter;
lcInter.setLcPdu(deleteFile);
exerciseConn.sendStamped(deleteFile);
```

New Default Directory Structure on PCs

On PCs, the default installation directory is now *C:\MAK\Loggerx.x*. Formerly it was *C:\Program Files\MAK\Loggerx.x*. We made this change because directory names with spaces, such as *Program Files*, can cause confusion when they are part of environment variables.

License Management

On MS-Windows platforms only, the procedure for getting the host ID has changed slightly. Instead of opening a DOS command window and running *lmhostid.exe*, you can now double-click *loggerx.x\flexlm\lmhostid.bat*. A DOS window opens automatically, displays the host ID, and stays open so you can record the host ID.

Known Problems

The following problems are known, but do not interfere with your ability to use the Logger:

- ♦ Using the `L1` command line option (which is the default) can cause the Logger to crash when sending and receiving Logger control PDUs.

Fixed Bugs

The following bugs, which were present in previous releases have been fixed:

- ♦ The Logger window on UNIX did not always delete its entities when its window was closed.
- ♦ When using the DMSO RTI, Logger would crash if you tried to play a Logger file immediately after recording.
- ♦ When using the DMSO RTI, Logger would not record properly if you tried to record after other federates had already started.
- ♦ Performance enhancements have been made that improve the playback of HLA recordings when you play a recording faster than real-time.