Logger 5.10 Release Notes

This release note contains the following release-specific information for Logger 5.10.

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Systems Supported and System Requirements

This section describes platform support and system requirements for Logger.

For the most up-to-date information about systems supported, see the Product Versions page on the MAK web site at: https://www.mak.com/support/product-versions. For hardware requirements, see https://www.mak.com/support/hardware-recommendations.

MAK Data Logger 5.10 is available for the platforms listed in Table 1. For toolkit users, application code must be built with the indicated compilers in order to link to Logger libraries.

Table 1. Platforms supported

Operating System	Compiler
Windows 10	Microsoft Visual C++ 14.0 (64-bit)
Red Hat Enterprise Linux Workstation 8.0 (64-bit libraries)	default compiler

The Logger 5.10 C# remote control API is supported only for Windows.

The VC 14 build is binary compatible with all MAK VC 15 products.

Logger API

You must have VR-Link 5.8 and its required compiler versions to link the Logger libraries, but you do not need it to run the executables. Please see the VR-Link documentation for information about required compilers.

You must have a VR-Link developer's license to compile plug-in or applications using the Logger API.

Required Software for Toolkit Users

The Logger GUI is built using the Qt Toolkit, a cross-platform GUI toolkit. Logger 5.10 uses Qt 5.15.2 (VC14 and Red Hat 8). You do not need Qt to do development that does not affect the GUI. If you plan to build the Logger GUI, you must download and install the appropriate version. You can download it at: http://www.mak.com/support/bonus-material.

Qt is also available as a free download under the LGPL version 2.1 license at https://www.qt.io. This version should be satisfactory for most Logger customers. If you need a Qt commercial license, you must purchase the license from Qt.

Compiler Compatibility on Windows

MAK provides versions of product releases that have been compiled with different versions of Microsoft Visual C++ (for example, 12.0 and 15.0). When you run MAK products together on the same computer, for example, Logger and VR-Vantage, we strongly recommend that you run versions compiled with the same compiler. Mixing

products compiled with different versions of the compiler can result in program instability. The exception to this is that products built with VC 14 and VC 15 are binary compatible.

License Manager

To run the license version of Logger, you must install license management software. Logger 5.10 uses FLEXlm 11.17.1. If you are upgrading from a version of the MAK Data Logger that used an older version of FLEXlm, you must upgrade your license management files. You do not need a new license. Licenses are forward compatible.

The License Manager files are not part of the Logger installer. You can download them at:

- Windows: http://ftp.mak.com/out/MAKLicenseManager-win64-setup.exe
- Linux: http://ftp.mak.com/out/MAKLicenseManager-linux64-setup.tar.gz

A license manager FAQ is available at https://www.mak.com/support/license-support

ODBC Driver Support

The Logger database export feature supports the following ODBC drivers:

- MySQL ODBC 2.50 Driver
- MySQL ODBC 5.351 Driver
- MySQL ODBC 5.1 Driver
- MySQL ODBC 5.2w Driver
- Microsoft Access

A 64-bit connector is required.

You can download the MySQL 5.1 server and connector can at:

- server: http://dev.mysql.com/downloads/mirror.php?id=411970
- connector: http://dev.mysql.com/downloads/mirror.php?id=411736

Network Compatibility

Logger 5.10 is compliant with RPR FOM 1.0 and RPR FOM 2.0 and includes FOM mappers for many draft versions of the RPR FOM. It is compliant with RTIs that support the HLA 1.3 specification, the SISO DLC HLA API 1516 version of the IEEE 1516 specification (SISO-STD-004.1-2004), or HLA Evolved. MAK recommends HLA Evolved.

To use an RTI with Logger, it must use the same operating system and be built with the same compiler.

Logger 5.10 supports DIS 4, 5, 6, and 7, and can therefore interoperate with DIS applications of any of these versions. MAK recommends DIS 7.

RTI Support

We recommend using the latest version of the MAK RTI. However, the Logger should work with other RTIs that conform to the HLA 1.3 specification, the IEEE 1516 SISO DLC API, or HLA Evolved and are built using the same compiler as your version of the Logger.

When using the MAK 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 the directory that contains them

RPR FOM Versions Supported

Logger 5.10 has built-in support for RPR FOM versions 0.5, 0.7, 0.8, 1.0, 2.0 drafts 6, 14, 17, and 20, and RPR FOM 2.0 final version. It also supports VR-Link's ability to support alternative FOMs through the FOM Mapper. By default, Logger 5.10 uses RPR FOM 2.0.

For information about FOM mapping and selecting the correct FOM Configuring the Logger for HLA in Chapter 2, "Installing and Configuring the Logger", in the *MAK Data Logger Users Guide*.

Backwards Compatibility

Logger 5.10 can play files recorded with previous versions. It may prompt you to save them to the current format. The Logger file format changed in Logger 5.4. Files recorded by Logger 5.10 cannot be played by Logger 5.3 or earlier.

New Features and Updates

Logger 5.10 has the following new features and updates.

- MAK Data Logger installer now sets the default installation directory based on the MAK_INSTALL_DIR environment variable, if one is set.
- Dark mode is now the default in the graphical user interface. Light mode, the former standard, is also available. See "Disabling and Enabling Dark Mode" in the *MAK Data Logger Users Guide*.
- HLA Connection settings now use a new set of FED/FDD files:
  - HLA1.3 connects using *MAK-RPR2-1-10.fed*.
  - HLA1516 connects using *MAK-RPR2-1-10.xml*.
  - HLA1516E upgraded the DI-Guy FOM Module to *MAK-DIGuy-7_evolved.xml*.
- The fields in the Connection dialog box are now read-only when there is a connection, rather than being disabled. This allows you to select and copy the connection parameter values to use or share as needed.
- When you specify filters, they are now preserved through the session, even when you use the Stop command. You no longer need to specify them again.

- The online help, accessed from the Help menu, is now in an HTML format with a more modern look and an improved search utility. The help is built into Logger and does not require an internet connection.

Documentation Updates

Documentation has been updated for this release. The guides are provided as PDF files in the *./doc* directory. Online help is available from the Logger Help menu. You can also find the most current PDFs at https://www.mak.com/support/product-user-guides. (You must be able to log in to the web site.)

Fixed Bugs

Problems identified in previous releases have been fixed.

- Fixed issues to ensure that batch scenarios longer than 30 seconds work correctly. Previously, there were issues with the visual display and the time bar. LOG-220
- Fixed another issue with batch scenarios that prevented packets from showing up in the packet count view after the first batch run. LOG-221

Known Problems

This section lists known problems with Logger functionality:

- When recording VR-Forces Batch Scenarios, you must turn off the "Listen When Idle" feature to record each batch run successfully. If Listen When Idle is enabled, the Logger records only the first scenario successfully and then each subsequent recording in the batch is empty. You can disable "Listen When Idle" through the lgrConfig files. LOG-253

For information about other issues that you might encounter while using the Logger, see the *Troubleshooting* appendix in the *MAK Data Logger Users Guide*.