MÄK Gateway 4.1.1 Release Notes

This release note provides release-specific information for MÄK Gateway Release 4.1.1.

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System Requirements

This section lists supported platforms and hardware and software requirements.

Platforms Supported

The Gateway Release 4.1.1 supports:

- Windows 2000/XP
- Red Hat Linux 8.0/9.0/Enterprise 3.0.

Software Requirements

The Gateway uses various supporting software packages. Refer to manufacturers' instructions for installation.

- One of the following RTIs for your operating system:
- MÄK RTI 2.x
- DMSO RTI-NG 1.3 v6 (Windows only).

RPR FOM Support

The Gateway 4.1.1 release supports the following versions of the RPR FOM:

- RPR FOM 0.5 – *VR-Link05.fed*
- RPR FOM 0.7 – *VR-Link07.fed*
- RPR FOM 0.8 – *VR-Link08.fed*
- RPR FOM 1.0 – *VR-Link10.fed*
- RPR FOM 2.0 draft 6 – *VR-Link20006.fed*
- RPR FOM 2.0 draft 14 – *VR-Link20014.fed*
- RPR FOM 2.0 draft 17 – *VR-Link20017.fed*

See Section 3.2.2, “Specifying the FOM Mapper and FED File to Use,” in *MÄK Gateway User’s Guide* for details about how to use different versions of the RPR FOM.

DIS Protocols and RTIs Supported

HLA only

Gateway 4.1.1 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 2.1
- DMSO RTI NG 6.

Gateway 4.1.1 is compatible with applications that use earlier versions of VR-Link if they support versions of the RPR FOM listed above.

DIS only

Gateway 4.1.1 supports DIS 2.0.4, IEEE 1278.1, and IEEE 1278.1a, and can therefore interoperate with DIS applications of any of these versions. By default, the Gateway receives all three versions of DIS and sends IEEE 1278.1.

New Features and Updates

This release of the MÄK Gateway has the following changes:

- Absolute timestamp mode
- Handling unknown objects
- Support for FLEXlm 9.2.

Absolute Timestamp Mode

In absolute timestamp mode, the Gateway sends PDUs or HLA interactions with absolute timestamps. The timestamps are generated based the system clock of the computer on which the Gateway is running. Therefore, the system clock of the computer running the Gateway must be synchronized with the other computers in the exercise. You enable or disable absolute timestamps with the **timeStampAbsolute** parameter in the *gateway.mtl* file, as follows:

```
(setqb timeStampAbsolute mode)
```

where *mode* is:

- 0 = Relative timestamps
- 1 = Absolute timestamps.

Default: 0.

Handling Unknown Objects

When the gateway discovers an object that it cannot translate, and which it will drop, it lists the object in the GUI with "dr" in the left-most column.

The reasons for which an object may be dropped include:

- An inability to map a DIS object to a FOM object (because the FED file does not support it)
- A name conflict.

Support for FLEXlm 9.2

The Gateway requires FLEXlm 9.2. If you have not already updated your FLEXlm directory as part of installing another MÄK product, you must update the license server.

If this is the first time you are installing a MÄK product, just follow the steps for installing license management that are in *MÄK Gateway 4.1 Release Notes*.

To update your *flexlm* directory:

1. If the license server is running, shut it down with *lmdown*.
2. Back up the files in the *flexlm* directory on the license server (*C:\flexlm* on Windows, typically */usr/local/flexlm* on UNIX). (For example, to *flexlm.old*.)
3. Copy all of the files in *gateway/flexlm92* to the *flexlm* directory on the license server.
4. Copy your license files (*.lic* or *.dat*) from the backup directory to the *flexlm* directory.
5. Start the license server.
6. Run the Gateway and verify that it is checking out a license.

FLEXlm is backwards compatible, so you do not have to change your license file, and MÄK applications built with earlier versions of FLEXlm will continue to work with FLEXlm 9.2. If you have any problems or questions, contact MÄK support at support@mak.com.

Documentation Updates

Please note the following correction to the printed version of *MÄK Gateway User's Guide* (the PDF version has the correct information):

- Section 1.3 in *MÄK Gateway User's Guide* lists the PDUs supported by the Gateway. The Gateway also supports Logger Control and View Control PDUs. Therefore, the MÄK Logger and MÄK Stealth can be controlled via the Gateway.
- The printed version of *MÄK Gateway 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.
- On page A-2, the last paragraph states that the Gateway loads the *Logger.mtl* file. It should state that the Gateway loads the *gateway.mtl* file.
- *MÄK Gateway User's Guide* does not list the discovery criteria for the EntityTranslator object. To publish an EntityState PDU, the Gateway must receive a valid EntityIdentifier attribute. An EntityIdentifier is valid if it is not 0:0:0.

Bug Fixes

This section describes problems that have been fixed in this release:

- When renameDisObjects was set to 1, the Gateway was not discovering HLA entity objects if the entity ID was empty. Now the Gateway will always discover entity objects immediately.
- The Gateway no longer crashes when it receives a DIS object that is not in the FOM. It now drops the object, which is the expected behavior.
- When an object marked "inc" in the GUI sent its complete information to the Gateway, if the object was not moving, the "inc" marker was not removed from the display. The marker is now removed at the correct time.
- The Track/Jam list for emitter beams is now correctly translated.