



MÄK Gateway 4.0.1-ngc Release Notes

This release note provides release-specific information for MÄK Gateway Release 4.0.1-ngc.

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System Requirements

This section lists supported platforms and hardware and software requirements.

Platforms Supported

The Gateway Release 4.0.1-ngc supports:

- ♦ Windows NT 4.0/2000/XP
- ♦ Red Hat Linux 8.0.

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 2.0.2-ngc
 - DMSO RTI-NG 1.3 v6 (Windows only).

RPR FOM Support

The Gateway 4.0.1-ngc 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*

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 4.0.1-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 6.

Gateway 4.0.1-ngc is compatible with applications that use earlier versions of VR-Link if they support versions of the RPR FOM listed above.

DIS only

Gateway 4.0.1-ngc 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

This release of the MÄK Gateway has the following changes:

- ♦ New configuration parameters:
 - Specify translators that are off by default
 - Specify that translators start with debugging turned on
 - Dump object updates to the log file.
- ♦ Improved performance of the GUI.

New Configuration Parameters

Gateway 4.0.1-ngc has the following new configuration parameters in the *gateway.mtl* file:

- ♦ disabledTranslators
- ♦ debuggedTranslators
- ♦ dumpGuiToText
- ♦ hlaUseAdvisories.

Disabling Translators

All translators are on by default. You can now use the **disabledTranslators** parameter to specify translators that you want to be off by default, for example:

```
(setq disabledTranslators
  (list
    "Fire"
    "Detonation"
    "EntityState"
    "Acknowledge"
  )
)
```

You can still change settings for all translators in the GUI.

Specifying Debugging

All translators have debug output turned off by default. You can now use the **debuggedTranslators** parameter to specify translators that you want to start with debugging turned on, for example:

```
(setq debuggedTranslators
  (list
    "Detonation"
    "Designator"
    "IFF"
    "LoggerControl"
  )
)
```

If the translator is not active during translation, there will not be any output.

Dumping Text to A File

When an interaction, or an object update is received by the gateway, the GUI is updated to reflect the update. However, for debugging, its often useful to dump this information to the Gateway log file. The **dumpGuiToText** parameter allows you to do this.



Dumping text to the log file substantially increases the amount of file writing that the Gateway does and may negatively affect preformance.

```
(setqb dumpGuiToText mode)
```

where *mode* is one of the following:

- ♦ 0 = Do not dump text
- ♦ 1 = Dump text.

Using RTI Advisories

The `hlaUseAdvisories` parameter specifies whether the gateway should use RTI advisory messages when determining what attributes to update.

```
(setqb hlaUseAdvisories mode)
```

where *mode* is one of the following:

- ♦ 0 = Send attribute updates regardless of whether or not someone has subscribed to the attribute with the RTI.
- ♦ 1 = Send attribute updates only if someone has subscribed to the attribute.

Default: 1.

Documentation Updates

- ♦ 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.

Bug Fixes

- ♦ This release of the Gateway reports dropped updates and interactions more consistently.
- ♦ The signal translator now translates the radio ID.
- ♦ The Gateway no longer crashes when it tries to publish object or interactions that are not in the FOM beings used.
- ♦ The embedded systems translators now correctly translate entity ID and host ID from HLA to DIS.
- ♦ The DataQuery Translator now translates variable data correctly.
- ♦ The EnvironmentalProcess translator now converts the EPID from HLA to DIS correctly.

