



MÄK Gateway 3.4 Release Notes

This release note provides release-specific information for MÄK Gateway Release 3.4. This is the first release of this product by MÄK Technologies. The Gateway was previously available as the HLA Gateway from the Institute for Simulation and Training under contract to STRICOM.

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System Requirements

This section lists supported platforms and hardware and software requirements.

Platforms Supported

The Gateway Release 3.4 supports the following operating systems:

- ♦ SGI Irix 6.X
- ♦ Linux 2.2
- ♦ Windows NT 4.0.

Software Requirements

The preferred platform for the Gateway graphical user interface (GUI) is Windows NT 4.0. The other platforms have some problems with the GUI's use of Java's Swing functionality.

Software:

The Gateway uses various off-the-shelf supporting software packages. Refer to manufacturers' instructions for installation.

- ♦ One of the following RTIs for your operating system:
 - MÄK RTI 1.3.2
 - MÄK RTI 1.3.2-ngc
 - DMSO RTI version 1.3v6
 - DMSO RTI-NG 1.3v2
- ♦ Java 2 Virtual Machine (JVM) (JDK 1.3 and JRE 1.3). The JVM is optional. You need it to run the Gateway graphical user interface (GUI).



Releases of the JVM and JDK change fairly often and older versions may not be available. New versions are usually backwards compatible, but we cannot guarantee that the Gateway GUI will work with a later version than the one on which we tested it.

Hardware Requirements

The Gateway requires the minimum hardware configurations described in this section.

SGI IRIX

Hardware:

- ♦ SGI Workstation (Indy, O2, or equivalent)
- ♦ 64 Mb of physical memory.
- ♦ 70 MB hard disk space
- ♦ Optionally, a second Ethernet network interface.

Linux

Hardware:

- ♦ Intel compatible Workstation,
- ♦ 64 MB of physical memory.
- ♦ 15 MB hard disk space
- ♦ Optionally, a second Ethernet network interface.

Windows NT

Hardware:

- ♦ IBM-PC compatible machine with Pentium-class CPU (or above)
- ♦ 32 MB of physical memory
- ♦ 15 MB disk space.

RPR FOM Support

The Gateway 3.4 release is implemented using the RPR FOM 1.0 release. The principal changes that the Gateway FOM makes to the RPR FOM 1.0 are as follows:

- ♦ The Gateway adds the IFF object classes.
- ♦ It treats some attributes as conditional that have been specified as static in the RPR FOM
- ♦ The Gateway does not support any of the RTI object name based SIMAN interactions.

For complete details of these changes, see [Table 1](#).

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Some attributes defined by the Gateway FOM as conditional may actually be static. The RPR FOM 1.0 defines some variables as static that have been reclassified as conditional in the Gateway FOM. The Gateway will not prevent these attributes from changing; however, the DIS data will probably never change. To test compliance, you would have to determine whether or not the targeted DIS application changes the values of the associated PDU fields.

Table 1: Differences between the RPR FOM 1.0 and the Gateway FOM

Class	Attributes/Parameters	Difference
Designator	CodeName DRAlgorithm	Update types changed from static to conditional (see note)
PhysicalEntity	HasAmmunitionSupplyCap HasFuelSupplyCap HasRecoveryCap HasRepairCap	Update types changed from static to conditional (see note)
ActionRequestToObject	All	Deleted interaction class
ActionResponseFromObject	All	Deleted interaction class
AttributeChangeRequest	All	Deleted interaction class
AttributeChangeResult	All	Deleted interaction class
CreateObjectRequest	All	Deleted interaction class
CreateObjectResult	All	Deleted interaction class
RemoveObjectRequest	All	Deleted interaction class
RemoveObjectResult	All	Deleted interaction class
Note: RPR FOM 1.0 defines static update type. It is probably the case that the DIS data is static, but the HLA Gateway will allow this attribute to change.		

DIS Protocols and RTIs Supported

The Gateway is provided in two versions. One version is compatible with the DMSO RTI 1.3vx and MÄK RTI 1.3.2. The other version is compatible with the DMSO RTI NG and MÄK RTI 1.3.2-ngc. Both versions have executables for the following versions of the DIS protocol:

- ♦ IEEE 1278
- ♦ IEEE 1278A
- ♦ DIS 2.0.4.

Product Updates and Changes

This release of the MÄK Gateway has the following changes:

- ♦ The GIANT FOM and FED file are replaced with the VR-Link FED file and VR-Link federation, which have built-in support for the RPR FOM.

