



VR-Exchange 2.9 Release Notes

This release note contains release-specific information for VR-Exchange 2.9.

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Systems Supported and System Requirements

For information about platform and system support, see the Product Specifications & Dependencies page on the MAK website at: <https://www.mak.com/mak-one-specs>.

For hardware requirements, see <https://www.mak.com/mak-one/support/help/hardware-recommendations>.

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

If you require TENA support, contact support (<https://www.mak.com/mak-one/support/portal>) for assistance.

DDS Support

VR-Exchange supports the RTI DDS Broker. Requires the RTI Connex DDS Software. You can download it from <https://www.rti.com>. The RTI DDS broker is supported on all platforms.

License Manager

VR-Exchange 2.9 uses FLEXlm 11.17.1. You must install the license management software to run VR-Exchange.

The MAK License Manager files are not part of the VR-Exchange installer. You can download them from the MAK ONE Product Downloads page (<https://www.mak.com/mak-one-downloads>).

Installation of the license manager is covered in the *MAK ONE Installation Guide*, available online at <https://mak.com/mak-one-installation-guide>. Support is also available at <https://www.mak.com/mak-one/support/portal>.

Network Compatibility

VR-Exchange 2.9 is compliant with NETN FOM (which is an extension of RPR FOM 2.0). 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 (IEEE 1516-2010). MAK recommends HLA Evolved.

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

VR-Exchange 2.9 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, VR-Exchange 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 VR-Exchange.

When using the MAK RTI, remember to make sure that VR-Exchange 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 to the directory that contains them.

See the *VR-Exchange Users Guide* or help to learn about the VR-Exchange 2.9 HLA Evolved broker.

Major Updates

VR-Exchange 2.9 has the following updates.

- VR-Exchange 2.9 is built with VR-Link 5.9.
- VR-Exchange translation supports the MAK ONE updates to IFF modes for HLA and DIS. Those changes include implementations of modes 3C, 5, S, and TCAS. The translations for these modes are limited.
- The HTML5 help is now available on the mak.com website, as well as being installed locally.

Fixed Bugs

Problems identified in previous releases have been fixed.

- The assignment operator and copy constructor in `DtPortalAcknowledgeInteraction` were each missing three attributes: `originatingEntity`, `receivingEntity`, and `requestIdentifier`. This has been addressed. VRX-81
- Improved the way IDs are mapped to be set as the strings coming into the DIS broker from the portal. VRX-82
- Updated the default Federation name for each HLA broker connection to "MAK-One-2024". VRX-93
- Implemented missing functionality for DI-Guy patch attributes in `DtPortalDiGuy`, `DtEntityTranslator`, and `DtPortalMessage`. VRX-94
- The About box now provides more information. VRX-96
- Changed implementation of how translators receive DI-Guy updates in the portal. Changed `sendDiGuyPdus` to `sendDiGuyInformation` in `DtDisBrokerInitializer`, `DtDisBroker`, `DtDisGeneralSettingsWidget`, and `DtEntityTranslator`. VRX-98

Known Problems

Problems can arise with any product. MAK has a knowledge base of the problems that we know about, which is always changing as new problems are identified and new solutions are found. To learn how to address known problems with VR-Exchange and other MAK ONE products, access the MAK ONE Product Support Knowledge Base:

<https://www.mak.com/knowledge>.

If the problem you are experiencing is not addressed in the knowledge base, contact support for assistance: <https://www.mak.com/mak-one/support/portal>.

For information about issues that you might encounter while using VR-Exchange, see the [Troubleshooting](#) appendix in the *VR-Exchange Users Guide*.

