



RFView® for MAK ONE 1.1

Release Notes

This release note contains release-specific information for RFView® for MAK ONE 1.1, which is built on VR-Vantage 3.2.

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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, visit <https://www.mak.com/mak-one/support/help> and click the Hardware Requirements link.

Compiler Compatibility on Windows

MAK provides versions of product releases that have been compiled with different versions of Microsoft Visual C++. MAK ONE products built with VC++ 14 and later are binary compatible and will work together. When you run MAK ONE products together on the same computer, for example, VR-Vantage, we strongly recommend that you run versions compiled with the same compiler or binary compatible compilers.

MAK RTI HLA 4 binary file names conform to the SISO-REF-075 standard, which includes a compiler marker to specify the compiler version. This prevents HLA applications from loading binary files from non-compatible compilers. The MAK RTI HLA 4 libraries are built using the Visual Studio 2017 compiler and use the vc141 compiler marker.

Disk Space Requirements

A full installation of RFView for MAK ONE requires approximately 7.75 GB of disk space and an additional 80 GB for the complete makData 19 package, including the supplemental data package.

The makData Package and Product Compatibility

RFView for MAK ONE 1.1 is built against VR-Vantage 3.2 and VR-Link 5.10. They use the shared makData 19 package. MAK ONE applications can share the same data package. For instructions on installing the data, see "[The makData Package](#)" in the *RFView for MAK ONE User Guide*.

License Manager

RFView for MAK ONE 1.1 uses FLEXlm 11.17.1. You must install the license management software to run RFView for MAK ONE.

The MAK License Manager files are not part of . 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>. You can also contact your MAK distributor or use the [Support Portal](#) at <https://www.mak.com/mak-one/support/portal> if you need assistance.

New Features and Major Changes

RFView for MAK ONE 1.1 has the following new features and updates.

- RFView for MAK ONE supports the new HLA 4 (IEEE HLA 1516-2025) interface specification.

Configuration

- You can now specify the return port that RFView Sidecar uses to send network messages, rather than one that the operating system would choose. This improves the computer's overall security.

SAR Images

- The doppler shifts of trees' branches and leaves moving in the wind is now represented in SAR images. If there are trees and wind present in the scene, the individual trees appear blurry.
- All helicopter rotor blades and airplane propellers now display more accurately in SAR images, with appropriate smear based on their rotational velocity.
- RFView for MAK ONE now visualizes entities' articulated parts, such as rotating radar dishes. They appear smeared in the SAR images if they are rotating at the time the user captures the image.
- In VR-Forces, users can toggle an entity's jammer on or off. This information is sent across the network. VR-Vantage reads this information from the network and can display a dome over an entity when its jammer is enabled. Active jammers now also affect the image that RFView for MAK ONE produces. (This does not apply to entities with a jamming effect that displays as a cone in VR-Vantage.)
- When users make changes to the height of the ocean in VR-Vantage, the RFView Sidecar now reflects that ocean height. This ensures that coastlines display the same between the two applications, and therefore it correlates in the SAR image captured by the client application.
- Added support for simulating SAR from satellites. Previously, RFView for MAK ONE limited the distance between the sensor and the aimpoint to 1000 km or less. It now allows for a height of up to 2000 km. There are presets in the Simple Client to demonstrate this functionality.

User Interface

- You can make changes to the parameters for jammers in RFView Sidecar. Refer to the RFView Sidecar documentation for details.

Performance

- There is now support for the asynchronous paging of terrain, which improves performance while loading the terrain for a new target.

API Changes

- Added DtCaptureContext and DtCaptureContextManager to handle the starting and updating of captures. This enables the support for asynchronous paging of terrain.

Fixed Bugs

Problems identified in previous releases have been fixed.

- RFMO-14. There was an issue where some geometry was not paged into the application. This was fixed by adding support for asynchronous paging of terrain.
- RFMO-50. The PDB installer now automatically finds the directory where you installed RFView for MAK ONE and defaults to that as the default installation location, even if it is not the standard installation folder.
- RFMO-67. Updated the user documentation to use the presets included with the Simple Client.
- RFMO-69. There are now shortcuts to the RFView for MAK ONE user documentation, in addition to those for launching the application. This is consistent with other MAK ONE products.
- RFMO-70. The highest LOD of all entities in the scene are now sent to RFView Sidecar regardless of the down range and cross range.
- RFMO-88. There was an issue where the top of a mountain was clipped. This was fixed by an update to RFView Sidecar.
- RFMO-89. Previously, the Simple Client did not work if it was running on a machine separate from RFView for MAK ONE and the RFView Sidecar. This was fixed by an update to RFView Sidecar.

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 RFView® for MAK ONE 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, please contact your MAK distributor or use the [Support Portal](#) at <https://www.mak.com/mak-one/support/portal>.