

Release Notes

IRIS Focus
Version 3.0



PUBLISHED BY

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1. About This Document

1.1 Version Information

This document provides information on IRIS Focus releases.

Table 1 Document Versions

Document Code	Date	Description
M211904EN-B	March 2017	Second version of this document for IRIS Focus 3.0.
M211904EN-A	May 2016	First version of this document for IRIS Focus 2.1.

1.2 Related Documents

Table 2 Related Documents

Document Code	Name
M211850EN	<i>IRIS Focus Administrator Guide</i>
M211849EN	<i>IRIS Focus User Guide</i>
M211904EN	<i>IRIS Focus Release Notes</i>

1.3 Trademarks

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2. IRIS Focus 3.0 Release Notes

2.1 Release Notices

Vaisala is pleased to announce the release of IRIS Focus 3.0.

Upgrade to IRIS Focus 3.0

Upgrading from a previous version of IRIS Focus should be fairly straightforward. For upgrading instructions, see *IRIS Focus Administrator Guide*.

Vaisala recommends you back-up your system configuration before upgrading.

CentOS

IRIS Focus 3.0 has been tested with CentOS 7.1 and CentOS 7.3. We expect IRIS Focus to also work with later versions of CentOS 7.x.

IRIS Analysis/Radar

IRIS Focus 3.0 requires IRIS Analysis/Radar 8.13.6 or later on the same network.

Note that IRIS Analysis must not be visible to the public Internet.

2.2 Updates and Fixes

New Features

- *Nowcasting* is an automatic short term forecasting feature, providing a visual indication of the precipitation behavior hours in advance. Raster radar products can be nowcasted easily and interactively. Nowcasting performs advection calculations on motion data from radar products to predict weather movement and severity up to, for example, 2 hours in the future.
- *Weather events and alerts* reduce the visual clutter and helps in focusing on the hazardous weather events. It also provides alerts based on freely adjustable conditions to the geographical areas you care about most.

Updates

Release 3.0 adds one new live product to IRIS Focus.

Live radar products are generated on-demand from raw volume data in the IRIS Focus server to provide accurate representations of weather conditions.

Release 3.0 adds one new live product to IRIS Focus. Live **MAX** shows the echo height and intensity in a report of maximum data, for example, reflectivity.

You can use **MAX** when observing areas of severe weather, for example, from the surface to the troposphere, in the layer below the melting level, or in the layer above the melting level.

2.3 Known Issues



For troubleshooting information, see *IRIS Focus Administrator Guide*.

- 4259: RAW hybrid tasks with missing moments are not displayed in IRIS Focus.
- 4799: Upgrade from 2.0 to 3.0 fails
The fix is to manually remove the Postgres 9.2 packages before installing 2.0.0. This has been fixed in 2.1.0. See below.
- There is no nowcasting of **MAX** products in this release.
- In some cases, there may be missing or broken live radar products.
- In some cases, the lightning layer may be empty.
- In some cases, the lightning layer may be missing.
- If you use **Remember Password** in your browser and login in first as a user and then as an admin, you may get an error message when you edit the user settings for other users. Despite the error message, your updates are saved in the system.
- Hardware acceleration may cause Firefox to crash with multiple products selected.
To avoid the problem, in the Firefox menu select **Options > Advanced > Browsing** and uncheck **Use hardware acceleration when available**.

Upgrade to IRIS Focus 3.0

When upgrading to version 3.0.0, depending on whether you are installing on a system with internet connection, you must include one of the following flags in the `rsw-upgrade` script:

- `--online`
- `--offline`

These instructions are not included in *IRIS Focus Administrator Guide*.

Upgrade to IRIS Focus 3.0 - Troubleshooting

If the correct CentOS base repository is unavailable, the `./rsw-upgrade` script fails with an error message.

If it fails with the `--online` upgrade, check your internet connection and your `yum` repository settings.

1. If it fails with the `--offline` upgrade, check that you have mounted the correct ISO.
You must mount the ISO provided to you:

```
CentOS-7-x86_64-Everything-1611.iso
```

The 7.3 ISO image provides the required installation packages that are otherwise fetched from the Online CentOS repository. Using the 7.3 ISO during the installation does not upgrade your system to Centos 7.3.

2. For both `--online` and `--offline` upgrades, check your `yum` repositories:
 - a. Run: **`yum repolist enabled`**
 - b. Check that the output contains a line similar to the following:

```

repo id           repo name         status
base/7/x86_64    CentOS-7 - Base  9,007

```

Upgrading from IRIS Focus 2.0 to 3.0

1. Run: **`yum list installed | grep postgres`**

The result is, for example:

```

postgresql.x86_64           9.2.15-1.el7_2
@updates
postgresql-docs.x86_64     9.2.15-1.el7_2
@updates
postgresql-libs.x86_64     9.2.15-1.el7_2
@updates
postgresql-server.x86_64   9.2.15-1.el7_2
@updates
postgresql94.x86_64        9.4.5-1PGDG.rhel7
@radarsw
postgresql94-contrib.x86_64 9.4.5-1PGDG.rhel7
@radarsw
postgresql94-libs.x86_64   9.4.5-1PGDG.rhel7
@radarsw
postgresql94-server.x86_64 9.4.5-1PGDG.rhel7
@radarsw

```

2. For every line which does NOT include 94 run: **`yum remove [package name]`**
For example:

```
yum remove postgresql.x86_64
```


3. IRIS Focus 2.1 Release Notes

3.1 Release Notices

Vaisala is pleased to announce the release of IRIS Focus 2.1.

Upgrade to IRIS Focus 2.1

Upgrading from a previous version of IRIS Focus should be fairly straightforward. For upgrading instructions, see *IRIS Focus Administrator Guide*.

Vaisala recommends you back-up your system configuration before upgrading.

CentOS

IRIS Focus 2.1 has been tested with CentOS 7.1. We expect IRIS Focus to also work with later versions of CentOS 7.x.

IRIS Analysis/Radar

IRIS Focus 2.1 requires IRIS Analysis/Radar 8.13.6 or later on the same network.

3.2 Updates and Fixes

Updates

Release 2.1 adds a number of new live products to IRIS Focus.

Live radar products displayed in IRIS Focus receive raw data from the IRIS back-end. The data is manipulated in the IRIS Focus UI with the Scan Service, which is an HTTP service that functions as an interface between IRIS Focus and the radar-side signal processing. Through the Scan Service, IRIS Focus can read the raw volume data and generate radar products in real-time.

IRIS Focus 2.1 includes the following new live products:

- Live TOPS
Live **TOPS** displays the detected signal echoes above the value defined in the **Threshold** (dBZ), which usually measures the top of the precipitation area or cloud cover.
- Live BASE
BASE displays the base level of detected signal echoes, which usually reflects the bottom of the cloud base or precipitation area.
- Live THICK
THICK is the radar-indicated cloud cover thickness of an area of precipitation.
THICK calculates the difference between the live BASE and TOPS products.

Fixes

- 2771: CAPPI height and related settings are not preserved when switching sites
- 3559: Backup filenames are inconsistent

- 2734: *Vaisala-radar-sw-geoserver* package resets disk state
- 2730: Color scale unreadable when using Aviation units
- Setting values are retained after upgrading from IRIS Focus 2.0 to IRIS Focus 2.1.

3.3 Known Issues



For troubleshooting information, see *IRIS Focus Administrator Guide*.

- In some cases, there may be missing or broken live radar products.
- In some cases, the lightning layer may be empty.
- In some cases, the lightning layer may be missing.
- If you use **Remember Password** in your browser and login in first as a user and then as an admin, you may get an error message when you edit the user settings for other users. Despite the error message, your updates are saved in the system.
- Hardware acceleration may cause Firefox to crash with multiple products selected. To avoid the problem, in the Firefox menu select **Options > Advanced > Browsing** and uncheck **Use hardware acceleration when available**.

Technical Support



Contact Vaisala technical support at helpdesk@vaisala.com. Provide at least the following supporting information:

- Product name, model, and serial number
- Name and location of the installation site
- Name and contact information of a technical person who can provide further information on the problem

For Vaisala Service Center contact information, see www.vaisala.com/servicecenters.

Warranty

For standard warranty terms and conditions, see www.vaisala.com/warranty.

Please observe that any such warranty may not be valid in case of damage due to normal wear and tear, exceptional operating conditions, negligent handling or installation, or unauthorized modifications. Please see the applicable supply contract or Conditions of Sale for details of the warranty for each product.

Recycling



Recycle all applicable material.



Follow the statutory regulations for disposing of the product and packaging.

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