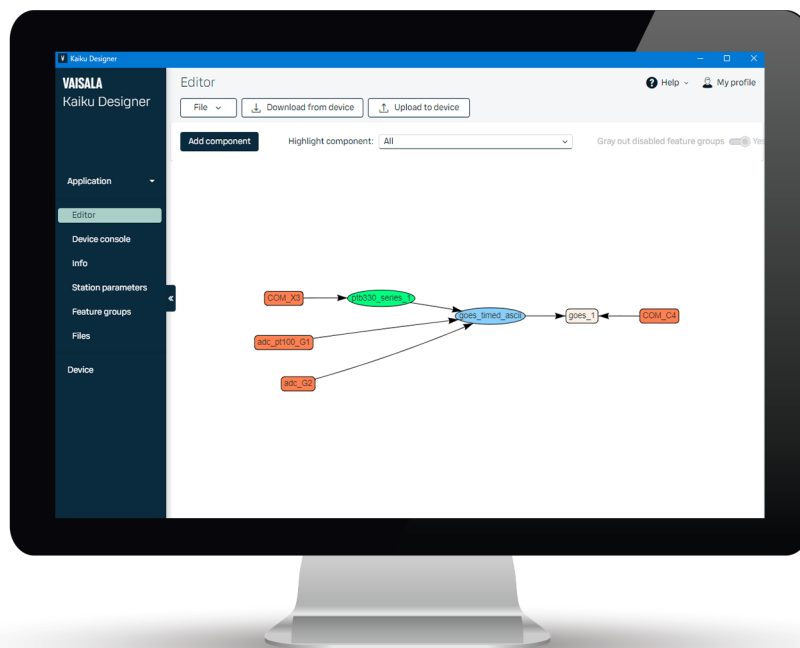


Release Notes

Vaisala Kaiku Designer



VAISALA

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1. About this document

This document contains release notes for Vaisala Kaiku Designer, starting from release 3.0.1. For older release notes, contact Vaisala.

See [Known issues \(page 10\)](#) for a list of open and resolved issues, and workarounds where available, related to the Kaiku Designer versions.

Vaisala recommends using the latest versions of Kaiku Designer and Kaiku firmware. You can download them from Vaisala product documentation portal: [Vaisala Kaiku downloads](#).

For Kaiku Designer installation instructions, see [DMU801 User Guide \(M212436EN\)](#).

For Kaiku firmware release notes, see *Kaiku Release Notes (M213245EN)*. The document is included in the firmware download package.

2. Kaiku Designer version 3.13.2

Version 3.13.2 has new sensor and calculation components and includes an updated Kaiku Application API. In addition, several improvements have been made to individual components and usability.

Release date: June 2026.

Compatibility

- Earlier Kaiku Designer (Configuration Tool) versions do not support applications created with this tool version. However, with this version you can open and handle applications created with earlier tool versions.
- The new and improved Kaiku Designer components work only with the Kaiku firmware version 2.14.0 or later.

New features and improvements

Components

- The following new components have been added to sensors:
 - **eko_ms_sund** for EKO MS-95S Sunshine Duration Sensor
 - **fd70** for Vaisala Forward Scatter Sensor FD70
 - **rm60** for Vaisala PRECIPAP® Radar Precipitation Sensor RM60
 - **wmt700_series_msg25** for Vaisala WINDCAP® Ultrasonic Wind Sensor WMT700. The component is a parser component for WMT700 data message 25.
- The following new component has been added to calculations:
 - **wind_chill_jagti** for calculating wind chill temperature using the North American Wind Chill Index formula by the Joint Action Group for Temperature Indices (JAGTI)
- The **programmed_parser** component has been updated to be able to use optional input observations from other components as parser input variables. This enables, for example, supplying measurements from one sensor to another.
- Functionality of the **wm80** component has been improved to better support situations where the weather station including WM80 runs on battery power.
- Support for selectable pull-down and hardware filter capacitor included in DMA803 analog measurement module has been added. This helps with direct interfacing with certain wind sensors (such as potentiometer-type wind vanes with High-Z gap) and eliminates the need for external adapters. There is a new setting called **Enable hardware filter** available for the following components: **adc**, **adc_pt100**, and **adc_pt1000**. For more information, see [DMU801 Analog Sensor Integration Guide \(M213275EN\)](#).
- The **modbus_server** component has been updated so that the holding registers are write-protected by default. The write protection is configurable, which means that you can control which registers the external Modbus clients can modify.

Usability

- In the **Editor** view, when you hover your mouse over a connecting arrow between two components, the signal type between the components is now displayed.
- When you have added a new component to an application, the **Editor** view automatically brings the newly added component into focus.
- Kaiku Designer now remembers the latest opened or saved directory, so that the same directory (or its parent directory) can be used the next time.

Other

- Kaiku Application API structure and reference documentation have been updated. See **Kaiku Application API** (available through the **Help** menu). Vaisala aims to ensure backwards compatibility of existing Kaiku applications. However, due to internal changes required by the introduction of `vaisala.gecko_api` namespace, the change may have some effect on existing applications. If you find any compatibility issues with earlier applications, contact Vaisala technical support (helpdesk@vaisala.com).

Deprecated features

- The possibility to select a virtual serial port (TCP or UDP) as the serial port type has been disabled in the **serial_port** component. Improved support for virtual serial ports will be available in the next Kaiku Designer version.

Document updates

- [Kaiku Designer User Guide \(M212407EN\)](#)
- [DMU801 User Guide \(M212436EN\)](#)
- [DMU801 Analog Sensor Integration Guide \(M213275EN\)](#)
- [DMU801 ASCII Sensor Parser Developer Guide \(M213182EN\)](#)

New documents

- [Kaiku HTTPS Reports API Description \(M213354EN\)](#)

3. Kaiku Designer version 3.6.1

Version 3.6.1 introduces a new name for the tool, Kaiku Designer, and several new components.

Release date: January 2026.

Compatibility

Earlier Kaiku Designer (Configuration Tool) versions do not support applications created with this tool version. However, with this version you can open and handle applications created with earlier tool versions.

New features and improvements

- Configuration Tool has been named Kaiku Designer (and DMU801 firmware Kaiku).
- To clarify and simplify terminology, configurations are now referred to as applications. For example, *standard MET configuration* = *default MET application*.
- The following new components have been added. The first 4 components work only with the Kaiku firmware version 2.13.0 or later.
 - **statistics_buffer** for storing samples for statistics calculations. The component is used together with the **statistics_query** component.
 - **statistics_query** for calculating statistical values together with the **statistics_buffer** component.
 - **https_server** for enabling polling of data reports. The component is used as a source component for the **target_https_server** component.
 - **target_https_server** for enabling polling of data reports.
 - **wm80** for adding a Vaisala Ultrasonic Wind Sensor WM80 to the application.
- The report target component **target_socket** now supports secure TLS connections, with new settings available for TLS configuration.
- The **modbus_server** component now accepts also **NaN** (Not a Number) as invalid value marker for floating point numbers.
- New example applications are available in **Help > Example applications**.

Deprecated features

- The **lwm2m** component used mainly for device management purposes has been removed. You can continue using old applications in which the component is included, but it is not possible to add it to new applications.
- Kaiku Designer version information is no longer visible in the lower left corner of the tool. To view the version, select **Help > About**.

Document updates

- [DMU801 User Guide \(M212436EN\)](#)
- [Kaiku Designer User Guide \(M212407EN\)](#)
- [Kaiku Device Management API Description \(M213154EN\)](#)
- [DMU801 Event Description \(M213151EN\)](#)

In addition, all DMU801 documents have been updated for the new DMU801 firmware and Configuration Tool names: Kaiku and Kaiku Designer.

4. DMU801 Configuration Tool version 3.1.5

Version 3.1.5 includes improvements for configuration development phase, for example, an individual setup directory for each configuration component, which allows copying of components between configurations.

Release date: September 2025.

Compatibility

Earlier configuration tool versions do not support configurations created with this configuration tool version. However, with this version you can open and handle configuration files created with earlier tool versions.

New features and improvements

- Each configuration component now has its individual settings in the project directory. The component-specific file includes the setup file and the station parameters of the component. This enables easy reuse of components between configurations.
- It is now possible to reload the currently open project from your computer in **File > Reload project from disk**. Reloading takes into use the changes that you have made in the project directory, for example copied new components from other configurations. The copied components are shown in yellow in the **Editor** view.
- The **Info** view has been updated with the possibility to define which files and file types you want to include in or exclude from the configuration. For example, you can keep test files in the configuration project directory for reference, and exclude them from the configuration that is uploaded to DMU801.
- The **programmed_parser**-based components have been updated. To add flexibility, it is possible to turn some of the settings into station parameters. The station parameters will have the default values set in the configuration tool. You can edit the values in the DMU801 Web UI. For more information, see [Kaiku Designer User Guide \(M212407EN\)](#).

Document updates

- [DMU801 User Guide \(M212436EN\)](#)
- [Kaiku Designer User Guide \(M212407EN\)](#)

New documents

- [DMU801 ASCII Sensor Parser Developer Guide \(M213182EN\)](#)
- [DMU801 Analog Sensor Integration Guide \(M213275EN\)](#)
- [DMU801 Modbus RTU Sensor Integration Guide \(M213260EN\)](#)
- [DMU801 Time Synchronization Management Guide \(M213266EN\)](#)

5. DMU801 Configuration Tool version 3.0.1

Support for projects has been added. Projects allow viewing and handling of the files included in the configuration separately. Release 3.0.1 also introduces a new layout of the configuration tool.

Release date: June 2025.

Compatibility

Configuration tool versions 2.10.1 and earlier do not support configurations created with configuration tool versions 3.0.1 and later. However, with configuration tool version 3.0.1 you can open and handle configuration files created with earlier tool versions.

New features and improvements

- Support for a new concept, project, has been added. Projects make it easier to load/download and save/upload configurations that contain multiple files. For more information, see [Kaiku Designer User Guide \(M212407EN\)](#).
- A new component, **gnss_device**, is available in the **other i/o** component group. The component enables the use of GNSS signals from an external GNSS device for time and location synchronization.
- When creating a new station parameter, if you choose **Alternatives** as the **Range**, it is now possible to select an option that allows the user to select multiple alternatives (instead of one) in the DMU801 Web UI.
- Layout has been updated according to the latest Vaisala brand.

Deprecated features

The following features are deprecated and are removed or will be removed in the upcoming releases.

- Drag-and-drop functionality for adding a configuration file to the **Editor** view does not work anymore.

- The following Python libraries are no more supported. Redesign your configuration without these libraries.
 - `atomicwrites`
 - `dnspython`
 - `flask_cors`
 - `flask_login`
 - `flask_restful`
 - `flask_wtf`
 - `ndg_httpsclient`
 - `nose`
 - `pluggy`
 - `ptvsd`
 - `py`
 - `pyasn1`
 - `pyfakefs`
 - `pyparsing`
 - `pytest`
 - `pytest_timeout`
 - `wcwidth`
 - `wtforms`

Document updates

- [DMU801 User Guide \(M212436EN\)](#)
- [Kaiku Designer User Guide \(M212407EN\)](#)

6. Known issues

Table 1 New issues

Issue	Workaround	Affected versions
–	–	–

Table 2 Existing issues

Issue	Workaround	Affected versions
When you open an application (download from device, open project, or import package) that does not yet support component signal types introduced with the new statistics_buffer component, a statistics buffer added to the application cannot find any input components.	Save and reload the application.	3.6.1
When you open example applications <i>aws-sample.zip</i> or <i>aws-solar-sample.zip</i> from Help > Example applications , the system gives a warning about signature failure.	You can ignore the warning and open the example application. Select Import anyway .	3.0.1 onward
The component filter in the Editor view displays feature groups in the following format: Group: group_name . However, if you try to filter the view with a string starting with the word group , the search is not able to find the feature groups.	Filter feature groups with their unique name only.	2.8.0 onward

Table 3 Resolved issues

Issue	Workaround	Affected versions	Resolved in
The battery charging state reported in the DMU801 Web UI does not fully match the charging states documented for the bmu800_series component.	–	1.9.0–3.0.1	3.1

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