



New Features in ibaDaVIS v2.7.0

Author: T.George, iba AG - Fürth

Date: Sep 2020

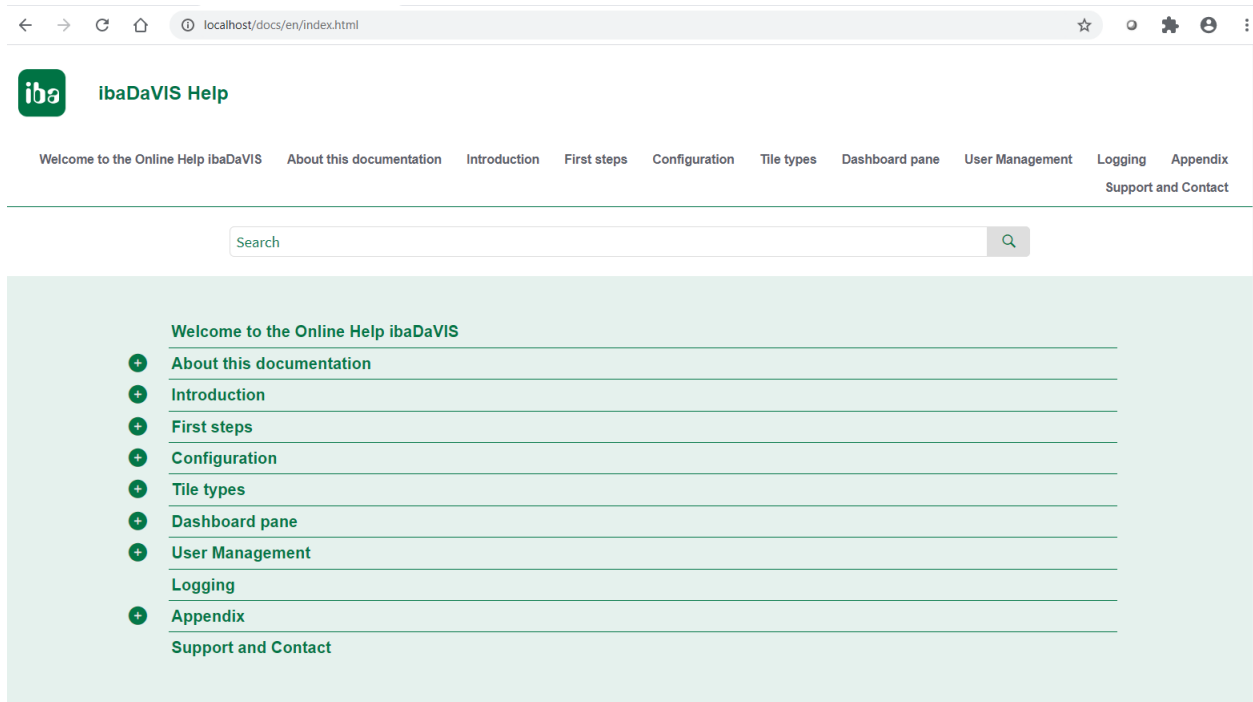
Table of contents

1	New Features	3
1.1	Online Help	3
1.2	General Table	5
1.3	Signals from Segment or Channel Table.....	6
1.4	Signals from dat files as Histogram, Gauge or Bullet Graph	8
2	Improvements.....	9
2.1	Changed Add Tile dialog.....	9
2.2	Showing dat file signals group based	9
2.3	Gauge supports last value	9
2.4	Zooming in XY chart creates one joined dashboard filter	10
2.5	More details displayed at the line chart.....	10
3	Requirement .Net Framework 4.8	11

1 New Features

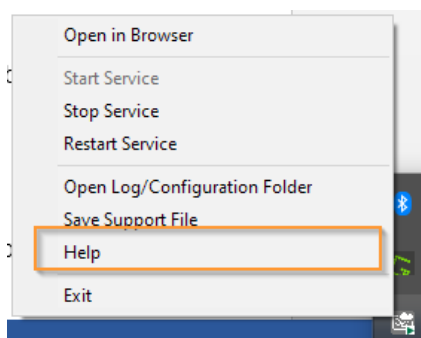
1.1 Online Help

The installation of ibaDaVIS includes the help document in *.html* format. The content can be accessed with any web browser such as Google Chrome or Mozilla Firefox.

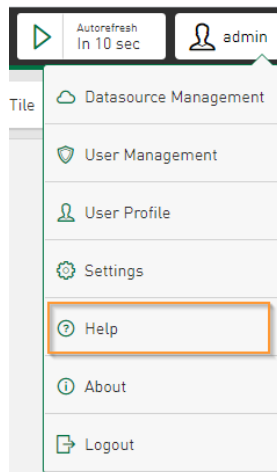


The online help is accessible over three different ways

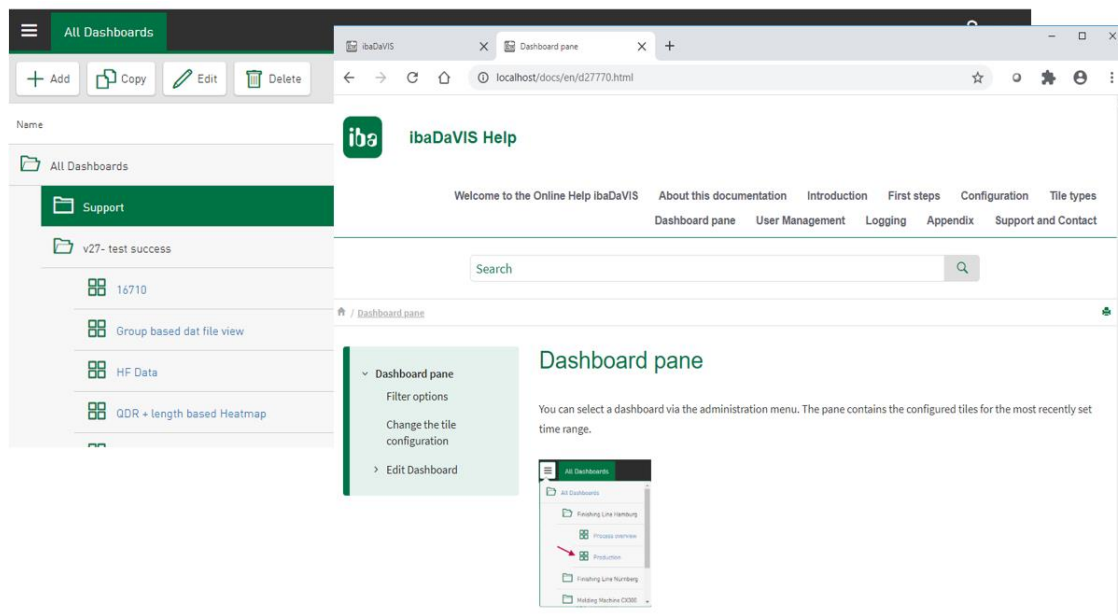
1. Go to the system where ibaDaVIS Service is running and find the tray icon of the ibaDaVIS Status app at the taskbar. Right click on the icon to open the context menu and select the *Help* menu. The online help will be started in the standard web browser.



2. The *Help* menu item in ibaDaVIS



3. Press [F1] when you want to access the online help related to the content of the currently open *ibaDaVIS* page.

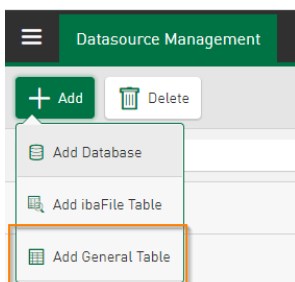


1.2 General Table

In this version *ibaDaVIS* is enabled to visualize data from any table which contains a datetime column. The table content can be displayed in various chart types on dashboards such as Line chart, Histogram, Gauge or Bullet chart.

Configuration

Add or select a database in the list of database connections. Click on *Add General Table* to add the desired table as data source to the existing database connection.



The *Table Settings* provide an input field for the name, one selection field for the *Table* and the *Timestamp column* which has the value *I_Time* by default. The *Table* selection field lists all available tables and views of the database. Select the table you require and, if necessary, change the *Timestamp column* to the timestamp column available in the table. A timestamp column must be available in the table in order to provide the display and filter options on dashboards.

The image shows a 'Table Settings' form. It has three fields: 'Name' with the value 'myGeneralTableExample', 'Table' with a dropdown showing 'dbo.PDA_TIMESERIES', and 'Timestamp column' with a dropdown showing 'I_TIME'. Below these fields is a section for 'Column Settings'.

A reduced data set of rows from the current selected *Table* is displayed as preview at the *Column Settings*.

Add tiles displaying data from the datasource type *General Table* on dashboard

Select the configured *General Table* as datasource and the option for the field *Values to display* is preselected with the currently only possible property *General table values*.

The image shows an 'Add Tile' dialog box. It contains four fields: 'Tile Name' with the value 'Trend over Time', 'Datasource' with a dropdown showing 'myGeneralTableExample', 'Values to display' with a dropdown showing 'General table values', and 'Tile Type' with a dropdown showing 'Line chart'. At the bottom, there are 'OK' and 'Cancel' buttons.

The

The supported tile types:

<ul style="list-style-type: none"> - Line chart - Histogram - Gauge - Bullet graph - Bar Chart 	<div> <div>Tile Type</div> <div> <div>Line chart</div> <div>Histogram</div> <div>Gauge</div> <div>Bullet Graph</div> <div>Bar Chart</div> </div> </div>
---------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------

1.3 Signals from Segment or Channel Table

This function allows you to display data stored in the channel and segment table in graphs on the dashboard. The segment and channel tables belong to the database schema, which is created and supported by the ibaAnalyzer DB extraction interface.

Requirements

This feature requires the post process of the dat files by extracting selected signal data to the segment and channel data base table. The *ibaAnalyzer DB* extraction interface is inserting next to the KPI values to the index table also signal values in a custom resolution to the detail tables. You can get more information about the correct data post processing using the *ibaAnalyzer DB* extraction interface at the documentation *ibaAnalyzer-DB_v2.0_en.pdf*.

Configuration

Go to the *Datasource Management* to enable the function and retrieve signal data the segment or channel data table instead of the dat files.

Open the tab Options and enable the option to *Read signals from DB tables*.

Select the channel and segment table at the foreseen fields. The provided table names are filtered according to the supported table schema.

Usage

When requesting signals at the dat file view tile, the displayed data is requested from the database tables and not from the dat files any more.

Add Tile

Title Name

Details from segment table

×

Datasource

Data Extract - Signal Data - MC Format

✓

Values to display

Segment table values

✓

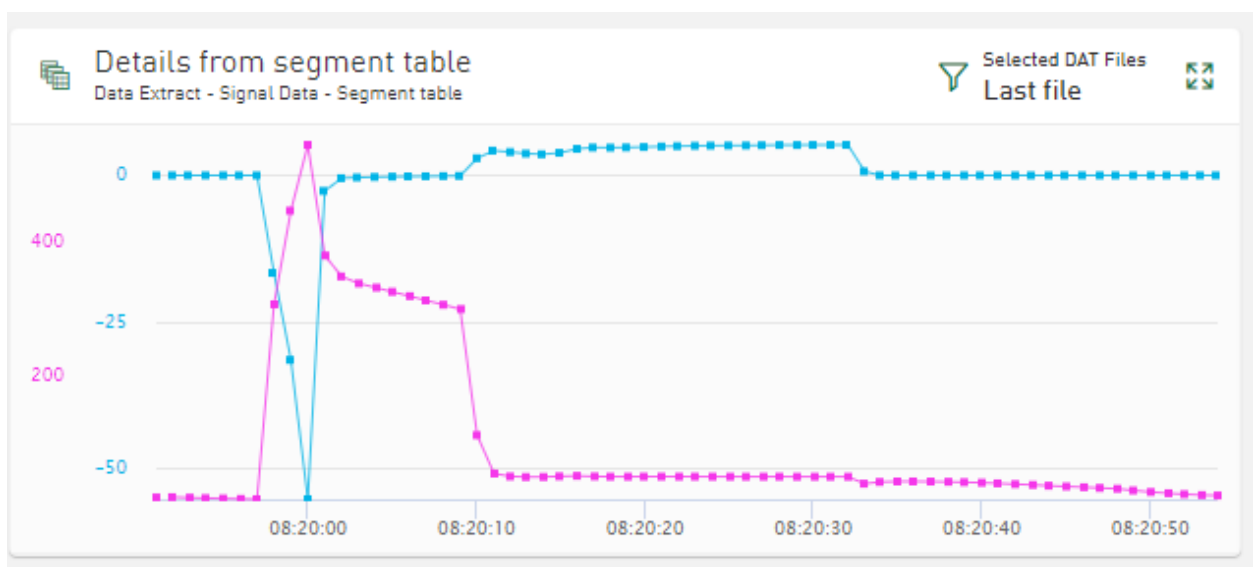
Title Type

Line chart

✓

OK

Cancel

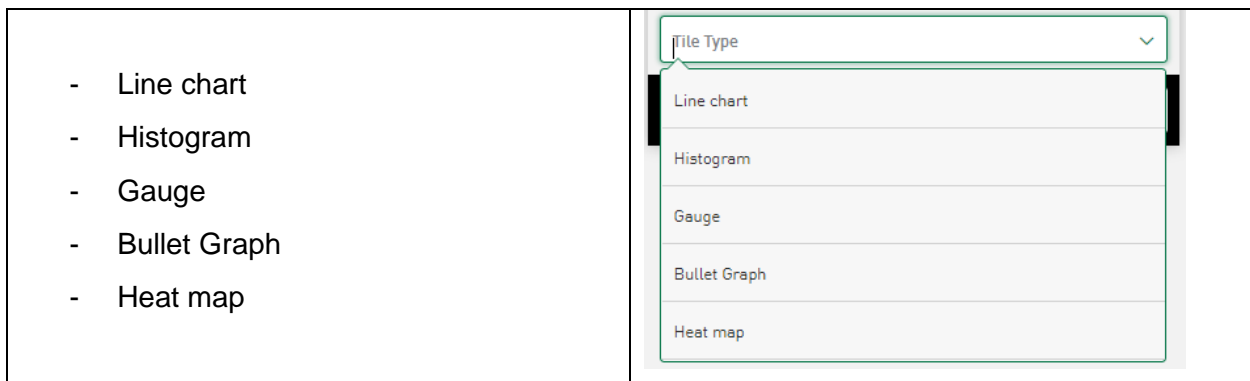


1.4 Signals from dat files as Histogram, Gauge or Bullet Graph

The *Histogram*, *Gauge* and *Bullet graph* are enabled to visualize signal data from dat files on dashboards.

Configuration

The supported tile types are provided when you select a datasource configured as ibaFile table and add a tile to display dat file signals.

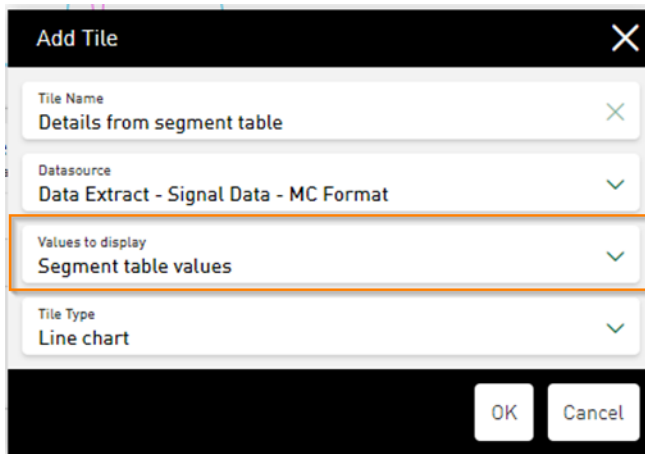


Remark: The histogram filter option is disabled for dat file signal data.

2 Improvements

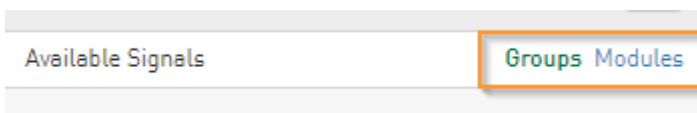
2.1 Changed Add Tile dialog

The *Add Tile* dialog was changed. The *Values to display* field has been added and provides the available options for selection. With the new option to display data from the *General Table* and the display of signals from the segment table a change of the dialog was necessary.



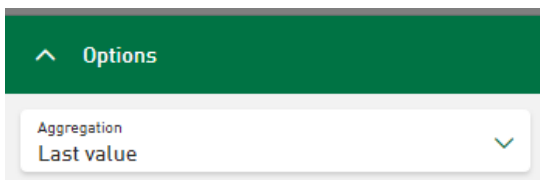
2.2 Showing dat file signals group based

The list of available signals from any dat file is displayed based on the modules of the dat file. Click or tip to the label *Groups* to display the signal tree in group based order.



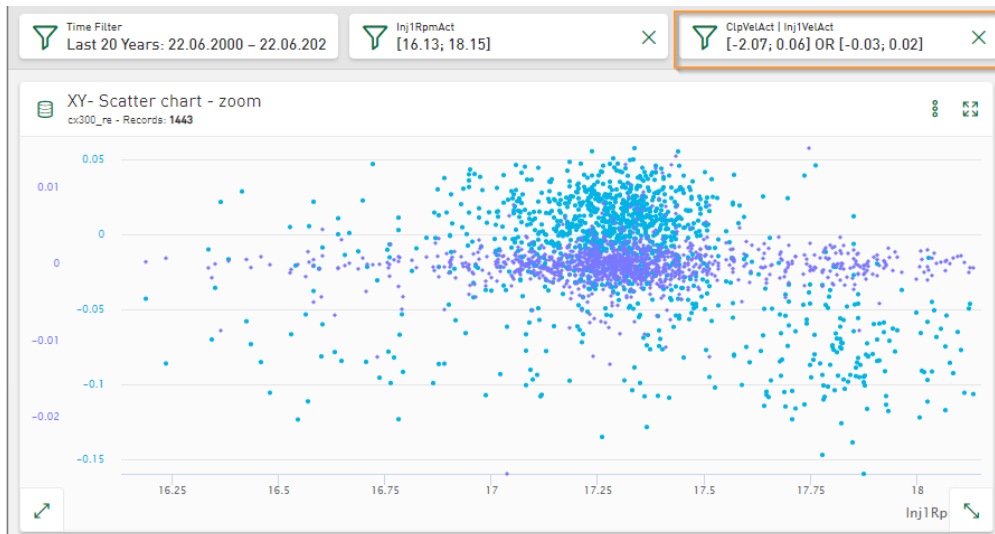
2.3 Gauge supports last value

The tile type Gauge was extended by an aggregation function. The option *Last Value* has been added as an operator.



2.4 Zooming in XY chart creates one joined dashboard filter

A zoom action in a scatter chart creates a combination of global dashboard filters. If several values in the Y axis are selected for the dashboard, the area filtered together by the zoom action is displayed in one filter cell.



2.5 More details displayed at the line chart

The graph of the *Line chart* was revised. This allows more precision and richer details in the display, especially when signal data is displayed with high resolution.

Bug fixes were made to support the visualization of signals with different sample time in one chart and the visualization of digital signals has been improved.



3 Requirement .Net Framework 4.8

It is required to use .Net Framework 4.8 to run the version ibaDaVIS 2.7.0