



WEB - applications





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Document History

Version	Date	Author(s)	Modifications / Remarks
1.0	2021-01-01	GA	Initial release (Q-DAS1472/13.0.2.1)
1.1	2021-10-12	GA	Release version 13.0.5.1 (Q-DAS1472/13.0.5.1)
1.0	2022-06-03	GA	Rework (Q-DAS1688/14.0.1.1)
	2022-10-02	GA	Rework (Q-DAS1688/14.0.2.1)
	2023-09-28	ВА	Release version 14.0.4.1 (updated Q-Das-1688)

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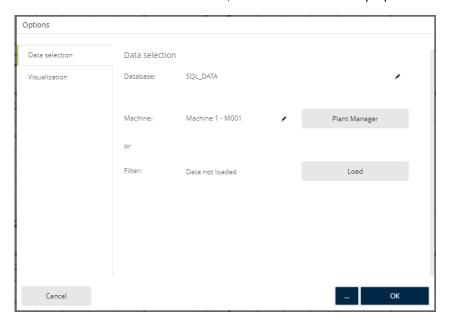


1 RTM Web

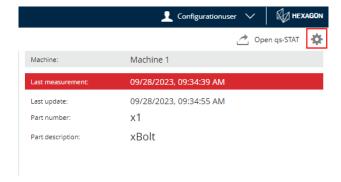
RTM (Real Time Monitoring) visualises the data from data sets that are uploaded to the central database.

1.1 Handling of the RTM

After the first start of RTM for a user, the wizard for the setup opens:



The configuration is saved for the user. The user can call up the wizard again at any time:



If the configuration is already set up for the user, the it will opens directly after starting the RTM.

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1.1.1 Data selection

There are 3 settings available for data selection:

- Database connection
- Visualization based on additional data field K0010 (machine)
- Visualization based on a loaded data pool

1.1.1.1 Database connection

The specific database to be monitored can be chosen. Only those databases that already has a defined connection in desktop application can be seen in the list.

Data selection				
Database:	SQL_DATA		,	

1.1.1.2 Selection of a machine (K0010)

In the data selection, the additional data field of the machine (K0010) is selected from the catalogue. The data from a chosen machine will be visualized. Alternatively, a machine is identified via the Plant Manager structure:

Machine:	Machine 1 - undefined	1	Plant Manager
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1.1.1.3 Selection of a data pool

To select a part or a query (pre-selection) from the database, the "Read from database" dialog can be opened:

Filter:	Data not loaded	Load

When creating the queries in the desktop application, the following points must be complied with:

- The guery is to be created in the desktop application of the RTM.
- The query is to be created with the user who wants to use it in the RTM, or selections for user groups, or selections of the configuration user, if these are made available to all users.
- The RTM can only load a single part from a selection.
- Up to the current version 14.0.2.1, loading grouped data sets is not possible.

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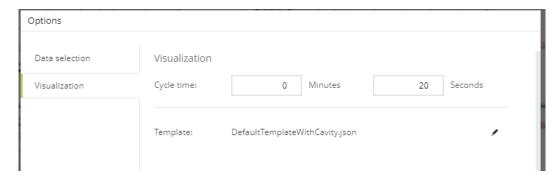


To achieve that only one part is loaded by a selection, the following option can be set in the selection options to load only the part of the selection that has the current measured values



1.1.2 Visualisation

Under visualisation, the dashboard can be set up together with "Cycle time" (refresh) option.



1.1.2.1 Cycle time

Cycle time can be defined in minutes and seconds, depending on how often the data should be reloaded. The maximum cycle time is 15 minutes. The graphics are reloaded only when the new measurements are available in the database.



1.1.2.2 Template

To enter the edit mode, click on the sign.

Since version 14.0.4.1 the visualisation of the dashboard is defined in the templates.

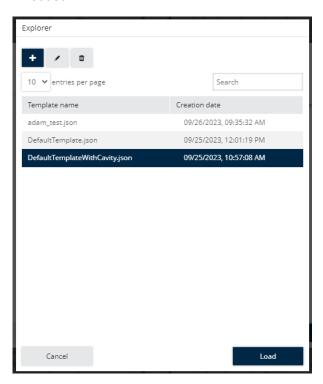


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There are 2 basic templates that can be used or adjusted, but the users are free to create their own templates if needed.



To create a new template, click on the sign.

To adjust the existing template, select the template and click on the sign.

To delete the existing template, select the template and click on the sign.

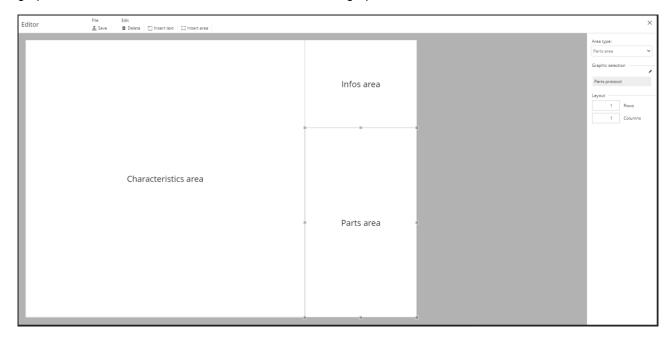
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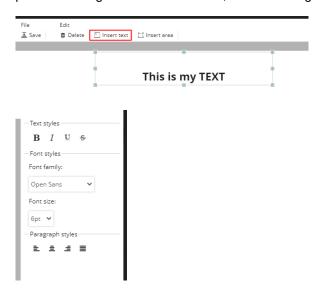


1.1.2.2.1 Editing the template

Editor of the template is easy to use. The only thing that is needed is to define where the different areas for graphics and information should be and then define the graphics and information to be shown.



Any text can be added by using the button "Insert text" and adjusting the size and location of the field. In the panel in the right side of the screen, the formatting of the text can be made.

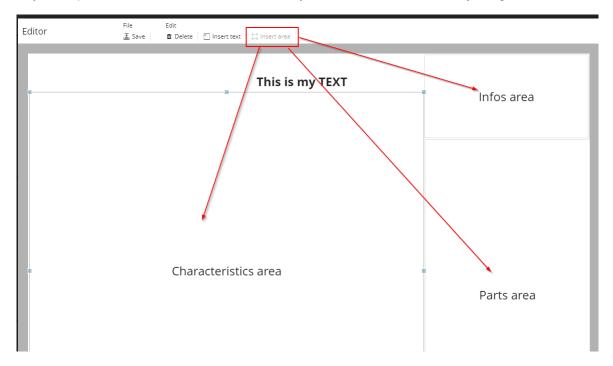


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Any other part of the dashboard can be added by "Insert area" button and adjusting the field.



In the right-side panel, the configuration can be done for all areas. Select the area to adjust and make the settings.

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Characteristics area settings:



- 1. Are type select a type of a area.
- 2. Graphic selection with a + sign, the graphic can be selected. Limited number of graphics can be chosen. Drag and drop the desired graphic to the right-side area. Multiple graphics are allowed.



- 3. Automatic when this field is checked, the setup of the graphics will be done automatically on the screen. No sorting and display mode settings cannot be done.
- 4. Layout a number of rows and columns can be defined.
- 5. Display mode:
 - a. Scrollable when this is set, all characteristics can be shown by scrolling down the page.
 - b. Rotating when this is set, the view on the characteristics is dynamic. If the number of characteristics is bigger then what can fit to the screen, the view will automatically switch to the next characteristics after some time (natural database order). The time of rotation is based on cycle time setting. The sorting options cannot be used together with this option.

6. Sort:

- a. Consider alarm order when this option is set, the order of the characteristics is handled automatically based on the alarms in the datasets (the "worst" characteristics are displayed first).
 The alarm status of each characteristic is indicated with a coloured bar above the graphic.
- b. Custom order the order of the characteristics can be set based on the selected fields.

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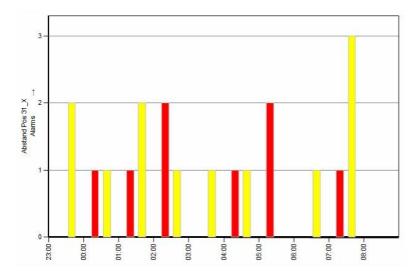




Under characteristics area few graphics can be used. There 1 special graphic that must be mentioned and explained briefly:

Alarms over time – this graphic exists only in the RTM WEB application.

The graphic shows the warnings and alarms of the last 8 hours. In each hour range, a yellow bar is shown with the number of warnings and a red bar with the number of measured values.

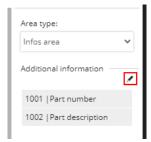


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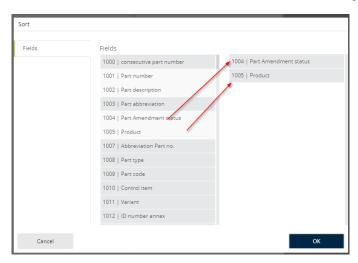


Infos area settings:



In the Infos area the information to be seen can be selected by clicking on the symbol 🗸 .

K1001 and K1002 are default. The other fields can be drag and dropped to the right are of the dialog window.

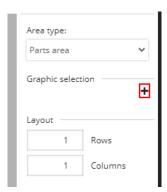


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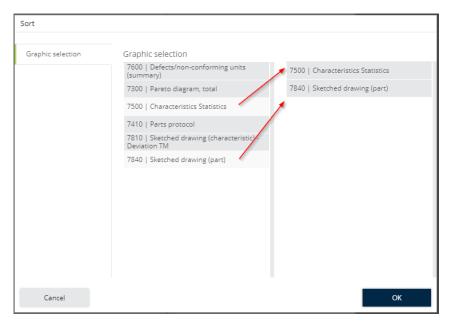




Parts area configuration:



Multiple graphics can be selected by + button and drag and drop the fields to the right side of the window. If multiple graphics are chosen the layout can be configured by specifying the number of rows and columns.



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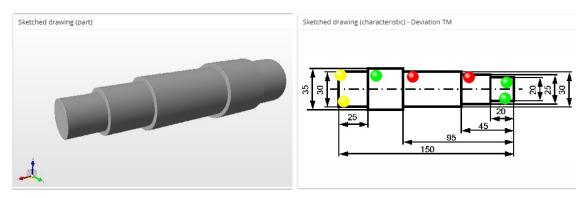


Under parts area few graphics can be used. There 2 special graphics that must be mentioned and explained briefly:

- 1. Sketched drawing (part)
- 2. Sketched drawing (characteristic) Deviation TM

Part graphic can show a picture that was defined in the test plan on part level under the K1046.

Characteristic graphic can show a picture that was defined in the test plan on the characteristic level under the K2243. The picture is shown together with the defined points in the picture by the user. Those points are associated with specific characteristic. The points show the colour differentiation between OK measurement / warning / alarm.



To be sure that picture will be shown every time and will not be overwritten by the upload, the blocked fields must be set in the upload job defined in the Q-DM Data management desktop application under *Database*, *fields* | *Blocked fields*.





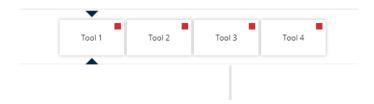
Under K2243 only 1 picture can be chosen for all characteristics. To display different pictures in the view is currently not possible.

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Cavities area configuration:

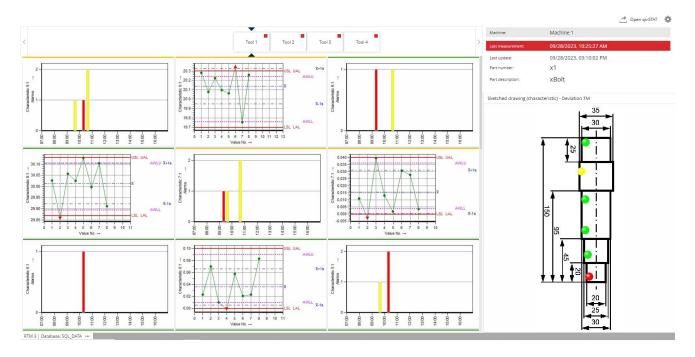
There is no configuration for cavities area. This area is used when the information about the tool used for production is known in K0007. Thanks to this area the measurements can be further divided into different cavities.



The change to other cavities must be done manually.

1.2 RTM view

The current test plan of the selected additional data field or part is then displayed in the started RTM session.



The information field shows what the status of the last measurement was and when it was last checked to see if new data is available. Each characteristic graphic has a coloured bar that indicates whether the current measurement was OK / warning / alarm for that characteristic.

If a machine was selected in the data selection (no selection) and cavities are available in the data set (K0007), these are shown in the header. The subordinate graphics then show the data of this machine / cavity combination.

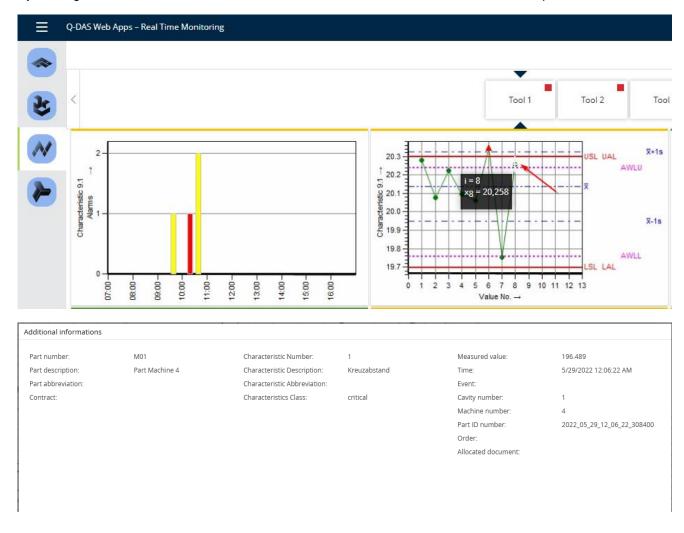
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1.2.1 Detailed view

By clicking on a measured value within a value chart in the RTM view a detailed view is opened.



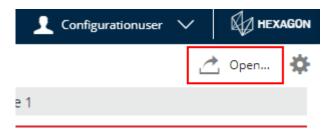
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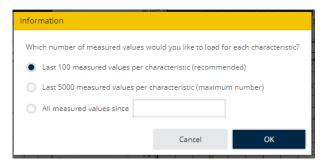


1.2.2 Open in qs-STAT

It is possible to open in the qs-STAT the current test plan, displayed in RTM using this button in upper right corner.



The dialog window will appear with a question about how many values should be opened in the qs-STAT.





This option is available only when qs-STAT WEB licence is registered in the license tool.

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