



FDDWorX - Fault Incidents View and Fault Acknowledgement



APPLICATION NOTE

October 2015

Description: Guide to set up Fault Incidents View and to acknowledge faults in FDDWorX viewer.

General Requirement: Familiarity with FDDWorX, Workbench, GraphWorX64 and PortalWorX-SL

Introduction

With the latest version of FDDWorX, we introduce a brand new pre-configured type of chart called Fault Incidents View which helps user to easily access, monitor and manage live or historical fault incidents within FDDWorX viewer control. Some benefits of this new type of chart are showing as follows:

- Simplified Configuration
- Ability to set comments, acknowledge, disable or resolve fault incidents
- Persistent sorting, grouping and filtering

Pre-readings

This application note is based on the assumption that you have sufficient knowledge of FDDWorX and have a working system of FDDWorX. If you are not qualified with either of the above two preliminaries, please refer to the following application notes for more detailed information:

- FDDWorX – Overview
- FDDWorX – Quick Start
- FDDWorX – Creating Rules for Fault Detection and Diagnostics

Configuring FDDWorX Viewer with Fault Incidents View

FDDWorX viewer is available in multiple platforms within GENESIS64 suite, namely GraphWorX64 and PortalWorX-SL. This application note will walk you through the essential steps to configure FDDWorX viewer with Fault Incidents View in GraphWorX64 only. However, steps to configure FDDWorX viewer in PortalWorX-SL is very much the same as in GraphWorX64. If you need more information about PortalWorX-SL, please refer to following application notes:

- FDDWorX – Viewer
- PortalWorX-SL – Quick Start

1. Open GraphWorX64.
2. Click on Controls tab on the ribbon.

3. Select FDDWorX Viewer.
4. Drop the viewer onto the canvas.
5. Highlight the viewer or “FDDWorX Viewer” on the left side navigation tree.
6. An extra tab called “FDDWorX Viewer Configuration” will show up on the ribbon.

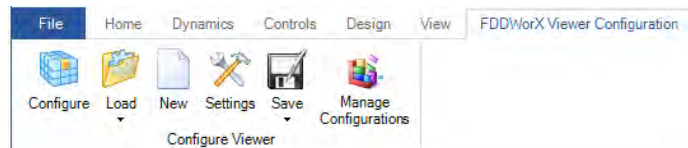


Figure 1 - FDDWorX Viewer Configuration ribbon

7. Click on Configure, a FDDWorX Viewer Configurator will popup.
8. Right click on Viewer on the left, and then select “Add Fault Incidents View”.

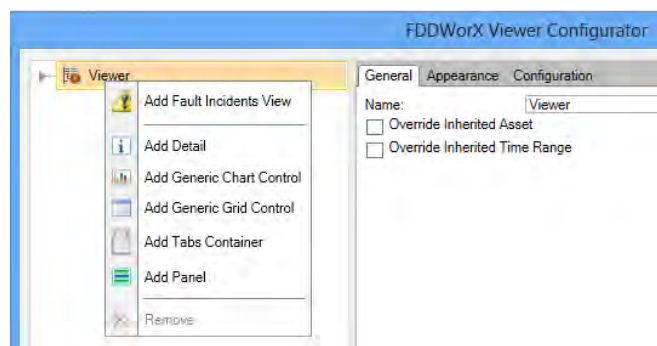


Figure 2 - Adding a Fault Incidents View

9. Expand Viewer and then highlight Fault Incidents View.
10. In General tab check “Override Inherited Asset”.
11. Under Asset, check “Specific Asset”.

NOTE: It's not mandatory to select “Override Inherited Asset” or “Specific Asset”. You can use different techniques, such as commanding, to pass desired assets into your viewer. However, the bottom line is you need a valid FDD asset to be able to have FDDWorX viewer working. Again, you can refer to related topics in other application notes in the package for more information.

12. Select desired asset on which you have FDD fault rule(s) configured.
13. Check “Override Inherited Time Range”.
14. Feel free to adjust start and end time offset.
15. You can check “Auto Update” such that the content in the viewer will refresh every X seconds.
16. Click on the Data tab.

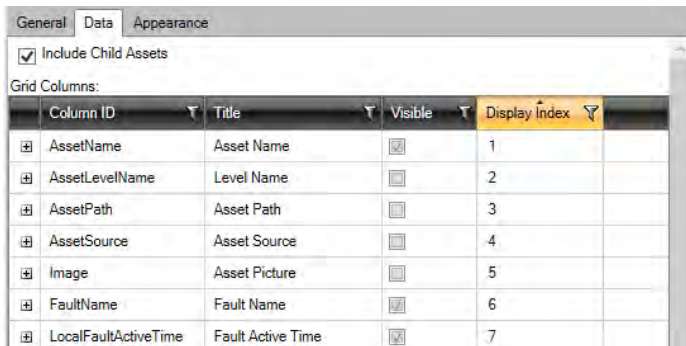


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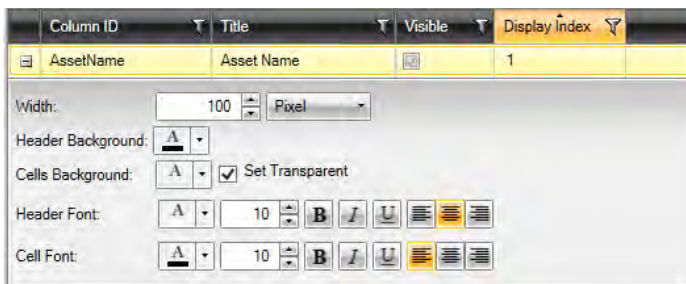
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Column ID	Title	Visible	Display Index
AssetName	Asset Name	☒	1
AssetLevelName	Level Name	☐	2
AssetPath	Asset Path	☐	3
AssetSource	Asset Source	☐	4
Image	Asset Picture	☐	5
FaultName	Fault Name	☒	6
LocalFaultActiveTime	Fault Active Time	☒	7

Figure 3 - Data tab

17. Each one of the rows represents an attribute of fault which can be exposed in the runtime mode. By default, we set a few of them visible in runtime, but you have the full control of what you want to hide or see.
18. Expand the row, you will have a couple of extra options to customize the look of the attribute in runtime mode.



Column ID	Title	Visible	Display Index
AssetName	Asset Name	☐	1

Width: 100 Pixel

Header Background:

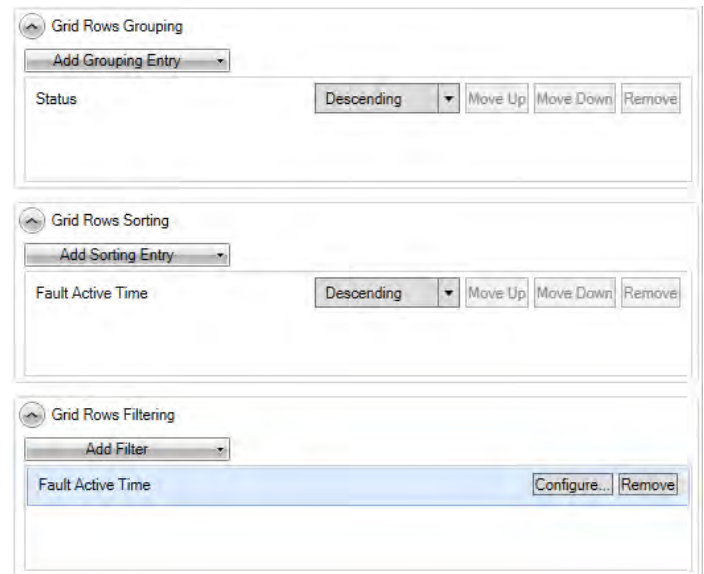
Cells Background: ☒ Set Transparent

Header Font: 10

Cell Font: 10

Figure 4 - Customizing the look and feel

19. Scroll down to the bottom, you also have the ability to pre-group, sort or filter the items which will be displayed in the viewer in runtime mode.
20. Click on "Add Group Entry" and then select "Status" in the dropdown and set it to be "Descending".
21. Click on "Add Sorting Entry" and select "Fault Active Time" and set it to be "Descending".



Grid Rows Grouping

Add Grouping Entry

Status Descending Move Up Move Down Remove

Grid Rows Sorting

Add Sorting Entry

Fault Active Time Descending Move Up Move Down Remove

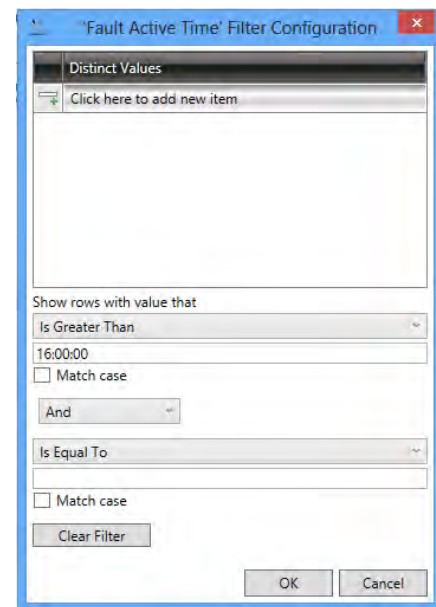
Grid Rows Filtering

Add Filter

Fault Active Time Configure... Remove

Figure 5 - Grid rows grouping, sorting, and filtering

22. Click on "Add Filter" and select "Fault Active Time".
23. Highlight row and click on "Configure..."



Fault Active Time Filter Configuration

Distinct Values

Click here to add new item

Show rows with value that

Is Greater Than

16:00:00

☐ Match case

And

Is Equal To

☐ Match case

Clear Filter

OK Cancel

Figure 6 - Filter configuration

24. Feel free to set constraints that you want. In this case, we set it to be greater than 4 PM.
25. Lastly, click on "Save As" button at the bottom of the Configurator. You will ask to provide a name for the configuration if you haven't specify yet.



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- Now you can put the display into runtime. If there are faults get flagged and meet the filter criteria, you should be able to see incidents showing in the viewer.

Fault Incidents

	Asset Name	Fault Name	Fault Active Time	Status	Deactivation Time	Active Duration	
INACTIVE							
☒	Baking oven	Overheating	7/16/2014 4:46:14 PM	INACTIVE	7/16/2014 4:58:14 PM	000d 00h 12m 00s	500
☒	Baking oven	Overheating	7/16/2014 4:40:14 PM	INACTIVE	7/16/2014 4:45:44 PM	000d 00h 05m 30s	500
☒	Baking oven	Overheating	7/16/2014 4:38:44 PM	INACTIVE	7/16/2014 4:39:44 PM	000d 00h 01m 00s	500
☒	Baking oven	Overheating	7/16/2014 4:18:44 PM	INACTIVE	7/16/2014 4:38:14 PM	000d 00h 19m 30s	500
☒	Baking oven	Overheating	7/16/2014 4:01:44 PM	INACTIVE	7/16/2014 4:18:14 PM	000d 00h 16m 30s	500
ACTIVE							
☒	Baking oven	Overheating	7/16/2014 4:58:44 PM	ACTIVE			500

Figure 7 - Fault incidents in the viewer

Deactivate, Acknowledge and Resolve Faults

- Now that you have faults displaying in the viewer, you can monitor your faults in real time (if you have auto update enabled) and manage the fault incidents.
- Let's expand an active fault.

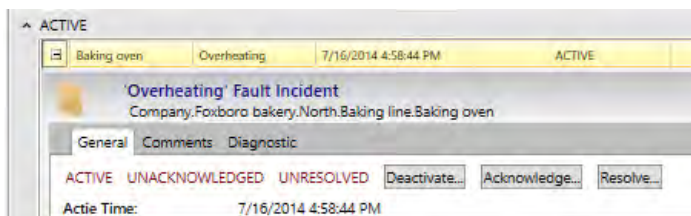


Figure 8 - Active fault

- As you can see there are three statuses associated with an active fault, which is ACTIVE, UNACKNOWLEDGED, and UNRESOLVED, each of which has a corresponding button to update its status.
- Click on Deactivate button will populate "Set Fault Incident(s) as Inactive" dialog.
- You can enter user name and comment, either deactivate the particular fault or multiple instances of fault.
- On clicking OK, the status of this incident will change to "Inactive".

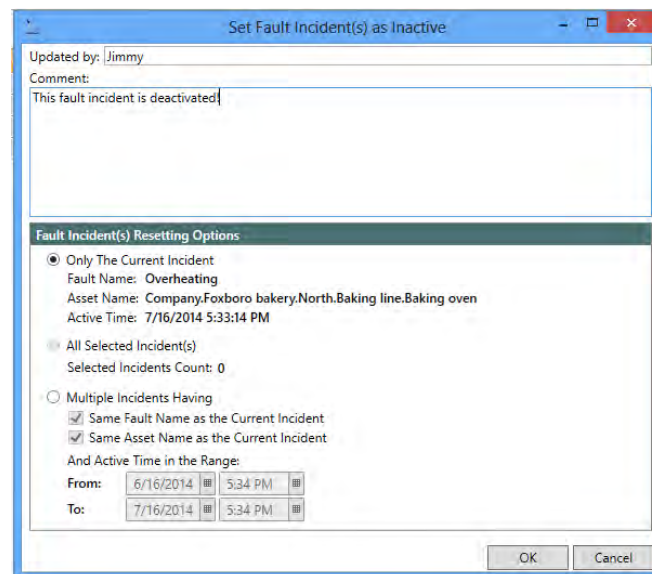


Figure 9 - Setting a fault as Inactive

- Similar to "Deactivate", you can also "Acknowledge" or "Resolve" fault incident. Their status will be updated accordingly after you submit the change.
- Once a status is cleared, its button will disappear and the new status will be shown in green under the General tab.



Figure 10 - Inactive resolved fault

- The comment you put in will also be displayed under Comments tab.



Figure 11 - Comments tab