

The FDT/DTM Interoperability Support Test (FIST) Result



The FIST test environment, the device information and information of the test result are documented.

1.1 DTM Under Test

Report Reference	SSD-SGFB02-T0236
DTM Manufacturer	Neles Finland Oy
DTM Name	NDX H6 rev.3
DTM Version	1.1.6933
DTM Library Version	NA
FDT Version	FDT 1.2
Supported Protocol	HART
Operating System	FieldMate: Windows 10 Professional – 64-bit PRM: Windows Server 2016 Standard-64-bit
FDT Certified	Yes
Test Date	21 Jun – 06 Jul 2021
Test Officer	Rajagauri d/o Rengasamy
Vendor Name/ Email	Johanna Jarvinen < johanna.jarvinen@neles.com >

1.2 Device Details

Device Manufacturer with ID	Device Model	Device Type	Device Revision	Supported Protocol	Device ID	Description
Neles Finland Oy 0x000057	NDX H6	0x57A2	0x03	HART	57A2003C00	Intelligent Valve Controller

1.3 Yokogawa FDT Frame

Manufacturer	Name	Version
Yokogawa	PRM	R4.04.00
Yokogawa	FieldMate	R3.04.10

1.4 Host System and Additional Interface

Manufacturer	Description	Version
Yokogawa	CENTUM VP	R6.07.00
Yokogawa	HART USB MODEM / Silicon Laboratories	R6.7.3.350

1.5 Test Results

No	Test Specifications	Content	Result		
1	Installation	Checks whether frame application shall be able to access the DTM for topology planning purpose		Pass	
2	Instantiation	Checks planning and integration of a device into a frame using the DUT DTM		Pass	
3	Editing Topology	Planning and editing, moving, copying and pasting of a device into a frame using a DTM or a topology	Not run*		
4	Backup/Restore	Checks Backup/Restore capability of the frame application and the DTM		Pass	
5	User Roles	Checks Frame/DTM behavior depending on the User Role		Pass	
6	Multiple Workplaces	Checking the DTM behavior when data set is accessed from two different workplaces	Not run*		
7	Multiple Frames	Checks simultaneous access to the device from several frames	Not run*		
8	Upload and Download	Checks upload to and download from a data set from the device to the engineering system		Pass	
9	Online Compare	Perform online/offline compare		Pass	
10	Nested Communication	Checks communication with the device through one or more Gateway's DTM	Not run*		
11	Device Observation	Checks the operation of the device with the DUT	Not run*		
12	Set Values	Checks values which are part of instance data set can be changed and transmitted to the device	Not run*		
13	Communication Loss	Checks DTM is able to handle a communication loss, without getting into trouble		Pass	
14	Native Language Support	Check if DTM react correctly on the frame's system call to change the current language setting	Not run*		
15	Bottleneck	Checks the bandwidth for acyclic	Not run*		

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		services			
16	Bus Parameters	Checks the bus parameters set for Profibus-DP are activated successfully	Not run*		
17	Bus Physics	Checks cabling and terminations have been executed correctly and device sends out a proper signal	Not run*		
18	Power Failure	Checks how the DTM handles a power failure		Pass	
19	Wrong Device Type	Checks DTM's rejection of communication with a non-matching device type		Pass	
20	Audit Trail	Checks DTM support audit trail function		Pass	
21	Replace DTM	Checks the replacement of the DUT's DTM by another DTM		Pass	
22	De-Installation	Checks whether frame's application projects are working properly, even if DUT's DTM is uninstalled		Pass	
23	DTM GUI Functions	Checks every menu for their operation		Pass	

(*) Not run: The unperformed test item due to the features which the device/frame does not support.

Final Verdict	PRM	Pass
	FieldMate	Pass

NOTE1	When the DTM is disconnected from the frame or when trying to close the DTMWorks window an error message is displayed. Error message displayed as: " Upload failed . Please ensure that the DTM is online with the correct device address, and the physical device is connected properly". For disconnection scenario, when the close button of the error message is pressed, the DTM is disconnected. The DTM can still be connected back without any issue. When DTMWorks window is closed, same error message is displayed. When the close button of the error message is clicked, the DTM is exited. As per development team, this is the expected behaviour of the frame and this does not affect the DTM functionality.
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