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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	SGDC-IOTL-TEST-143912	
DTM Manufacturer	Valmet Flow Control Oy	
Manufacturer ID	0x000057	
DTM Name	VG9000H	
DTM Version	1.24.6.1483	
DTM Library Version	NA	
FDT Version	FDT 1.2	
Supported Protocol	HART	
Operating System	FieldMate	Windows 10 Pro 64bit
	PRM	Windows Server 2019 Standard
FDT Certified	No	
Test Date	12-Mar to 20-Mar-2024	
Test Officer	Nur Aqilah MH	
Vendor Name/ Email	Jarvinen, Johanna (johanna.jarvinen@valmet.com)	



1.2 Device Details

Device Manufacturer with ID	Device Model	Device Type	Device Revision/DD Revision	Supported Protocol	Device ID	Description
Valmet Flow Control Oy 0x000057	VG9000H	0x57D9	2 / 2	HART	57D95DE922	Intelligent Safety Solenoid

1.3 Yokogawa FDT Frame

Manufacturer	Name	Version	Patch
Yokogawa	PRM	R4.07.00	NA
Yokogawa	FieldMate	R3.04.20	NA

1.4 Host system and Additional Interface

Manufacturer	Name	Version
Yokogawa	Prosafe-RS	R4.10.00
Yokogawa	HART USB MODEM / Silicon Laboratories	R6.7.3.350

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1.5 Test Results

No	Test Specifications	Content	Result	Note
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	
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	
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	
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 / Power Failure	Checks DTM is able to handle a communication loss/ power failure, 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	Pass	
18	Wrong Device Type	Checks DTM's rejection of communication with a non-matching device type	Pass	
19	Audit Trail	Checks DTM support audit trail function	Pass	
20	Replace DTM	Checks the replacement of the DUT's DTM by another DTM	Pass	
21	De-Installation	Checks whether frame's application projects are working properly, even if DUT's DTM is uninstalled	Pass	
22	DTM GUI Functions	Checks every menu for their operation	Pass	*1

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

Final Verdict	**PRM**	**Pass**
	FieldMate	**Pass**

Note: The test conducted for this FIST required connecting the DUT to ProSafe-RS NIO S2MMM843 module through the RCI9H2 interface. The RCI9H2 setup was to connect to HART I/O terminals 7 & 8, terminals 2 & 3 for HART signal to the device and 16 & 17 of the interface for power supply. Switch 1 (S1) position of the RCI9H2 interface is at III (Source). The HART revision was changed from 7 to 6, on the VG9000H H7 device using the local user interface. A reboot of the device is required to apply the changes.

*1 - Cyrillic alphabets for the language is only supported by Russian version of Windows

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