Abhijit, 2019113032 Gaurav Singh, 2020111014 Kavya, 2019101127 Pratyay Suvarnapathaki, 2020111016

Related	Pre-conditions						
Use case	1 re-conditions	Test Description (steps)	Expected Outcome	R1 Outcome (color code cell background)	Comments (if test case failed)	R2 Outcome (color code cell background)	Comments (if test case failed
UpandRunning: Program Setup	Invocation of our framework (this is the fundamental/basic use case)	Log in to the system from the lab	User should be able to connect to the nodes.				
UpAndRunning ; Program_Setup	Invocation of our framework (this is the fundamental/basic use case)	Connect to a node	User should get some live values of the nodes and sensors.				
UpAndRunning ; Program_Setup	Invocation of our framework (this is the fundamental/basic use case)	Change the conditions around the sensor and verify if sensor outputs a new updated value after a given amount of time (1s)	The change in sensor value is reflected on to the OneM2M server				
DataValidation ; Good_values	The node is up and running	Monitor the data sending by the sensors and mark for NaN values	There are no NaN values, I.e the sensor data is valid				
DataValidation ; Good_values	The node is up and running	Check if the NaN marked sensors actually have NaN outputs	All sensors are marked correctly				
DataValidation ; Outliers	The node is up and running and NaN values are marked	Pass testcases of noisy data with certain spikes and lowering of data values.	The algorithm should detect the sudden change in data values.				
DataValidation ; Outliers	The node is up and running and NaN values are marked	Reduce the intensity of the spikes in test 6 in certain levels.	The algorithm detects the sudden change in all levels of difficulty				
	Program Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup DataValidation; Good_values DataValidation; Good_values DataValidation; Outliers DataValidation;	Program Setup framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) Invocation of our framework (this is the fundamental/basic use case) DataValidation; The node is up and running DataValidation; Good_values DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked	Program Setup framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup DataValidation; DataValidation; Good_values DataValidation; DataValidation; Good_values DataValidation; The node is up and Good_values DataValidation; The node is up and running DataValidation; The node is up and running DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked Reduce the intensity of the spikes in test 6 in certain levels.	Program Setup framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) DataValidation; DataValidation; DataValidation; The node is up and Good_values DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and Outliers The node is up and running and NaN values are marked The node is up and running and NaN values are marked Reduce the intensity of the spikes in test 6 in Certain levels.	Program Setup framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) Verify if sensor outputs a new updated value after a given amount of time (1s) Monitor the data sending by the sensors and mark for NaN values The node is up and running All sensors are marked correctly NaN outputs Pass testcases of noisy data with certain spikes and lowering of data values. Pass testcases of noisy data with certain spikes and lowering of data values. Reduce the intensity of the spikes in test 6 in certain levels. The algorithm detects the sudden change in all levels of difficulty	Program Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup UpAndRunning; Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup DataValidation; The node is up and codo_values DataValidation; The node is up and running and NaN values are marked DataValidation; The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The node is up and running and NaN values are marked The algorithm detects the sudden change in all levels of difficulty	Program Setup UpAndRunning; Program_Setup Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Program_Setup UpAndRunning; Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup UpAndRunning; Program_Setup Invocation of our framework (this is the fundamental/basic use case) UpAndRunning; Program_Setup DataValidation; The node is up and Good_values DataValidation; The node is up and Good_values DataValidation; The node is up and Coutliers The node is up an