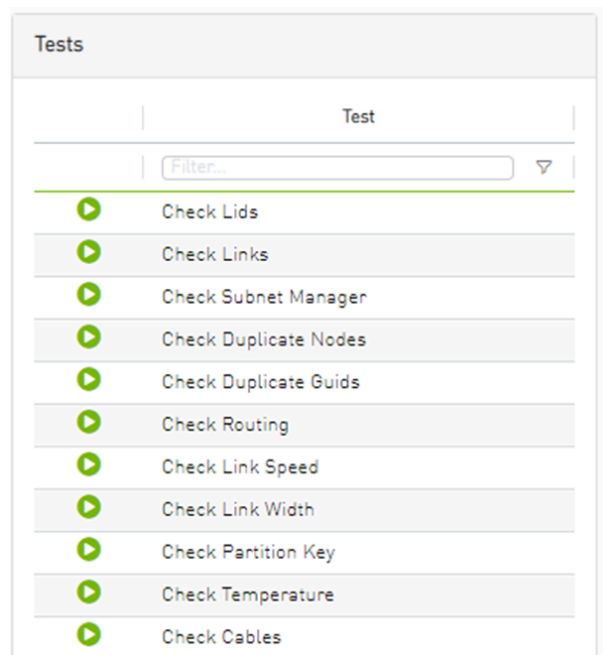




Fabric Validation Tab

The Fabric Validation tab displays the fabric validation tests and gives the ability to run the test and receive/view the summary as a job output. Summary of the job contains all errors and warnings that were found during the test execution.



Test	Description
Check Lids	Checks for bad lids. Possible lid errors are: <ul style="list-style-type: none"> • zero lid • lid duplication
Check Links	Checks for connectivity issues where all ports connected are not in the same state (active)
Check Subnet Manager	Checks for errors related to subnet manager. Possible SM errors are: <ul style="list-style-type: none"> • Failed to get SMInfo Mad • SM Not Found • SM Not Correct (master SM with wrong priority) • Many master SMs exists
Check Duplicate Nodes	Checks for duplications in nodes description

Test	Description
Check Duplicate GUIDs	Checks for GUIDs duplications
Check Routing	Checks for failures in getting routing MADs
Check Link Speed	<p>Checks for errors related to link speed. Possible link speed errors are:</p> <ul style="list-style-type: none"> • Different speed between ports • Wrong configuration - 'enable' not part of the 'supported' • Unexpected speed
Check Link Width	<p>Checks for errors related to link width. Possible link width errors are:</p> <ul style="list-style-type: none"> • Different width between ports • Wrong configuration - 'enable' not part of the 'supported' • Unexpected width
Check Partition Key	<p>Checks for errors related to PKey. Possible PKey errors are:</p> <ul style="list-style-type: none"> • Failed to get Pkey Tables • Mismatching pkeys between ports
Check Temperature	Checks for failure in getting temperature sensing.
Check Cables	<p>Checks for errors related to cables. Possible cable errors are:</p> <ul style="list-style-type: none"> • This device does not support cable info capability • Failed to get cable information (provides a reason)
Check Effective BER	Checks that the Effective BER does not exceed the threshold
Dragonfly Topology Validation	Validate if the topology is Dragonfly
SHARP Fabric Validation	Checks for SHARP Configurations in the fabric

Test	Description
Tree Topology Validation	Checks if the fabric is a tree topology
Socket Direct Mode Reporting	Presents the inventory of fabric HCAs that are using socket direct

To run a specific test, click the play button. The job will be displayed once completed.

The screenshot shows two panels. The left panel, titled 'Tests', contains a search bar and a list of tests: Check Lids (selected), Check Links, Check Subnet Manager, Check Duplicate Nodes, Check Duplicate GUIDs, Check Routing, Check Link Speed, Check Link Width, Check Partition Key, Check Temperature, Check Cables, and Check Effective BER. The right panel, titled 'Check Lids', shows a job created at 2022-04-28 17:09:35 with a status of 'Passed'. Below this is a 'Fabric Summary' table:

Category	Count
Total Nodes	56
IB Switches	15
IB Channel Adapters	30
IB Aggregation Nodes	11
IB Routers	0

Note

The job will also be displayed in the Jobs window.

Some validation tests contain data related to devices or ports like device GUID and port GUID.

Depending on that information a context menu for each related device/port can be shown.

Note

If the data is related to a port the context menu will contain both port and device options .

The screenshot shows the 'Errors' tab with a table of system errors. The table has columns: System Name, System GUID, Port GUID, Port Number, Scope, and Summary. A context menu is open over a row, showing options for 'Device' and 'Ports'.

System Name	System GUID	Port GUID	Port Number	Scope	Summary
smg-ib-sw012	0x043f720300f695c6	0x043f720300f695c6		Port	Unexpected actual...
smg-ib-sw040	0x043f720300b818a0	0x043f720300b818a0		Port	Unexpected actual...
smg-ib-sw012	0x043f720300f695c6	0x043f720300f695c6		Port	Unexpected actual...
smg-ib-vrt003	0x98039b03009fcf4e	0x98039b03009fcf4e		Port	Unexpected actual...
smg-ib-sw012	0x043f720300f695c6	0x043f720300f695c6		Port	Unexpected actual...
smg-ib-apl021-gen3	0xb8599f03005681a0	0xb8599f03005681a0		Port	Unexpected actual...
smg-ib-sw012	0x043f720300f695c6	0x043f720300f695c6		Port	Unexpected actual...
smg-ib-apl021-gen3	0xb8599f03005681a0	0xb8599f03005681a0		Port	Unexpected actual...
smg-ib-sw012	0x043f720300f695c6	0x043f720300f695c6		Port	Unexpected actual...
smg-ib-sw022	0x7cfe9003009a05b0	0x7cfe9003009a05b0		Port	Unexpected actual...

The screenshot shows the 'Warnings' tab with a table of system warnings. The table has columns: System Name, System GUID, Port GUID, Port Number, Scope, and Summary. A context menu is open over a row, showing options for 'Copy Cell', 'Mark As Unhealthy', 'Firmware Upgrade', 'Add To Group', 'Remove From Group', 'Suppress Notifications', and 'Add To Monitor Session'.

System Name	System GUID	Port GUID	Port Number	Scope	Summary
N/A	0x7cfe900300a5a2a0	0		Port	

