



Ports Window

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Auto-isolation of High-BER Ports

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Figure 0. Image2021 11 26 9 36 55 Version 1 Modificationdate
1716899565380 Api V2

Figure 1. High Ber Ports Tab Version 1 Modificationdate
1716899560860 Api V2

Figure 2. Mark High Ber Port As Unhealthy Version 1 Modificationdate
1716899561477 Api V2

Provides a list of all ports in UFM.

Severity	State	System	Name	P.	Name	LID	Peer Node	Name	Peer	Name	Peer LID	MTU	Speed	Width
Warning	✓	r-hyp-sw-01		1		9	r-ufm254-hyp-01		HCA-1/1		1	4096	SDR	4X
Info	✓	r-hyp-sw-01		23		9	ufm-host86		HCA-1/1		3	4096	EDR	4X
Minor	✓	r-hyp-sw-01		36		9	SwitchIB Mellanox Technologies		36		2	4096	FDR EDR	4X
Info	✓	r-ufm254-hyp-01		HCA-1/1		1	r-hyp-sw-01		1		9	4096	SDR EDR	4X
Info	✓	r-ufm254-hyp-02		HCA-1/1		10	SwitchIB Mellanox Technologies		1		2	4096	FDR EDR	4X
Minor	✓	SwitchIB Mellanox Technologies		1		2	r-ufm254-hyp-02		HCA-1/1		10	4096	FDR EDR	4X
Info	✓	SwitchIB Mellanox Technologies		36		2	r-hyp-sw-01		36		9	4096	FDR EDR	4X
Info	✓	ufm-host86		HCA-1/1		3	r-hyp-sw-01		23		9	4096	EDR	4X

The table can be filtered by port state. The filter contains two options:

- Active – only active ports
- All – all ports

Severity	State	System	Name	P.	Name	LID	Peer Node	Name	Peer	Name	Peer LID	MTU	Speed	Width
Warning	✓	r-hyp-sw-01		1		9	r-ufm254-hyp-01		HCA-1/1		1	4096	SDR	4X
Info	✓	r-hyp-sw-01		23		9	ufm-host86		HCA-1/1		3	4096	EDR	4X
Minor	✓	r-hyp-sw-01		36		9	SwitchIB Mellanox Technologies		36		2	4096	FDR EDR	4X
Info	✓	r-ufm254-hyp-01		HCA-1/1		1	r-hyp-sw-01		1		9	4096	SDR EDR	4X
Info	✓	r-ufm254-hyp-02		HCA-1/1		10	SwitchIB Mellanox Technologies		1		2	4096	FDR EDR	4X
Minor	✓	SwitchIB Mellanox Technologies		1		2	r-ufm254-hyp-02		HCA-1/1		10	4096	FDR EDR	4X
Info	✓	SwitchIB Mellanox Technologies		36		2	r-hyp-sw-01		36		9	4096	FDR EDR	4X
Info	✓	ufm-host86		HCA-1/1		3	r-hyp-sw-01		23		9	4096	EDR	4X

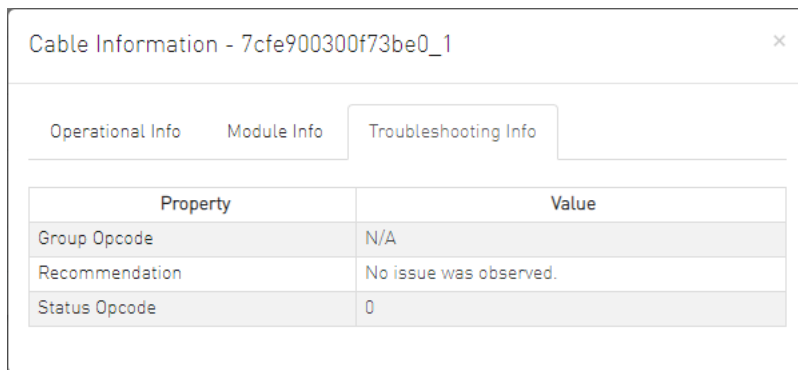
When right-clicking one of the available ports, the following actions appear:

Severity	State	System	Name	P.	Name	LID	Peer Node	Name	Peer	Name	Peer LID	MTU	Speed	Width
Warning	✓	r-hyp-sw-01		1		9	r-ufm254-hyp-01		HCA-1/1		1	4096	SDR	4X
Info	✓	r-hyp-sw-01		23		9	ufm-host86		HCA-1/1		3	4096	EDR	4X
Minor	✓	r-hyp-sw-01		36		9	SwitchIB Mellanox Technologies		36		2	4096	FDR EDR	4X
Info	✓	r-ufm254-hyp-01		HCA-1/1		1	r-hyp-sw-01		1		9	4096	SDR EDR	4X
Info	✓	r-ufm254-hyp-02		HCA-1/1		10	SwitchIB Mellanox Technologies		1		2	4096	FDR EDR	4X
Minor	✓	SwitchIB Mellanox Technologies		1		2	r-ufm254-hyp-02		HCA-1/1		10	4096	FDR EDR	4X
Info	✓	SwitchIB Mellanox Technologies		36		2	r-hyp-sw-01		36		9	4096	FDR EDR	4X
Info	✓	ufm-host86		HCA-1/1		3	r-hyp-sw-01		23		9	4096	EDR	4X

Note

All enable/disable actions on managed switches' ports are persistent. Thus, if a managed switch port is disabled, the port remains disabled even when rebooting the switch.

Clicking "Cable Information" opens up a window which provides data on operational, module, and troubleshooting information as shown in the following:



The screenshot shows a window titled "Cable Information - 7cfe900300f73be0_1". It has three tabs: "Operational Info", "Module Info", and "Troubleshooting Info". The "Troubleshooting Info" tab is active and displays a table with the following data:

Property	Value
Group Opcode	N/A
Recommendation	No issue was observed.
Status Opcode	0

Cable Information - 7cfe900300f73be0_1

Operational Info Module Info Troubleshooting Info

Property	Value
Vendor Serial Number	MT1515VS07837
Vendor Part Number	MCP1600-E001
Vendor Name	Mellanox
Attenuation (5g,7g,12g) [dB]	4,5,9
Bias Current [mA]	N/A
Cable Technology	Copper cable unequalized
Cable Type	Passive copper cable
CDR RX	N/A
CDR TX	N/A
Compliance	N/A
Digital Diagnostic Monitoring	No
FW Version	N/A
Identifier	QSFP+
LOS Alarm	N/A
OUI	Mellanox
Power Class	1.5 W max
Rev	A2
Rx Power Current [dBm]	N/A
Temperature [C]	N/A
Transfer Distance [m]	1
Tx Power Current [dBm]	N/A
Voltage [mV]	N/A
Wavelength [nm]	N/A

Cable Information - 7cfe900300f73be0_1

Operational Info Module Info Troubleshooting Info

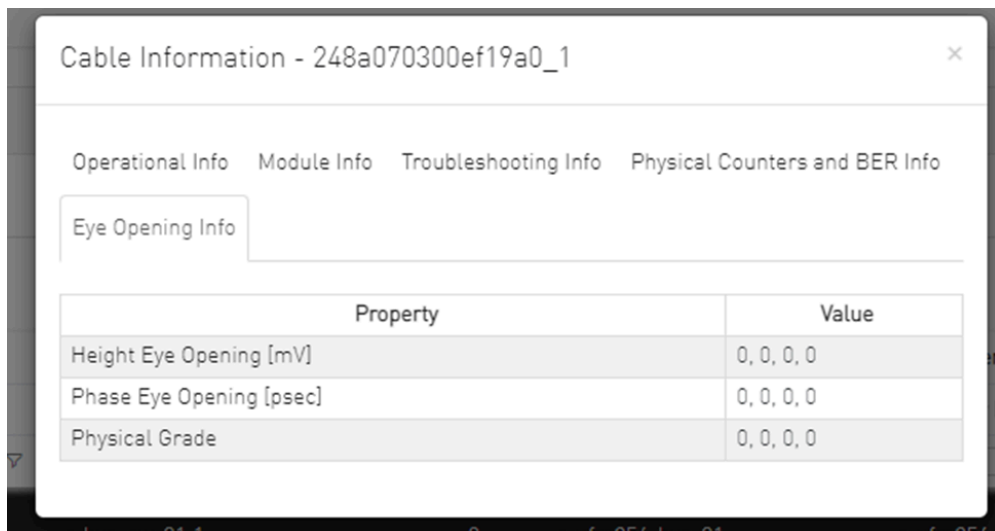
Property	Value
Auto Negotiation	ON
FEC	Standard LL RS-FEC - RS[271,257]
Loopback Mode	No Loopback
Physical state	LinkUp
Speed	IB-EDR
State	Active
Width	0x
Enabled Link Speed	0x0000003f (EDR,FDR,FDR10,QDR,DDR,SDR)
Supported Cable Speed	0x0000003f (EDR,FDR,FDR10,QDR,DDR,SDR)

Physical Grade and Eye Opening Information

Eye opening information contains the following data:

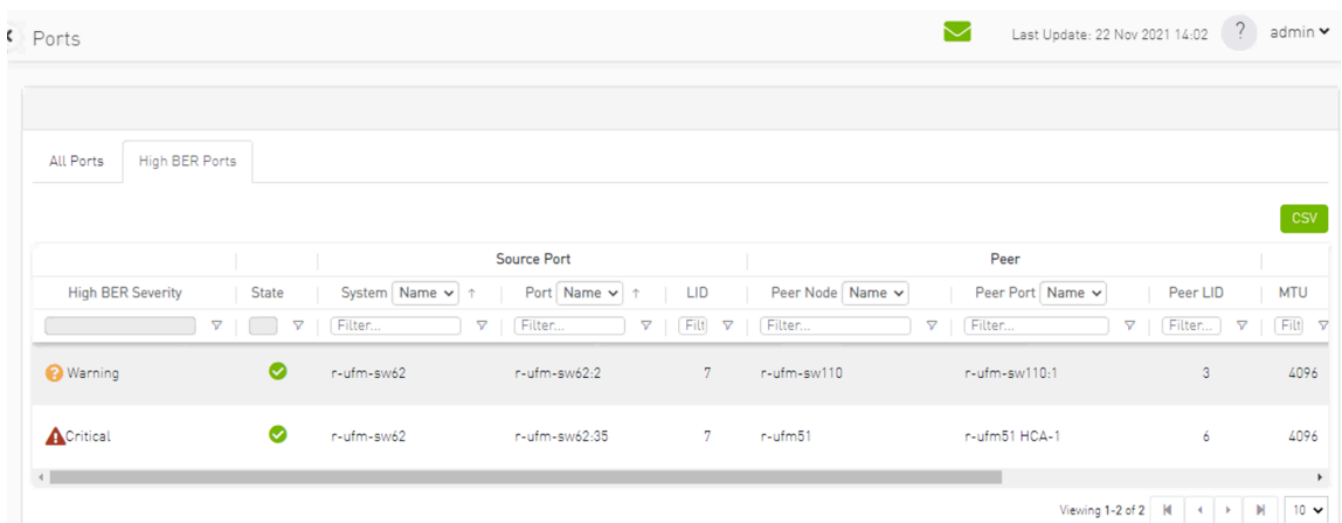
- Physical Grade: [Grade0, Grade1, Grade2, Grade3]
- Height Eye Opening [mV]: [Height0, Height1, Height2, Height3]
- Phase Eye Opening [psec]: [Phase0, Phase1, Phase2, Phase3]

A new tab called Eye Information was added under cable information modal in ports table.



Auto-isolation of High-BER Ports

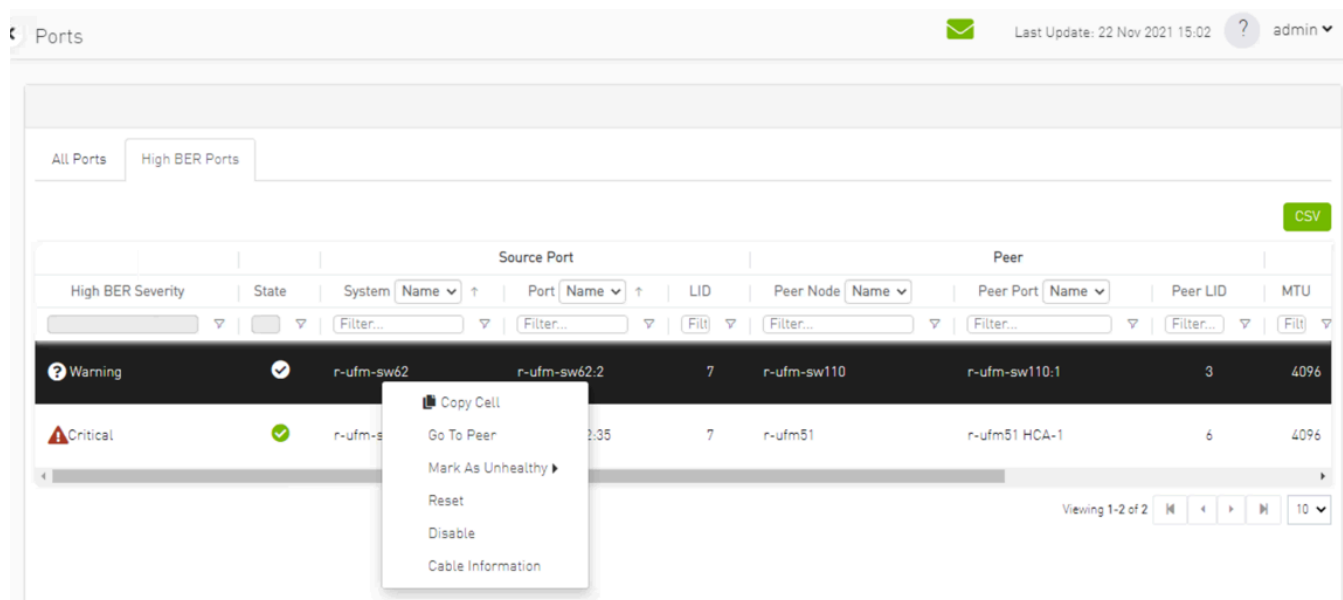
The High BER Ports tab lists all high-BER ports in the fabric.



The flags `high_ber_ports_auto_isolation` must be configured in the `gv.cfg` file to enable this feature.

For each port discovered as a high-BER port, a new event is triggered in the Events table.

Marking the high-BER port as unhealthy suppresses all events and notifications related to the auto-isolated port.



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