

Ports Window

Table of contents

Physical Grade and Eye Opening Information	
Auto-isolation of High-BER Ports	

List of Figures

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.

All Ports	High BER Ports									
								Active	Displayed Co	lumns + CSV +
			Source Port			Peer				
Severity	State	System Name 🕶 🕆	P. Name 🗸	LID	Peer Node Name 🗸	Peer Nai 🗸	Peer LID	MTU	Speed	Width
	7	V Filter	7 (Filter) 🔽	Filter 🗸	(Filter	Filter	🗸 (Filter) 🗴	Filter	7	V
😮 Warning	O	r-hyp-sw-01	1	9	r-ufm254-hyp-01	HCA-1/1	1	4096	SDR	4X
🥑 Info	0	r-hyp-sw-01	23	9	ufm-host86	HCA-1/1	3	4096	EDR	4X
Minor	0	r-hyp-sw-01	36	9	SwitchIB Mellanox Technologies	36	2	4096	FDR EDR	4X
🥑 Info	0	r-ufm254-hyp-01	HCA-1/1	1	r-hyp-sw-01	1	9	4096	SDR EDR	4X
🥑 Info	0	r-ufm254-hyp-02	HCA-1/1	10	SwitchIB Mellanox Technologies	1	2	4096	FDR EDR	4X
1 Minor	0	SwitchiB Mellanox Technologies	1	2	r-ufm254-hyp-02	HCA-1/1	10	4096	FDR EDR	4X
🕑 Info	S	SwitchIB Mellanox Technologies	36	2	r-hyp-sw-01	36	9	4096	FDR EDR	4X
🥑 Info	0	ufm-host8ó	HCA-1/1	3	r-hyp-sw-01	23	9	4096	EDR	4X

Viewing 1-8 of 8 H 🕢 → 🔣 10 🗸

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

- Active only active ports
- All all ports

								Active V	Displayed Column	ns • CSV •
		S	Source Port			Peer		All		
Severity	State	System Name 🗸 🕆	P Name 🗸	LID	Peer Node Name 🗸	Peer Nai 🗸	Peer LID	MTU	Speed	Width
7		(Filter 🗸	Filter 🔽 Fi	tet 🗸 🗸	Filter 🗸	Filter 🔊	Filter 🗸	Filter 🗸		7
🕜 Warning	O	r-hyp-sw-01	1	9	r-ufm254-hyp-01	HCA-1/1	1	4096	SDR	4X
📀 Info	0	r-hyp-sw-01	23	9	ufm-host86	HCA-1/1	3	4096	EDR	4X
1 Minor	 Image: A start of the start of	r-hyp-sw-01	36	9	SwitchIB Mellanox Technologies	36	2	4096	FDR EDR	4X
📀 Info	0	r-ufm254-hyp-01	HCA-1/1	1	r-hyp-sw-01	1	9	4096	SDR EDR	4X
📀 Info	0	r-ufm254-hyp-02	HCA-1/1	10	SwitchIB Mellanox Technologies	1	2	4096	FDR EDR	4X
Minor	0	SwitchIB Mellanox Technologies	1	2	r-ufm254-hyp-02	HCA-1/1	10	4096	FDR EDR	4X
📀 Info	0	SwitchIB Mellanox Technologies	36	2	r-hyp-sw-01	36	9	4096	FDR EDR	4X
🕑 Info	0	ufm-host86	HCA-1/1	3	r-hyp-sw-01	23	9	4096	EDR	4X

Viewing 1-8 of 8 H ← → H 10 マ

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

								Active •	 Displayed Colum 	ns - CSV -
			Source Port			Peer				
Severity	State	System Name		LID	Peer Node Name 🗸	Peer Nai 🗸	Peer LID	MTU	Speed	Width
	2	Filter	V Filter V		♥ Filter	Filter	[Filter] 🗸 [Fi	lter		V (11)
😮 Warning	0	r-hyp-sw-01	1	9	r-ufm254-hyp-01	HCA-1/1	1	4096	SDR	4X
😔 Info	0	r-hyp-sw-01	23	9	ufm-host86	HCA-1/1	3	4096	EDR	4X
1 Minor	0	r-hyp-sw-01	26	9	SwitchIB Mellanox Technologies	36	2	4096	FDR EDR	4X
🕑 Info	0	r-ufm254-hyp-01	🕒 Copy Cell	1	r+hyp+sw-01	1	9	4096	SDR EDR	4X
🥑 Info	0	r-ofm254-hyp-02	Go To Peer	10	SwitchIB Mellanox Technologies	1	2	4096	FDR EDR	4X
Minor	0	SwitchIB Mellanox Tec	Mark As Unhealthy 🕨	2	r-ufm254-hyp-02	HCA-1/1	10	4096	FDR EDR	4X
🥑 Info	0	SwitchIB Mellanox Teo	Reset	2	r-hyp-sw-01	36	9	4096	FDR EDR	4X
🥑 Info	0	ufm-host8é	Disable	3	r-hyp-sw-01	23	9	4096	EDR	4X
			Cable Information					Viewin	ng 1-8 of 8 H →	≻ H 10 ¥



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:

Cable Information - 7cfe900300f73be0_1						
Operational Info Module Info	Troubleshooting Info					
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 - 7cfe	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.

Cable Informat	tion - 248a0	70300ef19a0_1					
Operational Info	Module Info	Troubleshooting Info	Physical C	ounters and BER II	nfo		
Eye Opening Info	Pro	perty		Value			
Height Eye Openir	Height Eye Opening [mV]						
Phase Eye Openin	g [psec]			0, 0, 0, 0			
Physical Grade				0, 0, 0, 0			

Auto-isolation of High-BER Ports

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

Ports				Last Update: 22 Nov 2	021 14:02 ? admir
All Ports High BER Port	5				CS
		Source Port		Peer	
High BER Severity	State System Nam	ne ♥ ↑ Port Name ♥ ↑	LID Peer Node Nam	ne 🗸 Peer Port Name 🗸	Peer LID MTU
▽	▼ Filter	♥ Filter ♥	Filt 🗸 (Filter	♥ Filter ♥	Filter 🗸 Filt
😢 Warning	✓ r-ufm-sw62	r-ufm-sw62:2	7 r-ufm-sw110	r-ufm-sw110:1	3 409
Critical	✓ r-ufm-sw62	r-ufm-sw62:35	7 r-ufm51	r-ufm51 HCA-1	6 409
6					
				Viewing 1-2 of 2	₩ ← ▶ ₩ 10

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.

Ports						Last Update: 22 Nov 20	21 15:02 ?	admin 🗸
All Ports High BER Ports								
								CSV
		Source Por	rt			Peer		
High BER Severity State	System N	ame 🗸 👌 Port	Name 🗸 🕆	LID	Peer Node Name	✓ Peer Port Name ✓	Peer LID	MTU
	Filter	▼ Filter		⊽ Filt ⊽	Filter	▼ [Filter ▼	Filter V	Filt V
? Warning 😪	r-ufm-sw62	r-ufm-s	w62:2		r-ufm-sw110	r-ufm-sw110:1		4096
		📕 Copy Cell						
🛕 Critical 🥏	r-ufm-s	Go To Peer	2:35	7	r-ufm51	r-ufm51 HCA-1	6	4096
4	_	Mark As Unhealthy 🕨	-			_		•
		Reset				Viewing 1-2 of 2	H A D	N 10 ¥
		Disable				including the original data	R C 7	

© Copyright 2024, NVIDIA. PDF Generated on 06/06/2024