



Events & Alarms

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Note

All information in a tabular format in UFM web UI can be exported into a CSV file.

UFM allows you to identify any problem, including ports and device connectivity, using events and alarms. Problems can be detected both before running applications and during standard operation.

Events trigger alarms (except for "normal" events. i.e., Info events) when they exceed a predefined threshold. Events and alarms can be configured under Events Policy tab under Settings window. For more information, refer to [Events Policy Tab](#).

Alarms

Clear All Alarms

Displayed Columns

CSV

Severity	Date/Time	Alarm Name	Source	Source Type	Reason	Count
	Filter	Filter	Filter		Filter	Edit
Warning	2024-07-28 9:07:54	Excessive Bu...	SubModule: Mellanox Technolog...	IBPort	ExcessiveBufferOverrunErrors counter rate threshold exceeded. Thres...	1
Minor	2024-07-28 9:07:53	Port Xmit Dis...	SubModule: Mellanox Technolog...	IBPort	PortXmitDiscards counter rate threshold exceeded. Threshold is 0 rec...	1
Minor	2024-07-28 9:07:52	Non-optimal ...	SubModule: Mellanox Technolog...	IBPort	Found a 4x link that operates in 1x width mode.	1
Info	2024-07-28 9:07:51	VL15 Droppe...	SubModule: Mellanox Technolog...	IBPort	VL15Dropped counter rate threshold exceeded. Threshold is 0, receive...	1
Minor	2024-07-28 9:07:49	Port Receive ...	SubModule: Mellanox Technolog...	IBPort	PortRcvRemotePhysicalErrors counter rate threshold exceeded. Thres...	1
Warning	2024-07-28 9:07:47	GID Address ...	SubModule: Mellanox Technolog...	IBPort	GID Address Out of Service: prefix ff12601bfff0000,guid 0xb8599f03000...	1
Minor	2024-07-28 9:06:29	Non-optimal ...	Switch: sw-hpc62 / 3	IBPort	Found a [25.0] link that operates in [14.0] speed mode.	6
Warning	2024-07-28 8:37:20	Topology co...	Topology compare report [2]	Site	Topology differences were detected in comparison to the master topol...	1

Viewing 1-8 of 8

All Events

Device Status Events

Link Status Events

Clear All Events

↺

Displayed Columns

CSV

Severity	Date/Time ↓	Event Name	Source	Source Type	Description	Category
Warning	2024-07-28 9:07:54	Excessive Buffer Over...	default / SubModule: Mellanox Techn...	IBPort	ExcessiveBufferOverrunErrors counter rate thresh...	
Minor	2024-07-28 9:07:53	Port Xmit Discards [**...	default / SubModule: Mellanox Techn...	IBPort	PortXmitDiscards counter rate threshold exceeded...	
Minor	2024-07-28 9:07:52	Non-optimal link widt...	default / SubModule: Mellanox Techn...	IBPort	Found a 4x link that operates in 1x width mode.	
Info	2024-07-28 9:07:51	VL15 Dropped [*** Si...	default / SubModule: Mellanox Techn...	IBPort	VL15Dropped counter rate threshold exceeded. Th...	
Minor	2024-07-28 9:07:49	Port Receive Remote ...	default / SubModule: Mellanox Techn...	IBPort	PortRcvRemotePhysicalErrors counter rate thresh...	
Info	2024-07-28 9:07:48	New MCast Group Cre...	default / SubModule: Mellanox Techn...	IBPort	New MCast group is created: ff12601bffff0000, 0xb...	
Warning	2024-07-28 9:07:47	GID Address Out of Se...	default / SubModule: Mellanox Techn...	IBPort	GID Address Out of Service: prefix ff12601bffff0000...	
Info	2024-07-28 9:07:42	Topology compare Rep...	Topology compare report [67]	Site	The current topology aligns with the master topolo...	
Info	2024-07-28 9:07:22	Topology compare Rep...	Topology compare report [66]	Site	The current topology aligns with the master topolo...	
Info	2024-07-28 9:06:41	Topology compare Rep...	Topology compare report [65]	Site	The current topology aligns with the master topolo...	

Users can enable the events persistency mechanism from the `gv.cfg`. This allows the user to see the events in the case of restarting the UFM or in HA mode.

Note

Alternatively you can run the following commands:

- `ufm events persistency enable`
- `ufm events max-restored`

The persistency is deactivated by default and can be enabled by the following controlled parameters in the config file:

- `max_restored_events = 50 #` – will determine the number of events to restore
- `events_persistency_enabled = true #` – will set to true for the feature to work

Device Status Events

The Device Status Events tab displays topology change events related to devices in a table. it will support the following event types:

- None is Up/Down

- Switch is Up/Down
- Director Switch is Up/Down

The screenshot shows the 'Events' interface with tabs for 'All Events', 'Device Status Events', and 'Link Status Events'. The 'All Events' tab is selected. The table has columns: Severity, Date/Time, Event Name, Source, Source Type, Description, and Category. The 'Time' filter is set to 'Last 24 hours' and 'Length' is '10000'. There are buttons for 'Displayed Columns' and 'CSV'. The table contains four rows of 'Info' severity events, all with the event name 'Node is Up' and source 'default'. The descriptions are identical: 'Site configuration changes: 043f720300dd1d3c (r-ufm254-hyp-04) node is Up'. The dates are 2023-10-31 at various times. The bottom right shows 'Viewing 1-4 of 4' with navigation icons and a page size of 10.

Severity	Date/Time	Event Name	Source	Source Type	Description	Category
Info	2023-10-31 14:16:04	Node is Up	default	Site	Site configuration changes: 043f720300dd1d3c (r-ufm254-hyp-04) node is Up	
Info	2023-10-31 13:53:48	Node is Up	default	Site	Site configuration changes: 043f720300dd1d3c (r-ufm254-hyp-04) node is Up	
Info	2023-10-31 13:47:29	Node is Up	default	Site	Site configuration changes: 043f720300dd1d3c (r-ufm254-hyp-04) node is Up	
Info	2023-10-31 13:16:58	Node is Up	default	Site	Site configuration changes: 043f720300dd1d3c (r-ufm254-hyp-04) node is Up	

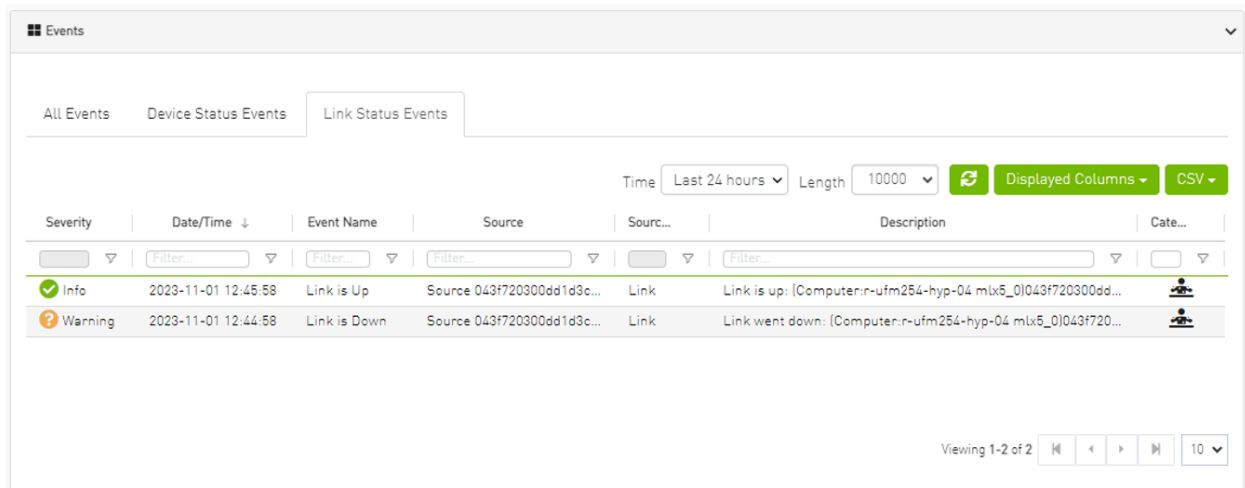
Filters are provided to allow events filtering by the desired time interval with a length limit.

This screenshot shows the same 'Events' interface as the previous one, but with a 'Time Range' dialog box open over the table. The dialog has a 'Time Range' section with radio buttons and a 'Custom' section. The 'Time Range' section has buttons for 'Last 5 Minutes', 'Last 12 hours', 'Last week', 'Last 6 months', 'Last 1 hour', 'Last 24 hours', 'Last month', and 'Last 1 year'. The 'Custom' section is currently selected. At the bottom of the dialog are 'Cancel' and 'Save' buttons. The background table shows the same four 'Node is Up' events.

Link Status Events

The Link Status Events tab displays topology change events related to links in a table. It supports the following event type:

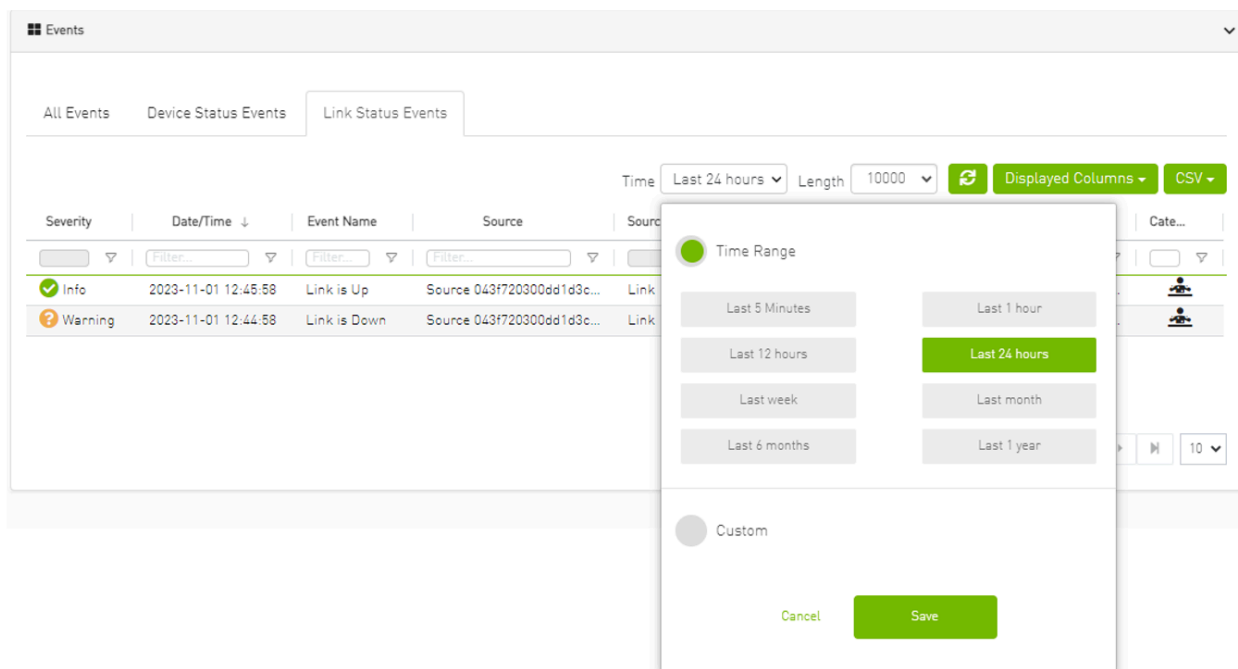
- Link is Up/Down

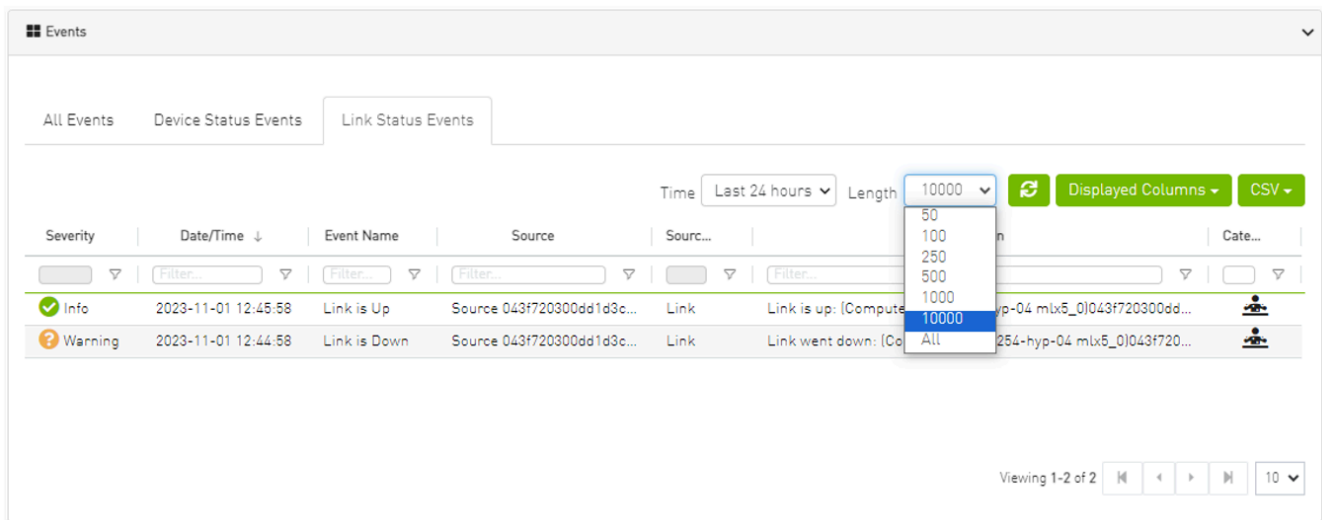


The screenshot shows the 'Events' window with the 'Link Status Events' tab selected. The table displays two events: 'Link is Up' and 'Link is Down'. The table has columns for Severity, Date/Time, Event Name, Source, and Description. The 'Link is Up' event is marked as 'Info' and the 'Link is Down' event is marked as 'Warning'. The 'Time' filter is set to 'Last 24 hours' and the 'Length' is set to '10000'. The 'Displayed Columns' and 'CSV' buttons are visible.

Severity	Date/Time ↓	Event Name	Source	Source...	Description	Cate...
Info	2023-11-01 12:45:58	Link is Up	Source 043f720300dd1d3c...	Link	Link is up: [Computer:r-ufm254-hyp-04 mlx5_0]043f720300dd...	
Warning	2023-11-01 12:44:58	Link is Down	Source 043f720300dd1d3c...	Link	Link went down: [Computer:r-ufm254-hyp-04 mlx5_0]043f720...	

Filters are provided to allow filtering by the desired time interval in a time range.





Note

The related switch context menu is displayed only if the event type is 'Switch is Up/Down'. Other event types show the default context menu, which is 'Copy Cell'.

Cable Transceiver Temperatures

The UFM has alarms that notify the user in cases where an active cable overheats/overcools. The UFM uses ibdiagnet to get cable temperature analysis and report exceptions via the Alarms view.

Related events:

- 919 for high cable temperature
- 920 for low cable temperature

GUI Views

Events

Events

All Events

Device Status Events

Link Status Events

Clear All Events

Displayed Columns

CSV

Severity	Date/Time ↓	Event Name	Source	Source Type	Description	Category
<div></div> <div>Filter...</div>	<div></div> <div>Filter...</div>	<div></div> <div>Filter...</div>	<div></div> <div>Filter...</div>	<div></div> <div>Filter...</div>	<div></div> <div>Filter...</div>	<div></div> <div>Filter...</div>
<div>✓</div> <div>Info</div>	2024-07-28 9:21:23	Topology compare Rep...	Topology compare report [94]	Site	The current topology aligns with the master topolo...	<div></div> <div></div>
<div>?</div> <div>Warning</div>	2024-07-28 9:20:43	Topology compare Rep...	Topology compare report [93]	Site	Topology differences were detected in comparison ...	<div></div> <div></div>

Viewing 1-2 of 2

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Alarms



Event Policy

Showing 2 out of 243 , [Click to reset all filters](#)





All

Recipients List

Save

Revert

Displayed Columns

Event	Category	Mail	GUI	Alarm	Log File	Threshold	TTL(Sec)	Severity
Topology						Filter	Filter	
Topology compare Report completed successfully		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	 Info
Topology compare Report completed with errors		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	 Warning

Topology Compare Events:

The UFM has alarms and events that notify the user of the result of periodic topology compare.

Related events:

- 1607 Topology compare Report completed successfully
- 1608 Topology compare Report completed with errors