



## Events & Alarms

# Table of contents

Device Status Events

---

Link Status Events

---

Cable Transceiver Temperatures

---

# List of Figures

Figure 0. Devicestatuses1 Version 1 Modificationdate  
1716899674680 Api V2

---

Figure 1. Devicestatuses2 Version 1 Modificationdate  
1716899674267 Api V2

---

Figure 2. Linkstatuses Version 1 Modificationdate 1716899677480  
Api V2

---

Figure 3. Linkstatuses2 Version 1 Modificationdate 1716899676807  
Api V2

---

Figure 4. Linkstatuses3 Version 1 Modificationdate 1716899675343  
Api V2

---

Figure 5. Image2022 4 28 12 46 33 Version 1 Modificationdate  
1716899670347 Api V2

---

Figure 6. Image2022 4 28 12 48 9 Version 1 Modificationdate  
1716899669707 Api V2

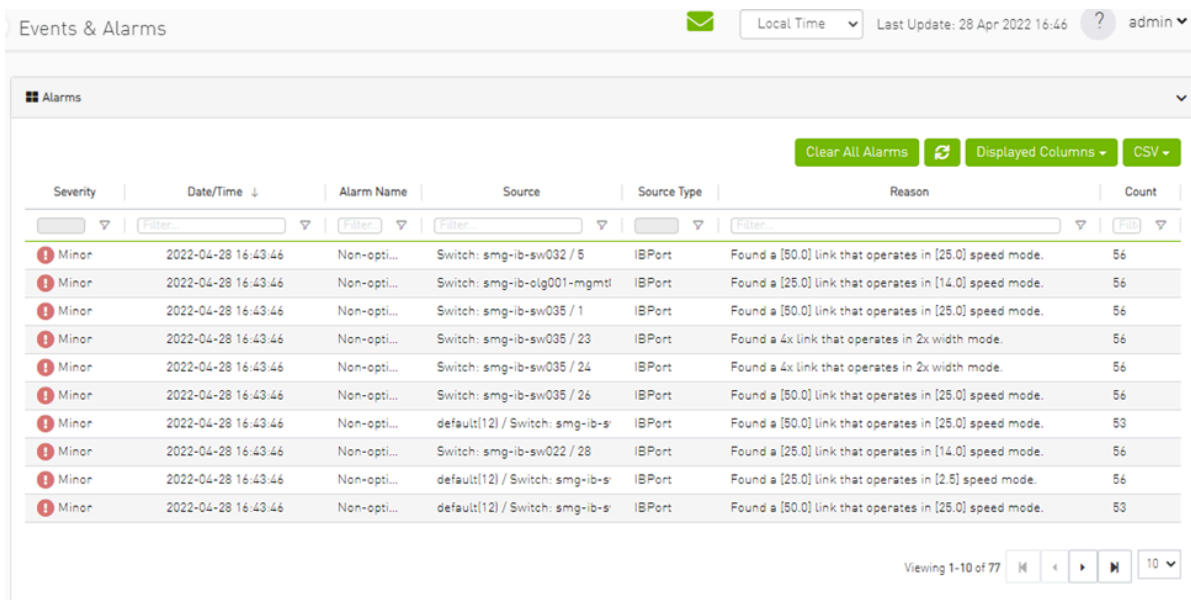
---

## 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](#).



The screenshot displays the 'Events & Alarms' section of the UFM web UI. At the top, there is a header with 'Events & Alarms', a green checkmark, 'Local Time' dropdown, 'Last Update: 28 Apr 2022 16:46', and a user profile 'admin'. Below the header, there is a 'Alarms' section with a dropdown arrow. The main area contains a table of alarms with columns: Severity, Date/Time, Alarm Name, Source, Source Type, Reason, and Count. The table has several filter boxes above the columns. At the top right of the table area, there are buttons for 'Clear All Alarms', a refresh icon, 'Displayed Columns', and 'CSV'. At the bottom right, there is a pagination control showing 'Viewing 1-10 of 77' and navigation icons.

Severity	Date/Time	Alarm Name	Source	Source Type	Reason	Count
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-sw032 / 5	IBPort	Found a [50.0] link that operates in [25.0] speed mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-olg001-mgmt	IBPort	Found a [25.0] link that operates in [14.0] speed mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-sw035 / 1	IBPort	Found a [50.0] link that operates in [25.0] speed mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-sw035 / 23	IBPort	Found a 4x link that operates in 2x width mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-sw035 / 24	IBPort	Found a 4x link that operates in 2x width mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-sw035 / 26	IBPort	Found a [50.0] link that operates in [25.0] speed mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	default[12] / Switch: smg-ib-s	IBPort	Found a [50.0] link that operates in [25.0] speed mode.	53
Minor	2022-04-28 16:43:46	Non-opti...	Switch: smg-ib-sw022 / 28	IBPort	Found a [25.0] link that operates in [14.0] speed mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	default[12] / Switch: smg-ib-s	IBPort	Found a [25.0] link that operates in [2.5] speed mode.	56
Minor	2022-04-28 16:43:46	Non-opti...	default[12] / Switch: smg-ib-s	IBPort	Found a [50.0] link that operates in [25.0] speed mode.	53

Severity	Date/Time ↓	Event Name	Source	Source Type	Description	Category
Info	2022-04-28 16:41:29	Network Interface...	logical2(0/0)	LogicalServer	Network Interface env1_logical2_manage...	
Info	2022-04-28 16:41:29	Logical Server Ad...	env1(1)	Environment	Logical Server logical2 is added	
Info	2022-04-28 16:41:29	Compute Resourc...	logical2(1/1)	LogicalServer	Compute Resource logical2/1 (smg-ib-svr...	
Info	2022-04-28 16:41:29	Logical Server Re...	logical2(1/1)	LogicalServer	Logical Server allocated 1 Resources	
Info	2022-04-28 16:41:29	Network Interface...	logical2(1/1)	LogicalServer	Network Interface env1_logical2_net1 is a...	
Critical	2022-04-28 16:38:38	Module status FA...	default(12) / Switch: smg-ib-sw	Switch	Module PS 2 on smg-ib-sw040(10.209.24...	
Info	2022-04-28 16:32:22	Environment Added	Grid	Grid	Environment env2 is added	
Info	2022-04-28 16:31:35	Network Interface...	logical1(0/0)	LogicalServer	Network Interface env1_logical1_manage...	
Info	2022-04-28 16:31:35	Logical Server Ad...	env1(0)	Environment	Logical Server logical1 is added	
Info	2022-04-28 16:31:35	Compute Resourc...	logical1(1/1)	LogicalServer	Compute Resource logical1/1 (smg-ib-svr...	

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' window with tabs for 'All Events', 'Device Status Events', and 'Link Status Events'. The 'Time' filter is set to 'Last 24 hours' and 'Length' is '10000'. The table below shows the following data:

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.

The screenshot shows the 'Events' window with the 'Time Range' dialog box open. The dialog has a radio button selected for 'Time Range' and another for 'Custom'. The 'Time Range' section includes the following options:

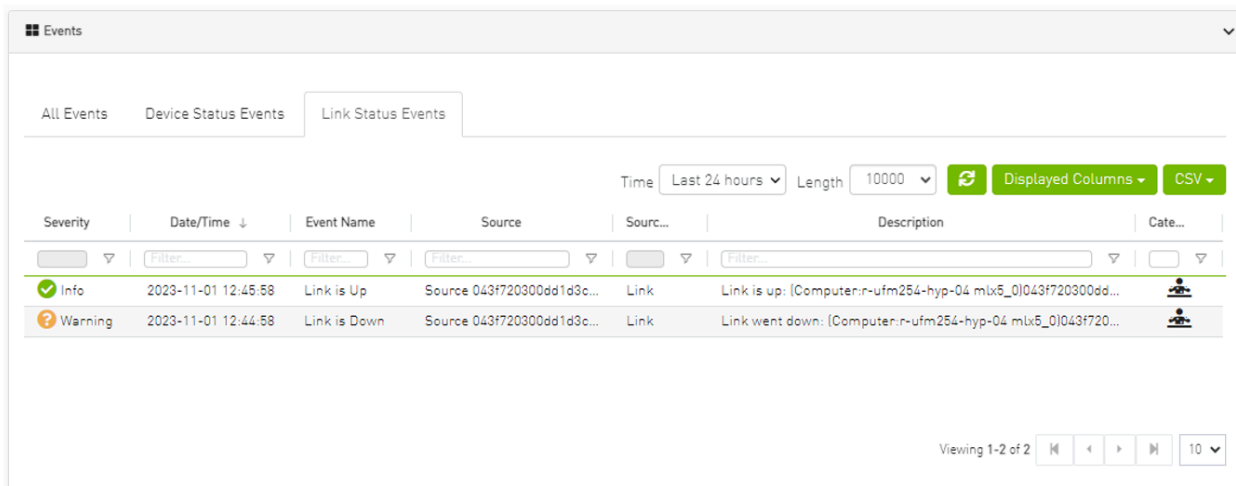
- Last 5 Minutes
- Last 1 hour
- Last 12 hours
- Last 24 hours
- Last week
- Last month
- Last 6 months
- Last 1 year

The 'Custom' section is currently empty. 'Cancel' and 'Save' buttons are at the bottom of the dialog.

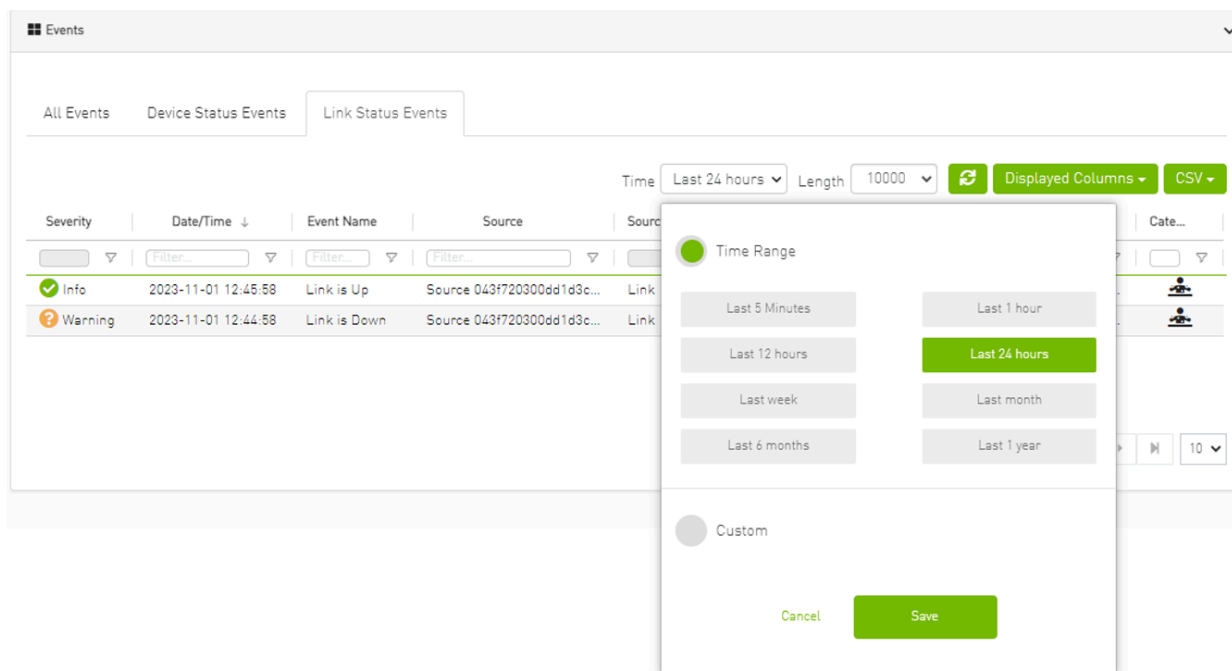
## Link Status Events

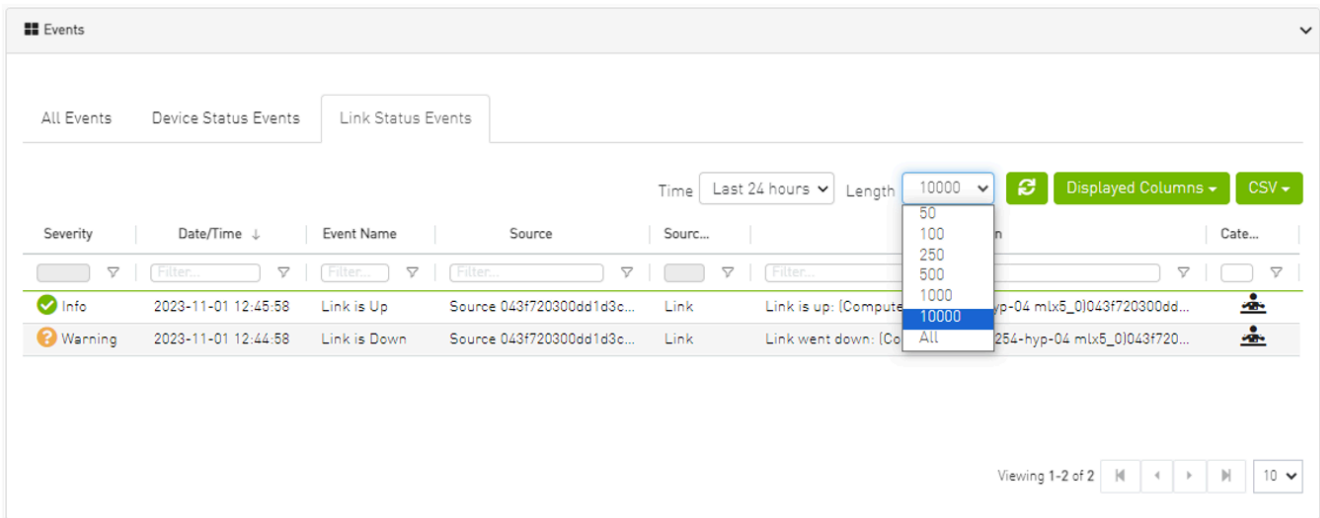
The Link Status Events tab displays topology change events related to links in a table. It supports the following event type:

- Link is Up/Down



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**

#### **Alarms**



Severity	Date/Time ↓	Alarm Name	Source	Sourc...	Reason ▾	Count
Critical	2022-03-12 23:25:09	Cable Temperature High	default[3] / Switch: r-hyp-sw-1	IBPort	Cable High Temperature Alarm reported- current temperature: 116C- threshold: 70C	1
Critical	2022-03-12 23:25:09	Cable Temperature Low	default[3] / Computer: r-ufm2	IBPort	Cable Low Temperature Alarm reported- current temperature: 50C- threshold: 90C	1

## Event Policy

Event ▾	Category	Mail	GUI	Alarm	Syslog	Log File	SNMP	Threshold	TTLISec	Severity
cabletemp ▾		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	Critical ▾
Cable Temperature High		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>	0	Critical ▾
Cable Temperature Low		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>	0	Critical ▾

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