



## **Multi-Subnet UFM**

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Api V2

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## Overview

The Multi-Subnet UFM feature allows for the management of large fabrics, consisting of multiple sites, within a single product, namely Multi-Subnet UFM.

This feature is comprised of two layers: UFM Multi-Subnet Provider and UFM Multi-Subnet Consumer.

The UFM Provider functions as a Multi-Subnet Provider, exposing all local InfiniBand fabric information to the UFM consumer. On the other hand, the UFM Consumer acts as a Multi-Subnet Consumer, collecting and aggregating data from currently configured UFM Providers, enabling users to manage multiple sites in one place. While UFM Consumer offers similar functionality to regular UFM, there are several behavioral differences related to aggregation.

## Setting Up Multi-Subnet UFM

In `/opt/ufm/files/conf/gv.cfg`, fill in the section named `[Multisubnet]` for UFM Multi-Subnet Provider and Consumer.

### To set up UFM as a Multi-Subnet Provider, perform the following:

- Set `multisubnet_enabled` to `true`
- Set `multisubnet_role` to `provider`
- Set `multisubnet_site_name` (optional, if not set, it will be randomly generated); e.g., `provider_1`
- Start UFM

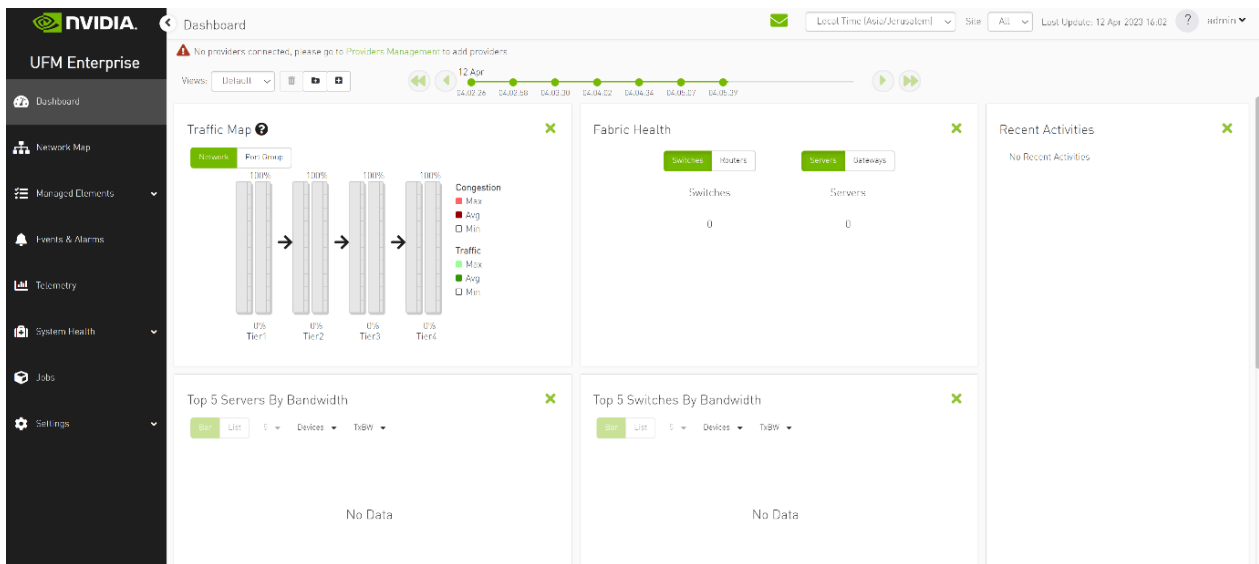
### To set up UFM as a Multi-Subnet Consumer, perform the following:


- Set `multisubnet_enabled` to `True`
- Set `multisubnet_role` to `consumer`
- Start UFM

It is important to note that UFM Multi-Subnet Consumer can be configured on a machine or VM without an established InfiniBand connectivity. Additionally, users may customize UFM Provider and Consumer using optional configuration parameters found in the [Multisubnet] section of /opt/ufm/files/conf/gv.cfg.

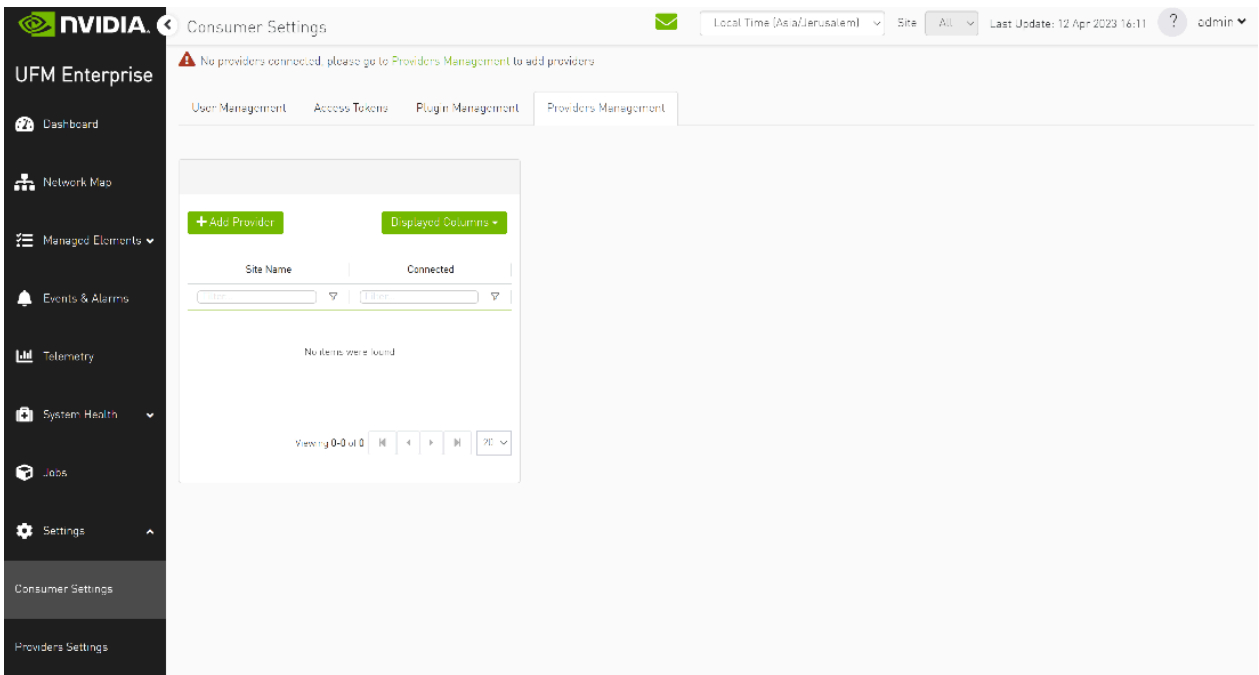
## Functionality

1. Following the initial launch of the Consumer, the Dashboard view is devoid of data, and a message containing a hyperlink leading to the Provider Management section is displayed.



 No providers connected, please go to [Providers Management](#) to add providers

2. As shown in the below snapshot, a new section for Provider Management has been added, enabling users to configure UFM Providers.



1. To add a provider, the user is required to enter its IP address and credentials. Unless there are multiple instances of UFM providers on a single machine, the advanced section parameters should be set with default values. However, if there are multiple instances, the advanced parameters may be set per Provider and then be configured in the Providers Management view.



Add Provider
✕

**General**

Address

**Credential**

User Name

Password

**Advanced**

Topology Port

Proxy Port

Telemetry Port

2. By editing the Provider view, you can change Provider's credentials.

User Management
Access Tokens
Plugin Management
Providers Management

Site Name	Connected
provider_1000	✓

Viewing 1-1 of 1

provider\_1000 - Information

**General**

Address

**Credential**

User Name

Password

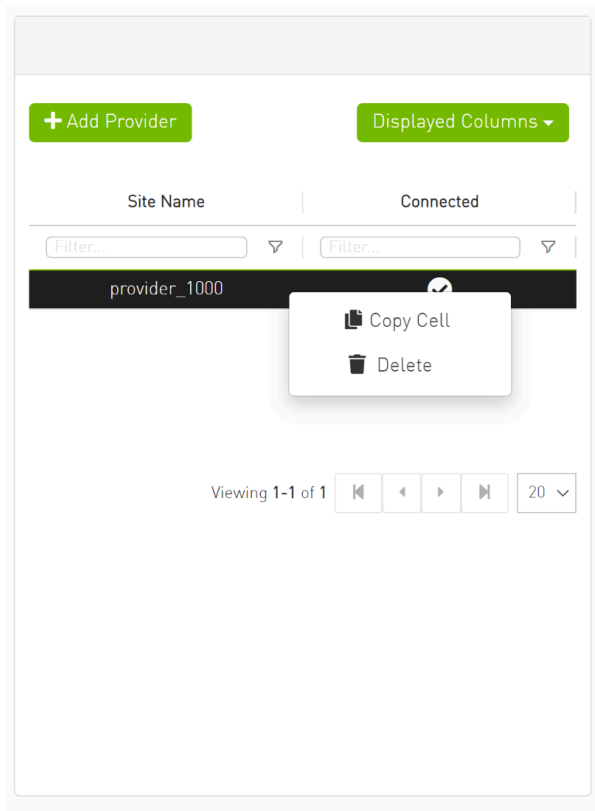
**Advanced**

Topology Port

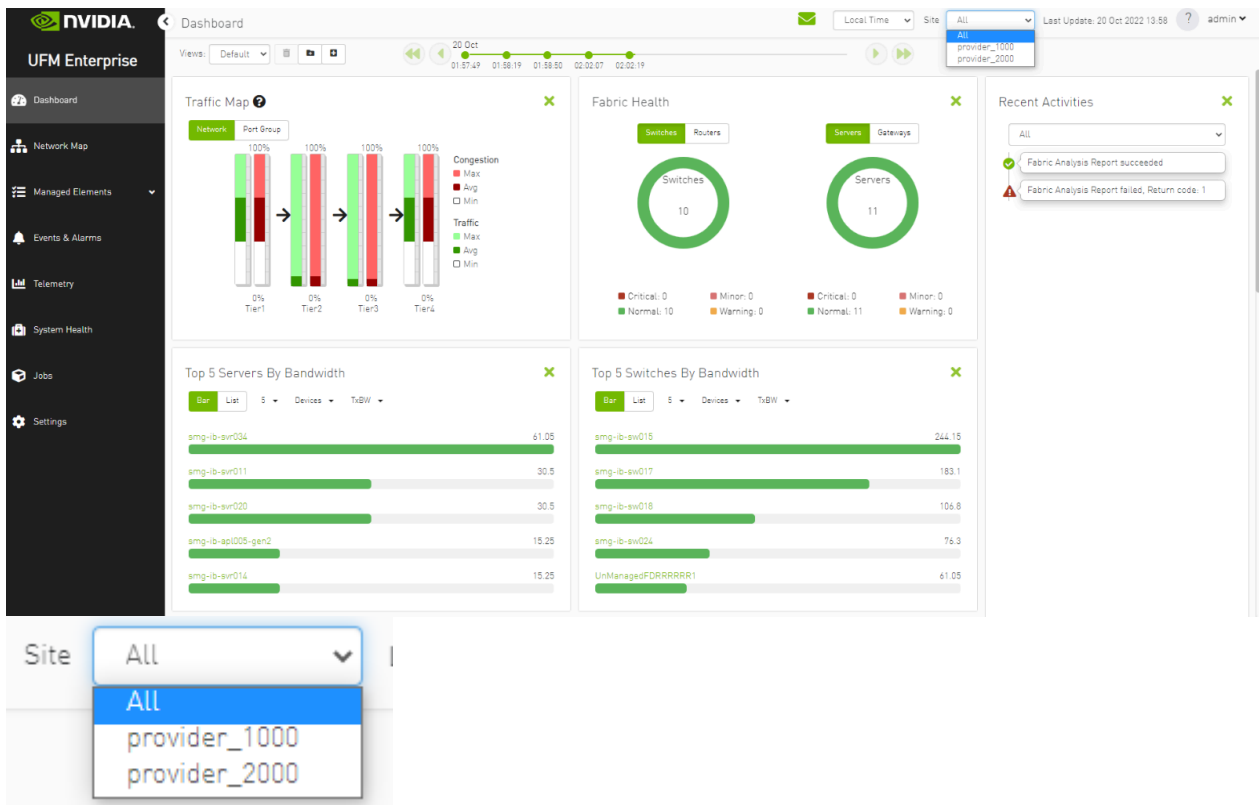
Proxy Port

Telemetry Port

3. The "Delete Provider" function removes the selected Provider from the Consumer. Please note that this action may take some time to complete, and changes may only be reflected in the view after approximately 30 seconds.



3. A general filter has been added to the top right corner of the page, enabling users to filter displayed data by site.



Devices Local Time (Asia/Jerusalem) Site All Last Update: 12 Apr 2023 16:35 admin

All Types All Groups Displayed Columns CSV

Severity	Name	GUID	Type	Model	IP	Firmware Version	Site Name
Warn...	r-ufm83	0xec0d9a0300bf52f4	host		0.0.0.0	16.33.1048	provider_2000
Info	sharp2	0x7cfe900300a5a2a0	switch	MS137800	0.0.0.0		provider_1000
Info	switchib	0xec0d9a030029dba0	switch	FDR	0.0.0.0		provider_1000
Info	ufm-host87	0xec0d9a03007d7f0a	host		0.0.0.0		provider_1000
Info	r-ufm2%4-hyp-04	0x043f720300d1d3c	host		0.0.0.0		provider_1000
Info	r-ufm2%4-hyp-03	0x0c42a103007aca90	host		0.0.0.0		provider_1000
Warn...	desc1	0x043f7203002b6650	switch	FDR	0.0.0.0	15.2007.354	provider_2000
Info	node001	0xec0d9a0300c04bf4	host		0.0.0.0	16.31.1046	provider_2000
Info	swx-tor01	0xec0d9a0300469ffc	host		0.0.0.0		provider_2000

Viewing 1-9 of 9

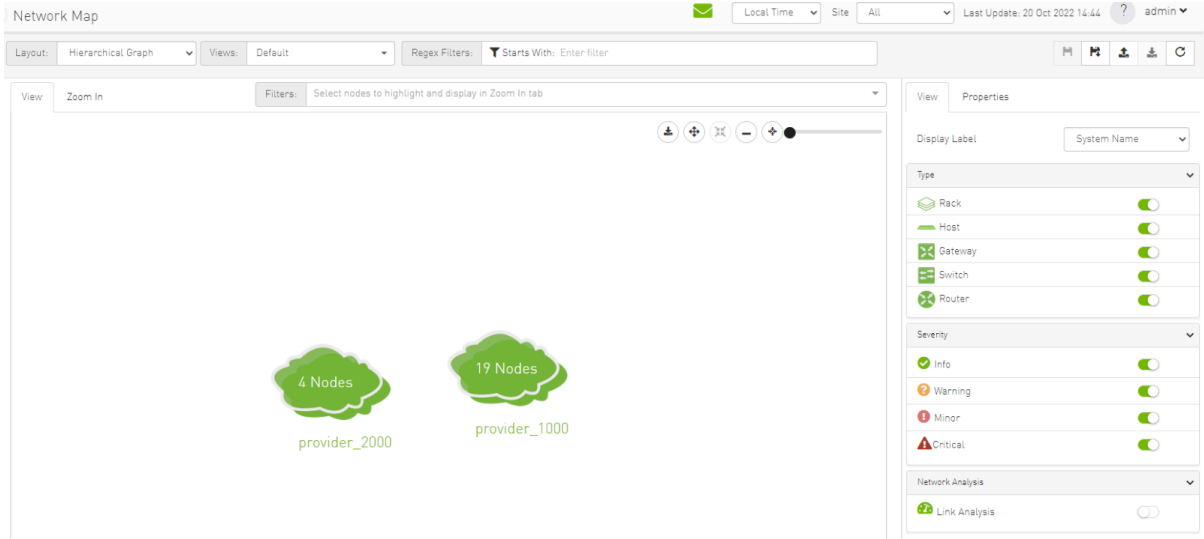
Devices Local Time (Asia/Jerusalem) Site provider\_2000 Last Update: 12 Apr 2023 16:35 admin

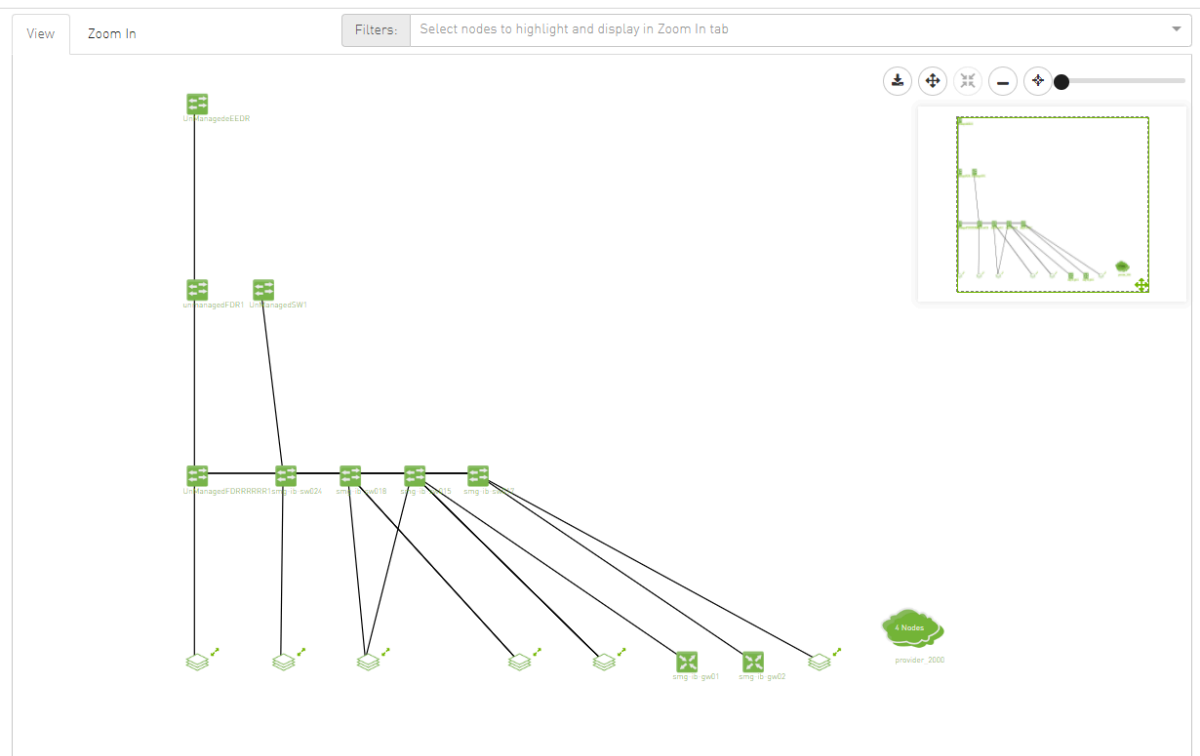
All Types All Groups Displayed Columns CSV

Severity	Name	GUID	Type	Model	IP	Firmware Version	Site Name
Warn...	r-ufm83	0xec0d9a0300bf52f4	host		0.0.0.0	16.33.1048	provider_2000
Warn...	desc1	0x043f7203002b6650	switch	EDR	0.0.0.0	15.2007.354	provider_2000
Info	node001	0xec0d9a0300c04bf4	host		0.0.0.0	16.31.1046	provider_2000
Info	swx-tor01	0xec0d9a0300469ffc	host		0.0.0.0		provider_2000

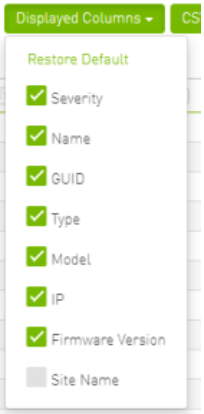
Viewing 1-4 of 4

4. Network map contains “clouds” for each provider.





5. A "Site Name" column is present in all Managed Elements sections. The column is disabled (hidden) by default.



Devices Local Time (Asia/Jerusalem) Site All Last Update: 12 Apr 2023 16:56 admin

All Types All Groups

Severity	Name	GUID	Type	Model	IP
Info	r-ufm83	0xec0d9a0300bf52f4	host		0.0.0.0
Info	sharp2	0x7cfe900300a5a2a0	switch	MSB7800	0.0.0.0
Info	switchib	0xec0d9a030029dba0	switch	LDIR	0.0.0.0
Info	ufm-host87	0xec0d9a03007d7f0a	host		0.0.0.0
Info	r-ufm254-hyp-04	0x043f720300d1d3c	host		0.0.0.0
Info	r-ufm254-hyp-03	0x0c42a103007aca90	host		0.0.0.0
Info	desc1	0x043f720300206650	switch	FDR	0.0.0.0
Info	node001	0xec0d9a0300c04bf4	host		0.0.0.0
Info	swx-tor01	0xec0d9a0300469ffc	host		0.0.0.0

Viewing 1-9 of 9

Displayed Columns

Restore Default

- Severity
- Name
- GUID
- Type
- Model
- IP
- Firmware Version
- Site Name

Devices Local Time (Asia/Jerusalem) Site All Last Update: 12 Apr 2023 16:56 admin

All Types All Groups

Severity	Name	GUID	Type	Model	IP	Site Name
Info	r-ufm83	0xec0d9a0300bf52f4	host		0.0.0.0	provider_2000
Info	sharp2	0x7cfe900300a5a2a0	switch	MSB7800	0.0.0.0	provider_1000
Info	switchib	0xec0d9a030029dba0	switch	EDR	0.0.0.0	provider_1000
Info	ufm-host87	0xec0d9a03007d7f0a	host		0.0.0.0	provider_1000
Info	r-ufm254-hyp-04	0x043f720300d1d3c	host		0.0.0.0	provider_1000
Info	r-ufm254-hyp-03	0x0c42a103007aca90	host		0.0.0.0	provider_1000
Info	desc1	0x043f720300206650	switch	EDR	0.0.0.0	provider_2000
Info	node001	0xec0d9a0300c04bf4	host		0.0.0.0	provider_2000
Info	swx-tor01	0xec0d9a0300469ffc	host		0.0.0.0	provider_2000

Viewing 1-9 of 9

Displayed Columns

Restore Default

- Severity
- Name
- GUID
- Type
- Model
- IP
- Firmware Version
- Site Name

6. The "Group" and "Telemetry" sections include "Site" filters.

New Group

1 General 2 Members

Site: All (dropdown menu showing All, provider\_2000, provider\_1000)

Available Devices

Type	Name ↑	Site Name
switch	desc1	provider_2000
host	node001	provider_2000
host	r-ufm83	provider_2000
host	r-ufm254-hyp-03	provider_1000
host	r-ufm254-hyp-04	provider_1000
switch	sharp2	provider_1000
switch	switchib	provider_1000
host	swx-tor01	provider_2000

Viewing 1-8 of 9

Selected Devices

Type	Name	Site Name
No items were found		

Viewing 0-0 of 0

Previous Finish

7. The filter in "Groups" impacts the Members table only.

New Telemetry Session

View by: Name

Telemetry Session

Timeseries Top X

Members

Devices Ports

Counters

Select Counters All counters

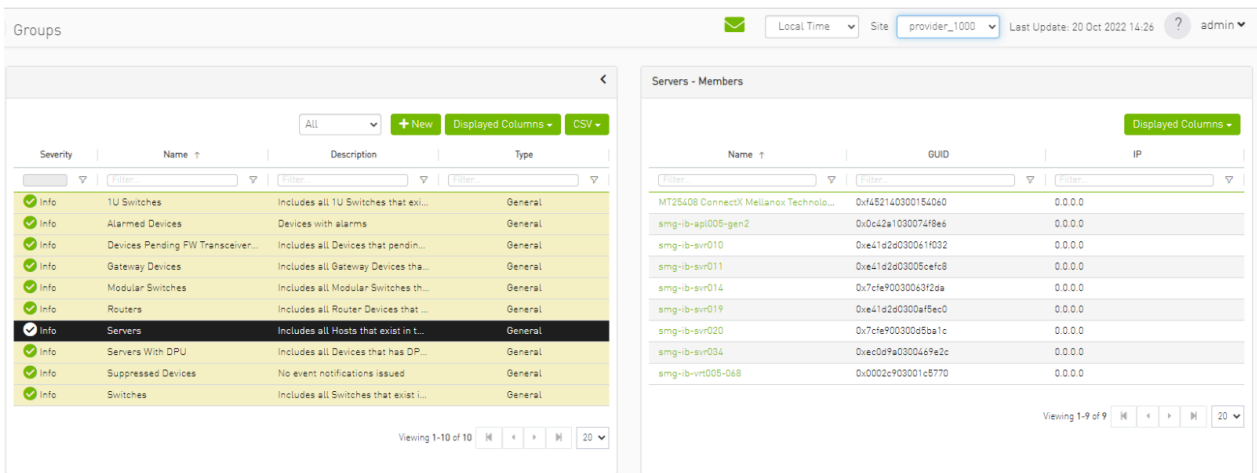
Sites

provider\_1000

Devices

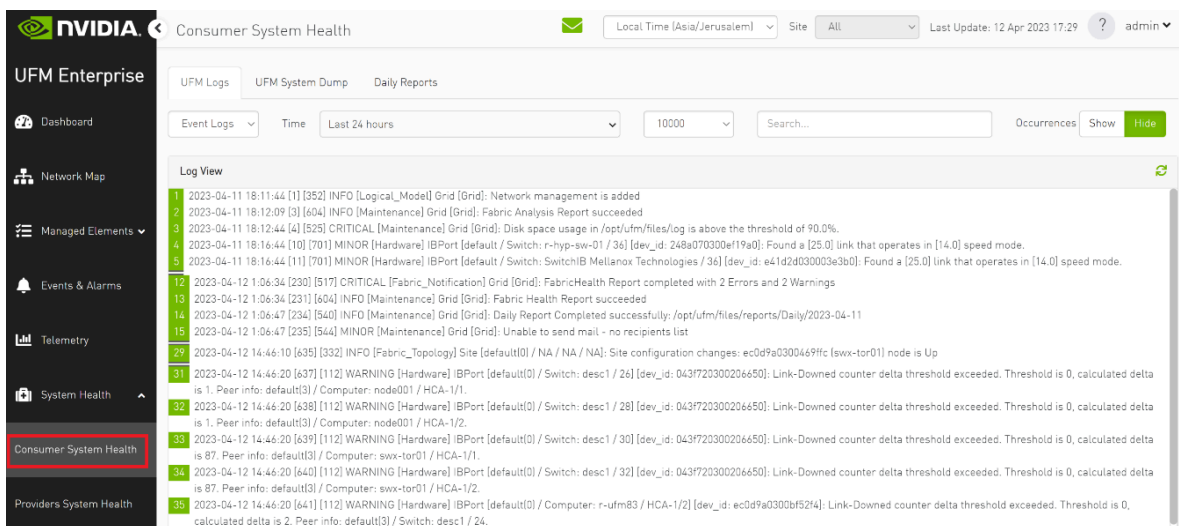
Select Devices All devices

Finish

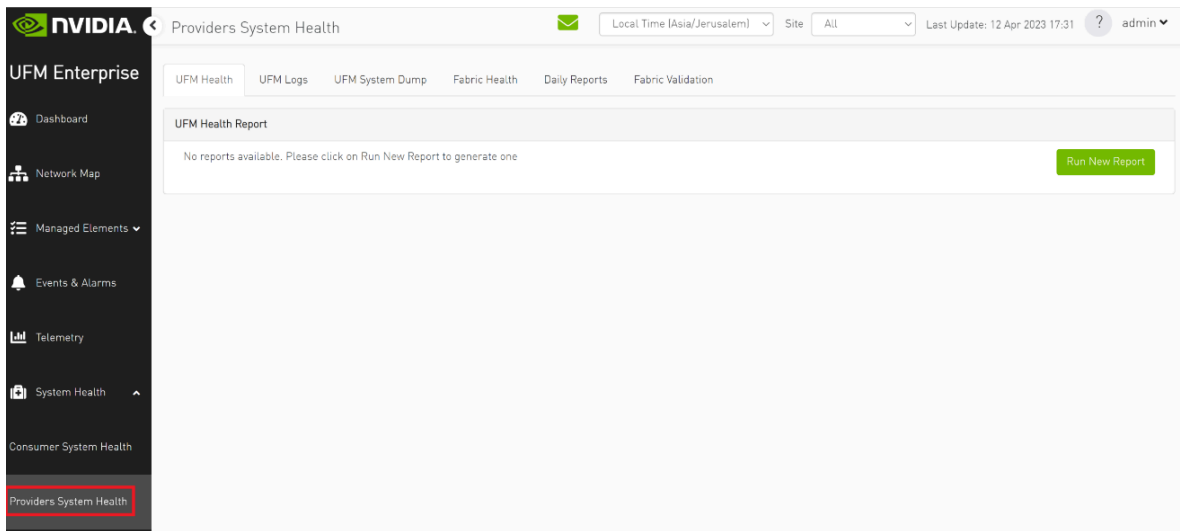


8. In the System Health tab, subsections for Consumer and Provider are available.

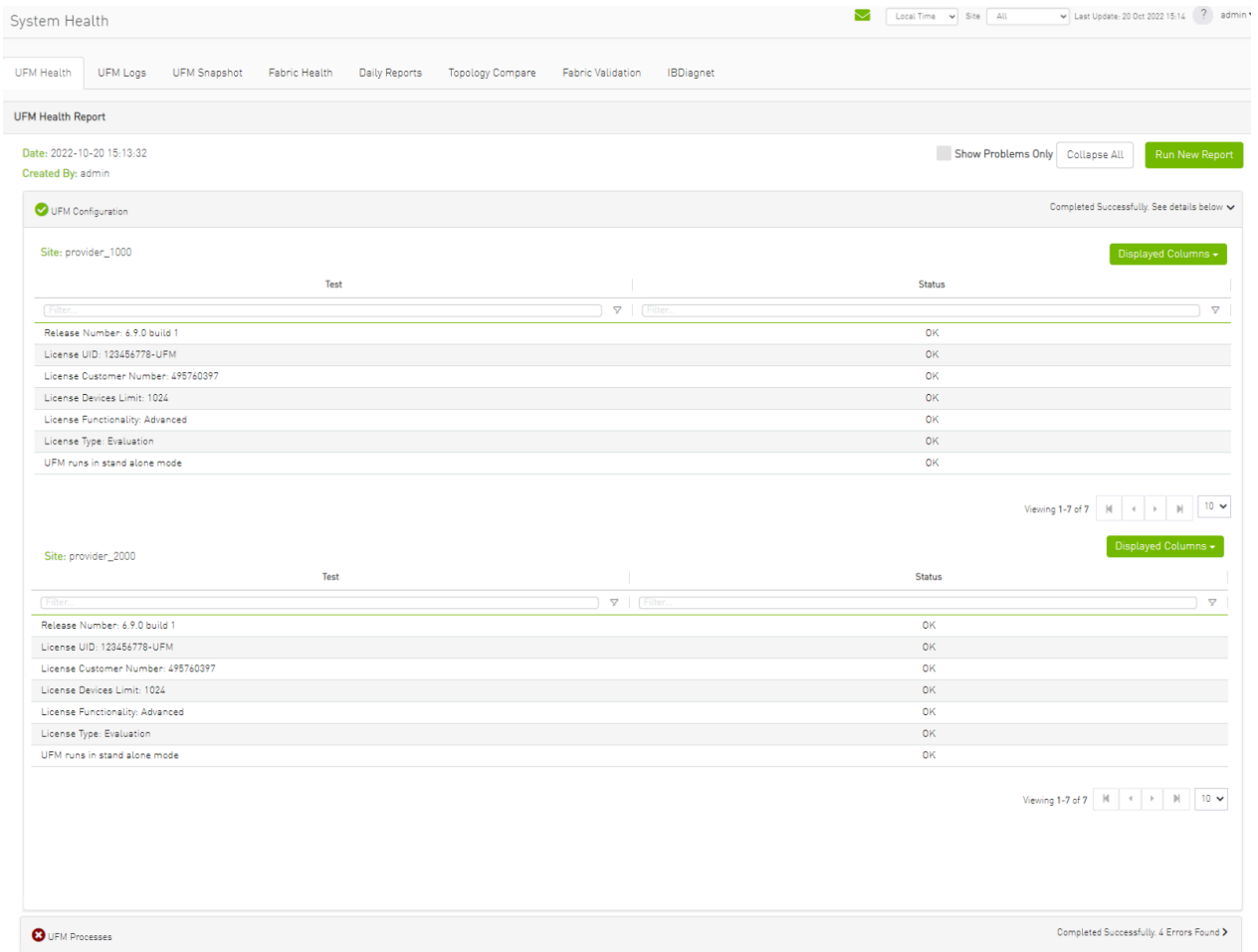
1. Consumer System Health tab contains sections applicable to Consumer UFM specifically (e.g., logs from Consumer UFM).



2. Provider System Health contains sections applicable to one or multiple providers (e.g., Fabric Health Report can be triggered on multiple Providers from the Consumer).



9. UFM Health tab contains sub report tables for each provider.



10. Fabric Health contains sub report tables for each provider.



System Health Local Time Site All Last Update: 20 Oct 2022 15:14 admin

UFM Health UFM Logs UFM Snapshot **Fabric Health** Daily Reports Topology Compare Fabric Validation IBDiagnet

**Fabric Health Report**

Date: 2022-10-20 14:49:44 Show Problems Only Collapse All Run New Report

Created By: admin

**Report Summary**

Site: provider\_1000 Displayed Columns

Fabric Test	Warnings	Errors	Total
Non-unique and Zero LID Values	0	0	0
Non-unique Node Descriptions	2	0	2
SM Status	0	0	0
Bad Links	0	0	0
Link Width	0	0	0
Link Speed	0	6	6
Firmware Versions	2	0	2
UFM Alarms	0	1	1
BER Error and Warning check	0	0	0
Symbol BER Error and Warning check	0	0	0

Viewing 1-10 of 11

Site: provider\_2000 Displayed Columns

Fabric Test	Warnings	Errors	Total
Non-unique and Zero LID Values	0	0	0
Non-unique Node Descriptions	2	0	2
SM Status	0	0	0
Bad Links	0	0	0
Link Width	0	0	0
Link Speed	0	6	6
Firmware Versions	2	0	2
UFM Alarms	198	2	200
BER Error and Warning check	0	0	0
Symbol BER Error and Warning check	0	0	0

Viewing 1-10 of 11

**Fabric Summary**

## 11. Daily Reports:

1. Consumer Daily reports display consumer reports.

Consumer System Health Local Time (Asia/Jerusalem) Site All

UFM Logs UFM System Dump **Daily Reports**

Recipients List Displayed Columns

Report ↓

Filter.. ▾

2023-04-11
------------

Viewing 1-1 of 1 20 ▾

2. Providers Daily reports display reports from all providers.

Providers System Health Local Time (Asia/Jerusalem) Site All

UFM Health UFM Logs UFM System Dump Fabric Health **Daily Reports** Fabric Validation

Recipients List Displayed Columns

Report ↓	Site Name
Filter.. ▾	Filter.. ▾
2023-04-11	provider_2000
2023-04-10	provider_2000

Viewing 1-2 of 2 20 ▾

12. The "Fabric Validation" tab contains sub report tables for each provider.

Providers System Health Local Time (Asia/Jerusalem) Site: All Last Update: 12 Apr 2023 17:47 admin

UFM Health UFM Logs UFM System Dump Fabric Health Daily Reports Fabric Validation

Tests

- ▶ Check Lids
- ▶ Check Links
- ▶ Check Subnet Manager
- ▶ Check Duplicate Nodes
- ▶ Check Duplicate Guides
- ▶ Check Routing
- ▶ Check Link Speed
- ▶ Check Link Width
- ▶ Check Partition Key
- ▶ Check Temperature
- ▶ Check Cables
- ▶ Check Effective BER
- ▶ Check Symbol BER
- ▶ Rail Optimized Topology Validation
- ▶ Dragonfly Topology Validation
- ▶ SHARP Fabric Validation
- ▶ Tree Topology Validation
- ▶ Socket Direct Mode Reporting

Check Lids

Created At: 2023-04-12 17:48:06 Site: provider\_1000  
Status: ✔ Passed

✔ Fabric Summary

Item	Count
Total Nodes	7
IB Switches	1
IB Channel Adapters	6
IB Aggregation Nodes	0
IB Routers	0

Created At: 2023-04-12 17:48:06 Site: provider\_2000  
Status: ✔ Passed

✔ Fabric Summary

Item	Count
Total Nodes	7

### 13. In "UFM Logs" Tab:

#### 1. Consumer logs:

Consumer System Health Local Time (Asia/Jerusalem) Site: All Last Update: 12 Apr 2023 18:01 admin

UFM Logs UFM System Dump Daily Reports

Event Logs Time Last 24 hours 10000 Search... Occurrences Show Hide

Log View

- 1 2023-04-11 18:11:44 [1] [352] INFO [Logical\_Model] Grid [Grid]: Network management is added
- 2 2023-04-11 18:12:09 [3] [604] INFO [Maintenance] Grid [Grid]: Fabric Analysis Report succeeded
- 3 2023-04-11 18:12:44 [4] [525] CRITICAL [Maintenance] Grid [Grid]: Disk space usage in /opt/ufm/files/log is above the threshold of 90.0%
- 4 2023-06-11 18:16:44 [10] [701] MINOR [Hardware] IBPort [default / Switch: r-hyp-sw-01 / 36] [dev\_id: 268a070300ef19a0]: Found a [25.0] link that operates in [14.0] speed mode.
- 5 2023-04-11 18:16:44 [11] [701] MINOR [Hardware] IBPort [default / Switch: SwitchB Mellanox Technologies / 36] [dev\_id: e41d2d030003e3b0]: Found a [25.0] link that operates in [14.0] speed mode.
- 12 2023-04-12 1:06:34 [230] [517] CRITICAL [Fabric\_Notification] Grid [Grid]: FabricHealth Report completed with 2 Errors and 2 Warnings
- 13 2023-04-12 1:06:34 [231] [604] INFO [Maintenance] Grid [Grid]: Fabric Health Report succeeded
- 14 2023-04-12 1:06:47 [234] [560] INFO [Maintenance] Grid [Grid]: Daily Report Completed successfully:/opt/ufm/files/reports/Daily/2023-04-11
- 15 2023-04-12 1:06:47 [235] [544] MINOR [Maintenance] Grid [Grid]: Unable to send mail - no recipients list
- 29 2023-04-12 14:46:10 [635] [392] INFO [Fabric\_Topology] Site [default[0] / NA / NA / NA]: Site configuration changes: ec0d9a03006f52f4 [swx-tor01] node is Up
- 31 2023-04-12 14:46:20 [637] [112] WARNING [Hardware] IBPort [default[0] / Switch: desc1 / 26] [dev\_id: 043f720300206650]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta is 1. Peer info: default[3] / Computer: node001 / HCA-1/1.
- 32 2023-04-12 14:46:20 [638] [112] WARNING [Hardware] IBPort [default[0] / Switch: desc1 / 28] [dev\_id: 043f720300206650]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta is 1. Peer info: default[3] / Computer: node001 / HCA-1/2.
- 33 2023-04-12 14:46:20 [639] [112] WARNING [Hardware] IBPort [default[0] / Switch: desc1 / 30] [dev\_id: 043f720300206650]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta is 87. Peer info: default[3] / Computer: swx-tor01 / HCA-1/1.
- 34 2023-04-12 14:46:20 [640] [112] WARNING [Hardware] IBPort [default[0] / Switch: desc1 / 32] [dev\_id: 043f720300206650]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta is 87. Peer info: default[3] / Computer: swx-tor01 / HCA-1/2.
- 35 2023-04-12 14:46:20 [641] [112] WARNING [Hardware] IBPort [default[0] / Computer: r-ufm83 / HCA-1/2] [dev\_id: ec0d9a03006f52f4]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta is 2. Peer info: default[3] / Switch: desc1 / 24.
- 36 2023-04-12 16:28:20 [642] [392] INFO [Fabric\_Topology] Site [default[0] / NA / NA / NA]: Site configuration changes: ec0d9a03006f52f4 [r-ufm83] node is Up
- 38 2023-04-12 16:29:10 [644] [525] CRITICAL [Maintenance] Grid [Grid]: Disk space usage in /opt/ufm/tmp is above the threshold of 80.0%
- 39 2023-04-12 16:29:10 [645] [605] CRITICAL [Maintenance] Grid [Grid]: Fabric Analysis Report failed, Return code: 1
- 40 2023-04-12 16:31:40 [647] [112] WARNING [Hardware] IBPort [default[6] / Computer: r-ufm83 / HCA-1/2] [dev\_id: ec0d9a03006f52f4]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta is 2. Peer info: default[3] / Switch: desc1 / 24.
- 41 2023-04-12 16:31:40 [648] [112] WARNING [Hardware] IBPort [default[6] / Switch: desc1 / 26] [dev\_id: 043f720300206650]: Link-Downed counter delta threshold exceeded. Threshold is 0, calculated delta

2. Providers logs display providers log separately, displaying logs for all providers is not supported.

The screenshot shows the 'Providers System Health' interface. At the top, there's a navigation bar with 'Local Time (Asia/Jerusalem)', 'Site: provider\_2000', and 'Last Update: 12 Apr 2023 18:05'. Below this are tabs for 'UFM Health', 'UFM Logs', 'UFM System Dump', 'Fabric Health', 'Daily Reports', and 'Fabric Validation'. The 'UFM Logs' tab is active, showing a list of log entries. The log entries include various warnings and info messages, such as 'WARNING [Fabric\_Notification] Grid [Grid]: FabricHealth Report completed with 4 Warnings' and 'WARNING [Fabric\_Topology] Link [Source 043f720300206650\_30 TO Dest: ec0d9a0300469ffc\_1]: Link went down: [Switch:desc1:30]043f720300206650:30 - [Computer:swx-tor01 mlx5\_0]ec0d9a0300469ffc:1, cable S/N: MT2042V506276'.

14. In the "System Dump" tab:

1. "Consumer System Dump" collects system dump for consumer

The screenshot shows the 'Providers System Health' interface with the 'UFM System Dump' tab selected. It features a 'Create System Dump' button and a checkbox for 'Include Troubleshooting Information'. Below the button, a message states: 'The last system dump /opt/ufm/backup/ufm-host86\_2023-04-13\_01-40-49.tar.gz was created successfully. Click here to download it.'

2. "Providers System Dump" collect system dumps for one or all providers and mergeS them into one folder

The screenshot shows the 'Consumer System Health' interface with the 'UFM System Dump' tab selected. It features a 'Create System Dump' button and a checkbox for 'Include Troubleshooting Information'. Below the button, a message states: 'The last system dump /opt/ufm/backup/ufm-host86\_2023-04-13\_01-03-16.tar.gz was created successfully. Click here to download it.'

15. Under "Settings", subsections for Consumer and Provider are available.

1. "Consumer Settings" contain sections applicable to Consumer UFM specifically (e.g., creation of access tokens for UFM consumer authentication);

Please note that "All" option is selected in the "Site" dropdown list, any changes made will be applied across all sites.

Events Policy | Device Access | Network Management | Subnet Manager | Non-Optimal Links | User Management | Email | Remote Location | Data Streaming

Access Tokens | Plugin Management

All | Recipients List | Save | Revert | Displayed Columns

Event	Category	Mail	GUI	Alarm	Syslog	Log File	SNMP	Threshold	TTL/Sec	Severity
GID Address In Service			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		1	300	Info
GID Address Out of Se...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1	300	Warning
New MCast Group Cre...			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		1	300	Info
MCast Group Deleted			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		1	300	Info
Symbol Error			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		200	300	Warning
Link Error Recovery			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		1	300	Minor
Link Downed			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0	300	Warning
Port Receive Errors			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		5	300	Warning
Port Receive Remote ...			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		5	300	Minor
Port Receive Switch R...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		9999	300	Minor
Port Xmit Discards			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		200	300	Minor
Port Xmit Constraint ...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		200	300	Minor
Port Receive Constrai...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		200	300	Minor
Local Link Integrity Er...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		5	300	Minor
Excessive Buffer Over...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	300	Warning
VLANs Dropped			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		50	300	Minor
Congested Bandwidth...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		10	300	Minor
Port Bandwidth (%) T...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		95	300	Minor

2. "Provider Settings" contain sections applicable to one or multiple providers (e.g., Event Policies can be changed for multiple Providers at once from the Consumer).

UFM Enterprise

Dashboard  
Network Map  
Managed Elements  
Events & Alarms  
Telemetry  
System Health  
Jobs  
Settings  
**Consumer Settings**  
Providers Settings

User Management | Access Tokens | Plugin Management | Providers Management

+ New | Displayed Columns

ID ↓	Name	Group
1	admin	System Admin

Viewing 1-1 of 1

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