



## Event Notifications

---

Cisco Enterprise NFVIS generates event notifications for key events. A NETCONF client can subscribe to these notifications for monitoring the progress of configuration activation and the status change of the system and VMs.

There are two types of event notifications: `nfvisEvent` and `vmlcEvent` (VM life cycle event)

To receive event notifications automatically, you can run the NETCONF client, and subscribe to these notifications using the following NETCONF operations:

- `--create-subscription=nfvisEvent`
- `--create-subscription=vmlcEvent`

You can view NFVIS and VM life cycle event notifications using the **`show notification stream nfvisEvent`** and **`show notification stream vmlcEvent`** commands respectively.

- [nfvisEvent, on page 2](#)
- [vmlcEvent, on page 11](#)

# nfvisEvent

| Event Type         | Notification Trigger                      | Notification Output Example   |
|--------------------|---|---|
| WAN_DHCP_RENEW     | DHCP renew operation is performed.        | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2017-04-26T18:06:46.142089+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;NA&lt;/user_id&gt; &lt;config_change&gt;&gt;false&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Wan DHCP IP address is being renewed&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;WAN_DHCP_RENEW&lt;/event_type&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>       |
| BRIDGE_DHCP_RENEW  | Bridge DHCP renew operation is performed. | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2018-04-26T09:47:06.066264+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;NA&lt;/user_id&gt; &lt;config_change&gt;&gt;false&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Bridge DHCP IP address is being renewed&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;BRIDGE_DHCP_RENEW&lt;/event_type&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre> |
| INTF_STATUS_CHANGE | Interface status is changed.              | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2017-04-26T18:12:09.963556+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;event_type&gt;INTF_STATUS_CHANGE&lt;/event_type&gt; &lt;intf_name&gt;eth7&lt;/intf_name&gt; &lt;intf_prv_op&gt;up&lt;/intf_prv_op&gt; &lt;intf_op&gt;down&lt;/intf_op&gt; &lt;intf_prv_link&gt;down&lt;/intf_prv_link&gt; &lt;intf_link&gt;down&lt;/intf_link&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>   |

| Event Type     | Notification Trigger  | Notification Output Example   |
|----------------|-----------------------|---|
| NETWORK_CREATE | A network is created. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-09-22T12:41:04.564298+00:00&lt;/eventTime&gt;   &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_message&gt;Network created successfully&lt;/status_message&gt;     &lt;event_type&gt;NETWORK_CREATE&lt;/event_type&gt;     &lt;network_name&gt;testn1&lt;/network_name&gt;     &lt;network_bridge&gt;test-net-br&lt;/network_bridge&gt;     &lt;network_sriov&gt;false&lt;/network_sriov&gt;     &lt;network_vlan/&gt;     &lt;network_trunk/&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre> |
| NETWORK_UPDATE | A network is updated. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-09-22T12:42:03.391986+00:00&lt;/eventTime&gt;   &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_message&gt;Network updated successfully&lt;/status_message&gt;     &lt;event_type&gt;NETWORK_UPDATE&lt;/event_type&gt;     &lt;network_name&gt;testn1&lt;/network_name&gt;     &lt;network_bridge/&gt;     &lt;network_sriov/&gt;     &lt;network_vlan/&gt;     &lt;network_trunk/&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre>  |

| Event Type       | Notification Trigger          | Notification Output Example   |
|------------------|-------------------------------|---|
| NETWORK_DELETE   | A network is deleted.         | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2016-09-22T12:42:03.391986+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_message&gt;Network deleted succesfully&lt;/status_message&gt; &lt;event_type&gt;NETWORK_DELETE&lt;/event_type&gt; &lt;network_name&gt;testn1&lt;/network_name&gt; &lt;network_bridge/&gt; &lt;network_sriov/&gt; &lt;network_vlan/&gt; &lt;network_trunk/&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre> |
| UPGRADE_REGISTER | System upgrade is registered. | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2017-04-26T15:57:50.434636+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;NA&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Upgrade package registration successful: Cisco_NFVIS_Upgrade-3.6.1-698-20170402_042811.nfvispkg&lt;/status_message&gt; &lt;event_type&gt;UPGRADE_REGISTER&lt;/event_type&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>                                 |
| UPGRADE_APPLY    | System upgrade is applied.    | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2017-04-26T16:02:43.885516+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;NA&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Upgrade Process: In Progress&lt;/status_message&gt; &lt;event_type&gt;UPGRADE_APPLY&lt;/event_type&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>   |

| Event Type          | Notification Trigger   | Notification Output Example  |
|---------------------|--|--|
| ROTATED_LOGS_DELETE | Rotated logs older than 30 days are deleted by the system.                             | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;rpc-reply   xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1"&gt;   &lt;ok/&gt; &lt;/rpc-reply&gt; &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2017-04-26T17:38:10.321152+00:00&lt;/eventTime&gt;   &lt;nfvisEvent     xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;NA&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Deleted rotated logs from archive older than 30 days&lt;/status_message&gt;     &lt;details&gt;NA&lt;/details&gt;     &lt;event_type&gt;ROTATED_LOGS_DELETE&lt;/event_type&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre>                     |
| ROTATED_LOGS_DELETE | Older logs deleted by the system when the total file size of rotated logs exceeds 2GB. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;rpc-reply   xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1"&gt;   &lt;ok/&gt; &lt;/rpc-reply&gt; &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2017-04-26T17:42:10.321152+00:00&lt;/eventTime&gt;   &lt;nfvisEvent     xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;NA&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Rotated logs had exceeded 2G, older logs have been deleted to make space&lt;/status_message&gt;     &lt;details&gt;NA&lt;/details&gt;     &lt;event_type&gt;ROTATED_LOGS_DELETE&lt;/event_type&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre> |

| Event Type              | Notification Trigger  | Notification Output Example  |
|-------------------------|-----------------------|--|
| REBOOT                  | system reboot         | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2018-04-26T09:37:47.387525+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;&gt;false&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;System will be rebooted&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;REBOOT&lt;/event_type&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>   |
| SHUTDOWN                | system shutdown       | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2018-04-26T09:47:06.066264+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;&gt;false&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;System will be shutdown&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;SHUTDOWN&lt;/event_type&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre> |
| SECURE_OVERLAY_CREATING | create secure overlay | <pre>&lt;notification &lt;eventTime&gt; 2018-11-02T04:23:02.641317+00:00 &lt;nfvisEvent &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Secure Overlay mgmthub initial creation. Active local bridge: wan-br&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;SECURE_OVERLAY_CREATING&lt;/event_type&gt; &lt;severity&gt; INFO&lt;/severity&gt; &lt;hostname&gt;nfvis&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>   |

| Event Type          | Notification Trigger | Notification Output Example  |
|---------------------|----------------------|--|
| SECUREOVERLAY_UP    | Secure Overlay is UP | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2018-04-26T09:47:06.066264+00:00&lt;/eventTime&gt;   &lt;nfvisEvent     xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Secure Overlay mgmthub up. Active bridge: wan-br&lt;/status_message&gt;     &lt;details&gt;Secure overlay initial creation&lt;/details&gt;     &lt;event_type&gt;SECURE_OVERLAY_UP&lt;/event_type&gt;     &lt;severity&gt;INFO&lt;/severity&gt;     &lt;hostname&gt;NFVIS&lt;/hostname&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre> |
| WAN_DHCP_SWITCHOVER | WAN bridge toggle    | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2018-04-26T09:47:06.066264+00:00&lt;/eventTime&gt;   &lt;nfvisEvent     xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Switch over to bridge wan2-br for auto DHCP enablement successful&lt;/status_message&gt;     &lt;details&gt;NA&lt;/details&gt;     &lt;event_type&gt;WAN_DHCP_SWITCHOVER&lt;/event_type&gt;     &lt;severity&gt;INFO&lt;/severity&gt;     &lt;hostname&gt;NFVIS&lt;/hostname&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre>           |

| Event Type               | Notification Trigger        | Notification Output Example   |
|--------------------------|-----------------------------|---|
| WAN_DHCP_TOGGLE_END      | WAN bridge toggle           | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2018-04-26T09:47:06.066264+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Disabling bridge toggle for auto DHCP enablement.&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;WAN_DHCP_TOGGLE_END&lt;/event_type&gt; &lt;severity&gt;INFO&lt;/severity&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre>                          |
| ROUTE_DISTRIBUTION_START | To start route distribution | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Route Distribution initial creation. Neighbor Address: 172.25.221.106&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;ROUTE_DISTRIBUTION_START&lt;/event_type&gt; &lt;severity&gt;INFO&lt;/severity&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt; </pre> |



| Event Type                            | Notification Trigger        | Notification Output Example   |
|---------------------------------------|-----------------------------|---|
| <del>ROUTE_DOWN</del><br>ROUTE_DOWN   | Route distribution is down  | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt;   &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Neighbor Address: 172.25.221.106&lt;/status_message&gt;      &lt;details&gt;NA&lt;/details&gt;     &lt;event_type&gt;ROUTE_DISTRIBUTION_DOWN&lt;/event_type&gt;     &lt;severity&gt;INFO&lt;/severity&gt;     &lt;hostname&gt;NFVIS&lt;/hostname&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>  |
| <del>ROUTE_ERROR</del><br>ROUTE_ERROR | Route distribution in error | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt;   &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;true&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Neighbor Address: 172.25.221.106&lt;/status_message&gt;      &lt;details&gt;NA&lt;/details&gt;     &lt;event_type&gt;ROUTE_DISTRIBUTION_ERROR&lt;/event_type&gt;     &lt;severity&gt;INFO&lt;/severity&gt;     &lt;hostname&gt;NFVIS&lt;/hostname&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre> |

| Event Type                           | Notification Trigger       | Notification Output Example   |
|--------------------------------------|----------------------------|---|
| <del>ROUTE_DISTRIBUTION_DELETE</del> | Route distribution deleted | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;All Neighbor Addresses deleted&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;ROUTE_DISTRIBUTION_DELETE&lt;/event_type&gt; &lt;severity&gt;INFO&lt;/severity&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre> |
| <del>ROUTE_DISTRIBUTION_UP</del>     | Route distribution up      | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;true&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;Neighbor Address: 172.25.221.106&lt;/status_message&gt;  &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;ROUTE_DISTRIBUTION_UP&lt;/event_type&gt; &lt;severity&gt;INFO&lt;/severity&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>  |
| <del>OVS_DPK_SUCCESS</del>           | Enable DPK                 | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt; &lt;nfvisEvent xmlns="http://www.cisco.com/nfvis/notifier"&gt; &lt;user_id&gt;admin&lt;/user_id&gt; &lt;config_change&gt;false&lt;/config_change&gt; &lt;transaction_id&gt;0&lt;/transaction_id&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;0&lt;/status_code&gt; &lt;status_message&gt;OVS-DPDK enabled&lt;/status_message&gt; &lt;details&gt;NA&lt;/details&gt; &lt;event_type&gt;OVS_DPK_SUCCESS&lt;/event_type&gt; &lt;severity&gt;INFO&lt;/severity&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre>                        |

| Event Type      | Notification Trigger | Notification Output Example  |
|-----------------|----------------------|--|
| OVS_DPK_FAILURE | DPDK failure         | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2019-03-15T21:46:28.034133+00:00&lt;/eventTime&gt;   &lt;nfvisEvent     xmlns="http://www.cisco.com/nfvis/notifier"&gt;     &lt;user_id&gt;admin&lt;/user_id&gt;     &lt;config_change&gt;false&lt;/config_change&gt;     &lt;transaction_id&gt;0&lt;/transaction_id&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;0&lt;/status_code&gt;     &lt;status_message&gt;Unable to allocate CPU&lt;/status_message&gt;     &lt;details&gt;NA&lt;/details&gt;     &lt;event_type&gt;OVS_DPK_FAILURE&lt;/event_type&gt;     &lt;severity&gt;INFO&lt;/severity&gt;     &lt;hostname&gt;NFVIS&lt;/hostname&gt;   &lt;/nfvisEvent&gt; &lt;/notification&gt;</pre> |

## vmlcEvent

| Event Type   | Notification Trigger        | Notification Output Example  |
|--------------|-----------------------------|--|
| CREATE_IMAGE | The VM image is registered. | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:12:30.76+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Image creation completed successfully.&lt;/status_message&gt;     &lt;image&gt;isrv-universalk9.16.03.01.tar.gz&lt;/image&gt;     &lt;vm_source&gt;&lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;CREATE_IMAGE&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt;</pre> |

| Event Type    | Notification Trigger          | Notification Output Example   |
|---------------|-------------------------------|---|
| DELETE_IMAGE  | The VM image is unregistered. | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:14:51.169+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Image deletion completed   successfully.&lt;/status_message&gt;     &lt;image&gt;isrv-universalk9.16.03.01.tar.gz&lt;/image&gt;     &lt;vm_source&gt;&lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;DELETE_IMAGE&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt;</pre> |
| CREATE_FLAVOR | A flavor is created.          | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:12:29.685+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Flavor creation completed   successfully.&lt;/status_message&gt;     &lt;flavor&gt;ISRV-small&lt;/flavor&gt;     &lt;vm_source&gt;&lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;CREATE_FLAVOR&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt;</pre>                   |
| DELETE_FLAVOR | A flavor is deleted.          | <pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:14:51.425+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Flavor deletion completed   successfully.&lt;/status_message&gt;     &lt;flavor&gt;ISRV-small&lt;/flavor&gt;     &lt;vm_source&gt;&lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;DELETE_FLAVOR&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt;</pre>                   |

| Event Type  | Notification Trigger | Notification Output Example   |
|-------------|----------------------|---|
| VM_DEPLOYED | The VM is deployed.  | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2016-11-17T17:19:16.927+00:00&lt;/eventTime&gt; &lt;vmlcEvent xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;200&lt;/status_code&gt; &lt;status_message&gt;VIM Driver: VM successfully created, VM Name: [SystemAdminTena_ROUTER_0_df6733c1-0768-4ae6-8dce-b223ecdb036c]&lt;/status_message&gt;  &lt;depname&gt;1479341445&lt;/depname&gt; &lt;tenant&gt;admin&lt;/tenant&gt; &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt; &lt;depid&gt;c64d79db-3a29-41a8-8114-c80d42731a5b&lt;/depid&gt; &lt;vm_group&gt;ROUTER&lt;/vm_group&gt; &lt;vm_source&gt; &lt;vmid&gt;d18dd252-80c8-44f2-ab66-d4481790bb79&lt;/vmid&gt; &lt;hostid&gt;NFVIS&lt;/hostid&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;interfaces&gt; &lt;interface&gt; &lt;nicid&gt;0&lt;/nicid&gt; &lt;port_id&gt;vnet0&lt;/port_id&gt; &lt;network&gt;int-mgmt-net&lt;/network&gt; &lt;subnet&gt;N/A&lt;/subnet&gt; &lt;ip_address&gt;10.20.0.2&lt;/ip_address&gt; &lt;mac_address&gt;52:54:00:31:c5:7f&lt;/mac_address&gt; &lt;netmask&gt;255.255.255.0&lt;/netmask&gt; &lt;gateway&gt;10.20.0.1&lt;/gateway&gt; &lt;/interface&gt; &lt;interface&gt; &lt;nicid&gt;1&lt;/nicid&gt; &lt;port_id&gt;vnet1&lt;/port_id&gt; &lt;network&gt;wan-net&lt;/network&gt; &lt;subnet&gt;N/A&lt;/subnet&gt; &lt;mac_address&gt;52:54:00:59:52:41&lt;/mac_address&gt; &lt;netmask&gt;255.255.255.0&lt;/netmask&gt; &lt;gateway&gt;172.19.181.152&lt;/gateway&gt; &lt;/interface&gt; &lt;/interfaces&gt; &lt;/vm_source&gt; &lt;vm_target&gt;&lt;/vm_target&gt; &lt;event&gt; &lt;type&gt;VM_DEPLOYED&lt;/type&gt; &lt;/event&gt; &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type | Notification Trigger                        | Notification Output Example  |
|------------|---|--|
| VM_ALIVE   | The state of a monitored VM becomes ACTIVE. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:22:47.306+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;VM_Alive event received, VM ID: [SystemAdminTena_ROUTER_0_df6733c1-0768-4ae6-8dce-b223ecdb036c]&lt;/status_message&gt;      &lt;depname&gt;1479341445&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;depid&gt;c64d79db-3a29-41a8-8114-c80d42731a5b&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;d18dd252-80c8-44f2-ab66-d4481790bb79&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;       &lt;interfaces&gt;         &lt;interface&gt;           &lt;nicid&gt;0&lt;/nicid&gt;           &lt;port_id&gt;vnet0&lt;/port_id&gt;           &lt;network&gt;int-mgmt-net&lt;/network&gt;           &lt;subnet&gt;N/A&lt;/subnet&gt;           &lt;ip_address&gt;10.20.0.2&lt;/ip_address&gt;           &lt;mac_address&gt;52:54:00:31:c5:7f&lt;/mac_address&gt;           &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;           &lt;gateway&gt;10.20.0.1&lt;/gateway&gt;         &lt;/interface&gt;         &lt;interface&gt;           &lt;nicid&gt;1&lt;/nicid&gt;           &lt;port_id&gt;vnet1&lt;/port_id&gt;           &lt;network&gt;wan-net&lt;/network&gt;           &lt;subnet&gt;N/A&lt;/subnet&gt;           &lt;mac_address&gt;52:54:00:59:52:41&lt;/mac_address&gt;           &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;           &lt;gateway&gt;172.19.181.152&lt;/gateway&gt;         &lt;/interface&gt;       &lt;/interfaces&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_ALIVE&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type    | Notification Trigger | Notification Output Example   |
|---------------|----------------------|---|
| VM_UNDEPLOYED | The VM is undeployed | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2016-11-17T17:31:40.6+00:00&lt;/eventTime&gt; &lt;vmlcEvent xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;204&lt;/status_code&gt; &lt;status_message&gt;VIM Driver: VM successfully deleted&lt;/status_message&gt;  &lt;depname&gt;1479341445&lt;/depname&gt; &lt;tenant&gt;admin&lt;/tenant&gt; &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt; &lt;depid&gt;c64d79db-3a29-41a8-8114-c80d42731a5b&lt;/depid&gt; &lt;vm_group&gt;ROUTER&lt;/vm_group&gt; &lt;vm_source&gt; &lt;vmid&gt;d18dd252-80c8-44f2-ab66-d4481790bb79&lt;/vmid&gt; &lt;hostid&gt;NFVIS&lt;/hostid&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;interfaces&gt; &lt;interface&gt; &lt;nicid&gt;0&lt;/nicid&gt; &lt;port_id&gt;vnet0&lt;/port_id&gt; &lt;network&gt;int-mgmt-net&lt;/network&gt; &lt;subnet&gt;N/A&lt;/subnet&gt; &lt;ip_address&gt;10.20.0.2&lt;/ip_address&gt; &lt;mac_address&gt;52:54:00:31:c5:7f&lt;/mac_address&gt; &lt;netmask&gt;255.255.255.0&lt;/netmask&gt; &lt;gateway&gt;10.20.0.1&lt;/gateway&gt; &lt;/interface&gt; &lt;interface&gt; &lt;nicid&gt;1&lt;/nicid&gt; &lt;port_id&gt;vnet1&lt;/port_id&gt; &lt;network&gt;wan-net&lt;/network&gt; &lt;subnet&gt;N/A&lt;/subnet&gt; &lt;mac_address&gt;52:54:00:59:52:41&lt;/mac_address&gt; &lt;netmask&gt;255.255.255.0&lt;/netmask&gt; &lt;gateway&gt;172.19.181.152&lt;/gateway&gt; &lt;/interface&gt; &lt;/interfaces&gt; &lt;/vm_source&gt; &lt;vm_target&gt;&lt;/vm_target&gt; &lt;event&gt; &lt;type&gt;VM_UNDEPLOYED&lt;/type&gt; &lt;/event&gt; &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type      | Notification Trigger                     | Notification Output Example   |
|-----------------|--|---|
| SERVICE_UPDATED | The VM is updated.                       | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:51:45.5+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Service group update completed successfully&lt;/status_message&gt;     &lt;depname&gt;1479342258&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;depid&gt;827e871a-30d5-4f5f-a05a-263b7ee3a734&lt;/depid&gt;     &lt;vm_source&gt;&lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;SERVICE_UPDATED&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre>   |
| VM_STOPPED      | The VM is stopped per VM action request. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:26:05.762+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Successfully stopped VM [SystemAdminTena_ROUTER_0_df6733c1-0768-4ae6-8dce-b223ecdb036c].&lt;/status_message&gt;      &lt;depname&gt;1479341445&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;c64d79db-3a29-41a8-8114-c80d42731a5b&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;d18dd252-80c8-44f2-ab66-d4481790bb79&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_STOPPED&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |



| Event Type | Notification Trigger                     | Notification Output Example  |
|------------|--|--|
| VM_STARTED | The VM is started per VM action request. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt; &lt;eventTime&gt;2016-11-17T17:26:40.398+00:00&lt;/eventTime&gt; &lt;vmlcEvent xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt; &lt;status&gt;SUCCESS&lt;/status&gt; &lt;status_code&gt;200&lt;/status_code&gt; &lt;status_message&gt;Started VM [SystemAdminTena_ROUTER_0_df6733c1-0768-4ae6-8dce-b223ecdb036c].&lt;/status_message&gt;  &lt;depname&gt;1479341445&lt;/depname&gt; &lt;tenant&gt;admin&lt;/tenant&gt; &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt; &lt;svcid&gt;NULL&lt;/svcid&gt; &lt;depid&gt;c64d79db-3a29-41a8-8114-c80d42731a5b&lt;/depid&gt; &lt;vm_group&gt;ROUTER&lt;/vm_group&gt; &lt;vm_source&gt; &lt;vmid&gt;d18dd252-80c8-44f2-ab66-d4481790bb79&lt;/vmid&gt; &lt;hostid&gt;NFVIS&lt;/hostid&gt; &lt;hostname&gt;NFVIS&lt;/hostname&gt; &lt;/vm_source&gt; &lt;vm_target&gt;&lt;/vm_target&gt; &lt;event&gt; &lt;type&gt;VM_STARTED&lt;/type&gt; &lt;/event&gt; &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type  | Notification Trigger                      | Notification Output Example   |
|-------------|---|---|
| VM_REBOOTED | The VM is rebooted per VM action request. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T17:36:56.5+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Rebooted VM [SystemAdminTena_ROUTER_0_f17fc494-8535-4b05-b88d-f0fd2effdc7d]&lt;/status_message&gt;      &lt;depname&gt;1479342258&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;827e871a-30d5-4f5f-a05a-263b7ee3a734&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;d918a3b1-f2a9-4065-9d8e-2135b0a37d87&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_REBOOTED&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type       | Notification Trigger             | Notification Output Example   |
|------------------|----------------------------------|---|
| VM_RECOVERY_INIT | A monitored VM is not reachable. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T16:27:51.627+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Recovery event for VM [SystemAdminTena_ROUTER_0_40ae18be-5930-4d94-95ff-dbb0b56ef12b] triggered. Processing Auto healing. Proceeding with Recovery.&lt;/status_message&gt;     &lt;depname&gt;1479328919&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;9e7fe4f8-a5f4-4a6d-aad7-121405be4ba4&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;000883fc-77f3-4b9e-aaf6-0f31d88a8f67&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_RECOVERY_INIT&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type         | Notification Trigger   | Notification Output Example  |
|--------------------|--|--|
| VM_RECOVERY_REBOOT | Recovery reboot starts for the monitored VM, which is not reachable. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:iETF:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T16:27:53.979+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;VM [SystemAdminTena_ROUTER_0_40ae18be-5930-4d94-95ff-dbb0b56ef12b] is being rebooted.   &lt;/status_message&gt;     &lt;depname&gt;1479328919&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;9e7fe4f8-a5f4-4a6d-aad7-121405be4ba4&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;000883fc-77f3-4b9e-aaf6-0f31d88a8f67&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_RECOVERY_REBOOT&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type           | Notification Trigger  | Notification Output Example   |
|----------------------|---|---|
| VM_RECOVERY_COMPLETE | Recovery reboot completes for the monitored VM, which is not reachable. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-17T16:31:26.934+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfv/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Successfully recovered VM [SystemAdminTena_ROUTER_0_40ae18be-5930-4d94-95ff-dbb0b56ef12b].&lt; status_message&gt;     &lt;depname&gt;1479328919&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;9e7fe4f8-a5f4-4a6d-aad7-121405be4ba4&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;000883fc-77f3-4b9e-aaf6-0f31d88a8f67&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;       &lt;vmid&gt;000883fc-77f3-4b9e-aaf6-0f31d88a8f67&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;interfaces&gt;       &lt;interface&gt;         &lt;nicid&gt;0&lt;/nicid&gt;         &lt;port_id&gt;vnet0&lt;/port_id&gt;         &lt;network&gt;int-mgmt-net&lt;/network&gt;         &lt;subnet&gt;N/A&lt;/subnet&gt;         &lt;ip_address&gt;10.20.0.2&lt;/ip_address&gt;         &lt;mac_address&gt;52:54:00:7b:3f:de&lt;/mac_address&gt;         &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;         &lt;gateway&gt;10.20.0.1&lt;/gateway&gt;       &lt;/interface&gt;       &lt;interface&gt;         &lt;nicid&gt;1&lt;/nicid&gt;         &lt;port_id&gt;vnet1&lt;/port_id&gt;         &lt;network&gt;wan-net&lt;/network&gt;         &lt;subnet&gt;N/A&lt;/subnet&gt;         &lt;mac_address&gt;52:54:00:96:8a:4d&lt;/mac_address&gt;         &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;         &lt;gateway&gt;172.19.181.152&lt;/gateway&gt;       &lt;/interface&gt;     &lt;/interfaces&gt;     &lt;/vm_target&gt;   &lt;event&gt;     &lt;type&gt;VM_RECOVERY_COMPLETE&lt;/type&gt;   &lt;/event&gt; &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |

| Event Type    | Notification Trigger                          | Notification Output Example   |
|---------------|---|---|
| VMMONCR_UNSET | Monitoring is disabled per VM action request. | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-18T13:36:43.613+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Unset monitor completed successfully&lt;/status_message&gt;      &lt;depname&gt;1479413090&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;742dd335-330c-4bf0-a75d-a44003c645c5&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;23ec3793-37ab-4ec2-a978-a10e08585fdd&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_MONITOR_UNSET&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre> |
| VMMONCR_SET   | Monitoring is enabled per VM action request.  | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2016-11-18T13:40:15.276+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns="http://www.cisco.com/nfvis/vm_lifecycle"&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Set monitor completed successfully&lt;/status_message&gt;      &lt;depname&gt;1479413090&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;AdminTenantId&lt;/tenant_id&gt;     &lt;svcid&gt;NULL&lt;/svcid&gt;     &lt;depid&gt;742dd335-330c-4bf0-a75d-a44003c645c5&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;23ec3793-37ab-4ec2-a978-a10e08585fdd&lt;/vmid&gt;       &lt;hostid&gt;NFVIS&lt;/hostid&gt;       &lt;hostname&gt;NFVIS&lt;/hostname&gt;     &lt;/vm_source&gt;     &lt;vm_target&gt;&lt;/vm_target&gt;     &lt;event&gt;       &lt;type&gt;VM_MONITOR_SET&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; &lt;/notification&gt; </pre>     |

| Event Type | Notification Trigger    | Notification Output Example |
|------------|-------------------------|-----------------------------|
| VM_UPDATED | VM's flavor is changed. |                             |

| Event Type | Notification Trigger | Notification Output Example   |
|------------|----------------------|---|
|            |                      | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:iETF:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2017-12-08T00:50:39.034+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns='http://www.cisco.com/nfvis/vm_lifecycle'&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;VM is resized with flavor [ISRV-medium].&lt;/status_message&gt;     &lt;user_name&gt;admin&lt;/user_name&gt;     &lt;depname&gt;1512766000&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;adminUUID&lt;/tenant_id&gt;     &lt;depid&gt;92c11aa1-f6dd-47d1-948f-c8c65b9ef70f&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;1a6f587e-2779-4087-b84d-c0a2c8a481b1&lt;/vmid&gt;  &lt;vmname&gt;1512766000_ROUTER_0_60d15064-0c6d-49b9-aa4a-80587f626004&lt;/vmname&gt;      &lt;hostid&gt;NFVIS&lt;/hostid&gt;     &lt;hostname&gt;nfvis&lt;/hostname&gt;     &lt;interfaces&gt;       &lt;interface&gt;         &lt;nicid&gt;0&lt;/nicid&gt;         &lt;type&gt;virtual&lt;/type&gt;         &lt;port_id&gt;vnic0&lt;/port_id&gt;         &lt;network&gt;int-mgmt-net&lt;/network&gt;         &lt;subnet&gt;N/A&lt;/subnet&gt;         &lt;ip_address&gt;10.20.0.3&lt;/ip_address&gt;         &lt;mac_address&gt;52:54:00:3c:ee:5b&lt;/mac_address&gt;         &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;         &lt;gateway&gt;10.20.0.1&lt;/gateway&gt;       &lt;/interface&gt;       &lt;interface&gt;         &lt;nicid&gt;1&lt;/nicid&gt;         &lt;type&gt;virtual&lt;/type&gt;         &lt;port_id&gt;vnic1&lt;/port_id&gt;         &lt;network&gt;wan-net&lt;/network&gt;         &lt;subnet&gt;N/A&lt;/subnet&gt;         &lt;mac_address&gt;52:54:00:70:06:4a&lt;/mac_address&gt;         &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;         &lt;gateway&gt;172.19.181.152&lt;/gateway&gt;       &lt;/interface&gt;       &lt;interface&gt;         &lt;nicid&gt;2&lt;/nicid&gt;         &lt;type&gt;virtual&lt;/type&gt;         &lt;port_id&gt;vnic2&lt;/port_id&gt;         &lt;network&gt;lan-net&lt;/network&gt;         &lt;subnet&gt;N/A&lt;/subnet&gt;         &lt;mac_address&gt;52:54:00:c7:30:1c&lt;/mac_address&gt;         &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;         &lt;gateway&gt;192.168.1.1&lt;/gateway&gt;       &lt;/interface&gt;     &lt;/interfaces&gt;     &lt;/vm_source&gt;   &lt;event&gt;     &lt;type&gt;VM_UPDATED&lt;/type&gt;   &lt;/event&gt; </pre> |



| Event Type | Notification Trigger | Notification Output Example   |
|------------|----------------------|---|
|            |                      | <pre> &lt;/vmlcEvent&gt;&lt;/notification&gt;]]&gt;]]&gt; &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2017-12-08T00:50:39.06+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns='http://www.cisco.com/nfvis/vm_lifecycle'&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Service group update completed successfully&lt;/status_message&gt;     &lt;user_name&gt;admin&lt;/user_name&gt;     &lt;depname&gt;1512766000&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;adminUUID&lt;/tenant_id&gt;     &lt;depid&gt;92c11aa1-f6dd-47d1-948f-c8c65b9ef70f&lt;/depid&gt;     &lt;event&gt;       &lt;type&gt;SERVICE_UPDATED&lt;/type&gt;     &lt;/event&gt;   &lt;/vmlcEvent&gt; </pre> |

| Event Type | Notification Trigger               | Notification Output Example |
|------------|------------------------------------|-----------------------------|
| VM_UPDATED | VNIC is added, deleted or updated. |                             |

| Event Type | Notification Trigger | Notification Output Example  |
|------------|----------------------|--|
|            |                      | <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;notification   xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"&gt;   &lt;eventTime&gt;2017-12-08T02:10:56.184+00:00&lt;/eventTime&gt;   &lt;vmlcEvent     xmlns='http://www.cisco.com/nfvis/vm_lifecycle'&gt;     &lt;status&gt;SUCCESS&lt;/status&gt;     &lt;status_code&gt;200&lt;/status_code&gt;     &lt;status_message&gt;Added 1 interface: [managed, net=my-net-1, nicid=3] Updated 2 interface: [managed, net=lan-net, nicid=1],[managed, net=wan-net, nicid=2]&lt;/status_message&gt;     &lt;user_name&gt;admin&lt;/user_name&gt;     &lt;depname&gt;1512766000&lt;/depname&gt;     &lt;tenant&gt;admin&lt;/tenant&gt;     &lt;tenant_id&gt;adminUUID&lt;/tenant_id&gt;     &lt;depid&gt;92c11aa1-f6dd-47d1-948f-c8c65b9ef70f&lt;/depid&gt;     &lt;vm_group&gt;ROUTER&lt;/vm_group&gt;     &lt;vm_source&gt;       &lt;vmid&gt;1a6f587e-2779-4087-b84d-c0a2c8a481b1&lt;/vmid&gt;  &lt;vmname&gt;1512766000_ROUTER_0_60d15064-0c6d-49b9-aa4a-80587f626004&lt;/vmname&gt;      &lt;hostid&gt;NFVIS&lt;/hostid&gt;     &lt;hostname&gt;nfvis&lt;/hostname&gt;     &lt;interfaces&gt;     &lt;interface&gt;       &lt;nicid&gt;0&lt;/nicid&gt;       &lt;type&gt;virtual&lt;/type&gt;       &lt;port_id&gt;vnic0&lt;/port_id&gt;       &lt;network&gt;int-mgmt-net&lt;/network&gt;       &lt;subnet&gt;N/A&lt;/subnet&gt;       &lt;ip_address&gt;10.20.0.3&lt;/ip_address&gt;       &lt;mac_address&gt;52:54:00:3c:ee:5b&lt;/mac_address&gt;       &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;       &lt;gateway&gt;10.20.0.1&lt;/gateway&gt;     &lt;/interface&gt;     &lt;interface&gt;       &lt;nicid&gt;1&lt;/nicid&gt;       &lt;type&gt;virtual&lt;/type&gt;       &lt;port_id&gt;vnic1&lt;/port_id&gt;       &lt;network&gt;lan-net&lt;/network&gt;       &lt;subnet&gt;N/A&lt;/subnet&gt;       &lt;mac_address&gt;52:54:00:70:06:4a&lt;/mac_address&gt;       &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;       &lt;gateway&gt;192.168.1.1&lt;/gateway&gt;     &lt;/interface&gt;     &lt;interface&gt;       &lt;nicid&gt;2&lt;/nicid&gt;       &lt;type&gt;virtual&lt;/type&gt;       &lt;port_id&gt;vnic2&lt;/port_id&gt;       &lt;network&gt;wan-net&lt;/network&gt;       &lt;subnet&gt;N/A&lt;/subnet&gt;       &lt;mac_address&gt;52:54:00:c7:30:1c&lt;/mac_address&gt;       &lt;netmask&gt;255.255.255.0&lt;/netmask&gt;       &lt;gateway&gt;172.19.181.152&lt;/gateway&gt;     &lt;/interface&gt;     &lt;interface&gt;       &lt;nicid&gt;3&lt;/nicid&gt;       &lt;type&gt;virtual&lt;/type&gt;       &lt;port_id&gt;vnic3&lt;/port_id&gt; </pre> |

| Event Type | Notification Trigger | Notification Output Example  |
|------------|----------------------|--|
|            |                      | <pre>&lt;network&gt;my-net-1&lt;/network&gt; &lt;subnet&gt;N/A&lt;/subnet&gt; &lt;mac_address&gt;52:54:00:66:b5:c1&lt;/mac_address&gt; &lt;/interface&gt; &lt;/interfaces&gt; &lt;/vm_source&gt; &lt;event&gt;   &lt;type&gt;VM_UPDATED&lt;/type&gt; &lt;/event&gt; &lt;/vmlcEvent&gt;</pre> |