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| [[http://www.mellanox.com/img/news/media_kit/logo/Mellanox_logoCMYK_hor.png](http://www.mellanox.com/)](http://www.mellanox.com) Unified Fabric Manager  Fabric Health Report |
| Date : 2015-10-24 06:19:21 |
| Created by : admin |
| |  | | --- | | **Report Summary:** | |  | | |  |  |  |  | | --- | --- | --- | --- | | **Fabric Test** | **Warnings** | **Errors** | **Total** | | Non-unique and Zero LID Values | 0 | 0 | 0 | | Non-unique Node Descriptions | 0 | 0 | 0 | | SM Status | 0 | 0 | 0 | | Bad Links | 0 | 0 | 0 | | Link Width | 0 | 0 | 0 | | Link Speed | 0 | 0 | 0 | | Firmware Versions | 0 | 1322 | 1322 | | Signal Integrity (only available for QDR) | 1339 | 3 | 1342 | | Cable Info | 1340 | 0 | 1340 | | UFM Alarms | 0 | 0 | 0 | | Total: | 2679 | 1325 | 4004 | | |
| |  | | --- | | **Fabric Summary:** | |  | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Device Type** | **Count** | **Active Ports** | **Non Active Ports** | **Total Ports** | | IS5035 | 4 | 143 | 1 | 144 | | HAWK | 9 | 9 | 0 | 9 | | Computer | 1322 | 1322 | 0 | 1322 | | IS5030 | 57 | 1988 | 64 | 2052 | | ISR4036E | 9 | 284 | 31 | 315 | | Total: | 1401 | 3746 | 96 | 3842 | | |
| |  | | --- | | **Non-unique and Zero LID Values:**  Lists all ports with same LID or zero LID value. | | Completed Successfully. | |
| |  | | --- | | **Non-unique Node Descriptions:**  Lists all nodes with same node description. Does not include switches with the same description. | | Completed Successfully. | |
| |  | | --- | | **SM Status:**  Checks that there is one and only one active (master) Subnet Manager in the fabric. Checks that master is selected according to highest priority and lowest port GUID and Lists all SMs in the fabric with their attributes. | | Completed Successfully. See details below | | ** Test Information:** | | Completed Successfully. See details below | | |  |  |  |  | | --- | --- | --- | --- | | **Device Name** | **IP** | **SM State** | **Priority** | | IBL1-9 | 172.29.2.21 | master | 15 | | |
| |  | | --- | | **Bad Links:**  Performs a full-fabric discovery and reports non-responsive ports with their path. | | Completed Successfully. | |
| |  | | --- | | **Link Width:**  Checks if link width is optimally configured. If required, specify optimal link width in Fabric Health Report dialog box. The report will list the active links that do not meet the optimum. If no width selected (All), the test checks whether the enabled width on both sides of the link equals the configured maximum (this test confirms that auto-negotiation was successful). | | Completed Successfully. | |
| |  | | --- | | **Link Speed:**  Checks if link speed is optimally configured. If required, select a switch speed in Fabric Health Report dialog box. The report will list the active links that do not meet the selected option. If no speed selected (All), the test checks whether the enabled speed on both sides of the link equals the configured maximum (this test confirms that auto-negotiation was successful). | | Completed Successfully. | |
| |  | | --- | | **Firmware Versions:**  Checks for firmware inconsistencies. For each device model in the fabric, the test finds the latest installed version of the firmware and reports devices with older versions. | | Completed Successfully. 1322 Errors Found | | ** Test Errors:** | | Completed Successfully. 1322 Errors Found | | |  |  |  |  | | --- | --- | --- | --- | | **Device Name** | **IP** | **Module Name** | **Description** | | C20UFM01 HCA-1 | 10.191.6.100 | Not Applicable | The firmware of this device returned invalid general info data | | BITCMDP02 | 0.0.0.0 | Not Applicable | The firmware of this device returned invalid general info data | | …… | …… | …… | …… | | C20N0172B | 0.0.0.0 | Not Applicable | The firmware of this device returned invalid general info data | | |
| |  | | --- | | **Cable Info:**  Reports cable information as stored in EPROM on each port: cable vendor, type, length and serial number. This test might take a long time to complete (40msec per port) therefore it is set by default to NOT RUN | | Completed Successfully. 1340 Warnings Found | | ** Test Errors:** | | Completed Successfully. 1340 Warnings Found   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Device Name** | **IP** | **Module Name** | **Port GUID** | **Port Number** | **Description** | | Mellanox 4036E IO IBL3-1 | 10.126.32.2 | Not Applicable/0 | 00 | 00 | This device does not support cable info capability | | Mellanox 4036E # IBL3-1 | 10.126.32.2 | Not Applicable/0 | 00 | 00 | This device does not support cable info capability | | |  | |
| |  | | --- | | **UFM Alarms:**  Lists all open alarms in UFM. | | No Open Alarms | |

**Example of Unhealthy message**

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| **UFM Alarms:**  Lists all open alarms in UFM. |
| Total Open Alarms 1.Critical Alarms 1. |
| ** Test Information:** |
| Total Open Alarms 1.Critical Alarms 1. |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Timestamp** | **Severity** | **Source** | **Count** | **Reason** | **Short Description** | **Description** | | 2015-10-24 20:57:40.120 | Critical | 0002c9030085f210\_19 | 1 | Peer Port default(2161) / Switch: C30IBL2-MM1 / SX6001 19 / 21 is considered by SM as unhealthy due to ILLEGAL. | Unhealthy IB Port | IB Port reported as unhealthy | |