Test Report

October 06, 2020 08:23:47PM

# 1. Test Results Summary

## 1.1 Summary Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored | Total Duration |
| 8 | 7 | 1 | 0 | 0 | 4.843043088912964 |

## 1.2 Summary Totals for Devices Under Tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DUT | Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored |
| kg-topology-CloudEOSEdge2 | 4 | 4 | 0 | 0 | 0 |
| bn305 | 4 | 3 | 1 | 0 | 0 |

## 1.3 Summary Totals for Test Suites

|  |  |  |  |
| --- | --- | --- | --- |
| Test Suite | Total Tests | Total Passed | Total Failed |
| Environment | 8 | 7 | 1 |

# 2. Test Case Results Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Id | Test Suite | Test Case | DUT | Result | Failure Reason |
| 1 | Environment | Test if powersupply environment temp is in spec | bn305 | PASS |  |
| 2 | Environment | Test if powersupply environment temp is in spec | kg-topology-CloudEOSEdge2 | PASS |  |
| 3 | Environment | Test if system environment cooling is in spec | bn305 | PASS |  |
| 4 | Environment | Test if system environment cooling is in spec | kg-topology-CloudEOSEdge2 | PASS |  |
| 5 | Environment | Test if system environment power are in spec | bn305 | FAIL | Power-Supply 11 state is |powerLoss|, should be in |ok|. Power-Supply 1 state is |ok|, should be in |ok|. Power-Supply 2 state is |ok|, should be in |ok|. Power-Supply 5 state is |powerLoss|, should be in |ok|. Power-Supply 7 state is |ok|, should be in |ok|. Power-Supply 6 state is |powerLoss|, should be in |ok|. Power-Supply 8 state is |ok|, should be in |ok|. Power-Supply 12 state is |powerLoss|, should be in |ok|. |
| 6 | Environment | Test if system environment power are in spec | kg-topology-CloudEOSEdge2 | PASS |  |
| 7 | Environment | Test if system environment temp is in spec | bn305 | PASS |  |
| 8 | Environment | Test if system environment temp is in spec | kg-topology-CloudEOSEdge2 | PASS |  |

# 3. Detailed Test Suite Results: Environment

## 3.1 Test Case: Test if powersupply environment temp is in spec

### 3.1.1 DUT: BN305

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 1 |
| Name | test\_if\_powersupply\_environment\_temp\_is\_in\_spec\_on\_ |
| Description | Verify system temperature environmentals are functional within spec |
| Device under test | bn305 |
| Show command | None |
| Expected output | False |
| Actual output | False |
| Test result | True |
| Fail reason |  |
| Comment | TEST is |bn305| powersupply |1| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |1| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |1| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |2| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |2| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |2| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |5| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |5| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |5| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |6| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |6| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |6| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |7| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |7| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |7| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |8| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |8| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |8| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |11| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |11| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |11| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |12| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |12| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. TEST is |bn305| powersupply |12| termperature environmentals functioning within spec. GIVEN expected temperature state is |False|. WHEN actual temperature state is |False|. THEN test case result is |True|. OUTPUT of |show system environment temperature| is :  System temperature status is: Ok  Supervisor 1:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Digital Temperature Sensor on cpu0 39.0 (65) 63.5 95 105 2 Digital Temperature Sensor on cpu1 39.0 (65) 63.5 95 105 3 Digital Temperature Sensor on cpu2 39.0 (65) 63.5 95 105 4 Digital Temperature Sensor on cpu3 39.0 (65) 63.5 95 105 5 Digital Temperature Sensor on cpu4 39.0 (65) 63.5 95 105 6 Digital Temperature Sensor on cpu5 39.0 (65) 63.5 95 105 7 Digital Temperature Sensor on cpu6 39.0 (65) 63.5 95 105 8 Digital Temperature Sensor on cpu7 39.0 (65) 63.5 95 105 9 Digital Temperature Sensor on cpu8 39.0 (65) 63.5 95 105 10 Digital Temperature Sensor on cpu9 39.0 (65) 63.5 95 105 11 Digital Temperature Sensor on cpu10 39.0 (65) 63.5 95 105 12 Digital Temperature Sensor on cpu11 39.0 (65) 63.5 95 105 13 Supervisor temp sensor 26.4 (52) 50.5 75 85 14 PlxLc sensor 50.1 (80) 78.5 95 110 15 PlxFc sensor 41.9 (80) 78.5 95 110 16 Front sensor 21.4 (43) 41.5 65 75 17 Rear sensor 23.1 (43) 41.5 65 75 37 CPU VRM temp sensor 0 33.0 (70) 68.5 105 110 38 CPU VRM temp sensor 1 29.0 (70) 68.5 105 110  Linecard 3:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 31.8 (80) 78.5 90 100 2 Inlet sensor 25.0 (65) 63.5 70 85 3 Board sensor 33.8 (90) 88.5 100 105 4 Board sensor 33.8 (85) 83.5 95 105 5 Jericho0 44.4 (85) 83.5 105 110 6 Jericho1 43.5 (85) 83.5 105 110 7 Stat0 47.2 (80) 78.5 95 100 8 Board sensor 35.1 (85) 83.5 95 105 9 Jericho2 45.4 (85) 83.5 105 110 10 Jericho3 46.1 (85) 83.5 105 110 11 Stat1 47.8 (80) 78.5 95 100  Linecard 4:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 31.9 (80) 78.5 90 100 2 Inlet sensor 25.5 (65) 63.5 70 85 3 Board sensor 35.1 (90) 88.5 100 105 4 Board sensor 35.9 (85) 83.5 95 105 5 Jericho0 49.4 (85) 83.5 105 110 6 Jericho1 46.6 (85) 83.5 105 110 7 Stat0 48.1 (80) 78.5 95 100 8 Board sensor 35.9 (85) 83.5 95 105 9 Jericho2 48.8 (85) 83.5 105 110 10 Jericho3 50.1 (85) 83.5 105 110 11 Stat1 48.0 (80) 78.5 95 100  Linecard 5:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 5 Outlet sensor 23.0 (65) 63.5 90 100 6 Inlet sensor 21.9 (60) 58.5 75 85 7 Board sensor 22.9 (65) 63.5 95 105  Linecard 6:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 33.5 (80) 78.5 90 100 2 Inlet sensor 25.9 (65) 63.5 70 85 3 Board sensor 35.6 (90) 88.5 100 105 4 Board sensor 38.5 (85) 83.5 95 105 5 Jericho0 47.4 (85) 83.5 105 110 6 Jericho1 45.5 (85) 83.5 105 110 7 Stat0 49.1 (80) 78.5 95 100 8 Board sensor 38.1 (85) 83.5 95 105 9 Jericho2 46.4 (85) 83.5 105 110 10 Jericho3 46.6 (85) 83.5 105 110 11 Stat1 48.0 (80) 78.5 95 100  Linecard 7:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 30.0 (80) 78.5 90 100 2 Inlet sensor 25.9 (65) 63.5 70 85 3 Board sensor 35.5 (90) 88.5 100 105 4 Board sensor 35.4 (85) 83.5 95 105 5 Jericho0 48.4 (85) 83.5 105 110 6 Jericho1 45.4 (85) 83.5 105 110 7 Stat0 49.2 (80) 78.5 95 100 8 Board sensor 35.4 (85) 83.5 95 105 9 Jericho2 46.1 (85) 83.5 105 110 10 Jericho3 47.4 (85) 83.5 105 110 11 Stat1 49.0 (80) 78.5 95 100  Fabric 1:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.5 (85) 83.5 95 105 21 Fan side sensor 28.5 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 34.8 (85) 83.5 95 105 24 FE 0 sensor 32.8 (85) 83.5 95 105 25 FE 1 sensor 32.5 (85) 83.5 95 105 26 FE 2 sensor 32.2 (85) 83.5 95 105  Fabric 2:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.5 (85) 83.5 95 105 21 Fan side sensor 28.0 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 37.0 (85) 83.5 95 105 24 FE 0 sensor 33.8 (85) 83.5 95 105 25 FE 1 sensor 34.5 (85) 83.5 95 105 26 FE 2 sensor 34.0 (85) 83.5 95 105  Fabric 3:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.0 (85) 83.5 95 105 21 Fan side sensor 27.2 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 35.2 (85) 83.5 95 105 24 FE 0 sensor 32.8 (85) 83.5 95 105 25 FE 1 sensor 33.5 (85) 83.5 95 105 26 FE 2 sensor 32.5 (85) 83.5 95 105  Fabric 4:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.8 (85) 83.5 95 105 21 Fan side sensor 27.5 (85) 83.5 95 105 22 Midplane side sensor 21.2 (65) 63.5 75 85 23 ADT (Fan controller) 2 35.2 (85) 83.5 95 105 24 FE 0 sensor 33.0 (85) 83.5 95 105 25 FE 1 sensor 33.2 (85) 83.5 95 105 26 FE 2 sensor 33.2 (85) 83.5 95 105  Fabric 5:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.0 (85) 83.5 95 105 21 Fan side sensor 27.5 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 36.2 (85) 83.5 95 105 24 FE 0 sensor 34.0 (85) 83.5 95 105 25 FE 1 sensor 34.8 (85) 83.5 95 105 26 FE 2 sensor 34.0 (85) 83.5 95 105  Fabric 6:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 28.0 (85) 83.5 95 105 21 Fan side sensor 27.8 (85) 83.5 95 105 22 Midplane side sensor 22.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 34.5 (85) 83.5 95 105 24 FE 0 sensor 32.5 (85) 83.5 95 105 25 FE 1 sensor 32.5 (85) 83.5 95 105 26 FE 2 sensor 31.8 (85) 83.5 95 105  PowerSupply 1:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 23.2 (N/A) 65.3 102 109 2 Ambient sensor 25.2 (55) 53.5 65 70 3 PFC sensor 33.8 (N/A) 51.2 80 98  PowerSupply 2:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 23.8 (N/A) 65.3 102 109 2 Ambient sensor 25.2 (55) 53.5 65 70 3 PFC sensor 32.1 (N/A) 51.2 80 98  PowerSupply 5:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 21.4 (N/A) 65.3 102 109 2 Ambient sensor 26.4 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98  PowerSupply 6:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 20.4 (N/A) 65.3 102 109 2 Ambient sensor 24.7 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98  PowerSupply 7:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 24.8 (N/A) 65.3 102 109 2 Ambient sensor 24.7 (55) 53.5 65 70 3 PFC sensor 31.1 (N/A) 51.2 80 98  PowerSupply 8:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 23.8 (N/A) 65.3 102 109 2 Ambient sensor 24.8 (55) 53.5 65 70 3 PFC sensor 30.8 (N/A) 51.2 80 98  PowerSupply 11:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 20.2 (N/A) 65.3 102 109 2 Ambient sensor 23.9 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98  PowerSupply 12:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 19.8 (N/A) 65.3 102 109 2 Ambient sensor 23.0 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98 . |

### 3.1.2 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 2 |
| Name | test\_if\_powersupply\_environment\_temp\_is\_in\_spec\_on\_ |
| Description | Verify system temperature environmentals are functional within spec |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | None |
| Expected output | None |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | INVALID TEST: CloudEOS router |kg-topology-CloudEOSEdge2| doesnt require cooling. |

## 3.2 Test Case: Test if system environment cooling is in spec

### 3.2.1 DUT: BN305

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 3 |
| Name | test\_if\_system\_environment\_cooling\_is\_in\_spec\_on\_ |
| Description | Verify system cooling environmentals are functional within spec |
| Device under test | bn305 |
| Show command | show system environment cooling |
| Expected output | coolingOk |
| Actual output | coolingOk |
| Test result | True |
| Fail reason |  |
| Comment | TEST is |bn305| system cooling environmentals functioning within spec. GIVEN cooling state is |coolingOk|. WHEN cooling state is |coolingOk|. THEN test case result is |True|. OUTPUT of |show system environment cooling| is:  System cooling status is: Ok Ambient temperature: 21C Airflow: port-side intake  Config Actual Speed Fan Status Speed Speed Uptime Stability --------------- ------------ ------ ------ ----------------- ----------- 1/1 Ok 65% 64% 49 days, 13:39:44 Stable 1/2 Ok 65% 65% 49 days, 13:39:44 Stable 1/3 Ok 65% 64% 49 days, 13:39:44 Stable 1/4 Ok 65% 65% 49 days, 13:39:44 Stable 1/5 Ok 65% 65% 49 days, 13:39:44 Stable 1/6 Ok 65% 65% 49 days, 13:39:44 Stable 1/7 Ok 65% 64% 49 days, 13:39:44 Stable 1/8 Ok 65% 65% 49 days, 13:39:44 Stable 2/1 Ok 65% 64% 49 days, 13:39:44 Stable 2/2 Ok 65% 65% 49 days, 13:39:44 Stable 2/3 Ok 65% 65% 49 days, 13:39:44 Stable 2/4 Ok 65% 65% 49 days, 13:39:44 Stable 2/5 Ok 65% 65% 49 days, 13:39:44 Stable 2/6 Ok 65% 64% 49 days, 13:39:44 Stable 2/7 Ok 65% 65% 49 days, 13:39:44 Stable 2/8 Ok 65% 65% 49 days, 13:39:44 Stable 3/1 Ok 65% 64% 49 days, 13:39:44 Stable 3/2 Ok 65% 64% 49 days, 13:39:44 Stable 3/3 Ok 65% 64% 49 days, 13:39:44 Stable 3/4 Ok 65% 65% 49 days, 13:39:44 Stable 3/5 Ok 65% 65% 49 days, 13:39:44 Stable 3/6 Ok 65% 64% 49 days, 13:39:44 Stable 3/7 Ok 65% 65% 49 days, 13:39:44 Stable 3/8 Ok 65% 64% 49 days, 13:39:44 Stable 4/1 Ok 65% 65% 49 days, 13:39:44 Stable 4/2 Ok 65% 65% 49 days, 13:39:44 Stable 4/3 Ok 65% 64% 49 days, 13:39:44 Stable 4/4 Ok 65% 65% 49 days, 13:39:44 Stable 4/5 Ok 65% 65% 49 days, 13:39:44 Stable 4/6 Ok 65% 64% 49 days, 13:39:44 Stable 4/7 Ok 65% 64% 49 days, 13:39:44 Stable 4/8 Ok 65% 65% 49 days, 13:39:44 Stable 5/1 Ok 65% 64% 49 days, 13:39:44 Stable 5/2 Ok 65% 64% 49 days, 13:39:44 Stable 5/3 Ok 65% 64% 49 days, 13:39:44 Stable 5/4 Ok 65% 64% 49 days, 13:39:44 Stable 5/5 Ok 65% 64% 49 days, 13:39:44 Stable 5/6 Ok 65% 64% 49 days, 13:39:44 Stable 5/7 Ok 65% 65% 49 days, 13:39:44 Stable 5/8 Ok 65% 65% 49 days, 13:39:44 Stable 6/1 Ok 65% 65% 49 days, 13:39:43 Stable 6/2 Ok 65% 64% 49 days, 13:39:43 Stable 6/3 Ok 65% 64% 49 days, 13:39:43 Stable 6/4 Ok 65% 64% 49 days, 13:39:43 Stable 6/5 Ok 65% 64% 49 days, 13:39:43 Stable 6/6 Ok 65% 64% 49 days, 13:39:43 Stable 6/7 Ok 65% 65% 49 days, 13:39:43 Stable 6/8 Ok 65% 65% 49 days, 13:39:43 Stable PowerSupply1/1 Ok 70% 71% 49 days, 13:38:42 FW Override PowerSupply2/1 Ok 70% 71% 49 days, 13:38:29 FW Override PowerSupply3 Not Inserted N/A N/A Offline N/A PowerSupply4 Not Inserted N/A N/A Offline N/A PowerSupply5/1 Ok 70% 69% 49 days, 13:38:37 Stable PowerSupply6/1 Ok 70% 69% 49 days, 13:38:32 Stable PowerSupply7/1 Ok 70% 72% 49 days, 13:38:18 FW Override PowerSupply8/1 Ok 70% 71% 49 days, 13:38:35 FW Override PowerSupply9 Not Inserted N/A N/A Offline N/A PowerSupply10 Not Inserted N/A N/A Offline N/A PowerSupply11/1 Ok 70% 69% 49 days, 13:39:14 Stable PowerSupply12/1 Ok 70% 69% 49 days, 13:39:13 Stable   Stable  Uptime ----------------- 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:28 49 days, 13:39:27 49 days, 13:39:27 49 days, 13:39:27 49 days, 13:39:27 49 days, 13:39:27 49 days, 13:39:27 49 days, 13:39:27 49 days, 13:39:27  N/A  N/A  N/A  N/A 49 days, 13:36:36 49 days, 13:36:19  N/A  N/A  N/A  N/A 49 days, 13:37:20 49 days, 13:37:20 |

### 3.2.2 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 4 |
| Name | test\_if\_system\_environment\_cooling\_is\_in\_spec\_on\_ |
| Description | Verify system cooling environmentals are functional within spec |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show system environment cooling |
| Expected output | None |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | INVALID TEST: CloudEOS router |kg-topology-CloudEOSEdge2| doesnt require cooling. |

## 3.3 Test Case: Test if system environment power are in spec

### 3.3.1 DUT: BN305

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 5 |
| Name | test\_if\_system\_environment\_power\_are\_in\_spec\_on\_ |
| Description | Verify system power environmentals are functional within spec |
| Device under test | bn305 |
| Show command | None |
| Expected output | ['ok', 'ok', 'ok', 'ok', 'ok', 'ok', 'ok', 'ok'] |
| Actual output | ['powerLoss', 'ok', 'ok', 'powerLoss', 'ok', 'powerLoss', 'ok', 'powerLoss'] |
| Test result | False |
| Fail reason | Power-Supply 11 state is |powerLoss|, should be in |ok|. Power-Supply 1 state is |ok|, should be in |ok|. Power-Supply 2 state is |ok|, should be in |ok|. Power-Supply 5 state is |powerLoss|, should be in |ok|. Power-Supply 7 state is |ok|, should be in |ok|. Power-Supply 6 state is |powerLoss|, should be in |ok|. Power-Supply 8 state is |ok|, should be in |ok|. Power-Supply 12 state is |powerLoss|, should be in |ok|. |
| Comment | TEST is power-supply |11| functioning within spec. GIVEN power state is |ok|. WHEN power state is |powerLoss|. THEN test case result is |False|.  TEST is power-supply |1| functioning within spec. GIVEN power state is |ok|. WHEN power state is |ok|. THEN test case result is |True|.  TEST is power-supply |2| functioning within spec. GIVEN power state is |ok|. WHEN power state is |ok|. THEN test case result is |True|.  TEST is power-supply |5| functioning within spec. GIVEN power state is |ok|. WHEN power state is |powerLoss|. THEN test case result is |False|.  TEST is power-supply |7| functioning within spec. GIVEN power state is |ok|. WHEN power state is |ok|. THEN test case result is |True|.  TEST is power-supply |6| functioning within spec. GIVEN power state is |ok|. WHEN power state is |powerLoss|. THEN test case result is |False|.  TEST is power-supply |8| functioning within spec. GIVEN power state is |ok|. WHEN power state is |ok|. THEN test case result is |True|.  TEST is power-supply |12| functioning within spec. GIVEN power state is |ok|. WHEN power state is |powerLoss|. THEN test case result is |False|.  OUTPUT of |show system environment power| is :  Power Input Output Output Supply Model Capacity Current Current Power Status ------ -------------- -------- ------- ------- ------- ---------- 1 PWR-3KT-AC-RED 3000W 4.98A 89.62A 1080.0W Ok 2 PWR-3KT-AC-RED 3000W 5.03A 89.25A 1076.0W Ok 5 PWR-3KT-AC-RED 3000W 0.00A 0.00A 0.0W Power Loss 6 PWR-3KT-AC-RED 3000W 0.00A 0.00A 0.0W Power Loss 7 PWR-3KT-AC-RED 3000W 5.23A 93.75A 1132.0W Ok 8 PWR-3KT-AC-RED 3000W 4.98A 87.88A 1060.0W Ok 11 PWR-3KT-AC-RED 3000W 0.00A 0.00A 0.0W Power Loss 12 PWR-3KT-AC-RED 3000W 0.00A 0.00A 0.0W Power Loss Total -- 12000W -- -- 4348.0W --    Uptime ----------------- 49 days, 13:39:09 49 days, 13:38:57  Offline  Offline 49 days, 13:38:46 49 days, 13:39:03  Offline  Offline  -- . |

### 3.3.2 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 6 |
| Name | test\_if\_system\_environment\_power\_are\_in\_spec\_on\_ |
| Description | Verify system power environmentals are functional within spec |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | None |
| Expected output | [] |
| Actual output | [] |
| Test result | True |
| Fail reason |  |
| Comment | INVALID TEST: CloudEOS router |kg-topology-CloudEOSEdge2| doesnt have power-supplies. |

## 3.4 Test Case: Test if system environment temp is in spec

### 3.4.1 DUT: BN305

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 7 |
| Name | test\_if\_system\_environment\_temp\_is\_in\_spec\_on\_ |
| Description | Verify system temperature environmentals are functional within spec |
| Device under test | bn305 |
| Show command | None |
| Expected output | temperatureOk |
| Actual output | temperatureOk |
| Test result | True |
| Fail reason |  |
| Comment | TEST is |bn305| system termperature environmentals functioning within spec. GIVEN expected temperature state is |temperatureOk|. WHEN actual temperature state is |temperatureOk|. THEN test case result is |True|. OUTPUT of |show system environment temperature| is:  System temperature status is: Ok  Supervisor 1:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Digital Temperature Sensor on cpu0 39.0 (65) 63.5 95 105 2 Digital Temperature Sensor on cpu1 39.0 (65) 63.5 95 105 3 Digital Temperature Sensor on cpu2 39.0 (65) 63.5 95 105 4 Digital Temperature Sensor on cpu3 39.0 (65) 63.5 95 105 5 Digital Temperature Sensor on cpu4 39.0 (65) 63.5 95 105 6 Digital Temperature Sensor on cpu5 39.0 (65) 63.5 95 105 7 Digital Temperature Sensor on cpu6 39.0 (65) 63.5 95 105 8 Digital Temperature Sensor on cpu7 39.0 (65) 63.5 95 105 9 Digital Temperature Sensor on cpu8 39.0 (65) 63.5 95 105 10 Digital Temperature Sensor on cpu9 39.0 (65) 63.5 95 105 11 Digital Temperature Sensor on cpu10 39.0 (65) 63.5 95 105 12 Digital Temperature Sensor on cpu11 39.0 (65) 63.5 95 105 13 Supervisor temp sensor 26.4 (52) 50.5 75 85 14 PlxLc sensor 50.1 (80) 78.5 95 110 15 PlxFc sensor 41.9 (80) 78.5 95 110 16 Front sensor 21.4 (43) 41.5 65 75 17 Rear sensor 23.1 (43) 41.5 65 75 37 CPU VRM temp sensor 0 33.0 (70) 68.5 105 110 38 CPU VRM temp sensor 1 29.0 (70) 68.5 105 110  Linecard 3:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 31.8 (80) 78.5 90 100 2 Inlet sensor 25.0 (65) 63.5 70 85 3 Board sensor 33.8 (90) 88.5 100 105 4 Board sensor 33.8 (85) 83.5 95 105 5 Jericho0 44.4 (85) 83.5 105 110 6 Jericho1 43.5 (85) 83.5 105 110 7 Stat0 47.2 (80) 78.5 95 100 8 Board sensor 35.1 (85) 83.5 95 105 9 Jericho2 45.4 (85) 83.5 105 110 10 Jericho3 46.1 (85) 83.5 105 110 11 Stat1 47.8 (80) 78.5 95 100  Linecard 4:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 31.9 (80) 78.5 90 100 2 Inlet sensor 25.5 (65) 63.5 70 85 3 Board sensor 35.1 (90) 88.5 100 105 4 Board sensor 35.9 (85) 83.5 95 105 5 Jericho0 49.4 (85) 83.5 105 110 6 Jericho1 46.6 (85) 83.5 105 110 7 Stat0 48.2 (80) 78.5 95 100 8 Board sensor 35.9 (85) 83.5 95 105 9 Jericho2 48.9 (85) 83.5 105 110 10 Jericho3 50.0 (85) 83.5 105 110 11 Stat1 48.0 (80) 78.5 95 100  Linecard 5:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 5 Outlet sensor 23.0 (65) 63.5 90 100 6 Inlet sensor 21.9 (60) 58.5 75 85 7 Board sensor 22.9 (65) 63.5 95 105  Linecard 6:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 33.5 (80) 78.5 90 100 2 Inlet sensor 25.9 (65) 63.5 70 85 3 Board sensor 35.6 (90) 88.5 100 105 4 Board sensor 38.5 (85) 83.5 95 105 5 Jericho0 47.4 (85) 83.5 105 110 6 Jericho1 45.5 (85) 83.5 105 110 7 Stat0 49.1 (80) 78.5 95 100 8 Board sensor 38.1 (85) 83.5 95 105 9 Jericho2 46.4 (85) 83.5 105 110 10 Jericho3 46.6 (85) 83.5 105 110 11 Stat1 48.0 (80) 78.5 95 100  Linecard 7:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 Outlet sensor 30.0 (80) 78.5 90 100 2 Inlet sensor 25.9 (65) 63.5 70 85 3 Board sensor 35.5 (90) 88.5 100 105 4 Board sensor 35.4 (85) 83.5 95 105 5 Jericho0 48.4 (85) 83.5 105 110 6 Jericho1 45.4 (85) 83.5 105 110 7 Stat0 49.2 (80) 78.5 95 100 8 Board sensor 35.4 (85) 83.5 95 105 9 Jericho2 46.1 (85) 83.5 105 110 10 Jericho3 47.4 (85) 83.5 105 110 11 Stat1 49.0 (80) 78.5 95 100  Fabric 1:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.5 (85) 83.5 95 105 21 Fan side sensor 28.2 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 34.8 (85) 83.5 95 105 24 FE 0 sensor 32.2 (85) 83.5 95 105 25 FE 1 sensor 32.8 (85) 83.5 95 105 26 FE 2 sensor 32.2 (85) 83.5 95 105  Fabric 2:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.5 (85) 83.5 95 105 21 Fan side sensor 28.2 (85) 83.5 95 105 22 Midplane side sensor 21.2 (65) 63.5 75 85 23 ADT (Fan controller) 2 37.0 (85) 83.5 95 105 24 FE 0 sensor 34.2 (85) 83.5 95 105 25 FE 1 sensor 34.5 (85) 83.5 95 105 26 FE 2 sensor 33.8 (85) 83.5 95 105  Fabric 3:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.0 (85) 83.5 95 105 21 Fan side sensor 27.2 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 35.2 (85) 83.5 95 105 24 FE 0 sensor 32.8 (85) 83.5 95 105 25 FE 1 sensor 33.5 (85) 83.5 95 105 26 FE 2 sensor 32.8 (85) 83.5 95 105  Fabric 4:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.5 (85) 83.5 95 105 21 Fan side sensor 28.0 (85) 83.5 95 105 22 Midplane side sensor 21.2 (65) 63.5 75 85 23 ADT (Fan controller) 2 35.2 (85) 83.5 95 105 24 FE 0 sensor 33.0 (85) 83.5 95 105 25 FE 1 sensor 33.2 (85) 83.5 95 105 26 FE 2 sensor 33.2 (85) 83.5 95 105  Fabric 5:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.2 (85) 83.5 95 105 21 Fan side sensor 27.5 (85) 83.5 95 105 22 Midplane side sensor 21.0 (65) 63.5 75 85 23 ADT (Fan controller) 2 36.0 (85) 83.5 95 105 24 FE 0 sensor 33.8 (85) 83.5 95 105 25 FE 1 sensor 34.5 (85) 83.5 95 105 26 FE 2 sensor 34.0 (85) 83.5 95 105  Fabric 6:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 20 ADT (Fan controller) 1 27.8 (85) 83.5 95 105 21 Fan side sensor 28.0 (85) 83.5 95 105 22 Midplane side sensor 21.8 (65) 63.5 75 85 23 ADT (Fan controller) 2 34.5 (85) 83.5 95 105 24 FE 0 sensor 32.5 (85) 83.5 95 105 25 FE 1 sensor 32.2 (85) 83.5 95 105 26 FE 2 sensor 31.8 (85) 83.5 95 105  PowerSupply 1:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 23.2 (N/A) 65.3 102 109 2 Ambient sensor 25.2 (55) 53.5 65 70 3 PFC sensor 33.8 (N/A) 51.2 80 98  PowerSupply 2:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 23.8 (N/A) 65.3 102 109 2 Ambient sensor 25.2 (55) 53.5 65 70 3 PFC sensor 32.1 (N/A) 51.2 80 98  PowerSupply 5:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 21.4 (N/A) 65.3 102 109 2 Ambient sensor 26.4 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98  PowerSupply 6:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 20.4 (N/A) 65.3 102 109 2 Ambient sensor 24.7 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98  PowerSupply 7:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 24.8 (N/A) 65.3 102 109 2 Ambient sensor 24.9 (55) 53.5 65 70 3 PFC sensor 31.1 (N/A) 51.2 80 98  PowerSupply 8:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 23.8 (N/A) 65.3 102 109 2 Ambient sensor 24.8 (55) 53.5 65 70 3 PFC sensor 30.8 (N/A) 51.2 80 98  PowerSupply 11:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 20.2 (N/A) 65.3 102 109 2 Ambient sensor 23.9 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98  PowerSupply 12:  Alert Critical  Temp Setpoint Limit Limit Sensor Description (C) (C) (C) (C) ------- ----------------------------------- ------- ----------- ------ --------- 1 ORing FET sensor 19.8 (N/A) 65.3 102 109 2 Ambient sensor 23.0 (55) 53.5 65 70 3 PFC sensor N/A (N/A) 51.2 80 98 |

### 3.4.2 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 8 |
| Name | test\_if\_system\_environment\_temp\_is\_in\_spec\_on\_ |
| Description | Verify system temperature environmentals are functional within spec |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | None |
| Expected output | None |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | INVALID TEST: CloudEOS router |kg-topology-CloudEOSEdge2| doesnt require cooling. |