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ENORSUD Ravinder .			
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## MOP for SFP RX power High/Low at LTU2\_155 alarm

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### A: Introduction

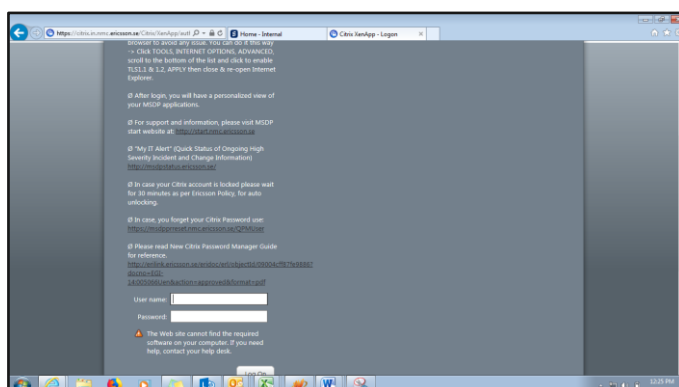
This document outlines the systematic process involved in SFP RX Power Low/High at LTU2\_155 alarm clearance on node.

### B: PRECHECK

1. Check if impacted site node ping is available, if not align FE immediately.
2. If FE alignment required, he should be having required hardware.
3. FE should be having necessary software on his laptop, necessary node login tools.
4. Please check to have complete PCM path i.e. POP node to issue node.
5. Please take manual backup of traffic routing, in worst case cross connection may be deleted.
6. If partial outage is there from any node, and while rectification activity, other sites also can go down for time being, ensure to have proper approval for outage window for all dependent sites for working node.

### C: Procedure

1. Login MSDP through below mentioned link.  
<https://citrix.in.nmc.ericsson.se/>
2. Provide CITRIX username and password.



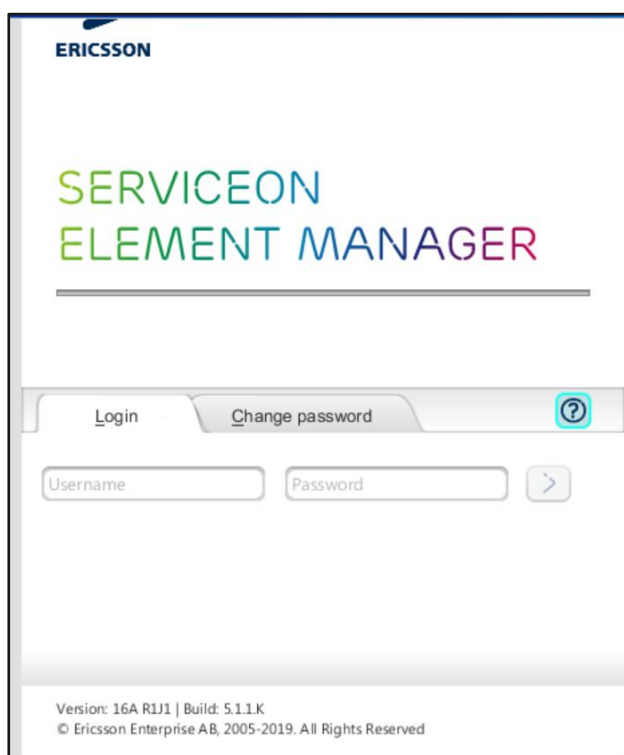
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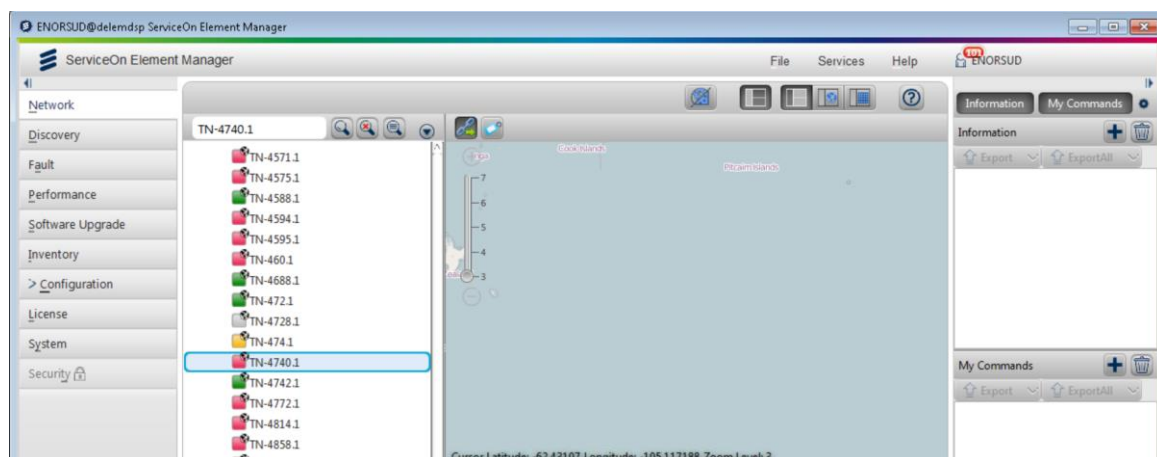
3. Click on [Main](#) > [Xenapp6.5](#) > **Bharti Noida** > **Bharti INNO Remote Desktop Client**.



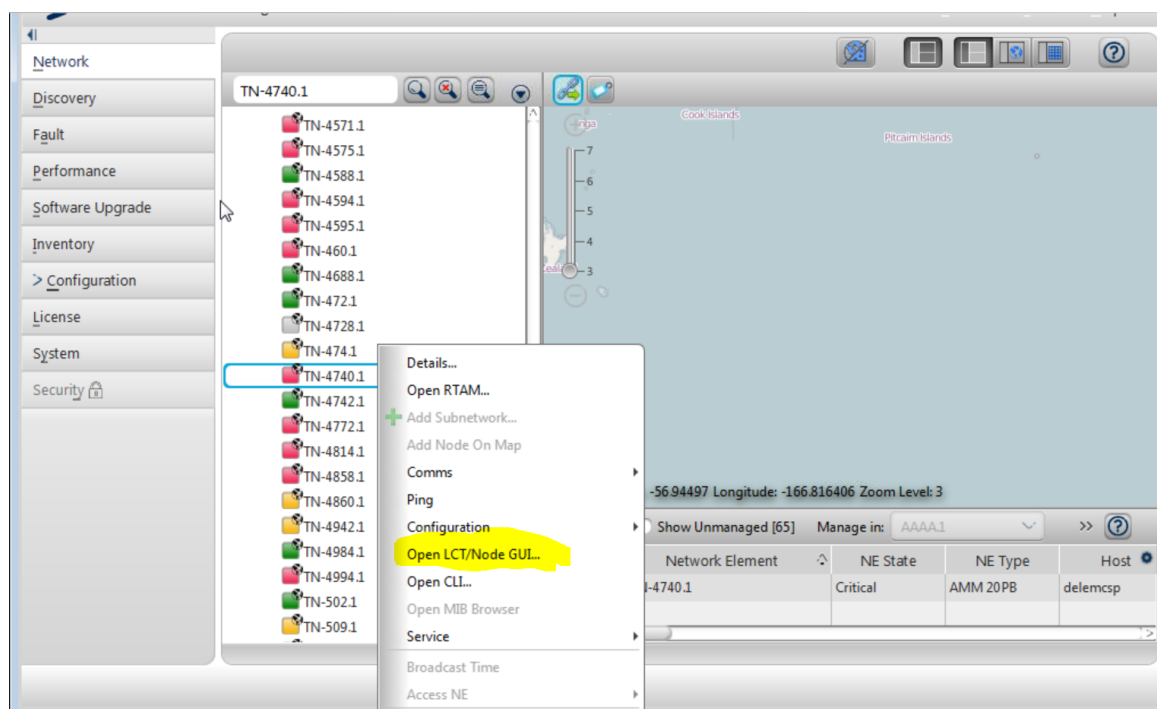
4. Now login the RSG with RSG IP & credentials.
5. Launch the GUI & login with credentials.



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6. Search the required Node ID in GUI & If node is managed, then open node using SO-EM GUI or directly from Mini-Link Craft using node IP.



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MINI-LINK Craft 19.Q4

NE Filter: TN-4740 (10.64.88.194)

IP/Host: 10.64.88.194

User: admin\_user

Password: .....

SNMP Authentication: MD5

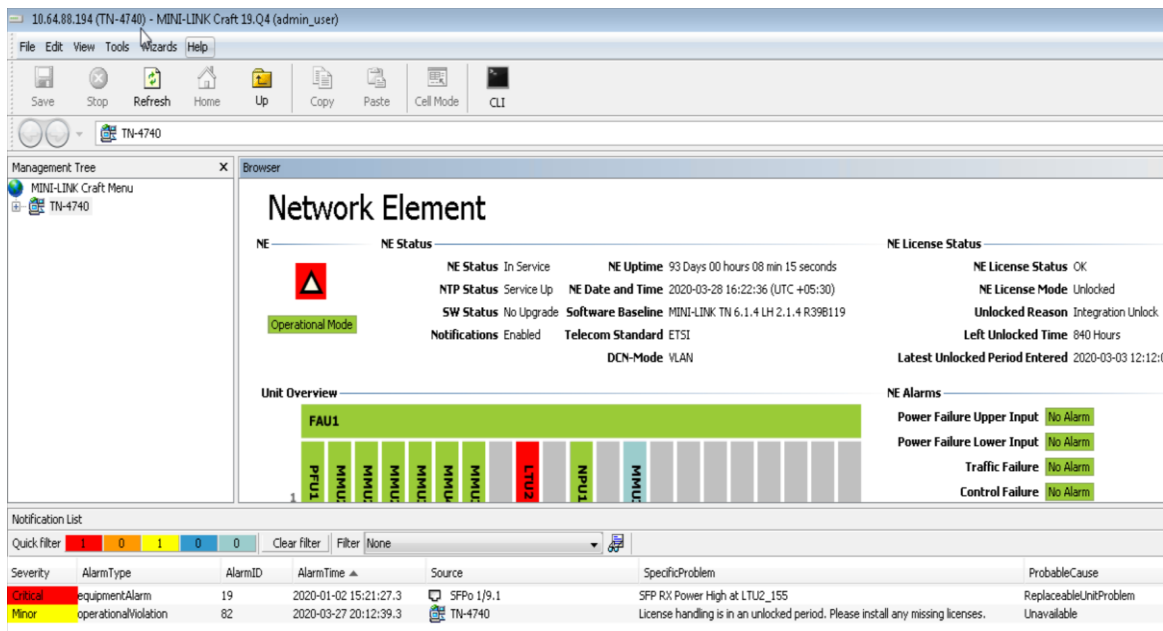
SNMP Privacy: None

Import Logon

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Version: R38A84

7. Check the alarms on the node.

8. Example One Node having SFP RX power high and second having SFP RX power low alarm



10.64.88.194 (TN-4740) - MINI-LINK Craft 19.Q4 (admin\_user)

File Edit View Tools Wizards Help

Save Stop Refresh Home Up Copy Paste Cell Mode CLI

TN-4740

Management Tree

- MINI-LINK Craft Menu
- TN-4740

Browser

### Network Element

NE Status

NE Status: In Service

NE Uptime: 93 Days 00 hours 08 min 15 seconds

NTP Status: Service Up

NE Date and Time: 2020-03-28 16:22:36 (UTC +05:30)

SW Status: No Upgrade

Software Baseline: MINI-LINK TN 6.1.4 LH 2.1.4 R39B119

Notifications: Enabled

Telecom Standard: ETSI

DCN-Mode: VLAN

NE License Status

NE License Status: OK

NE License Mode: Unlocked

Unlocked Reason: Integration Unlock

Left Unlocked Time: 840 Hours

Latest Unlocked Period Entered: 2020-03-03 12:12:00

Unit Overview

FAU1

LTU2

NE Alarms

Power Failure Upper Input: No Alarm

Power Failure Lower Input: No Alarm

Traffic Failure: No Alarm

Control Failure: No Alarm

Notification List

Quick filter: 1 0 1 0 0 Clear filter Filter: None

Severity	AlarmType	AlarmID	AlarmTime	Source	SpecificProblem	ProbableCause
Critical	equipmentAlarm	19	2020-01-02 15:21:27.3	SFPo 1/9.1	SFP RX Power High at LTU2_155	ReplaceableUnitProblem
Minor	operationalViolation	82	2020-03-27 20:12:39.3	TN-4740	License handling is in an unlocked period. Please install any missing licenses.	Unavailable

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MINI-LINK Craft Menu  
TN-160

## Network Element

NE NE Status **Operational Mode**

NE Status: In Service  
NTP Status: Service Up  
SW Status: No Upgrade  
Notifications: Enabled

NE Uptime: 242 Days 14 hours 40 min 09 seconds  
NE Date and Time: 2020-03-28 16:28:51 (UTC +05:30)  
Software Baseline: MINI-LINK TN 6.1.4 LH 2.1.4 R39B119  
Telecom Standard: ETSI  
DCN-Mode: VLAN

NE License Status: OK  
NE License Mode: Locked  
Unlocked Reason: N/A  
Left Unlocked Time: N/A  
Latest Unlocked Period Entered: N/A

Unit Overview  
**FAU1**

NE Alarms  
Power Failure Upper Input: N/A  
Power Failure Lower Input: N/A

Notification List

Severity	AlarmType	AlarmID	AlarmTime	Source	SpecificProblem	ProbableCause
Critical	communicationAlarm	452	2020-02-25 15:56:41.1	LAN 1/11/6	Ethernet Down	Unavailable
Critical	equipmentAlarm	484	2020-03-04 16:56:30.1	SFPo 1/20.1	SFP TX Bias Low at LTU2_155	ReplaceableUnitProblem
Critical	equipmentAlarm	485	2020-03-04 16:56:30.1	SFPo 1/20.1	SFP TX Power Low at LTU2_155	ReplaceableUnitProblem
Critical	equipmentAlarm	486	2020-03-04 16:56:30.1	SFPo 1/20.1	SFP RX Power Low at LTU2_155	ReplaceableUnitProblem
Critical	communicationAlarm	523	2020-03-23 08:06:08.0	RS 1/20/1	LOS	LossOfSignal
Minor	qualityOfServiceAlarm	518	2020-03-28 00:00:11.9	WAN 1/11/109	Tx Discarded 24 h threshold crossing	ThresholdCrossed
Minor	qualityOfServiceAlarm	519	2020-03-28 00:00:11.9	WAN 1/11/109	TC3 Discarded 24 h threshold crossing	ThresholdCrossed

- Check the SFP configuration, if configuration is incorrect then need to correct the same and check alarm status.

## SFPo 1/9.1 - Configuration

Oper Status: In Service

Admin Status: **In Service**

Notifications: ☒

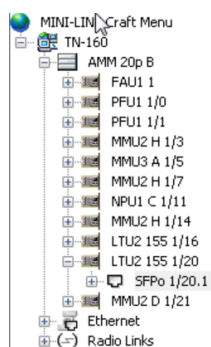
SFP Type: **S-1.1**

Port Protection: **Protecting SFP** **Unprotected**

### SFP Diagnostic Alarm Limits

	Low	Low Warning	High Warning	High
Temperature (°C)	-45.0	-40.0	95.0	100.0
Supply Voltage (V)	2.80	2.97	3.60	3.80
Bias Current (mA)	2.996	3.098	69.972	79.968
RX Power (mW)	3.0E-4	7.0E-4	0.1584	0.1995
TX Power (mW)	0.0199	0.0250	0.1989	0.2504

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## SFPo 1/20.1 - Configuration

Oper Status In Service

Admin Status In Service

Notifications ☒

SFP Type S-1.1

Port Protection

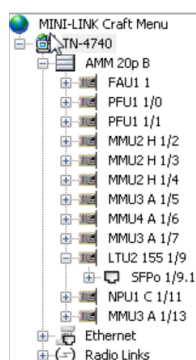
Protecting SFP Unprotected

SFP Diagnostic Alarm Limits

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Temperature (°C)	-45.0	-40.0	95.0	100.0
Supply Voltage (V)	2.80	2.97	3.60	3.80
Bias Current (mA)	2.996	3.098	69.972	79.968
RX Power (mW)	3.0E-4	7.0E-4	0.1583	0.1994
TX Power (mW)	0.0200	0.0252	0.2000	0.2518

Automatic Laser Shutdown

10. Check the software compatibility of the LTU card, LTU software must be compatible with Baseline.



Software Information

Software	Rack/Position	Product Number	Release	Part of MINI-LINK_TN_6.1.4_LH_2.1.4_R39B119
MMU2 H	1/2	CXP 901 1133/6	R23A08	Yes
RAU2 X 15/21	1/2.1	CXP 901 2878	R5E01	N/A. ( Radio SW is not part of baseline. )
MMU2 H	1/3	CXP 901 1133/6	R23A08	Yes
RAU2 X 23/93HP	1/3.1	CXP 901 2878	R5E01	N/A. ( Radio SW is not part of baseline. )
MMU2 H	1/4	CXP 901 1133/6	R23A08	Yes
RAU2 X 23/93	1/4.1	CXP 901 2878	R5E01	N/A. ( Radio SW is not part of baseline. )
MMU3 A	1/5	CXP 901 1133/7	R14A43	Yes
RAU2 X 23/93	1/5.1	CXP 901 2878	R5E01	N/A. ( Radio SW is not part of baseline. )
MMU4 A	1/6	CXP 901 1133/33	R8U01	Yes
MINI-LINK 6363 23/02L	1/6.1	CXP 901 3640	R1M01	N/A. ( Radio SW is not part of baseline. )
MMU3 A	1/7	CXP 901 1133/7	R14A43	Yes
RAU2 X 23/A02	1/7.1	CXP 901 2878	R5E01	N/A. ( Radio SW is not part of baseline. )
LTU2 155	1/9	CXC 173 1531/1	R10A01	Yes
NPU1 C	1/11	CXP 901 4938/4	R39B119	Yes
MMU3 A	1/13	CXP 901 1133/7	R14A43	Yes
RAU2 X 23/A02	1/13.1	CXP 901 2878	R5E01	N/A. ( Radio SW is not part of baseline. )

Common Information

Common	Product Number	Release
Software Baseline	CXP9010021_1	MINI-LINK_TN_6.1.4_LH_2.1.4_R39B119

11. Check proper power is coming or not in meter if ok then go through the next mention steps
12. Perform JOJI the SFP and check the alarm status, if alarm cleared the monitor the alarms.
13. If alarm is not cleared, perform cleaning on patch chord and check alarm status.
14. If alarm not cleared, replace the SFP module with compatible SFP with LTU and monitor the alarms.

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### Compatible SFP List:

Product number	Description	MMU2 E & F	LTU2 155	MMU3 B
RDH 901 20/29902 <sup>10</sup> R4A	SFP S-1e electrical - 5/+85C	3.2	4.4FP.2	5.3
RDH 901 20/20213 R4A	SFP S-1.1 1310nm -5/+85C	3.2	4.4FP.2	5.3
RDH 901 20/B0213 R4A	SFP S-1.1 1310nm - 40/+85C	-	4.4FP.2	-
RDH 901 20/B0228 R4A	SFP L-1.1 1310nm - 40/+85C	4.4FP.2	4.4FP.2	5.3
RDH 901 20/B1424 R4A	SFP L-1.2 1550nm - 40/+85C	4.4FP.2	4.4FP.2	5.3
RDH 901 20/B1424 R4A	SFP L-1.2 1550nm - 40/+85C	4.4FP.2	4.4FP.2	5.3
RDH 102 48/20	SFP BiDi FE/STM1 1550nm/1310nm -40/+85C	-	4.4FP.2	-
RDH 102 48/21	SFP BiDi FE/STM1 1310nm/1550nm -40/+85C	-	4.4FP.2	-
RDH 901 20/81028 R4A	SFP L-1/4/16.2C GE CWDM 1470 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81128 R4A	SFP L-1/4/16.2C GE CWDM 1490 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81228 R4A	SFP L-1/4/16.2C GE CWDM 1510 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81328 R4A	SFP L-1/4/16.2C GE CWDM 1530 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81428 R4A	SFP L-1/4/16.2C GE CWDM 1550 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81528 R4A	SFP L-1/4/16.2C GE CWDM 1570 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81628 R4A	SFP L-1/4/16.2C GE CWDM 1590 80KM 0/+70C	-	4.4FP.2	-
RDH 901 20/81728 R4A	SFP L-1/4/16.2C GE CWDM 1610 80KM 0/+70C	-	4.4FP.2	-

### **D: Post Check**

1. Check alarm should be cleared from node.
2. No new alarm should be generated on node.
3. All services should be restored.

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## E: Fall Back Procedure

Since MOP is for clearing alarm so Fall-back procedure is not required.

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*Please note that the method of procedure is prepared as the current scenario, available devices, and deployed software version. So activity steps and impact can vary depending upon the scenario.in that case we will further communicate.*