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MOP- XPIC LOS Alarm Clearance OEM Ericsson

Table of contents:

A: Introduction

This document outlines the systematic process involved in XPIC LOS at MMU 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/

Provide CITRIX username and password.
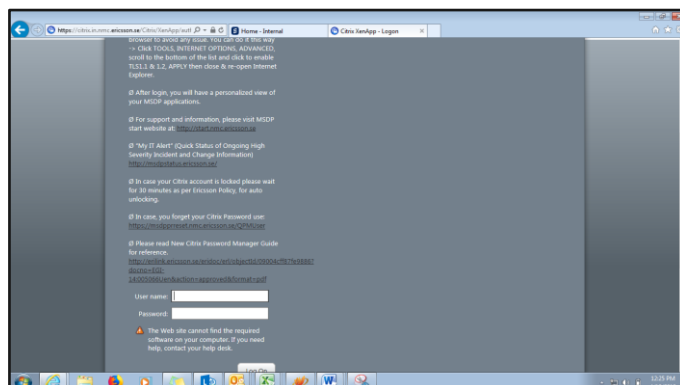
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2.Clink on <u>Main</u> > <u>Xenapp6.5</u> > **Bharti Noida >Bharti INNO Remote Desktop Client.**


3.Now login the RSG with RSG IP & credentials.

4.Launch the GUI & login with credentials.

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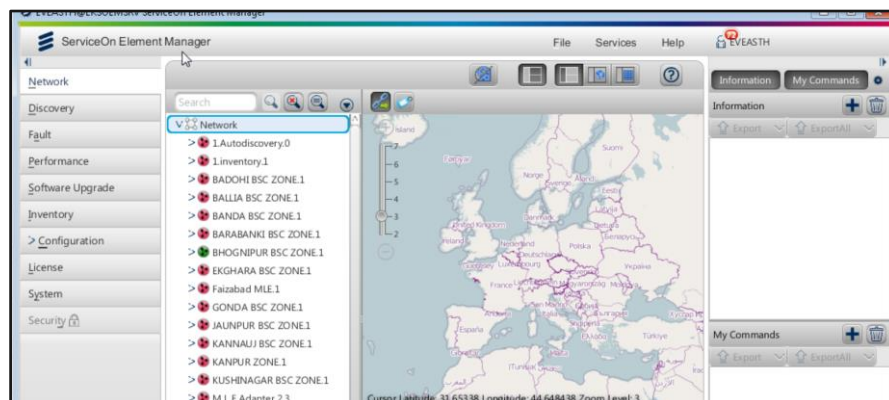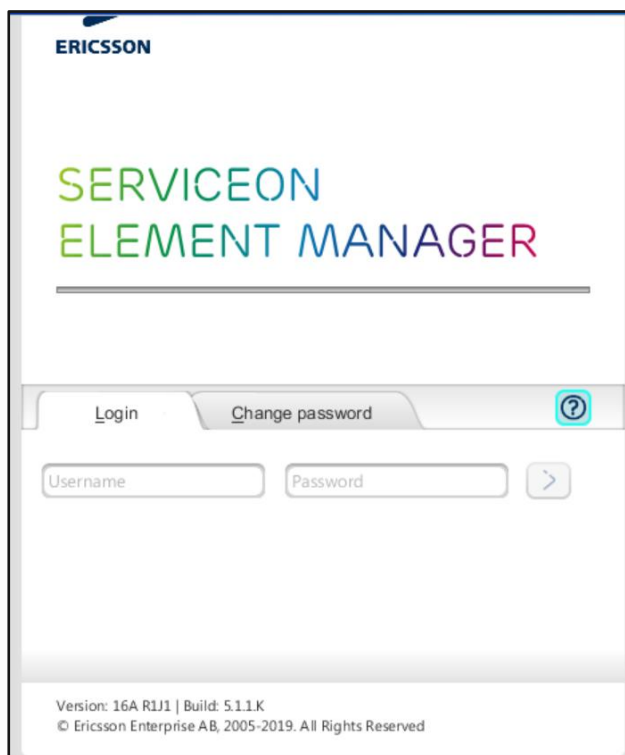
5. Search the required Node ID in GUI & If node is managed, then open node using SO-EM GUI or directly from Mini-Link Craft using node IP.

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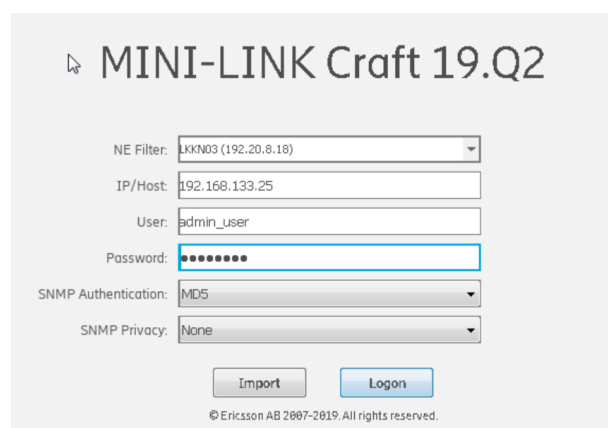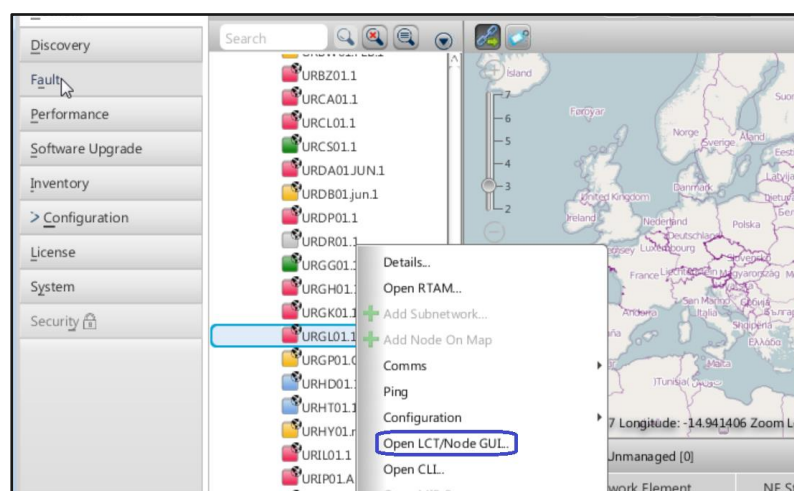
6. Check the alarms on the node.

7. The alarm is raised when the Cross Polarization Interference Canceller (XPIC) baseband cross-signal between two MMU2 F/H/K, MMU3 A/B modems in XPIC mode is lost, with the XPIC cross-cable correctly connected. Loss of the XPIC baseband cross-signal due to MMU2 F/H/K, MMU3 A/B internal hardware or software fault. Not due to disconnected XPIC cross-cable.

Consequences

Degraded receiving thresholds, performance (BER) or loss of traffic.

Corrective Actions:

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Do the following:

1. Check if Rx IF Input alarm or RCC alarm is also raised.
   - If Rx IF Input alarm or RCC alarm is raised, find the root causes of these alarms first, and take corrective actions according to their alarm description.
   - If Rx IF Input alarm or RCC alarm is not raised, go to Step 2.
2. On-site action: Replace one of the MMUs in the XPIC-pair.
   - If the XPIC LOS alarm is not cleared, reuse the initial MMU and go to Step 3.
   - If the XPIC LOS alarm is cleared. Check link status.
3. On-site action: Replace the other MMU in the XPIC-pair and check link status.

Alarm Clearance

The alarm is cleared when the XPIC baseband cross-signal is present again

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.

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.