MOP for Huawei PLA Member Down Alarm clearance

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A. Introduction

This document outlines the step-by-step process involved in MOP for Huawei PLA Member down Using Huawei U2000 Client.

Description

The PLA_MEMBER_DOWN alarm indicates that a member link of a PLA group is faulty.

Impact on the System

If the PLA_DOWN alarm is also reported, services are interrupted. If the PLA_DOWN alarm is not reported, only the services carried by the faulty member link are interrupted and available bandwidth of the PLA group decreases.

Possible Causes

Cause 1: A member link of the PLA group is faulty at the local end.

Cause 2: The IF board configured with the PLA group or related RFU/ODU hardware is faulty at the local end.

B. PRECHECK

1. *Check for the mandatory fields in Standard CR Template for if any of the mandatory fields is not duly filled, CR should not be taken for execution.*
2. *Check the data received from authorized Transmission engineer for correctness & all essential data.*
3. *If Circle Head/ CR form does not approve the CR is not duly filled, CR should not be taken for execution.*
4. *Every Outage involve activity should be performed in Night Shift Only.*
5. *Need backup of Node where the activity is performed before any activity.*
6. *If any Critical/SA alarms, Don't perform activity on the node and ask circle to clear the Alarm.*
7. *Field support should be available with spare and remote access.*
8. *Node should be managed in NMS*
9. *Need to check latest node backup availability in server.*

❖ *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.*

PLA RTN controller & IF board compatibility & Limitation

For 950A

Feature Name	*System Control Board*	*Board Type (Port Type)*
PLA	*CSHO*	*ISV3/ISM6 (IF port)*

For RTN950

Feature Name	System Control Board	Board Type (Port Type)
PLA	CSH/CSHU/CSHUA	ISV3/ISM6 (IF port)

For RTN 980

Feature Name	System Control Board	Board Type (Port Type)
PLA	CSHN/CSHNA	ISV3/ISM6 (IF port)

For RTN 910A- CSHR controller card

Feature Name	Board Type (Port Type)
PLA	ISV3/ISM6 (IF port) CSHR (IF port)

Feature limitation:

The valid slot for RTN950/RTN950A is 3,5 and 4,6 as paired slots and RTN 980 (3,5)(4 ,6)(11,13)(12,14) paired slots.

Here we have installed ISV3 cards slot 3&5 where 3 slot for V and 4 slot for H.

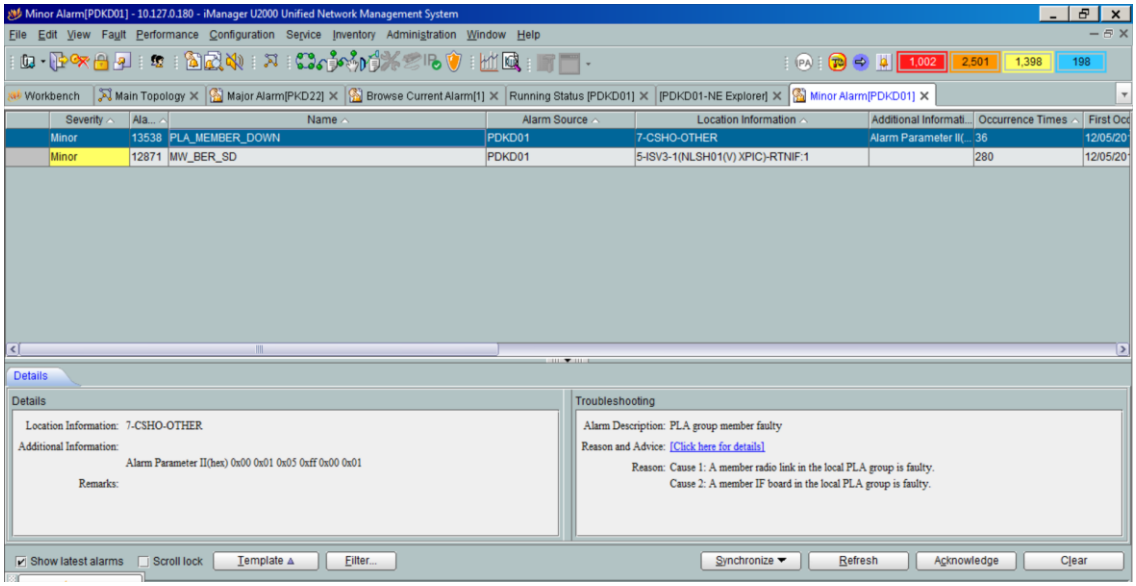
IF Port mode

For PLA group, the slave ports must be idle,

***Software Version:** Lower version supports PLA, but recommendation is to configure PLA in V100R007C10SPC300 version NE to get RMON reading & required alarms.*

❖ *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.*

Current Alarms before activity

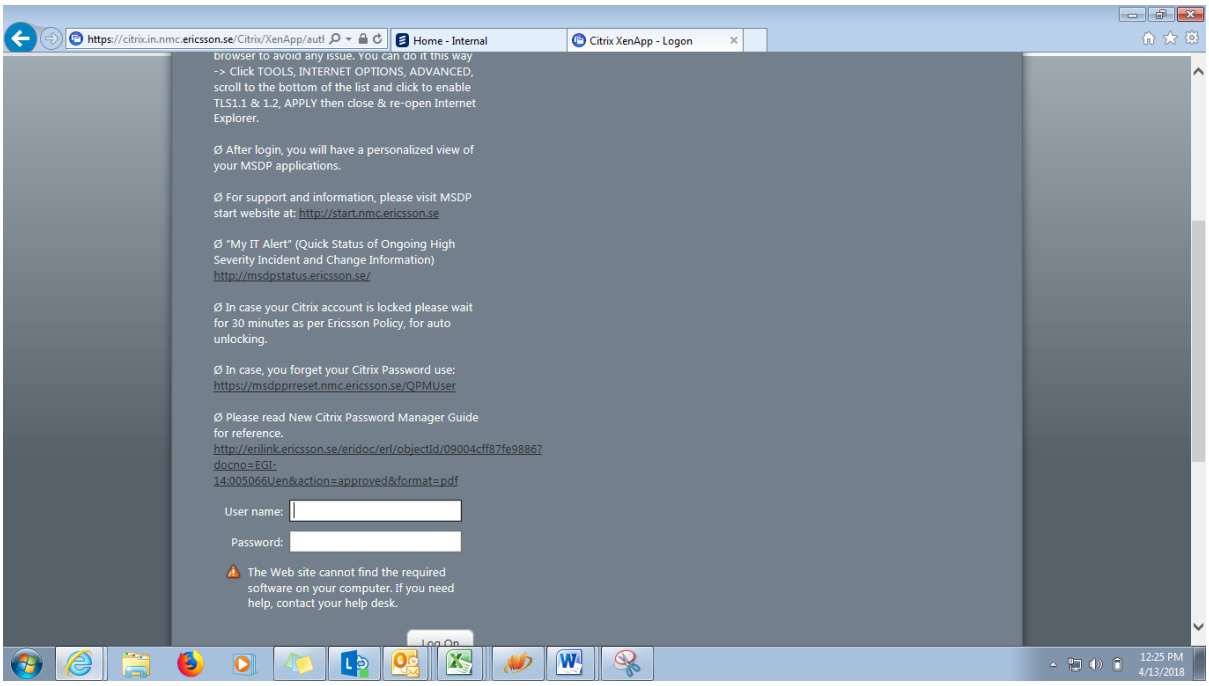


C. Procedure:

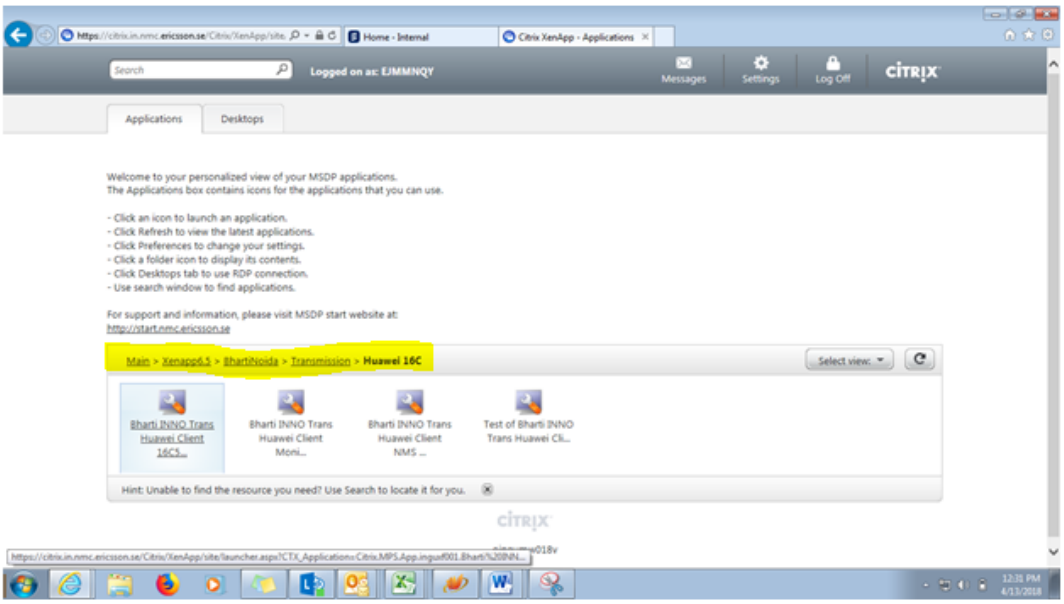
STEPS FOR EPLA configuration activity:-

1. Login MSDP through below mentioned link.
https://citrix.in.nmc.ericsson.se/

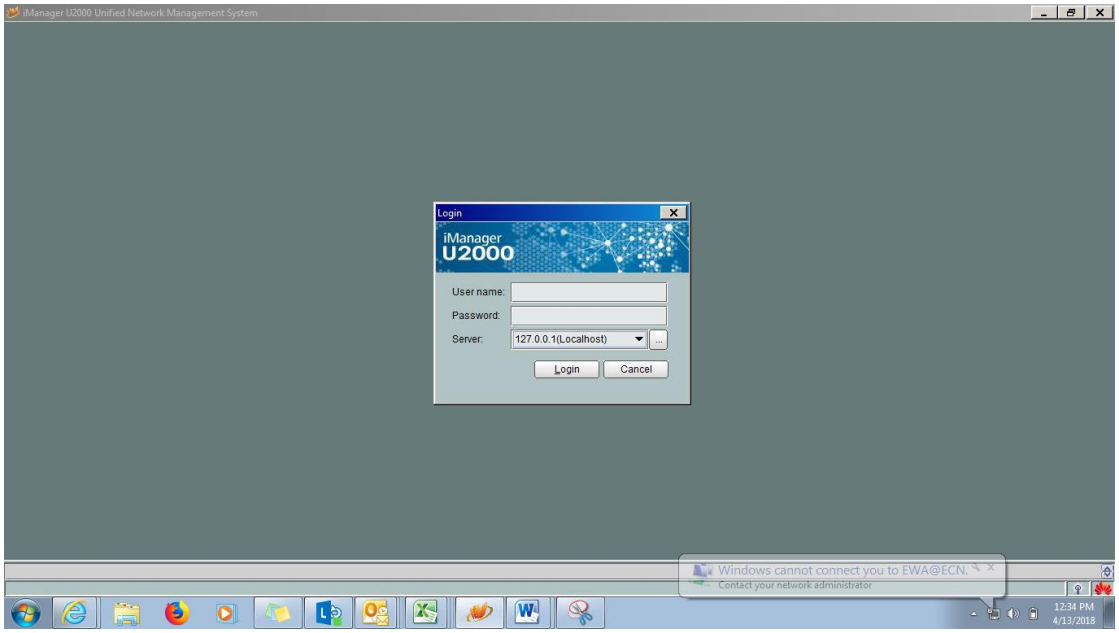
2. Provide CITRIX username and password.



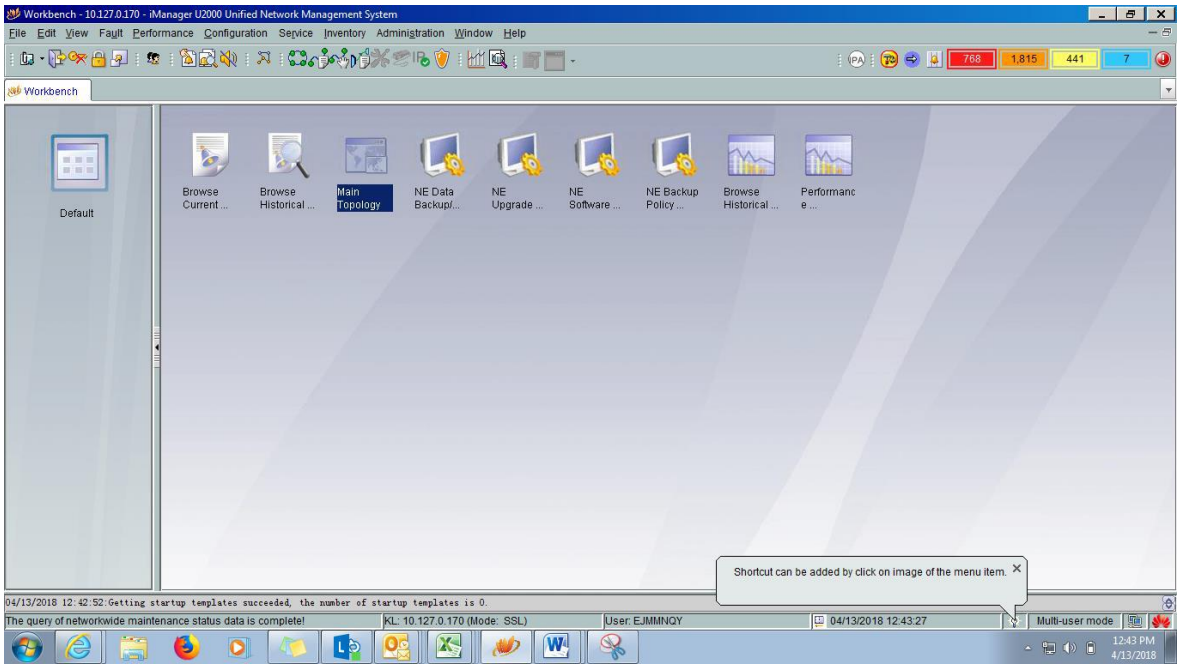
3. Click on "Xenapp6.5 >> BhartiNoida >> Transmission >> Huawei 16C/17C/18C >> Bharti INNO Trans Huawei client.



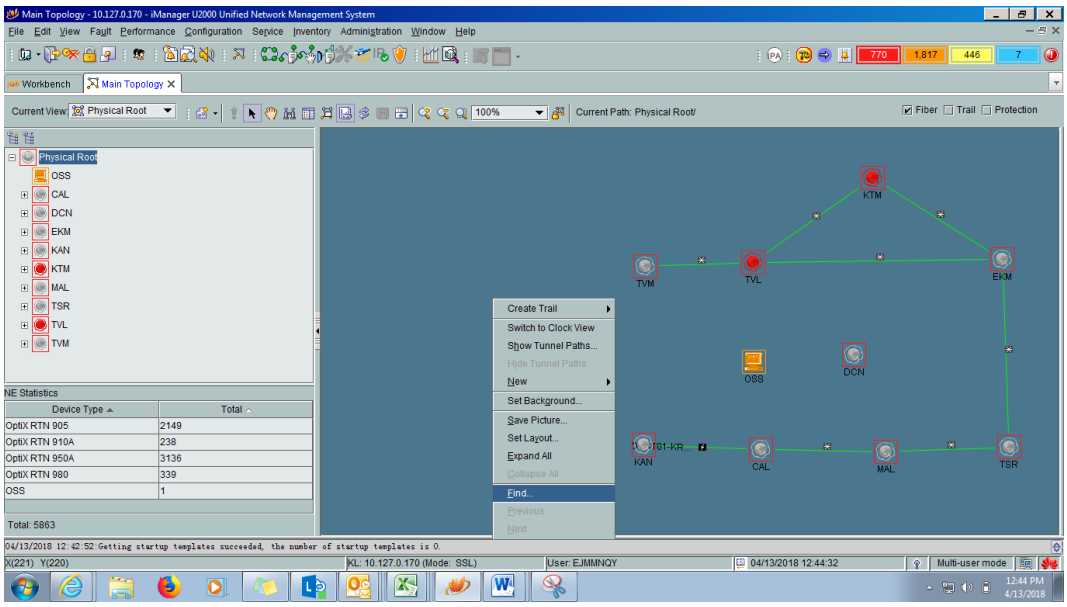
4. Now Huawei is launched enter the credentials and server IP of the circle must log in.



5. Click on "Main Topology" to open the Topology.



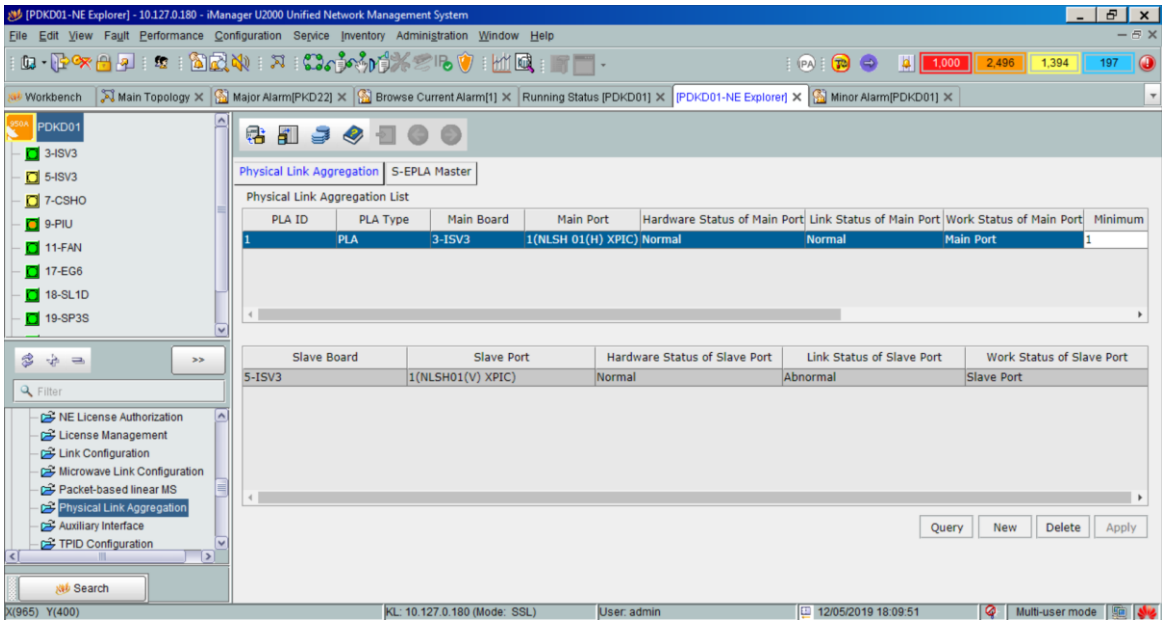
6. Right Click on the server and click on "FIND" to find the node.



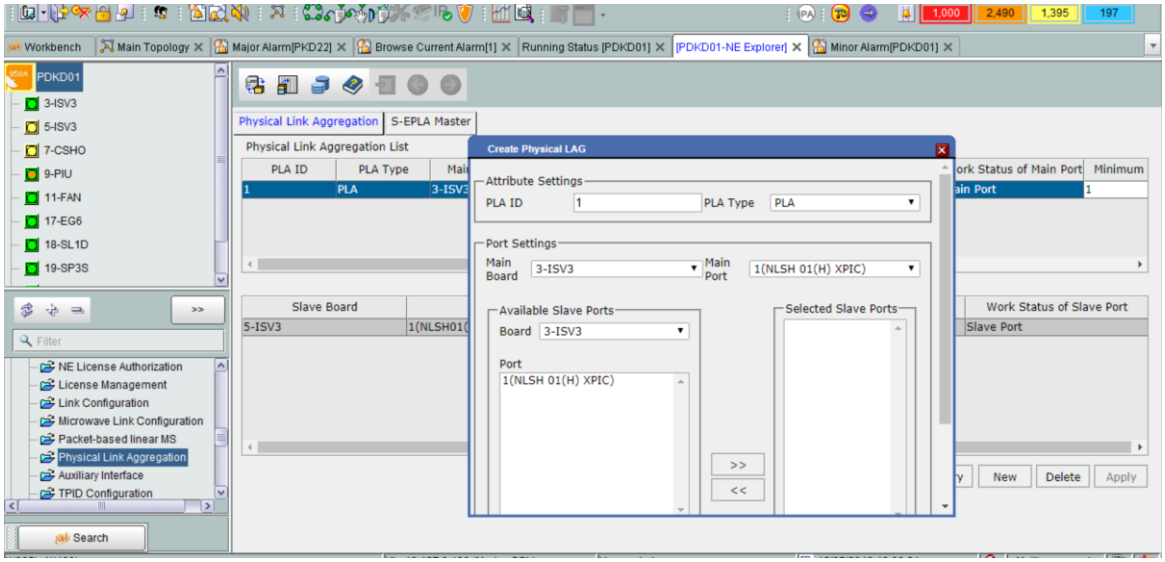
7.Login near and far end both nodes and take snap shot of TX Power, RSL and frequency and Current Modulation.

10. Login the RTN of far end near end both via U2000 NMS client

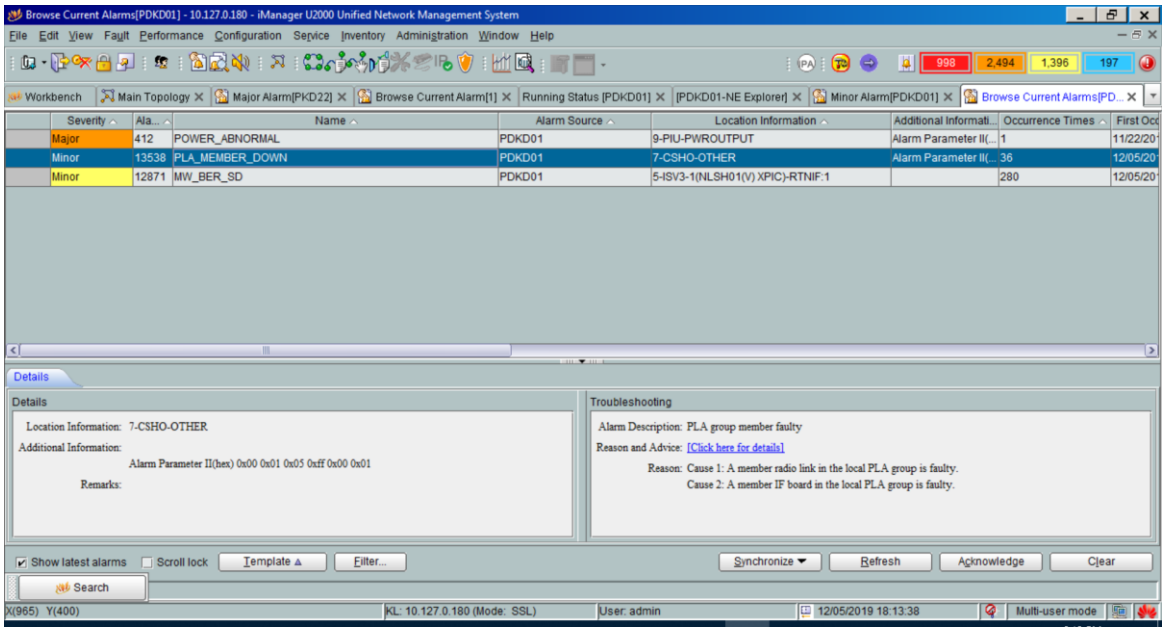
*1、Select **Configuration -> Physical Link Aggregation** -> New in main topology*



*2、Select **Configuration** -> **Physical Link Aggregation** -> New-> PLATYPE->PLA in main topology*



*3、Select **NODE** -> **CLICK Right** -> Go Current alarm >*



Cause 1: A member link of the PLA group is faulty at the local end.

Determine the associated IF board and radio links based on the ID of the PLA group. For details, see querying PLA group status.

Check whether the MW_LOF, MW_LIM, MW_RDI, R_LOC, and R_LOF alarms are reported the radio links. If yes, clear these alarms.

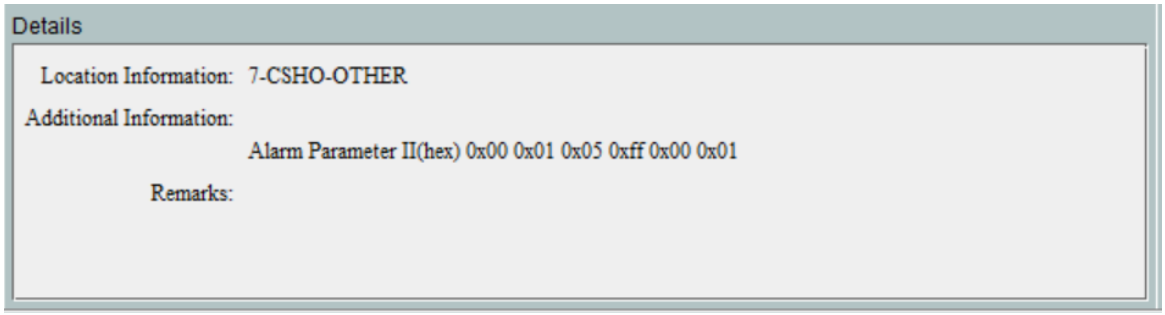
Cause 2: The IF board configured with the PLA group or related RFU/ODU hardware is faulty at the local end.

Determine the associated IF board and RFU/ODU based on the ID of the PLA group. For details, see querying PLA group status.

Check whether the IF board and RFU/ODU report hardware-related alarms, such as HARD_BAD, BD_STATUS, VOLT_LOS, WRG_BD_TYPE, and RADIO_MUTE. If yes, clear these alarms.

Related Information

Figure 1 Parameter Examples

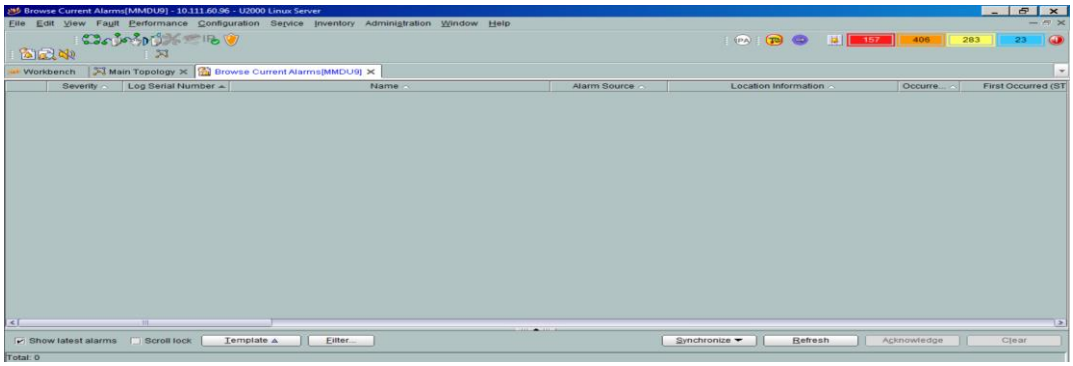


- *Parameters 1 and 2 (0x00 0x01) indicate that the PLA group ID is 1.*
- *Parameter 3 (0x03) indicates that the slot ID is 3.*
- *Parameter 4 takes a fixed value of 0xff.*

- *Parameters 5 and 6 (0x00 0x01) indicate that the port ID is 1.*

D. Post Activity Health Check:

Please check alarm will be clear and services also restored and confirm services status from all stakeholder



E. Fall Back Procedure: -

If the changes are not applied successfully then need to arrange field support at connecting end and need to revert the applied changes to original configuration.

IF the running services are impacted then the latest NE backup can also be uploaded if the node reachability is not lost which was taken as the part of "Pre-Check"