MOP for Huawei BIP_EXC Alarm Clearance

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A. Introduction

This document outlines the step-by-step process involved in MOP for BIP_EXC Alarm Clearance.

B. PRECHECK

1. *Field support should be available with spare and remote access.*
2. *Need to check latest node backup availability in server.*
3. *Take the current configuration manually as a precautionary measure.*
4. *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.*
5. *Check the data received from authorized Transmission engineer for correctness & all essential data.*
6. *If Circle Head/ CR form does not approve the CR is not duly filled, CR should not be taken for execution.*
7. *Every Outage involve activity should be performed in Night Shift Only.*

8. *Need backup of Node where the activity is performed before any activity.*

9. *If any Critical/SA alarms, don't perform activity on the node and ask circle to clear the Alarm.*

10. *In case of latency, don't perform activity on the node*

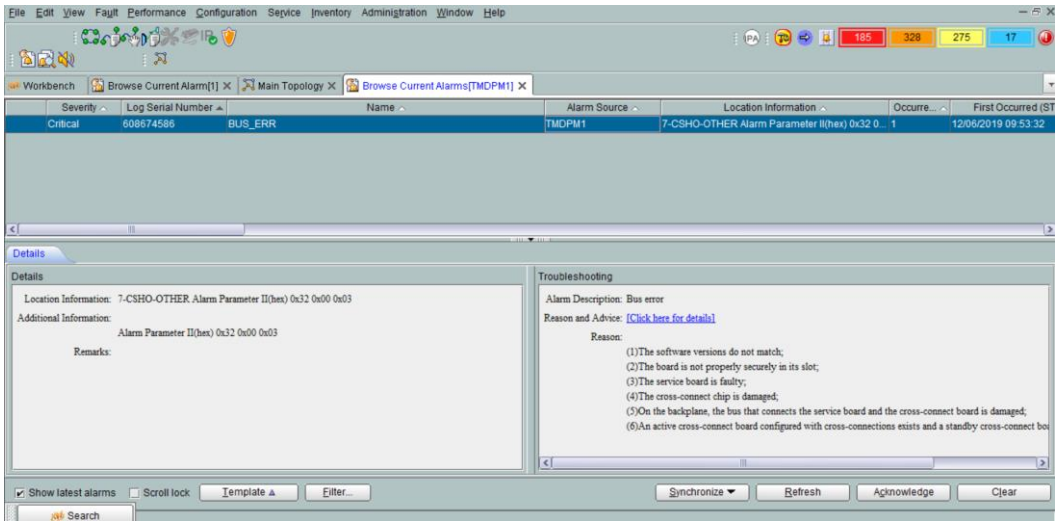
FOR BIP_EXC alarm clearance Activity: -

This is service impacting activity and node backup should be available of same SW version before carrying out the activity.

We must perform this activity in SA CR window with all required approval during partial outage.

- *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

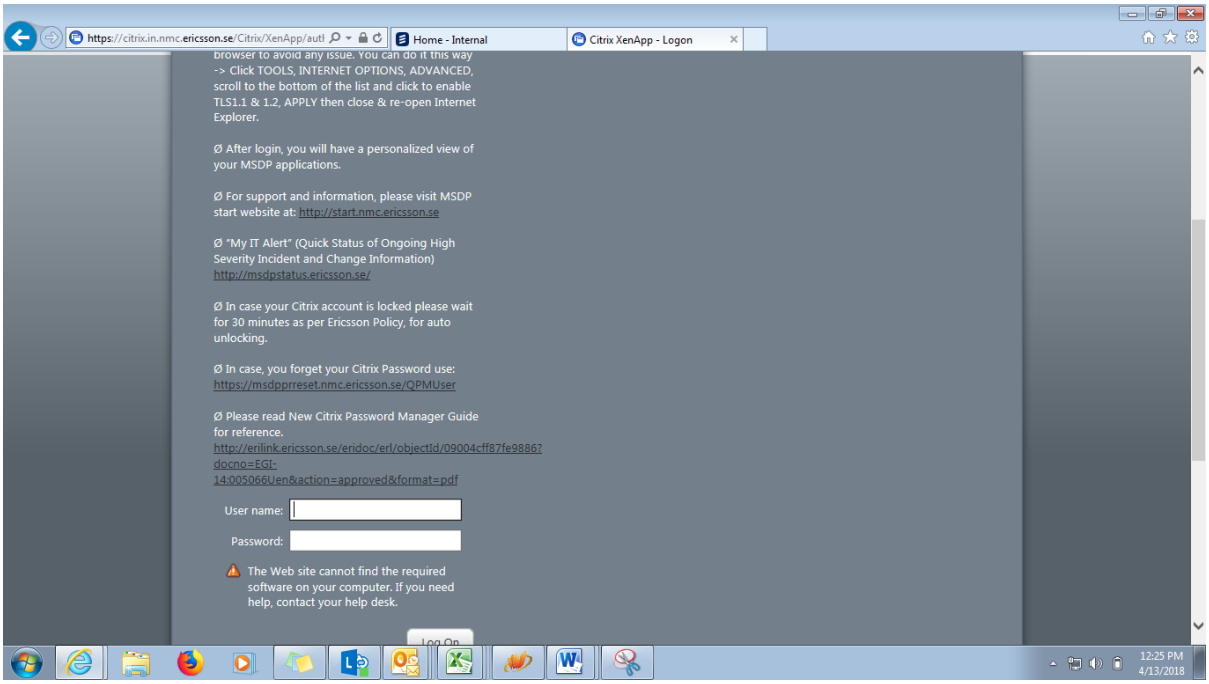


C. Procedure:

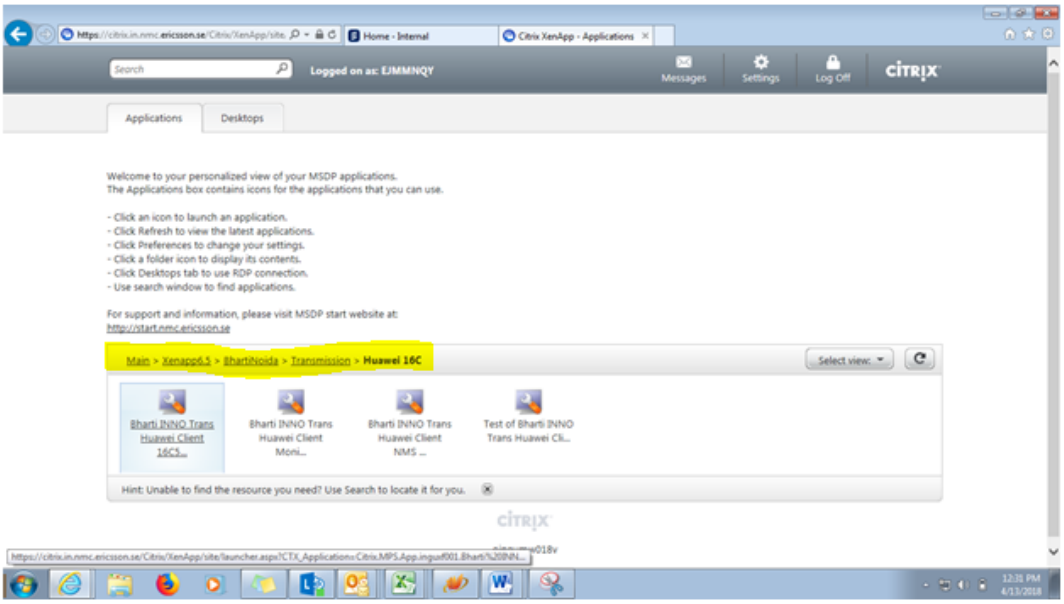
Steps for BIP_EXC Alarm Clearance: -

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

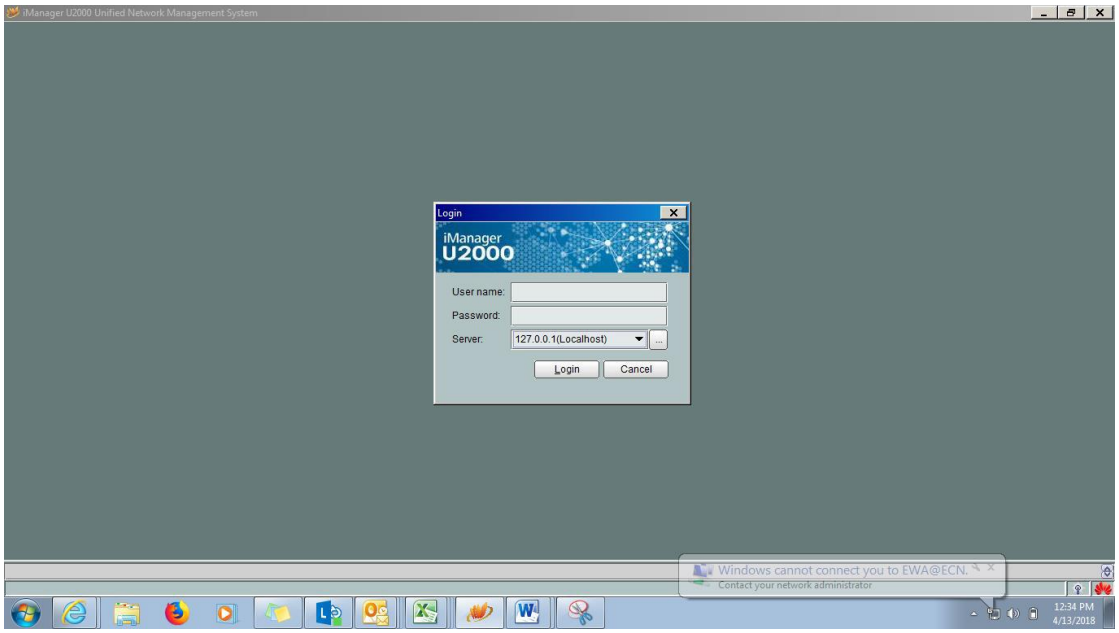
2. Provide CITRIX username and password.



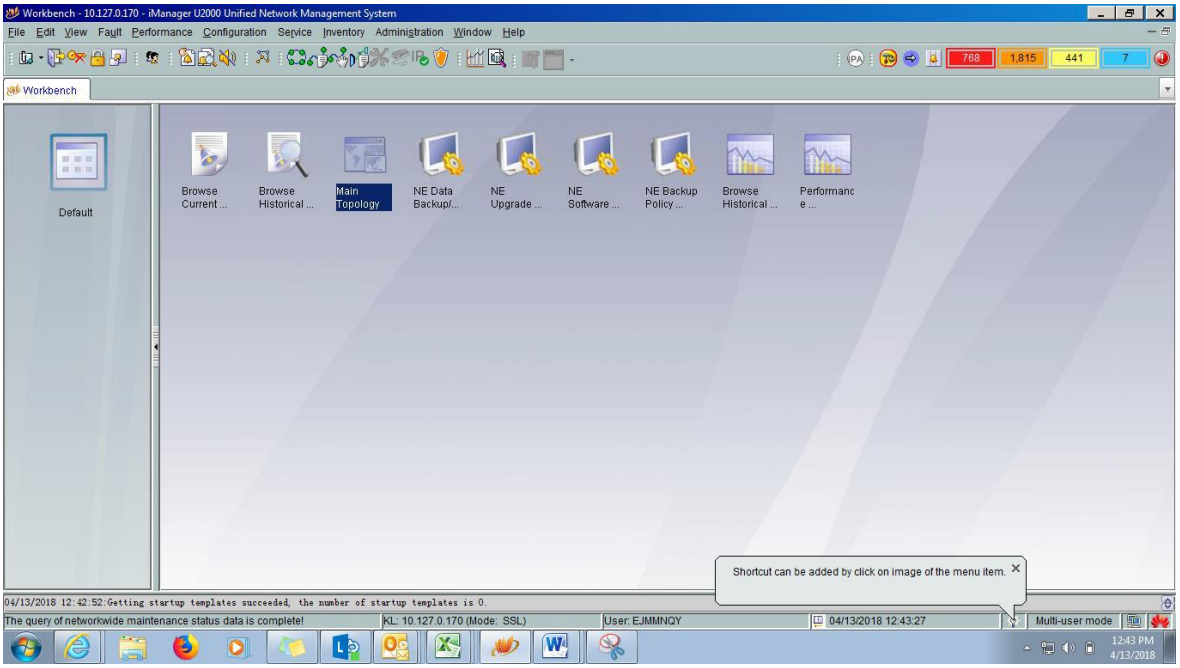
3. Click on "Xenapp6.5 >> BhartiNoida >> Transmission >> Huawei 16C/17C/18C >> Bharti INNO Trans Huawei client.



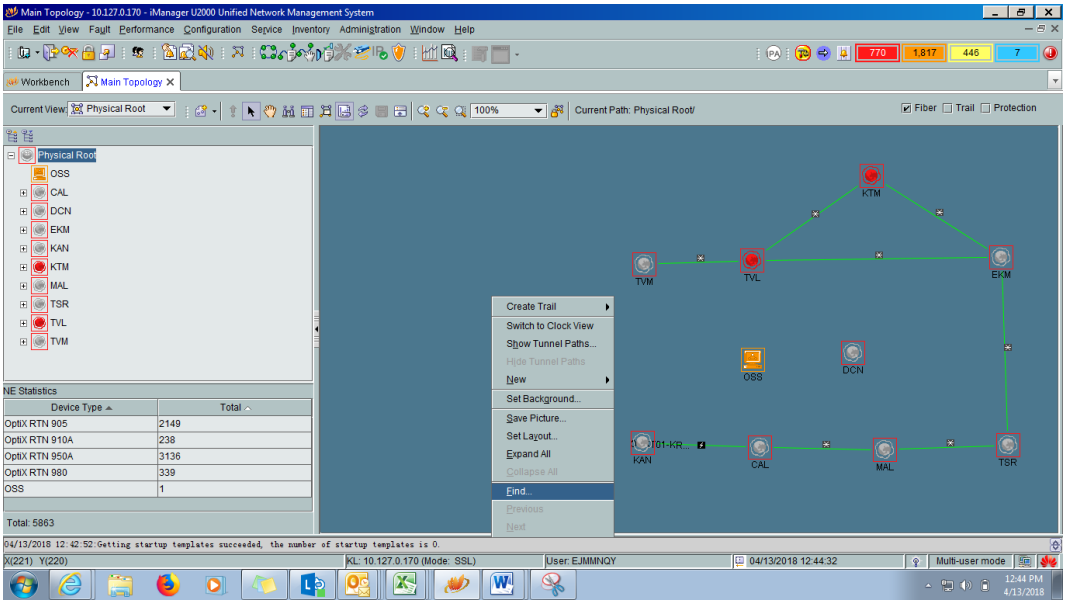
4. Now Huawei is launched enter the credentials and server IP of the circle must log in.



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



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



Principle:

The BIP_EXC is an alarm indicating that the BIP errors exceed the threshold. This alarm occurs when the board detects that the number of BIP-2 errors (in byte V5) exceeds the preset BIP_EXC alarm threshold (10-3 by default).

Impact and Restriction:

When the BIP_EXC alarm occurs, the service on the alarmed path is interrupted.

Possible Causes:

Cause 1: The line performance degrades (if the alarm is reported by an E1 service board)

Cause 2: The line performance degrades (if the alarm is reported by a Hybrid IF board)

Cause 3: The board is faulty (if the alarm is reported by an E1 service board)

Cause 4: The board is faulty (if the alarm is reported by a Hybrid IF board).

1. *Detailed Steps:*

Cause 1: The line performance degrades (if the alarm is reported by an E1 service board).

Check whether the performance degradation alarm occurs on the STM-1 path or radio link along which the E1 service signal travels. If yes, clear the alarm immediately.

The common line performance degradation alarms are as follows:

B1_EXC, B1_SD, B2_EXC, B2_SD, B3_EXC, B3_SD, MW_FEC_UNCOR, RPS_INDI, MW_BER_EXC, and MW_BER_SD.

If...	Then...
There is any of the preceding alarms	Clear the alarm immediately.
No such alarms occur	Ensure that the board is normal.

Cause 2: The line performance degrades (if the alarm is reported by a Hybrid IF board).

Check whether any alarm occurs on the tributary board or IF board that transmits the service signal. If yes, clear the alarm immediately.

Cause 3: The board is faulty (if the alarm is reported by an E1 service board).

Replace the board where the E1 service unit is located. Then, check whether the alarm is cleared.

If...	Then...
The alarm is cleared	End the alarm handling.
The alarm persists	Replace the system control and cross-connect board.

Cause 4: The board is faulty (if the alarm is reported by a Hybrid IF board).

Replace the Hybrid IF board. Then, check whether the alarm is cleared.

If...	Then...
The alarm is cleared	End the alarm handling.
The alarm persists	Replace the system control and cross-connect board.

D. Post Activity Health Check:

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

E. Fallback:

In case of configuration lost during troubleshooting we must restore the backup manually from the NMS if the management is not affected.

If the node management is lost, then we must carry out manual configuration via remote access.