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MOP for Ceragon E1/DS1 excessive BER on port Fault management

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A. Introduction

This document outlines the step-by-step process involved in Ceragon “MS-AIS/AIS-L on Radio Interface detected.”

B. PRE-CHECK

- *Node must be reachable then need to proceed to the next step else need to arrange filed support with local login accessories & spare hardware such LIC-T155 ACR.*
- *PCM path or end to end media path along with port details should be available.*

❖ *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.*

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Current Alarms before activity

IP20:-

#	Time	Severity	Description	User Text	Origin
1	14-01-2020 13:11:12	Red	Remote communication failure		Radio: Slot 5, Port 1
2	14-01-2020 13:11:05	Red	Radio loss of frame		Radio: Slot 5, Port 1
3	10-01-2020 15:55:02	Red	Loss-of-frames alarm on TDM service		STM-1/OC-3: Slot 10, Port 1, Instance 55
4	10-01-2020 15:55:02	Red	Loss-of-frames alarm on TDM service		STM-1/OC-3: Slot 10, Port 1, Instance 34
5	10-01-2020 15:55:02	Red	Loss-of-frames alarm on TDM service		STM-1/OC-3: Slot 10, Port 1, Instance 13
6	10-01-2020 15:53:49	Red	Loss Of Signal (LOS) on TDM-LIC TDM port		E1/T1: Slot 3, Port 3
7	10-01-2020 15:53:49	Red	Loss Of Signal (LOS) on TDM-LIC TDM port		E1/T1: Slot 3, Port 2
8	10-01-2020 15:53:49	Red	Loss Of Signal (LOS) on TDM-LIC TDM port		E1/T1: Slot 3, Port 1
9	10-01-2020 15:54:58	Yellow	Remote Defect Indication (RDI) received on TDM-LIC VC12VC11		STM-1/OC-3: Slot 10, Port 1, Instance 55
10	10-01-2020 15:54:58	Yellow	Remote Defect Indication (RDI) received on TDM-LIC VC12VC11		STM-1/OC-3: Slot 10, Port 1, Instance 34
11	10-01-2020 15:54:57	Yellow	Remote Defect Indication (RDI) received on TDM-LIC VC12VC11		STM-1/OC-3: Slot 10, Port 1, Instance 13
12	15-01-2020 09:50:34	Yellow	RFU RX level out of range		Radio: Slot 5, Port 1
13	10-01-2020 15:53:51	Yellow	E1/DS1 Unexpected signal on TDM-LIC TDM port		E1/T1: Slot 3, Port 7
14	10-01-2020 15:53:51	Yellow	E1/DS1 Unexpected signal on TDM-LIC TDM port		E1/T1: Slot 3, Port 6
15	10-01-2020 15:53:51	Yellow	E1/DS1 Unexpected signal on TDM-LIC TDM port		E1/T1: Slot 3, Port 5

IP10:-

Date & Time	Severity	Module	Description
03-Jan-20 01:47:50	Red	IDU	Radio loss of frame
14-Dec-19 16:44:01	Red	IDU	Remote communication failure
03-Jan-20 01:47:50	Red	IDU	Gigabit Ethernet loss of carrier on port #1
30-Oct-19 11:57:41	Yellow	IDU	Fan failure
14-Dec-19 16:43:49	Yellow	RFU	Tx mute
14-Jan-20 08:10:10	Yellow	RFU	Rx level out of range
15-Jan-20 09:20:12	Yellow	IDU	IDU extreme temperature conditions

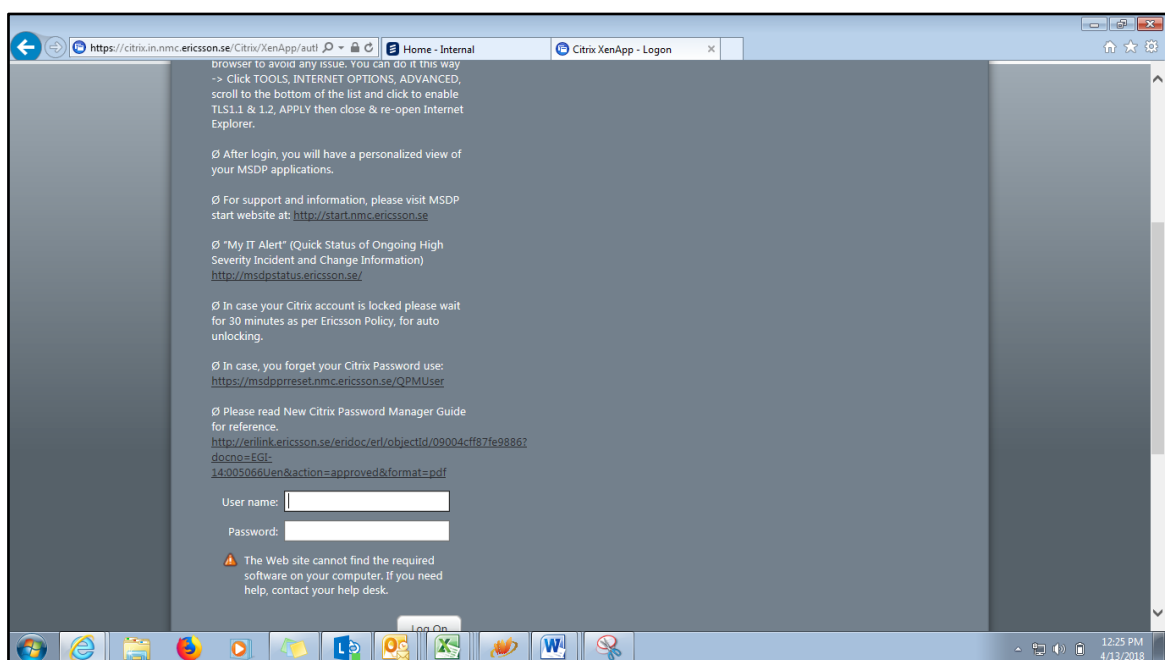
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C. Procedure:

STEPS FOR Ceragon alarm “MS-AIS/AIS-L on Radio Interface detected.” Clearance

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



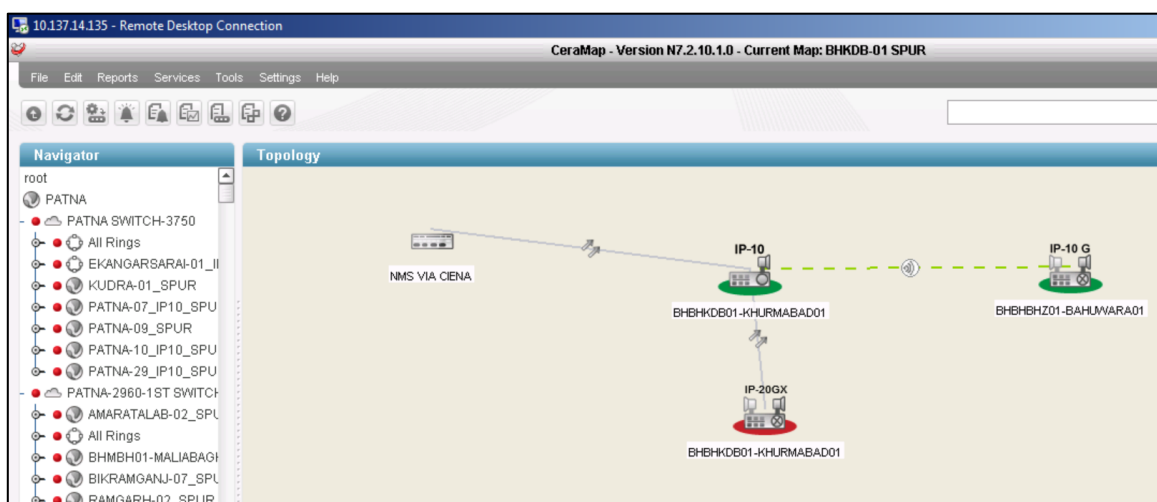
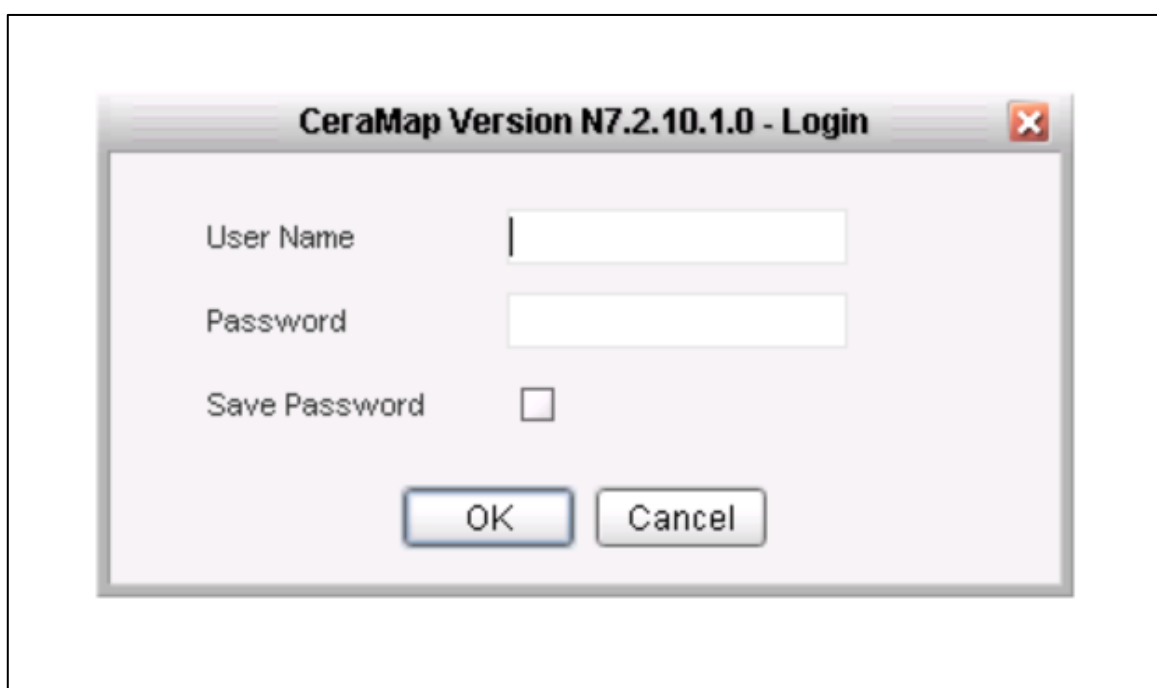
- **Click on Main > Xenapp6.5 > Bharti Noida >Bharti INNO Remote Desktop Client.**



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- **Now login the RDP with RDP IP & credentials.**
- **Launch the Cera map & login with credentials.**



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- ***Search the required Node ID in Cera Map & open the node by clicking on Open Node GUI.***
- ***Login Ceragon NODE locally via web browser through IP.***
- ***Provide IDU username and password.***

Slot 1 X 10.204.211.212 - Login X 10.64.140.35 - JHCSN01: New Session X 10.64.59.36

10.204.211.212

Login

User Name

Password

Apply Clear

Principle:

The MS-AIS/AIS-L on Radio Interface indicates STM ports traffic down.

Possible Causes:

1) Remote STM-1/OC-3 signal is missing (LOS/LOF/MS-AIS/AIS-L on remote STM-1/OC-3 interface).

2) STM-1/OC-3 Channel removed due to reduced radio capacity on remote side.

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Steps for alarm clearance:

- **For IP-10**
- **If any such alarm observed in Alarm window,**
- **We need to check the SFP/ Patch card and Back-end equipment.**
- **We can JOJI the SFP (if it is not inbuild) and change the patch chord.**

- **For IP20**
- **If any such alarm observed in IP20 current alarm window.**
- **We can reset(enable/disable) the interface.**
- **Change the SFP and patch chord respectively.**
- **Don't try to loop the SFP by patch chord TX/RX. It can damage the SFP with proper attenuator.**

- **Following above activity if alarm not get cleared it means node is not receiving signal from Backend.**

D. Post Activity Health Check:

Need to check the service status & E1 related alarm.

E. Fall Back Procedure: -

NA