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Ericsson Internal		Method of Procedure	1 (7)
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Document Number	Revision	Date	Reference
		2020-3-27	



MOP for Ceragon Excessive BER on TDM-LIC STM1/OC3 port Fault management

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A. Introduction

This document outlines the step-by-step process involved in Ceragon Signal Degrade on TDM-LIC VC12/VC11 fault management

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, SFP, Patch chord.*

❖ *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:-

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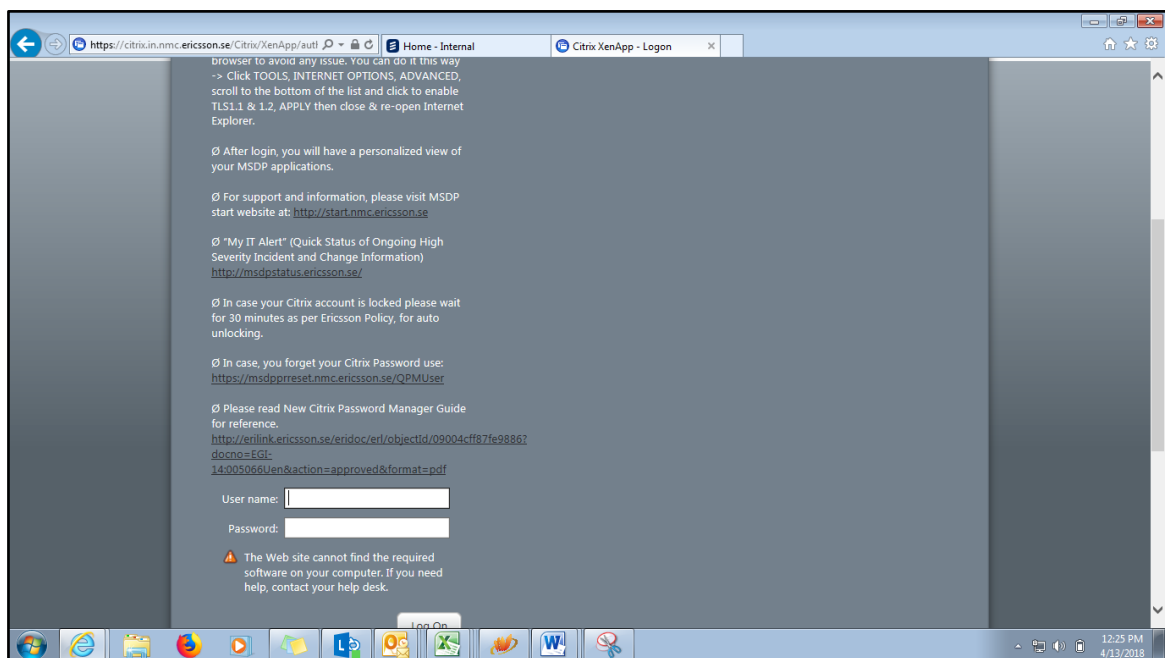
Date & Time	Severity	Module	Description
03-Jan-20 01:47:50	High	IDU	Radio loss of frame
14-Dec-19 16:44:01	High	IDU	Remote communication failure
03-Jan-20 01:47:50	High	IDU	Gigabit Ethernet loss of carrier on port #1
30-Oct-19 11:57:41	Medium	IDU	Fan failure
14-Dec-19 16:43:49	Low	RFU	Tx mute
14-Jan-20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

C. Procedure:

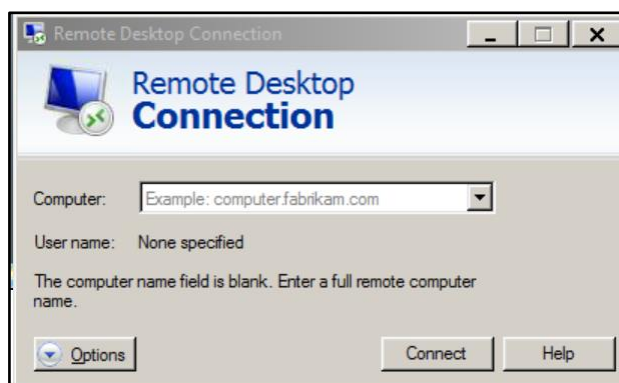
STEPS FOR Ceragon Signal Degrade on TDM-LIC VC12/VC11 alarm clearance

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

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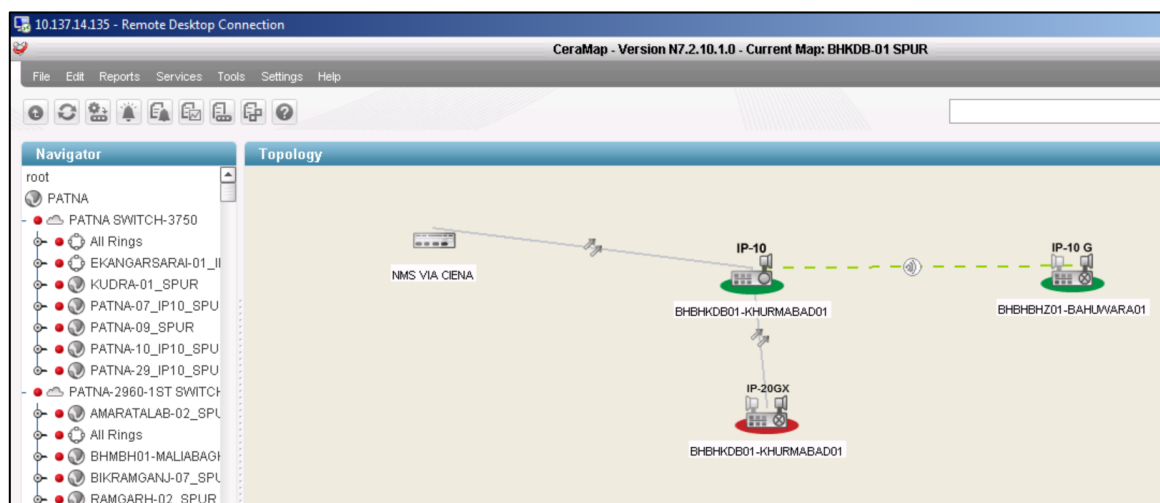
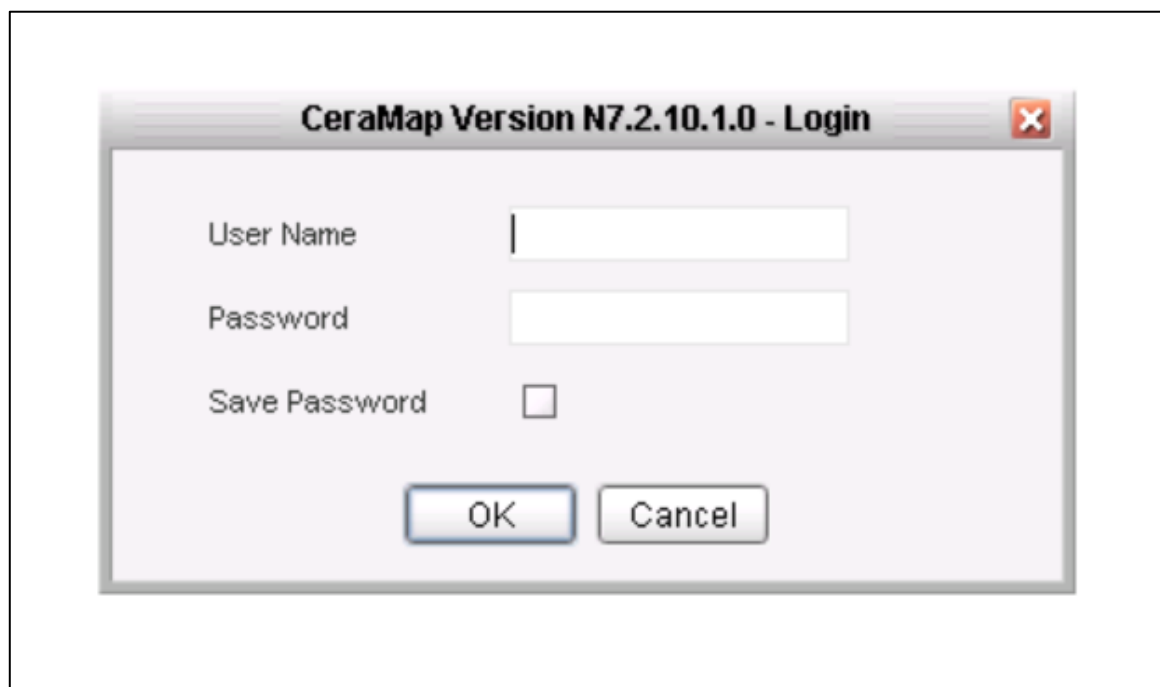


- ***Click on Main > Xenapp6.5 > Bharti Noida > Bharti INNO Remote Desktop Client.***



- ***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.**

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Principle:

The Signal Degrade on TDM-LIC VC12/VC11 indicates that STM (TDM LIC -155 ACR) card is down.

Possible Causes:

- 1) Line (Patch chord) is not properly connected.**
- 2) SFP is not properly installed.**
- 3) SFP is faulty.**
- 4) External equipment is faulty**

Steps for alarm clearance:

For IP-10 and IP-20 node both

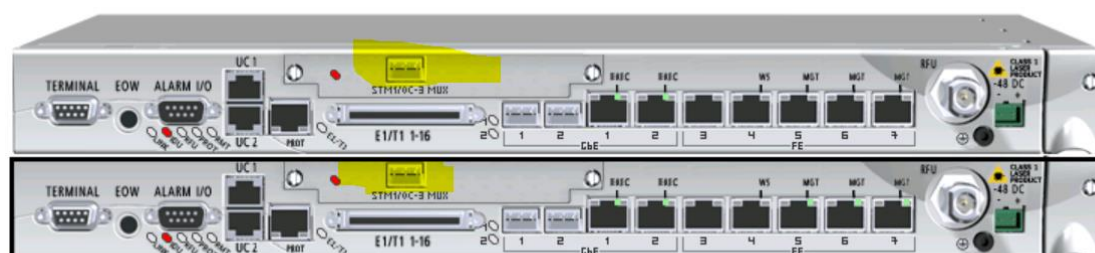
- 1) Install SFP properly.**
- 2) Reconnect line. i.e. (Patch chord JOJI)**
- 3) Check line cables. i.e. (Patch chord should not be bend sharply)**
- 4) Check external equipment. i.e. Back end media like Ciena or BTSOL**
- 5) Reset the TDM-LIC. i.e. Chord reset.**

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IP-10

Main View - MA4953



Refresh

IP-20



- *If alarm not cleared after following above mentioned step's then first check the backend if it's OK then change hardware.*

D. Post Activity Health Check:

Need to check the service status & STM related alarm.

E. Fall Back Procedure: -

NA