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Ericsson Internal			1 (7)
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LAG is not fully functional - LAG Degraded- CERAGON

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A. Introduction

This document outlines the step-by-step process involved in Ceragon LAG is not fully functional - LAG Degraded- CERAGON Alarm Fault management.

B. PRE-CHECK

- *If node is reachable then need to proceed to the next step else need to arrange filed support with spare hardware such ETH card and tested login accessories.*
- *PCM path or end to end media path along with V-LAN & port details should be available.*
- *Keep configured LAG snapshot backup before performing any activity.*
- *LAG is not fully functional - LAG Degraded in alarm window*

❖ *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:-

#	Alarm ID ▲	Severity	Description	Additional Te
+	2	100	LAG is not fully functional - LAG Degraded	

CERAGON

Logout Connect

JHBBH01: Current Alarms

Related Pages

Filter

Unit Summary

Radio Summary

Platform

Faults

Current Alarms

Alarm Statistics

Event Log

Alarm Configuration

TDM

Radio

Ethernet

Cascading

Sync

Quick Configuration

Utilities

Current Alarms

#	Time	Severity	Description	User Text	Origin
1	14-01-2020 13:11:12	Red	LAG is not fully functional - LAG Degraded	service	STM-1/OC-3 Slot 10, Port 1, Instance 34
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 VC12/VC11		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 VC12/VC11		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 VC12/VC11		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

C. Procedure:

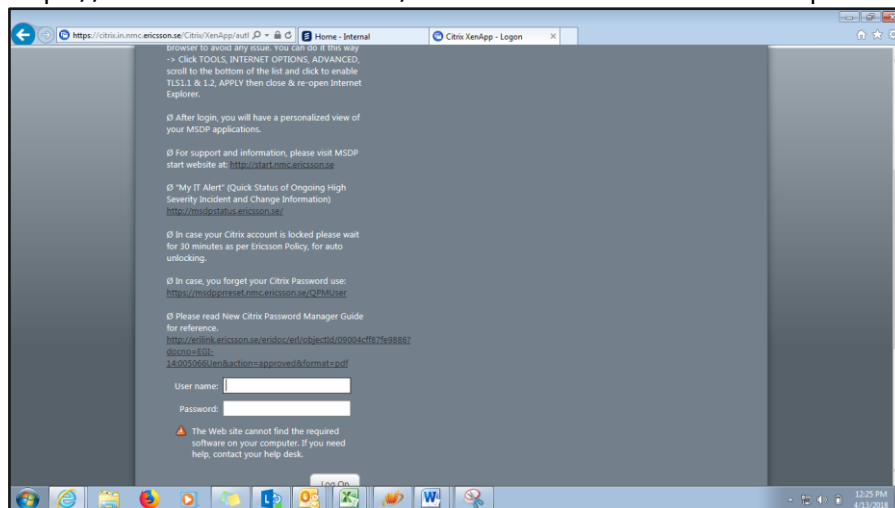
STEPS FOR Ceragon Radio loss of frame alarm clearence

1. Login MSDP through below mentioned link.

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<https://citrix.in.nmc.ericsson.se/> Provide CITRIX username and password.



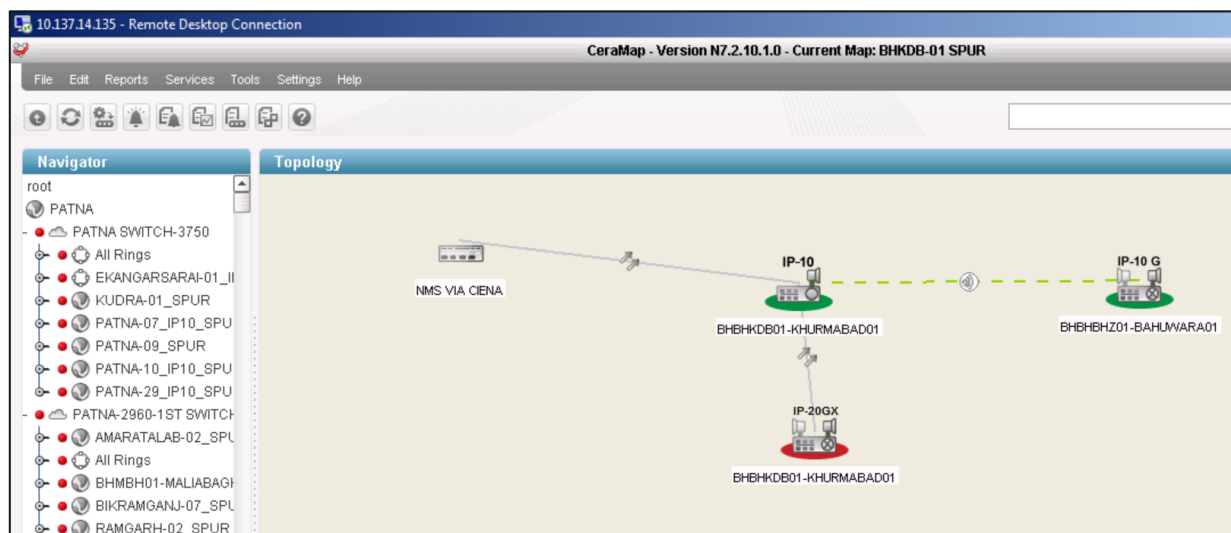
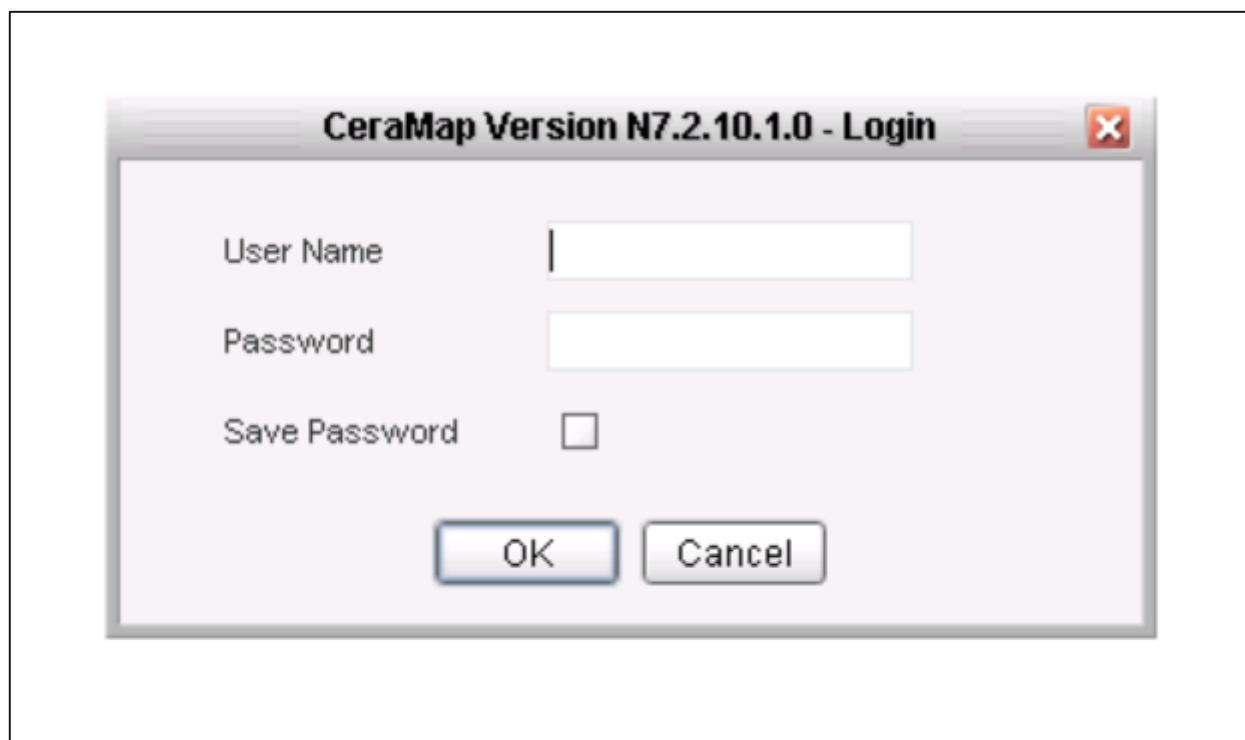
2. Click on Main > Xenapp6.5 > Bharti Noida > Bharti INNO Remote Desktop Client.



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

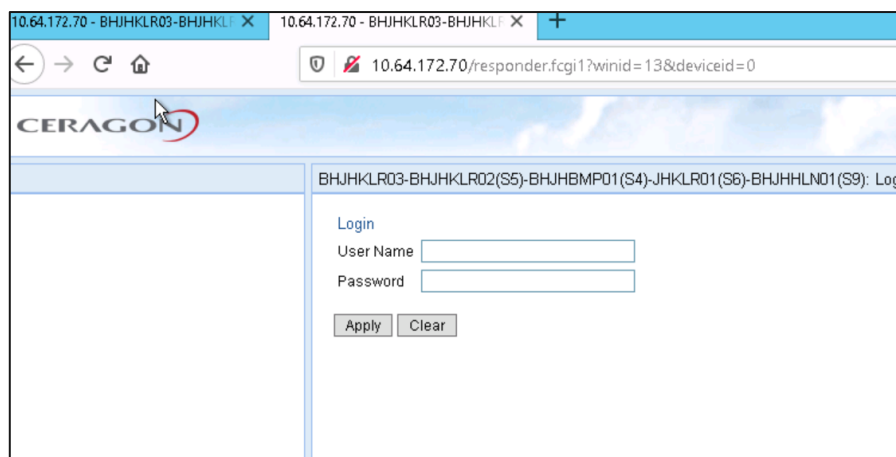
4. Launch the Cera map & login with credentials.

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5. Search the required Node ID in Cera Map & open the node by clicking on Open Node GUI.
6. Login Ceragon IP20 NODE locally via web browser through IP.
7. Provide IDU username and password.

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Principle:

The LAG is not fully functional - LAG Degraded alarm indicates LAG Service is down.

Traffic Impact:

When LAG is not fully functional - LAG Degraded, the ETH services that travel along this path interrupted.

- Steps for troubleshooting

1. Check current alarm on node "below must be there"

#	Alarm ID ▲	Severity	Description	Additional Te
+	2	100	LAG is not fully functional - LAG Degraded	

2. Probable cause

- At least one interface is not connected or configured to admin down.

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- b. If one of the members is radio it might be in operational state down due to channel fading

3. Corrective Actions

- Reconnect all LAG members
- Configure the admin of all LAG members to be Up
- If one member is radio, check its operational state

Example: - ideal condition Lag admin should up

▼ Link Aggregation

<input type="checkbox"/>	Group Location ▲	LACP	Member 1	Member 2
<input type="checkbox"/>	LAG: Group #1	Enable	Ethernet: Slot 2, Port 1	Ethernet: Slot 2, Port 2

Create Group Edit Delete LAG DF

▼ Interface Manager

<input type="checkbox"/>	Interface location ▲	MAC address	Admin status	Operation
<input type="checkbox"/>	Ethernet: Slot 2, Port 1	00:0A:25:B4:BC:E6	Up	Up
<input type="checkbox"/>	Ethernet: Slot 2, Port 2	00:0A:25:B4:BC:E7	Up	Up

Both port of group member EXP:- ETH S2P1 & ETH S2P2 should be operational up.

If every thing is ok and still alarm not cleared need to do following activity.

- ETH cable needs to check and change.
- ETH port/ETH card needs to change (to change port Please follow **MOP for LAG creation**).
- If issue not resolved need to raise case with backend media.
- If issue still not resolve need to raise care case to CERAGON.

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D. Post Activity Health Check:

Need to Check alarm will be clear and services also restored after confirmation from all stakeholders. If alarm not cleared and link is still down after following all procedure, raise care case to OEM Ceragon.

E. Fall Back Procedure: -

No fall back requird