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# Degraded functionality in LAG #1

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## A. Introduction

This document outlines the step-by-step process involved in MOP for Ceragon LAG Member degraded 1 Using Ceragon Server

### **Description**

The LAG\_MEMBER\_DEGRADED is an alarm indicating that a member port of a link aggregation group (LAG) is unavailable. This alarm occurs when a member port of a LAG can neither be activated nor function as a protection port.

### Impact on the System

The port in the LAG cannot share the service load, and the port does not transmit or receive any services.

### **Possible Causes**

- Cause 1: The port link is faulty or disabled.
- Cause 2: The port receives no LACP packets.
- Cause 3: The port works in half-duplex mode or not in Auto-Negotiation mode.
- Cause 4: The port is self-looped

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#### 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.

### Current Alarms before activity

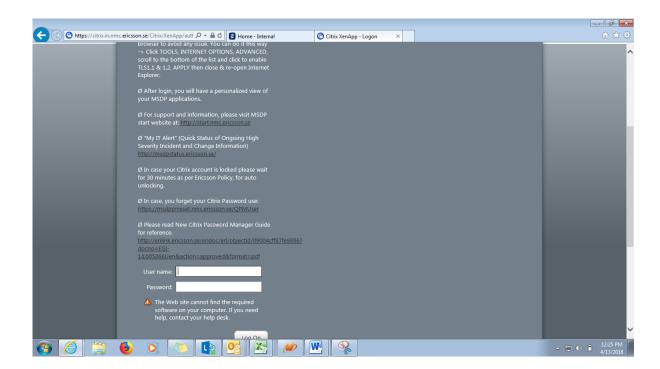
### A. Procedure:

# STEPS FOR LAG configuration activity:-

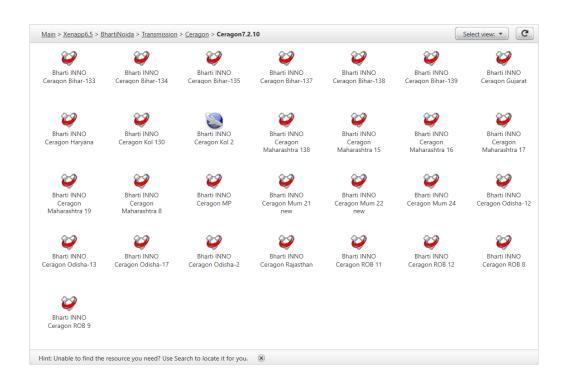
- 1. Login MSDP through below mentioned link. https://citrix.in.nmc.ericsson.se/
- 2. Provide CITRIX username and password.

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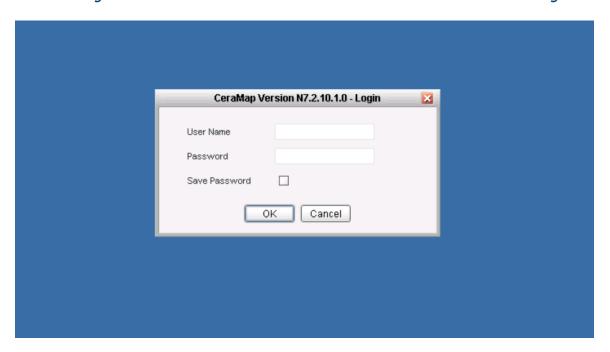
# 3. Click on "Xenapp6.5 >> Main > Xenapp6.5 > BhartiNoida > Transmission > Ceragon > Ceragon7.2.10



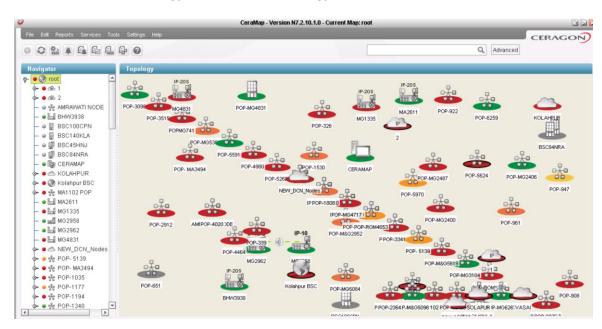
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# 4. Now Ceragon is launched enter the credentials and server IP of the circle must log in.



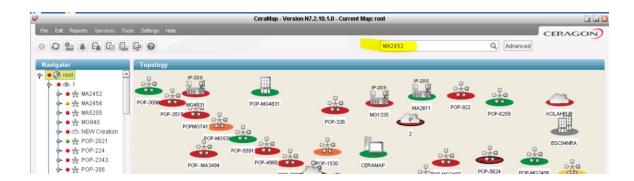
# 5. Click on "Main Topology" to open the Topology.



6. Type node name/IP to "FIND" to find the node.

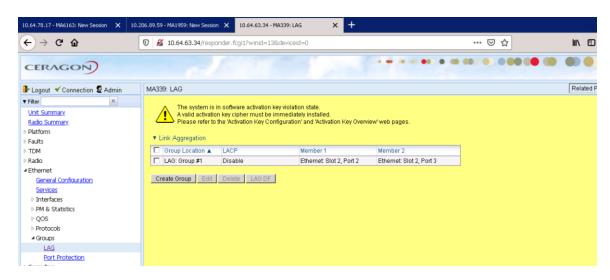
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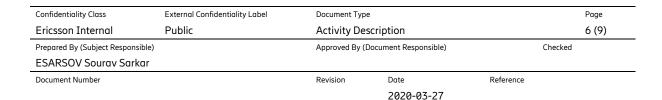


# 7.Login near and far end both nodes and take snapshot of TX Power, RSL and frequency and Current Modulation

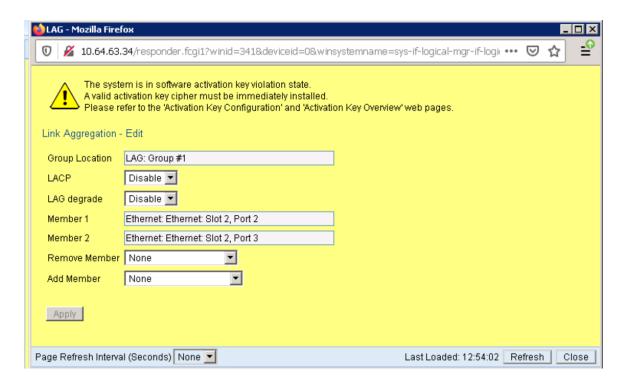
1. Select Ethernet-> Groups -> LAG



2. Select Create group -> Member 1 -> select Eth port 1 -> Member 2 -> select ETH port 2 -> then finish

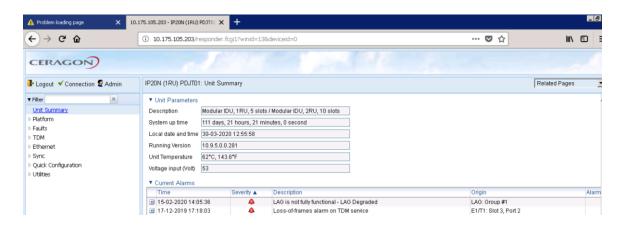






LACP configuration port setting according to Plan, and then apply OK.

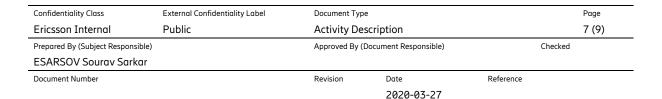
### 3, Select NODE -> Faults -> Go Current alarm >



Determine the alarmed port and the cause of the alarm according to the alarm parameters.

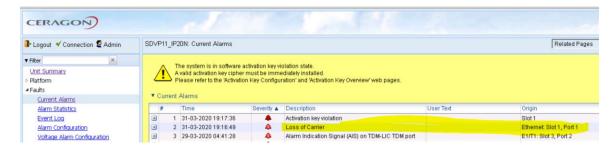
Cause 1: The port link is faulty or disabled.

Corrective Action: Need to change the port if not resolved go to step 2





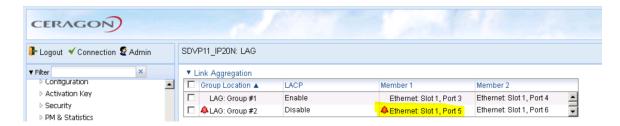
### Select Node->Fault-> Go Current alarm



Select Node->Platform->Interface Manager->



Select Node->Ethernet->Groups->LAG to check the LAG status.



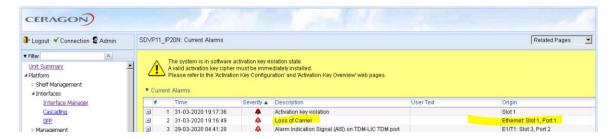
Cause 2: Check the link status of all ports and check whether the ETH\_LOS alarm is reported

Corrective Action: If ETH\_LOS alarm found need to clear the same.

Select Node->Fault-> Go Current alarm

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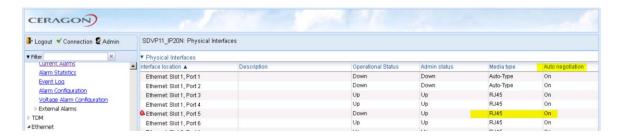
Cause 3: The port works in half-duplex mode or not in Auto-Negotiation mode.

Corrective Action: Need to check port settings and correct the same.

# Select Node->Ethernet->Interfaces->Physical Interfaces



Select Node->Platform->Interface Manager->



Cause 4: The port is self-looped.

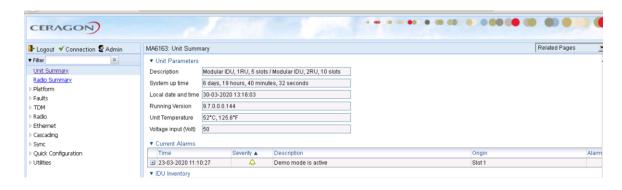
Corrective Action: Need to remove loop.

### A. Post Activity Health Check:

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



### A. 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.

<u>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"</u>