

Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	1 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



Remote Defect Indication (RDI) received on TDM-LIC VC12/VC11

Table of contents:

A	Introduction
B	Pre-check
C	Procedure
D	Post Activity Health check
E	Fall Back Procedure

A. Introduction

This document outlines the step-by-step process involved in Ceragon Remote Defect Indication (RDI) received on TDM-LIC VC12/VC11

RDI is a special type of alarm signal that a Network Element (within a Telecom/Datacom application) will generate and transmit (back towards upstream Network Equipment) anytime it detects some sort of servicing-affect defect within the signal from that same upstream Network Equipment.

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-T16 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.*

Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	2 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



Current Alarms before activity

IP20 & IP10:-

#	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 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

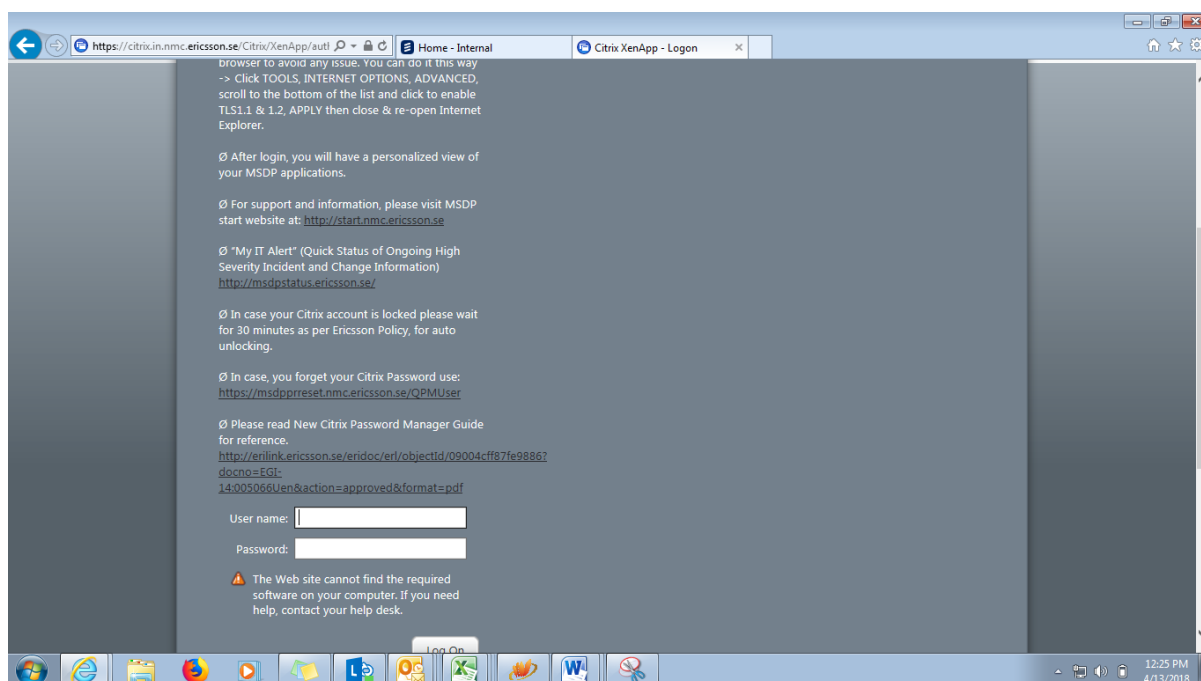
A. Procedure:

STEPS FOR Ceragon Remote Defect Indication (RDI) received on TDM-LIC VC12/VC11

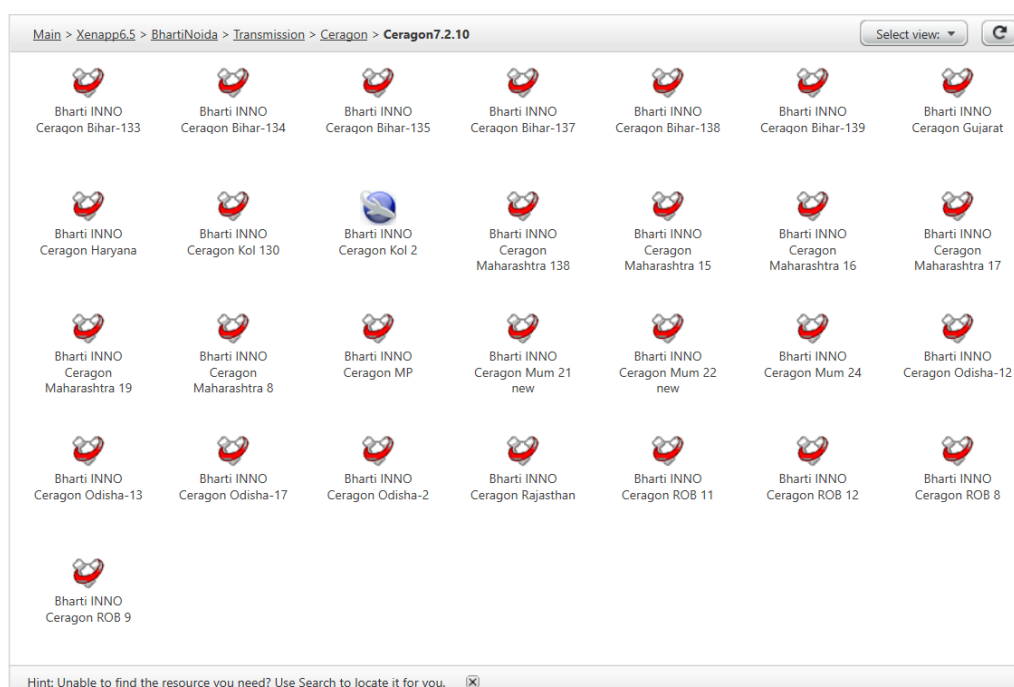
STEPS FOR LAG configuration activity:-

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

Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	3 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



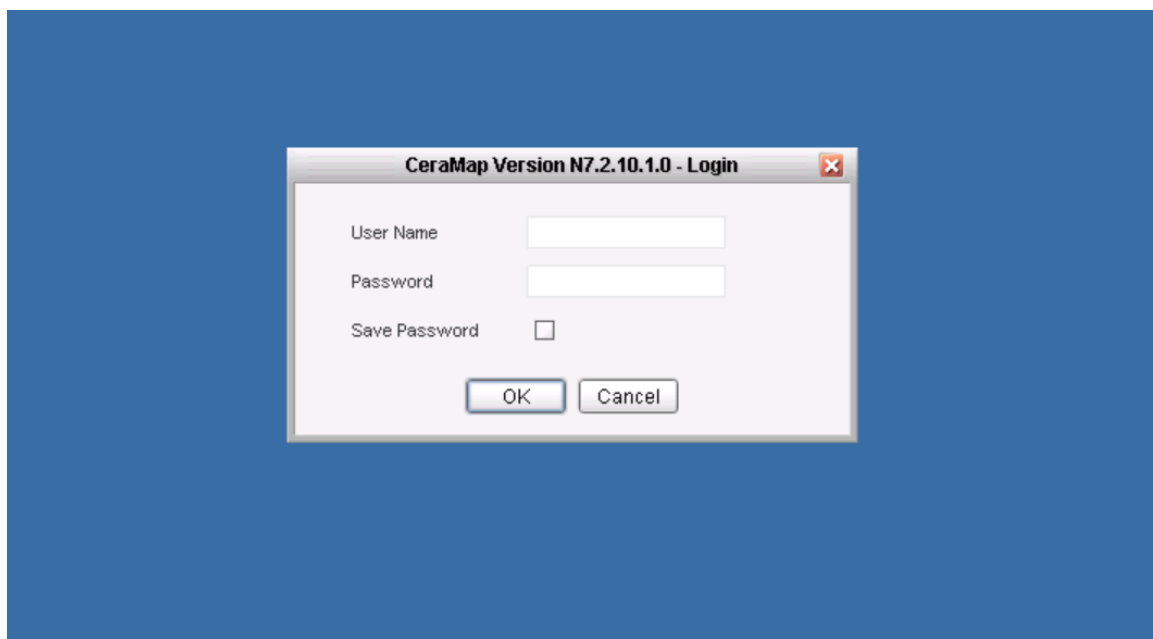
3. Click on "Xenapp6.5" > Main > Xenapp6.5 > BhartiNoida > Transmission > Ceragon > Ceragon7.2.10



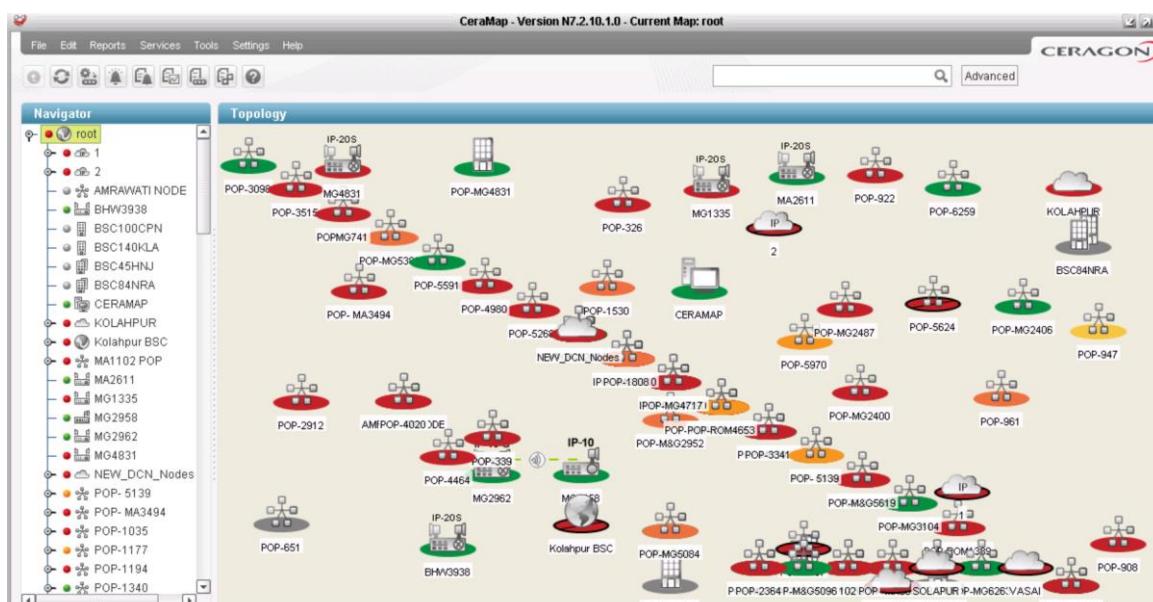
Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	4 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



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

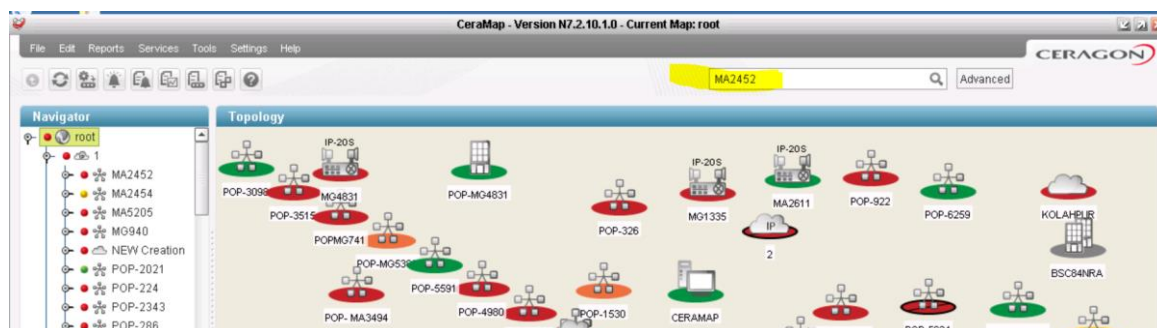


5. Click on "Main Topology" to open the Topology.



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

Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	5 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



- *Provide IDU username and password.*

Slot 1 X

10.204.211.212 - Login X

10.64.140.35 - JHCSN01: New Sessio X

10.64.59.36

10.204.211.212

CERAGON

SDVP11_IP20N: Login

Login

User Name

Password

Apply

Clear

Principle:

Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	6 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



Remote Defect Indication (RDI) received on TDM-LIC VC12/VC11 alarm indicates STM port particular VC is down.

Possible Causes:

1. *Line is not properly connected*

A>Reconnect line

B>Check line cables.

2. *External equipment is faulty*

A> Check external equipment

B>Power cycle the TDM-LIC.

Steps for alarm clearance:

Stated differently, the Network Element (NE) will transmit the RDI indicator (upstream) at the same time (and under the same conditions) that it will transmit the AIS signal downstream.

- *For IP-10 Go to Diagnostics and maintenance>Loopback>SDH Line.*
- *For IP20 Select Card, Click on edit & Loopback type towards system then apply*

IP10:-

- *For IP-10 Select Loopback towards radio then apply.*

10.64.153.75 - Main View - BHSBB0 X 10.64.79.104 - PDH Line - Slot 1 X Problem loading page X 10.203.198.150 - Main View

← → ↺ 🏠 10.64.79.104

CERAGON

Logout Admin Connection **PDH Line - Slot 1**

Search for page Go

- Main View - Slot 1
- Faults
- PM & Counters
- Configuration
 - General
 - Ethernet Switch

Line Loopback

Timeout (minutes) 100 (0..1440)

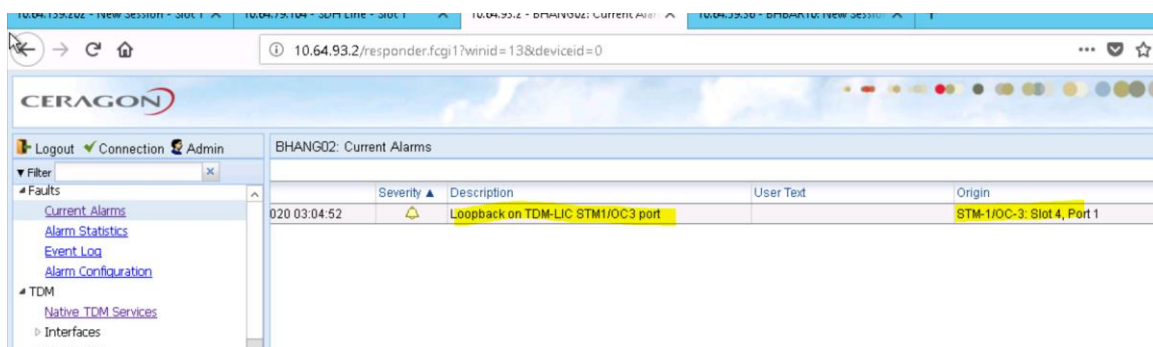
Name	State
E1 #1 loopback	Loopback towards radio
E1 #2 loopback	Off
E1 #3 loopback	Off

Confidentiality Class	External Confidentiality Label	Document Type	Page
Ericsson Confidential		Activity Description	7 (7)
Prepared By (Subject Responsible)	Approved By (Document Responsible)	Checked	
ESARSOV Sourav Sarkar			
Document Number	Revision	Date	Reference
		2020-03-30	



IP20:-

For IP20 Go to TDM > Diagnostics>SDH/SONET>STM-1/OC-3 Ch. Loopback



- **If alarm cleared then need to check hard loop from field on STM/Electrical E1 port**
If alarm also cleared during hard loop then need to replace patching cable or check connected equipment.
- **If alarm not cleared during Soft/Hard Loop then need to change slot /card/patching cable and E1 port.**

A. Post Activity Health Check:

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

B. Fall Back Procedure: -

NA