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Abhisek De					
Approved	Checked	Date	Rev	Reference	
		21-01-2020	Ver1.0		

MOP of High BER of Ethernet Port (198097684) for ZTE Site

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Activity Description

This activity is for E2E troubleshooting and alarm clearance of High BER of ethernet port(198097684).

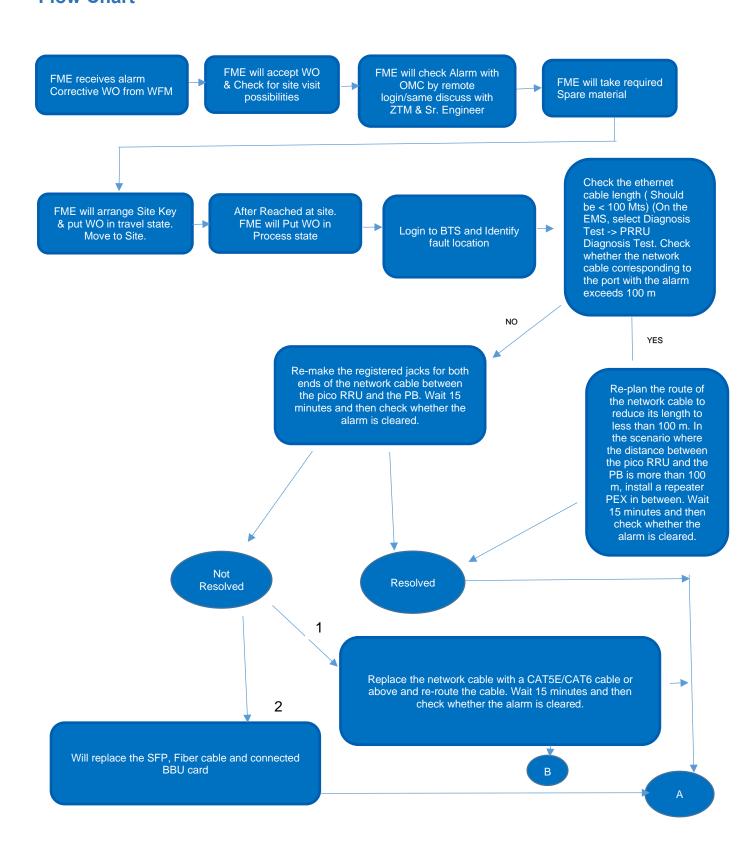
Attached is the details to be followed. As this need to be followed as guideline.

Alarm Name	High BER of ethernet port(198097684)
Alarm Description	Bit error rate exceeded threshold IN PICO RRU (Q-Cell).
Possible Causes –	1. The length of the network cable exceeds 100 m.
arrange in logical	2. The registered jacks of the network cable are not well crimped.
order	3. The rate of the network cable does not match that of the electrical port.



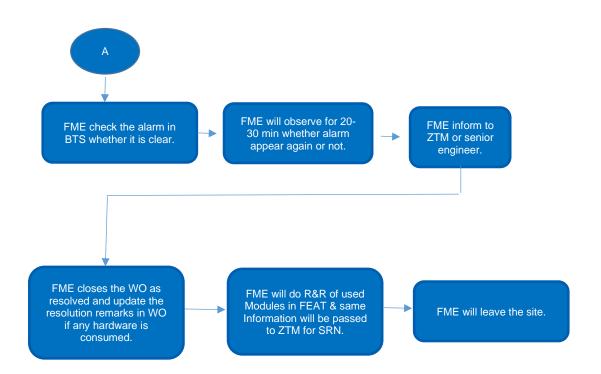
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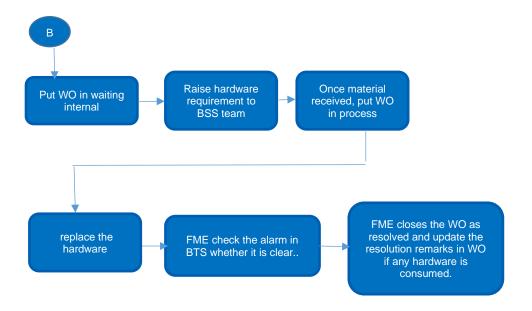
Flow Chart





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Activity Summary

1	Corrective WO of alarm is received on WFM portal
2	FME will Accept the WO
3	Put WO in travel
4	After reaching site - put WO in process
5	Login the BTS & Check alarm status and fault location
6	Will troubleshoot alarm as per MOP
7	FME will check in BTS (Alarm cleared or not)
8	If cleared, then Put WO in closed state
9	If not cleared, then check either hardware faulty
10	Put Work order in Waiting internal if any HW Req at site
11	Raise Req of Hardware to BSS Team
12	Once Material received again put WO in Travel mode
13	After reaching site - put WO in process
14	Replace the hardware
15	Check from BTS Login that alarm cleared or not after hardware replaced
16	Once Alarm Cleared
17	FME will close the WO as resolved



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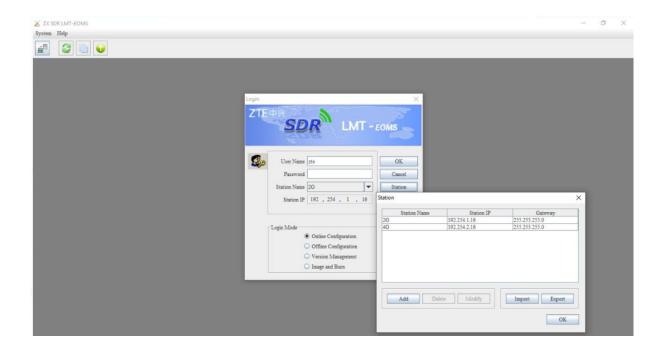
Activity Details

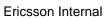
Pre requisites:

- 1) SVD WO for High BER of ethernet port(198097684).
- 2) Alarm on OneFM/Netnumen/WFM.

Case: High BER of ethernet port(198097684) alarm on 1 cell

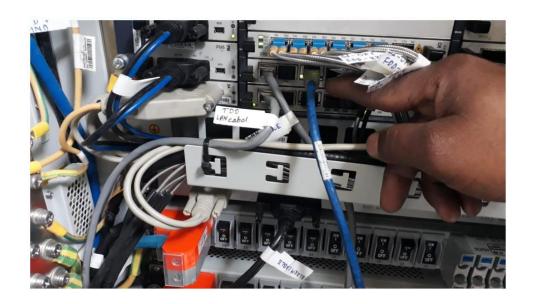
A) Login in 2G BBU/ enodeb as per RAN MOP via ZX SDR LMT OEMS connect using LAN cable





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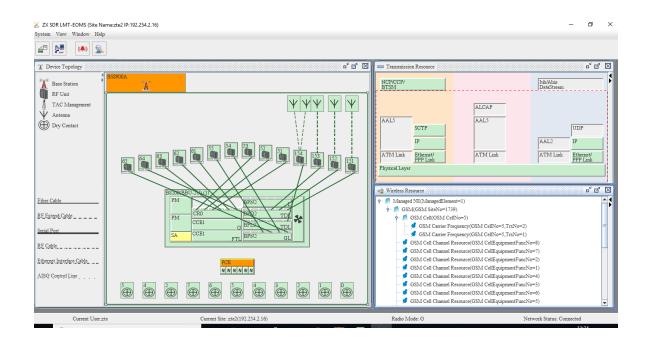
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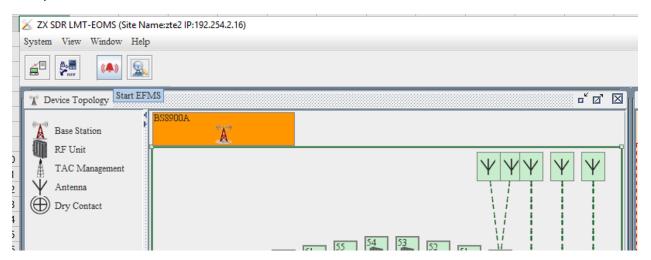








a) Start EFMS to view alarm window



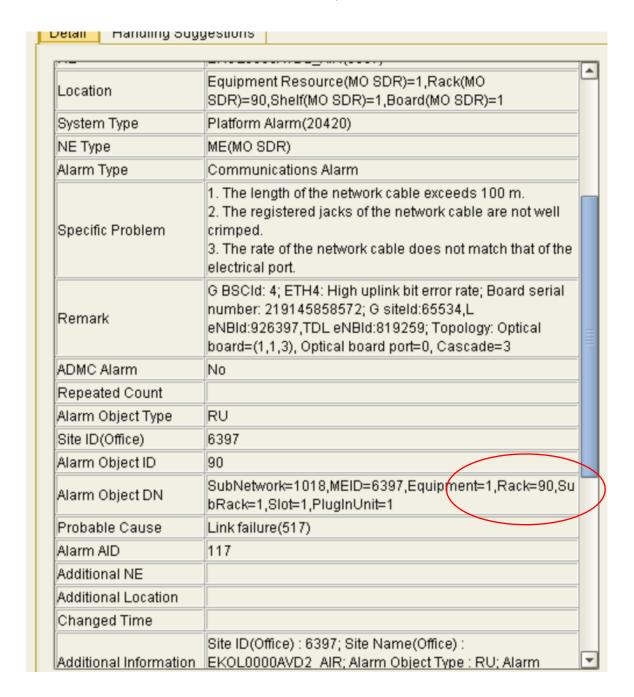
b) Double click on the alarm to check the alarm description or can check from netnumen.





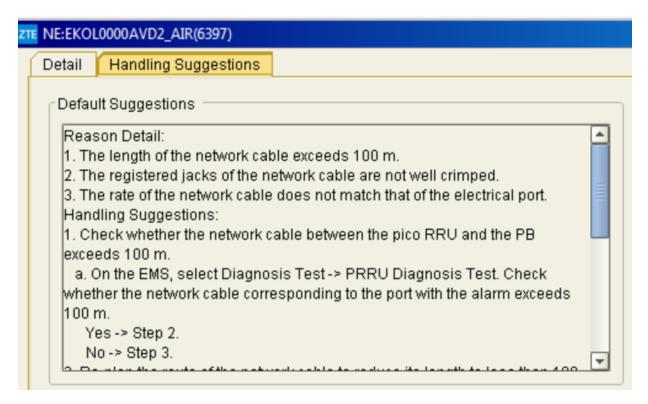
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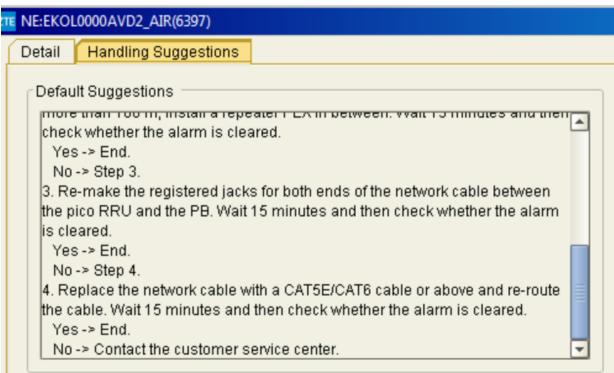
c) Click on the solution tab to check the check the probable cause





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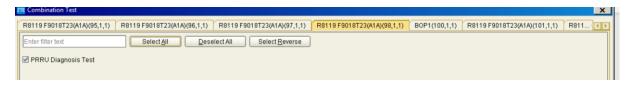




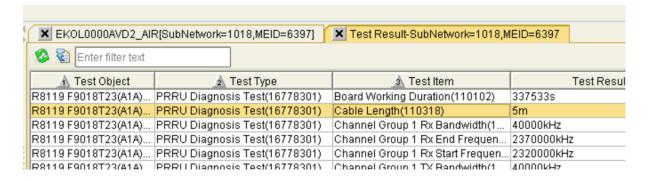


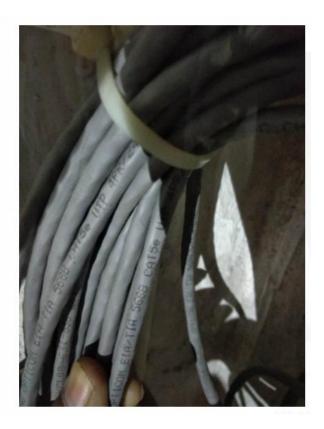
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 d) On the EMS, select Diagnosis Test -> PRRU Diagnosis Test. Check whether the network cable corresponding to the port with the alarm exceeds 100 m.
 Select all PICO RRU of BOP1(90,1,1)



Check the cable length:-







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- e) Re-make the registered jacks for both ends of the network cable between the pico RRU and the PB
- f) Replace the network cable with a CAT5E/CAT6 cable or above and re-route the cable.
- g) Replace the SFP, Fiber cable and connected BBU card.
- h) Check in EFMS/OneFM/Netnumen whether alarm cleared or not.





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Post Analysis

Step No.	Step Name/Step Type	Command	Field	Mandatory (Y/N)	Expected Value
1	FME will check at One FM/Netnumen after 30 minutes to check alarm	As per attached MOP in traffic check status step -Refer RAN MOP	RAN	Y	As per MOP
2	BSS Team will check after 24 hrs if alarm has reappeared				