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Rahul Sharma & Ankur Sharma				
Approved	Checked	Date	Rev	Reference
		05-02-2020	Ver1.0	

MOP of GNSS Antenna Feeder Link Fault (198096836) for ZTE Site

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Rahul Sharma & Ankur Sharma				
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Activity Description

This activity is for E2E troubleshooting and alarm clearance of GNSS receiver satellite searching fault (198096837)

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

Alarm Name	GNSS antenna feeder link fault(198096836)
Alarm Description	Inner GNSS receiver fails to search satellites
Possible Causes – arrange in logical order	1. The antenna and feeder are blocked by a structure. 2. Interference exists in the neighbouring environment. 3. The board hardware is faulty.

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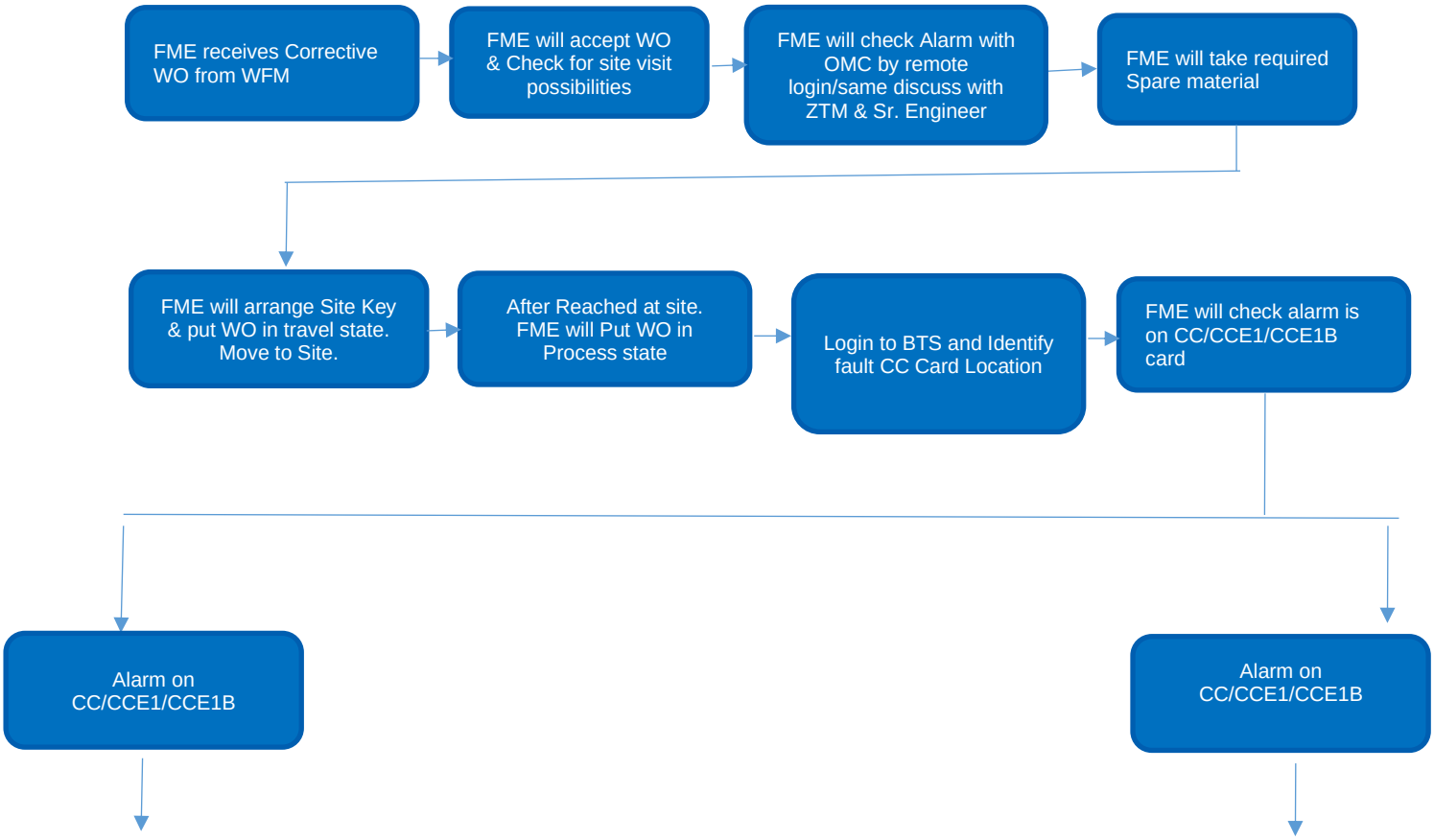
Flow Chart



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Reason Detail:
1. The antenna and feeder are blocked by a structure.
2. Interference exists in the neighbouring environment.
3. The board hardware is faulty.
Handling Suggestions:
1. Check whether the antenna and feeder are blocked by a structure.
Yes -> Step 2.
No -> Step 3.
2. Move the antenna of the GNSS to another place or remove the structure that blocks the signal.
After 15 minutes, check whether the alarm is cleared.
Yes -> End.
No -> Step 3.
3. Check whether there is a GNSS interference source in the neighbouring environment.
Yes -> Step 4.
No -> Step 5.
4. Remove the interference source.
After 15 minutes, check whether the alarm is cleared.
Yes -> End.
No -> Step 5.
5. Replace the GNSS antenna.
After 15 minutes, check whether the alarm is cleared.
Yes -> End.

If HW not available

B

A

1. Reset the board based on the Rack Number, Shelf Number and Slot Number in alarm details.
After 15 minutes, check whether the alarm is cleared.
Yes -> End.
No -> Step 8.
2. Replace the board in accordance with the Rack Number, Shelf Number and Slot Number in alarm details.
After 15 minutes, check whether the alarm is cleared.
Yes -> End.

A

FME check the alarm in BTS whether it is clear.

FME will observe for 20-30 min whether alarm appear again or not.

FME inform to ZTM or senior engineer.

FME closes the WO as resolved and update the resolution remarks in WO if any hardware is consumed.

FME will do R&R of used Modules in FEAT & same Information will be passed to ZTM for SRN.

FME will leave the site.

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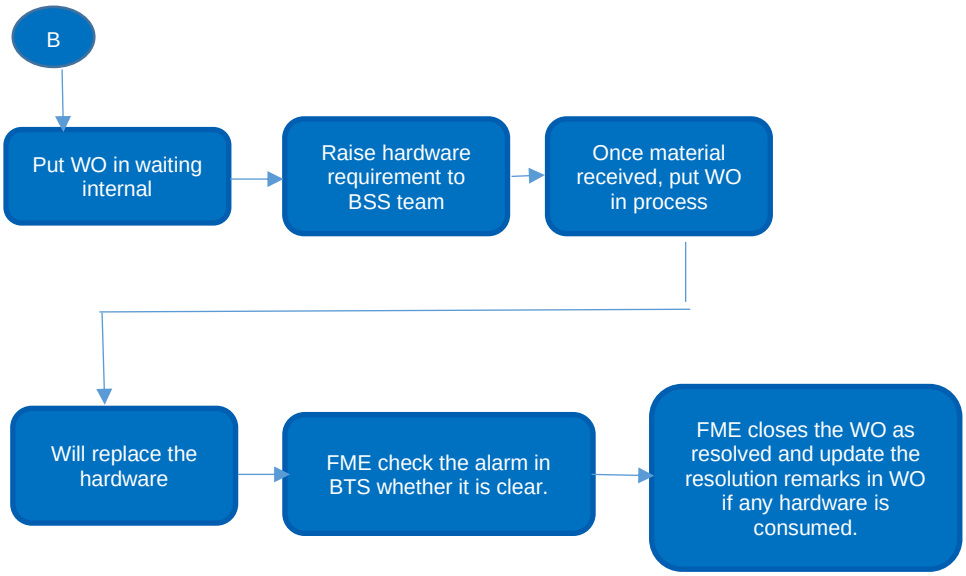

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Activity Summary

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 in which sector its coming
8	FME will Check as per MOP
10	If cleared, then Put WO in closed state
11	Put Work order in Waiting internal if any HW Req at site
12	Raise Req of Hardware to BSS Team
13	Once Material received again put WO in Travel mode
14	After reaching site - put WO in process
15	Replace the hardware
16	Check from BTS Login that alarm cleared or not after hardware replaced
17	Once Alarm Cleared
18	FME will close the WO as resolved

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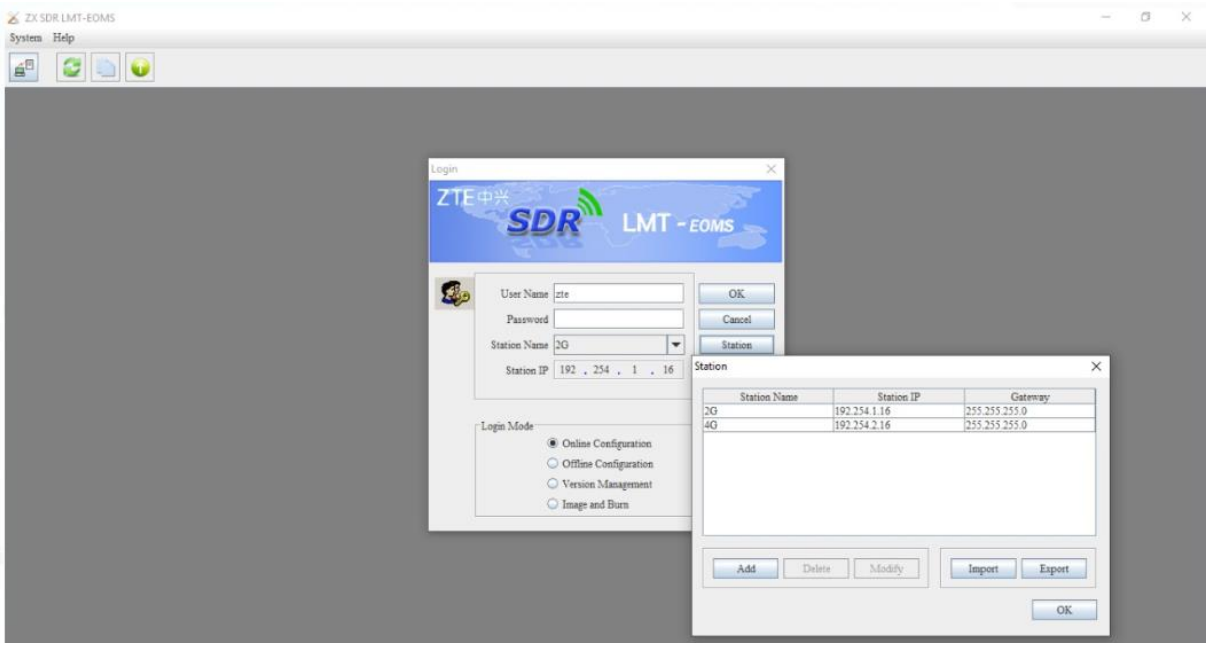
Activity Details

Pre requisites:

1) SVD WO for GNSS antenna feeder link fault(198096836)
2) Alarm on OneFM/Netnumen/WFM.

Case : GNSS antenna feeder link fault(198096836)

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



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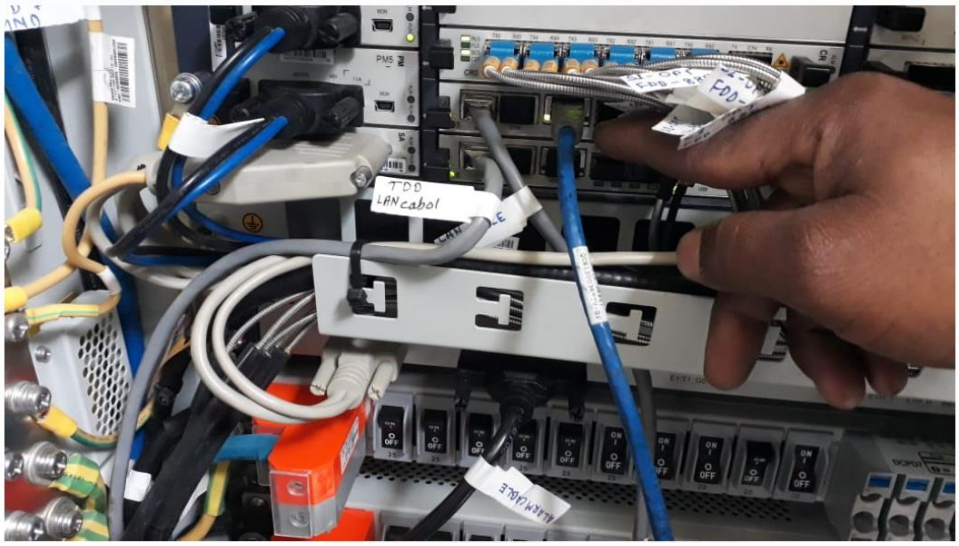

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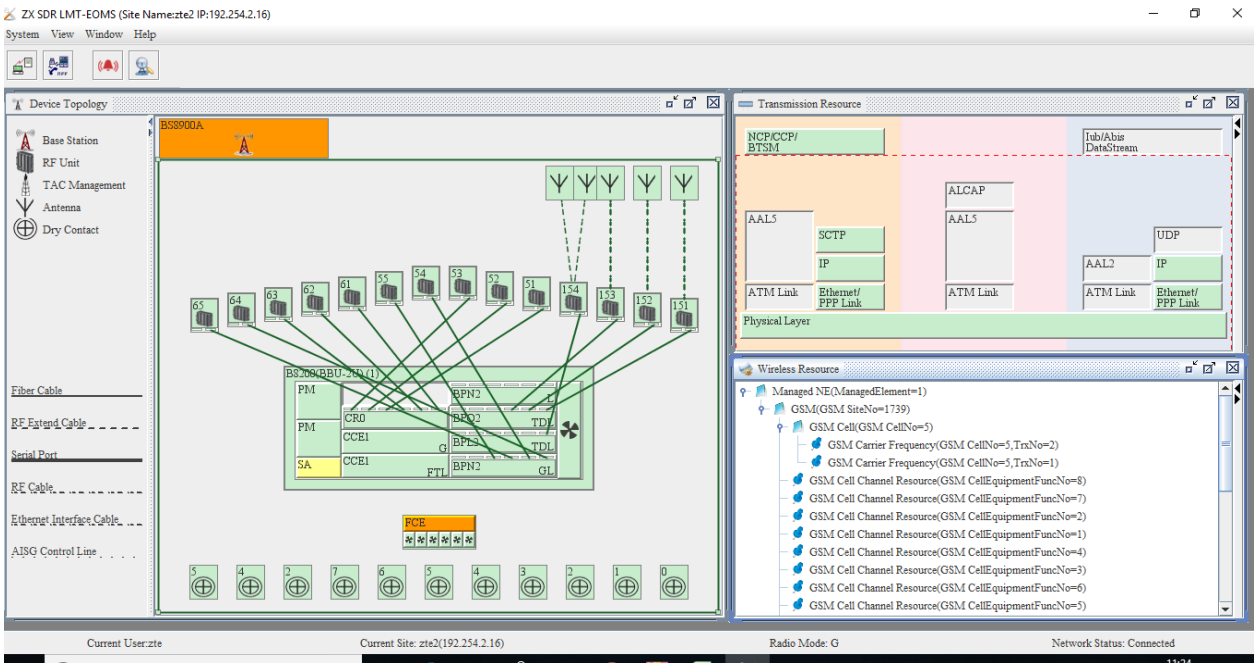
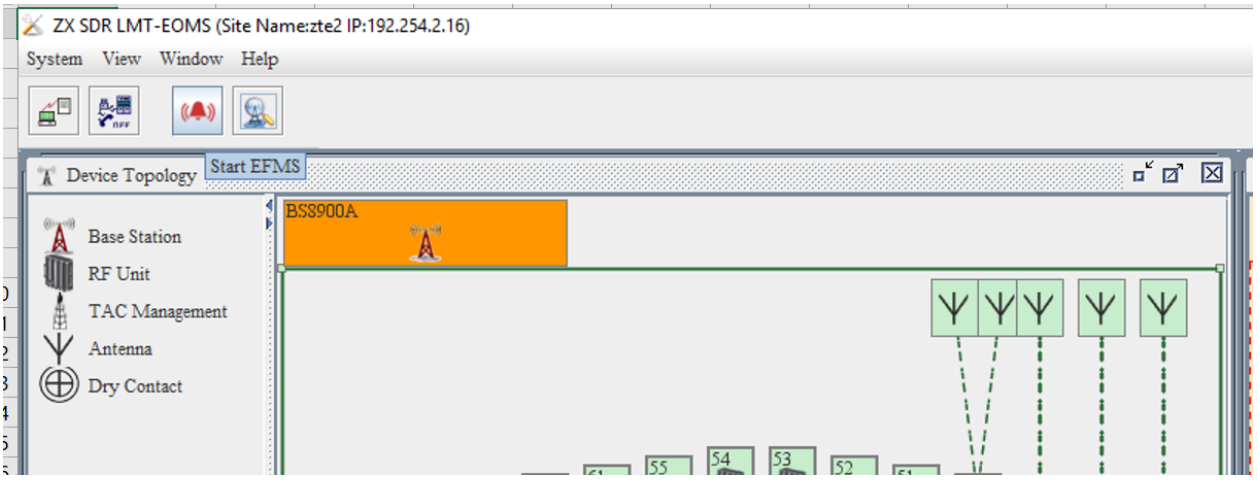
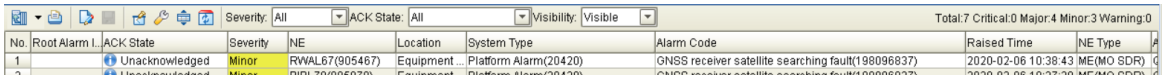


a) Start EFMS to view alarm window



EMS View:-



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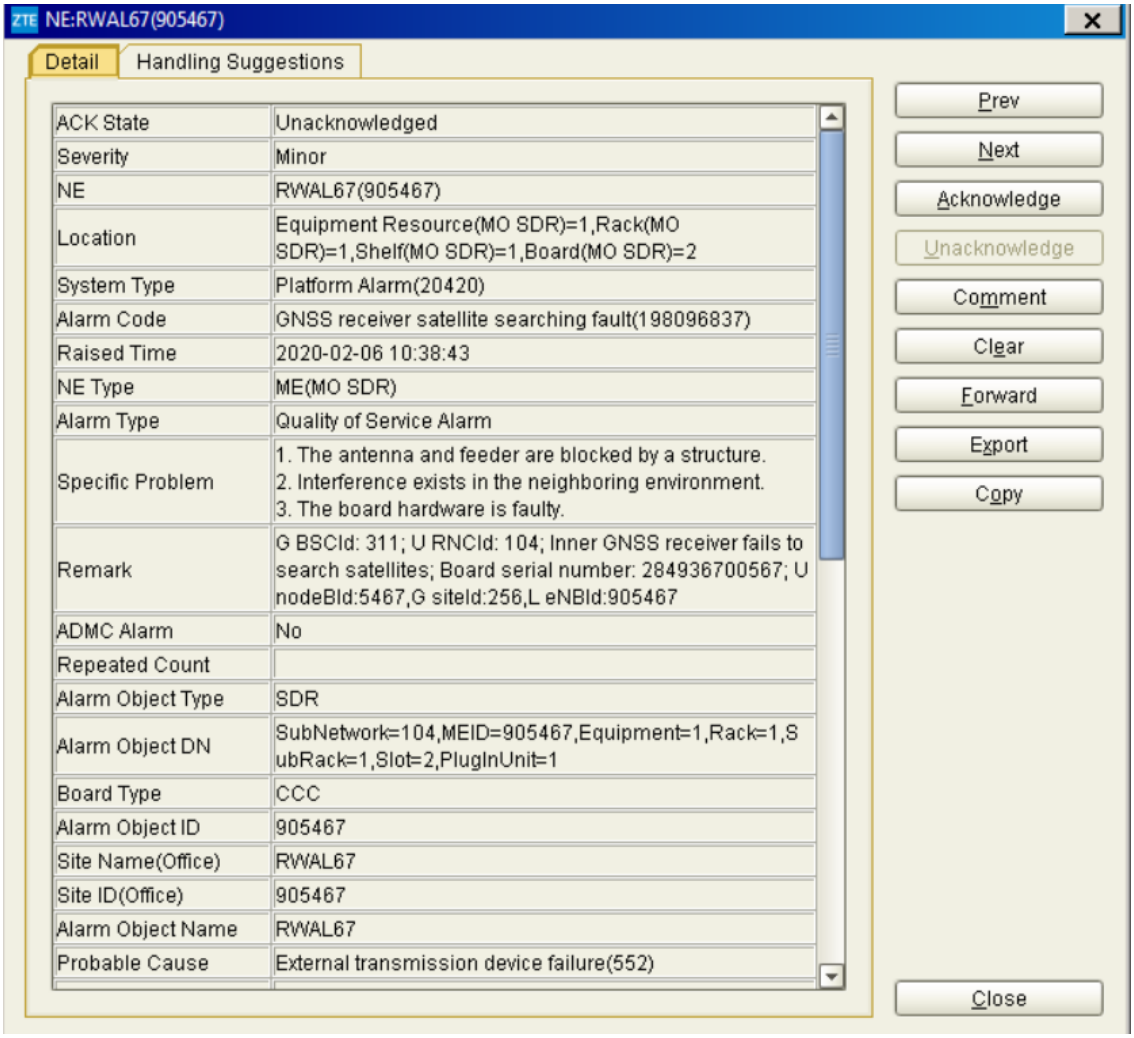
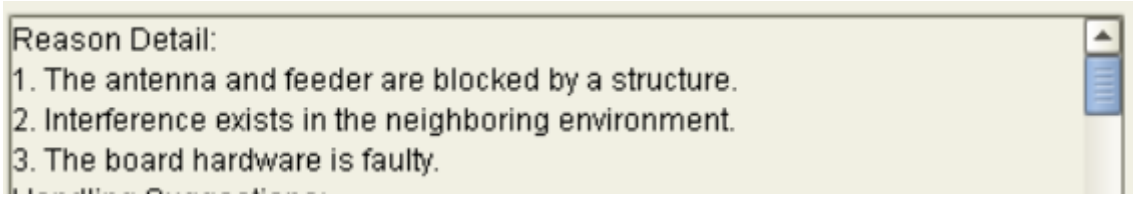
b) Double click on the alarm to check the alarm description.(EMS View):-



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



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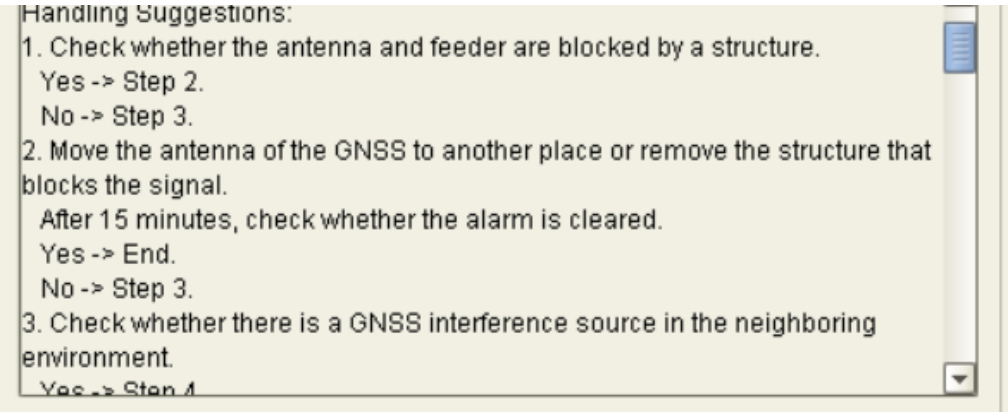
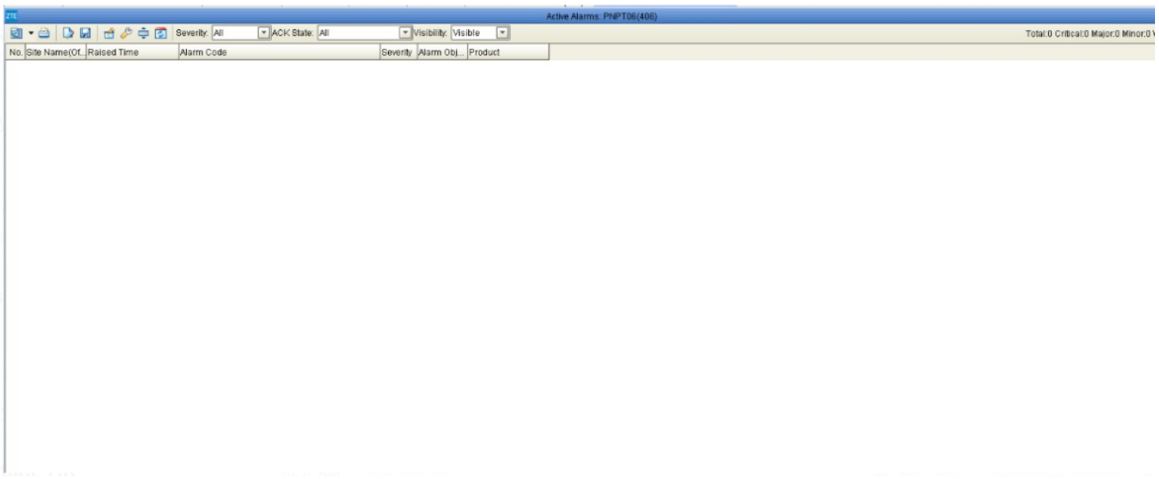


d) Replace hardware as per fault location.

e) Check in EFMS/OneFM/Netnumen whether alarm cleared or not.

In Below Snapshot no any alarm visible , as its cleared.



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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				