

Prepared (also subject responsible if other) Rahul Sharma & Ankur Sharma		No.		
Approved	Checked	Date 05-02-2020	Rev Ver1.0	Reference

MOP of GNSS Receiver Satellite Searching Fault (198096837) for ZTE Site

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Activity Description

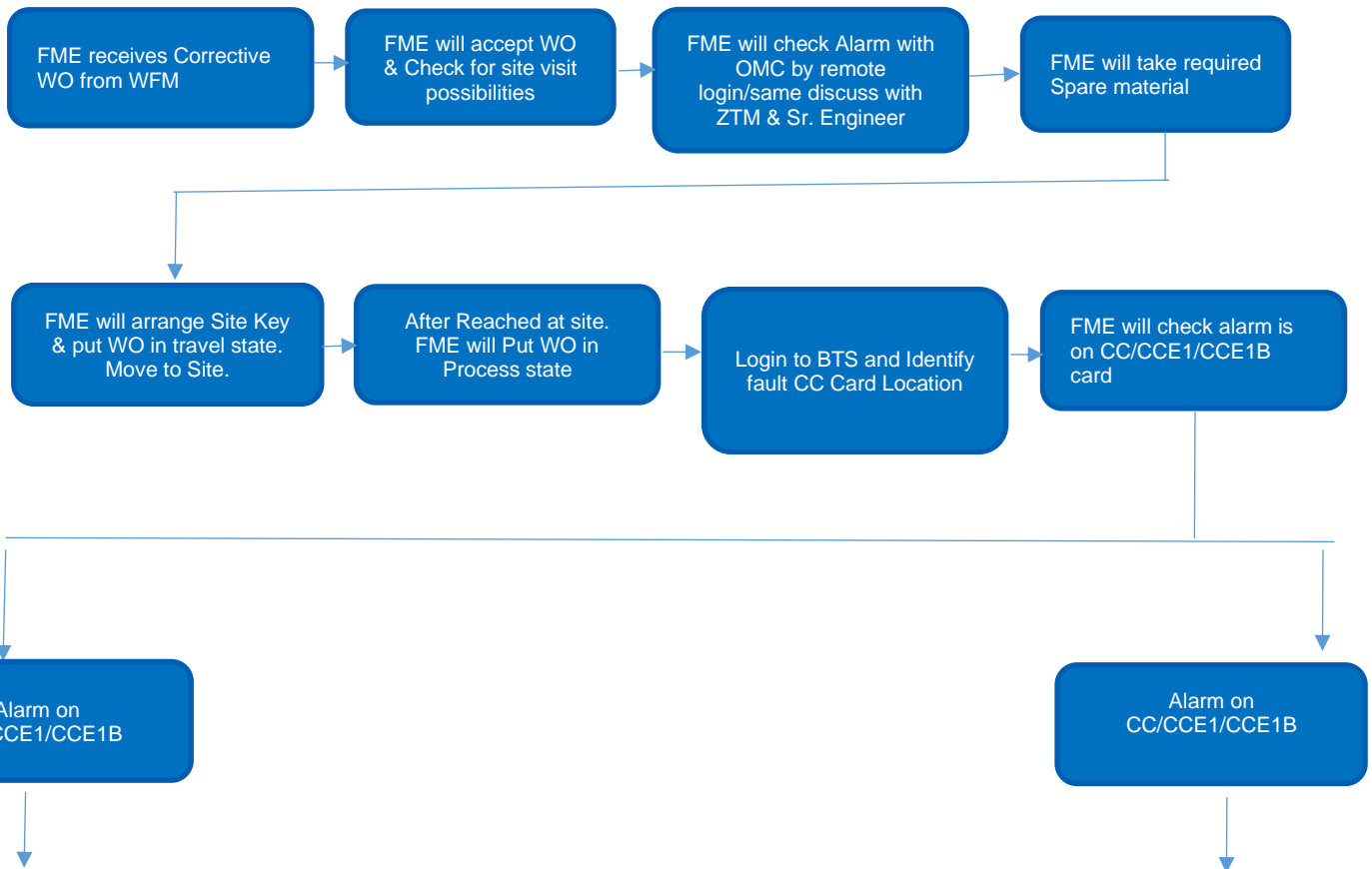
This activity is for E2E troubleshooting and alarm clearance of GNSS receiver satellite searching fault (198096837)

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

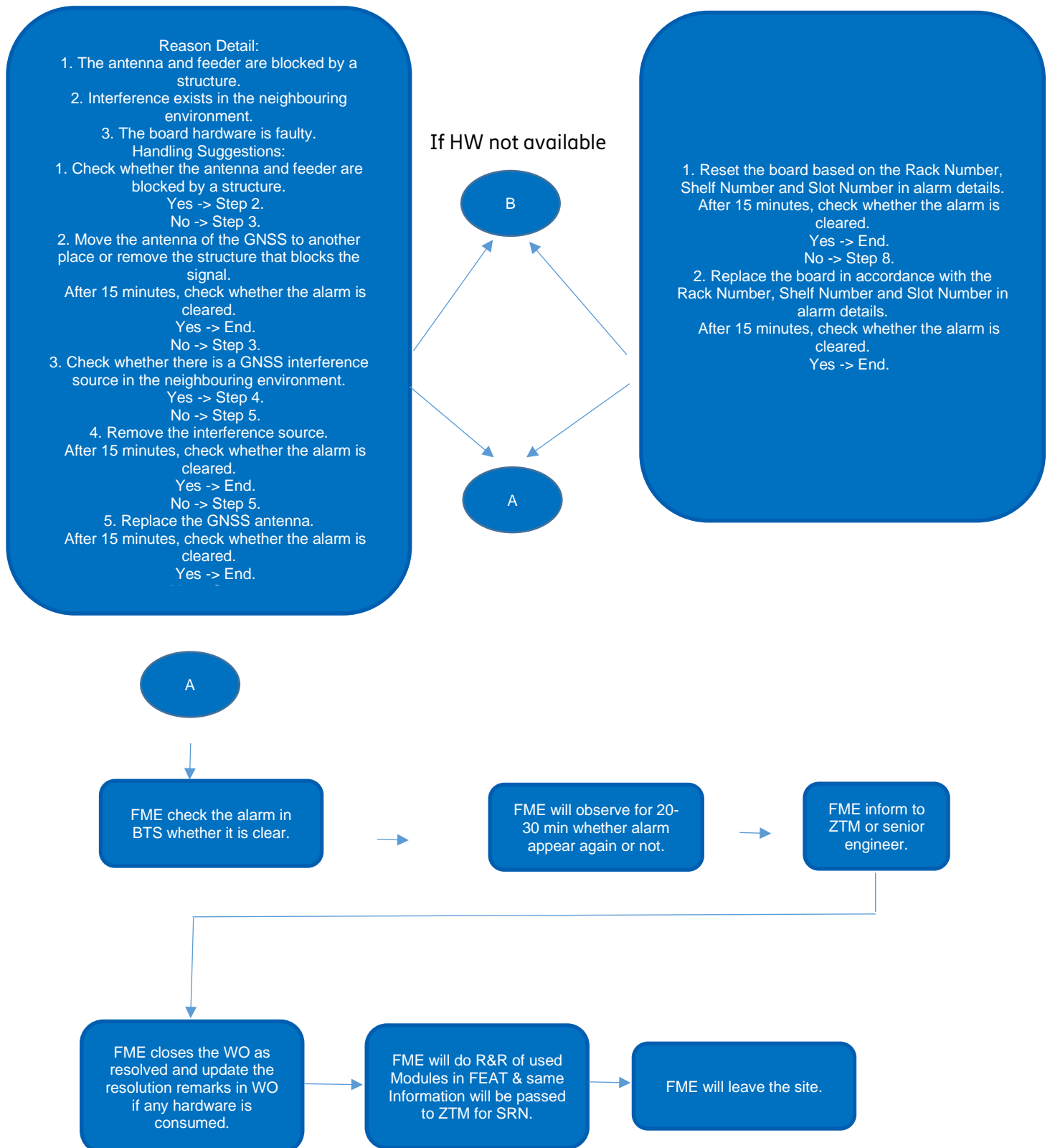
Alarm Name	GNSS receiver satellite searching fault (198096837)
Alarm Description	Inner GNSS receiver fails to search satellites
Possible Causes – arrange in logical order	1. The antenna and feeder are blocked by a structure. 2. Interference exists in the neighbouring environment. 3. The board hardware is faulty.

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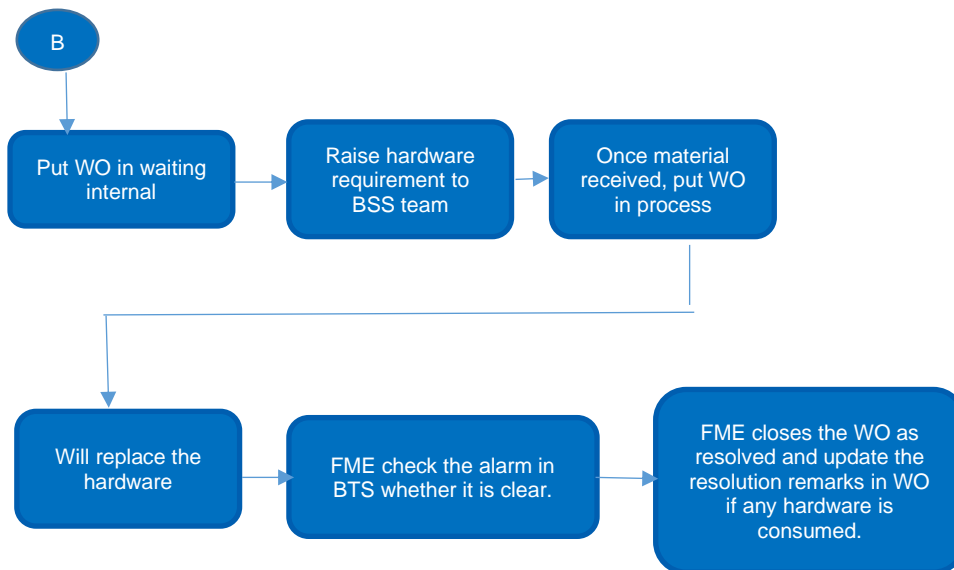
Flow Chart



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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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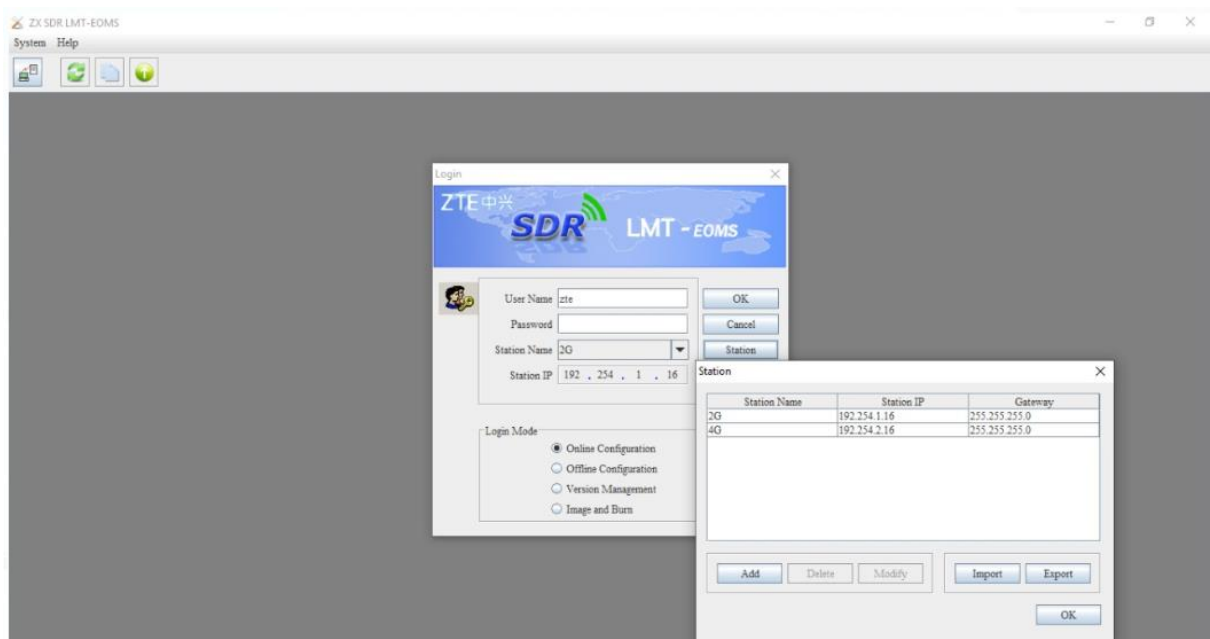
Activity Details

Pre requisites:

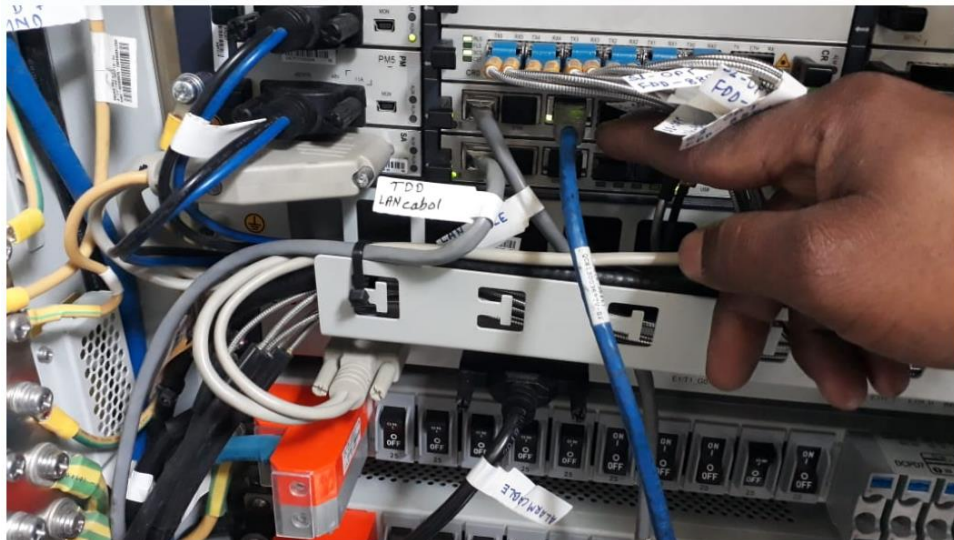
- 1) SVD WO for GNSS receiver satellite searching fault(198096837)
- 2) Alarm on OneFM/Netnumen/WFM.

Case : GNSS receiver satellite searching fault(198096837)

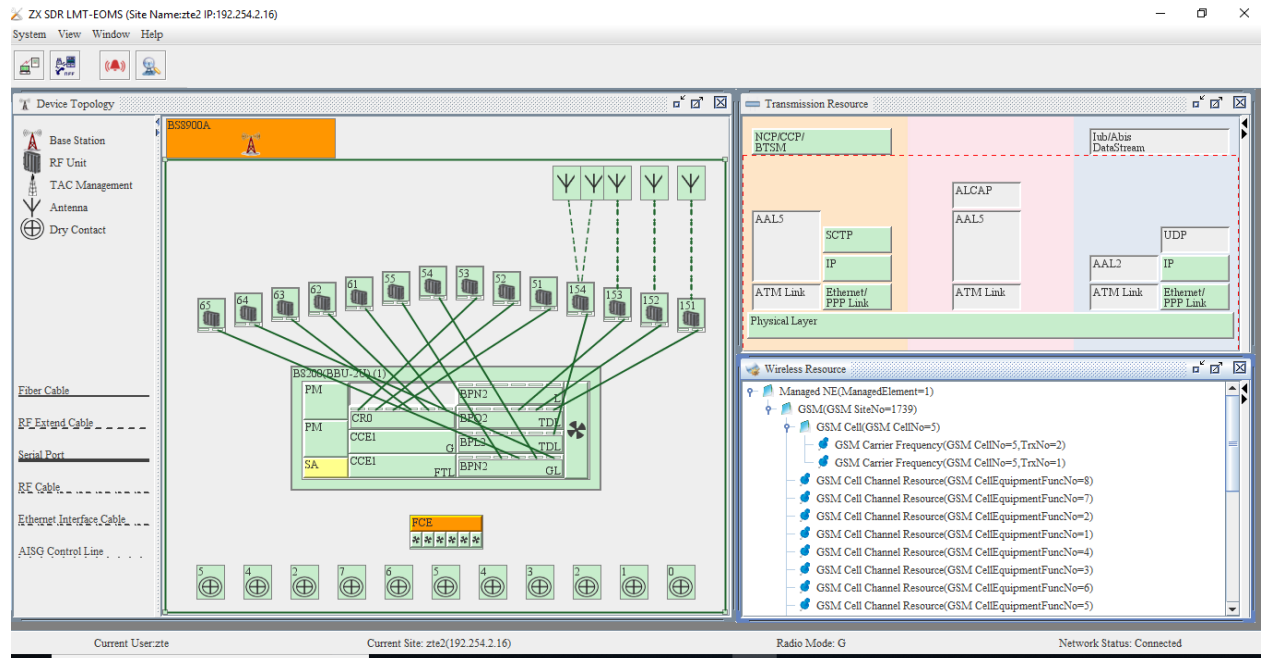
- A) Login in 2G BBU/ enodeb as per RAN MOP via ZX SDR LMT OEMS connect using LAN cable



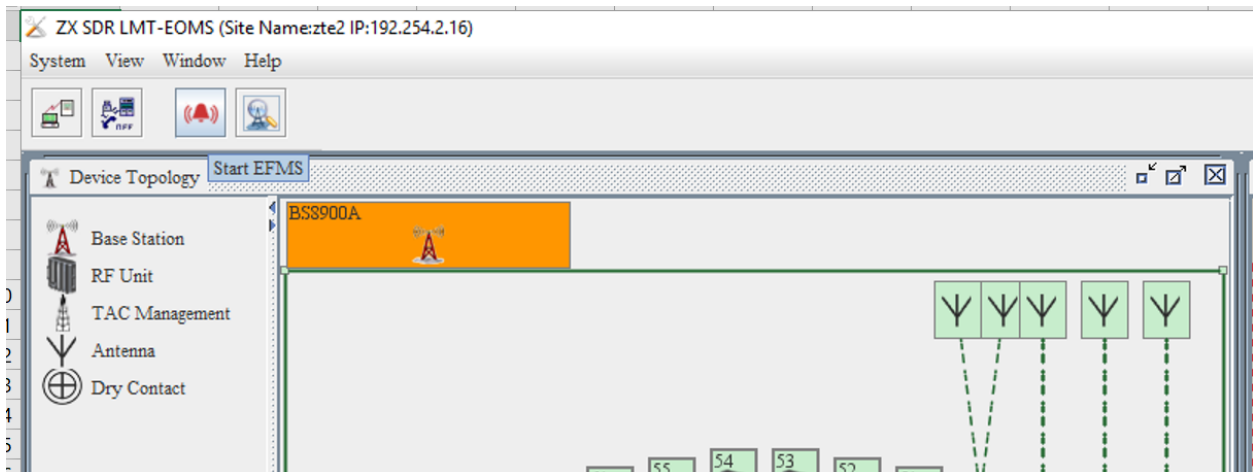
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a) Start EFMS to view alarm window



EMS View:-

<div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>Severity: All</div><div>ACK State: All</div><div>Visibility: Visible</div></div><div>Total: 7 Critical: 0 Major: 4 Minor: 3 Warning: 0</div></div>									
No	Root Alarm L	ACK State	Severity	NE	Location	System Type	Alarm Code	Raised Time	NE Type
1		<div>Unacknowledged</div>	Minor	RWAL67(905467)	Equipment ...	Platform Alarm(20420)	GNSS receiver satellite searching fault(198096837)	2020-02-06 10:38:43	ME(MO SDR)

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

ZTE NE:RWAL67(905467)	
Detail	Handling Suggestions
ACK State	Unacknowledged
Severity	Minor
NE	RWAL67(905467)
Location	Equipment Resource(MO SDR)=1,Rack(MO SDR)=1,Shelf(MO SDR)=1,Board(MO SDR)=2
System Type	Platform Alarm(20420)
Alarm Code	GNSS receiver satellite searching fault(198096837)
Raised Time	2020-02-06 10:38:43
NE Type	ME(MO SDR)
Alarm Type	Quality of Service Alarm
Specific Problem	1. The antenna and feeder are blocked by a structure. 2. Interference exists in the neighboring environment. 3. The board hardware is faulty.
Remark	G BSCId: 311; U RNCId: 104; Inner GNSS receiver fails to search satellites; Board serial number: 284936700567; U nodeBId:5467,G siteId:256,L eNBId:905467
ADMC Alarm	No
Repeated Count	
Alarm Object Type	SDR
Alarm Object DN	SubNetwork=104,MEID=905467,Equipment=1,Rack=1,SubRack=1,Slot=2,PlugInUnit=1
Board Type	CCC
Alarm Object ID	905467
Site Name(Office)	RWAL67
Site ID(Office)	905467
Alarm Object Name	RWAL67
Probable Cause	External transmission device failure(552)

Prev

Next

Acknowledge

Unacknowledge

Comment

Clear

Forward

Export

Copy

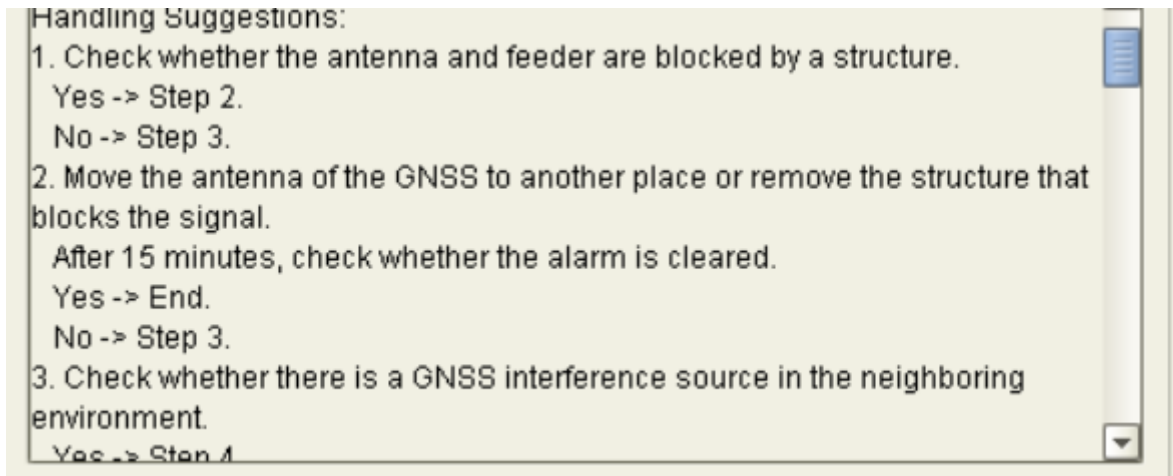
Close

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

Reason Detail:

1. The antenna and feeder are blocked by a structure.
2. Interference exists in the neighboring environment.
3. The board hardware is faulty.

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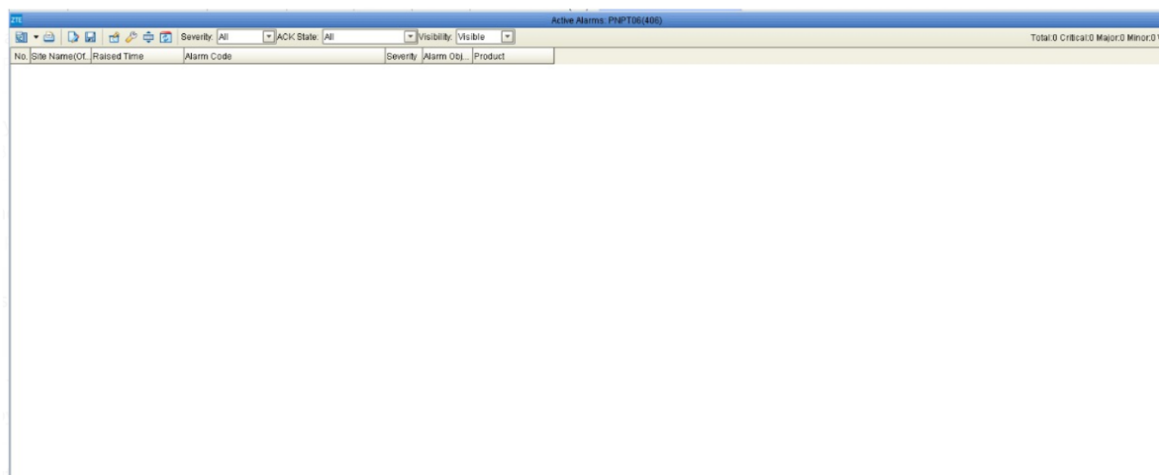


d) Replace hardware as per fault location.



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				