Prepared (also subject responsible if other)		No.		
S Ramesh				
	Checked	Date	Rev	Reference
		05-02-2020	Ver1.0	

MOP of VSWR/Output power supervision lost for Ericsson Site

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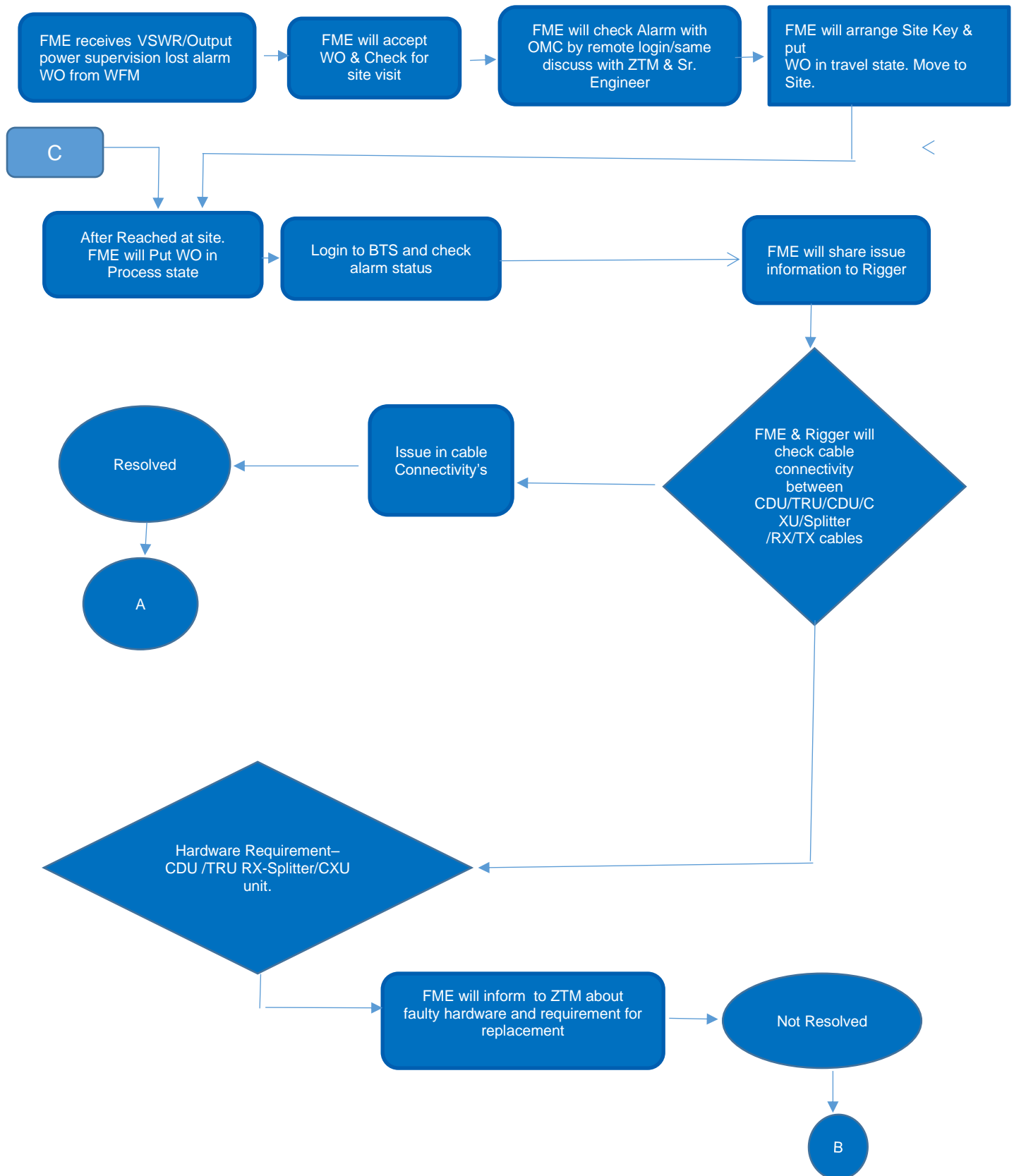| Prepared (also subject responsible if other)		No.		
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Activity Description

This activity is for E2E troubleshooting and Clearance of VSWR limits exceeded
Attached are the details to be followed by RAN Team. As this need to be followed as guideline.
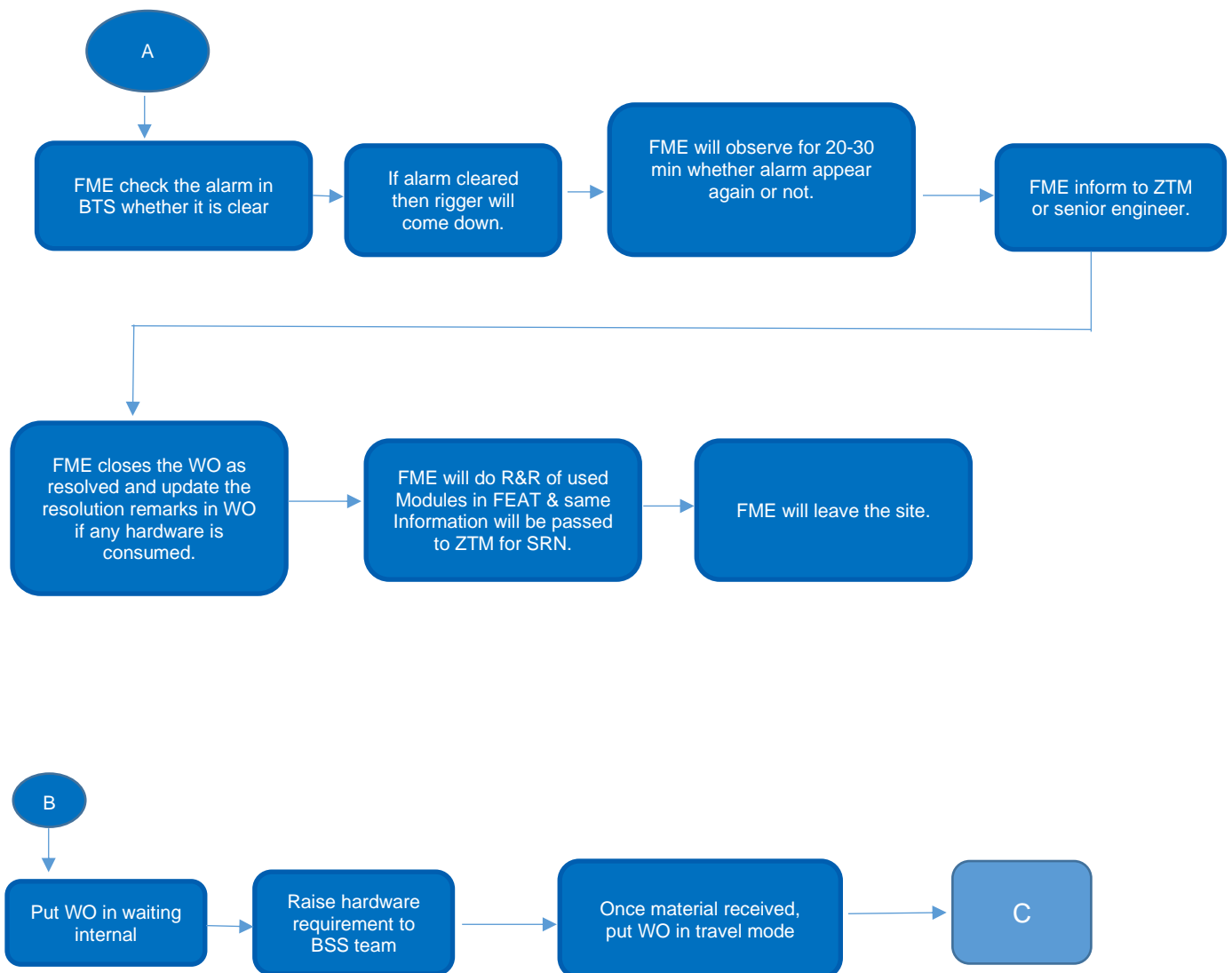
Alarm Name	VSWR/Output power supervision lost at ONE FM end
Alarm Description	CF 2A 15- VSWR/Output power supervision lost
Possible Causes	1. Loose connection between TX/RX cables at CDU /ETDRU/RX Splitter/CXU units 2. RX/TX cable damages between CDU/ETDRU/RX Splitter/CXU units 3. Port damage of CDU/ETDRU/RX Splitter/CXU units. 4.Improper connection of RX/TX cables 5.CDU Power cable Status.

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![ERICSSON logo]

Flow Chart

FME receives VSWR/Output power supervision lost alarm WO from WFM → FME will accept WO & Check for site visit → FME will check Alarm with OMC by remote login/same discuss with ZTM & Sr. Engineer → FME will arrange Site Key & put WO in travel state. Move to Site.

C

After Reached at site. FME will Put WO in Process state → Login to BTS and check alarm status → FME will share issue information to Rigger

FME & Rigger will check cable connectivity between CDU/TRU/CDU/CXU/Splitter /RX/TX cables

Issue in cable Connectivity's → Resolved → A

Hardware Requirement– CDU /TRU RX-Splitter/CXU unit.

FME will inform to ZTM about faulty hardware and requirement for replacement → Not Resolved → B

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(A)

FME check the alarm in BTS whether it is clear → If alarm cleared then rigger will come down. → 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.

(B)

Put WO in waiting internal → Raise hardware requirement to BSS team → Once material received, put WO in travel mode → C

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Activity Summary

|	
1	Corrective Work order - VSWR/Output power supervision lost will received on WFM portal
2	FME will accept the WO- FME will check with alarm team-any alarm in site .
3	FME will change WO status to travel –will go to site.
4	Once reached site –FME will change WO status to in progress
5	Login the BTS & Check alarm status –.
6	FME will check –Any cable loose connection between TX-RX cables CDU /ETDRU/RX Splitter/CXU units.
7	FME will check in BTS (Alarm cleared or not).
8	If alarm cleared, then WO will be closed.
9	If alarm not cleared,-FME will inform to ZTM about fault cause and hardware requirement.
10	If any HW Required at site - Work order status as Waiting internal
11	Raise Request of Hardware to BSS Team (CDU/TRU/CXU/RX-Splitter-CDU bus cable /IOM cable)
12	Once material received -WO in Travel mode
13	After reaching site - WO in progress
14	FME will replace the hardware.
15	Check alarm cleared or not-BTS login ,After hardware replacement.
16	Once alarm cleared
17	FME will close the WO as resolved

Activity Details

Pre requisites:

1) SVD WO - VSWR/Output power supervision lost for alarm.
2) Alarm on OneFM /WFM.

When VSWR/Output power supervision lost, Below the activities need to be done step by step to clear the alarm'

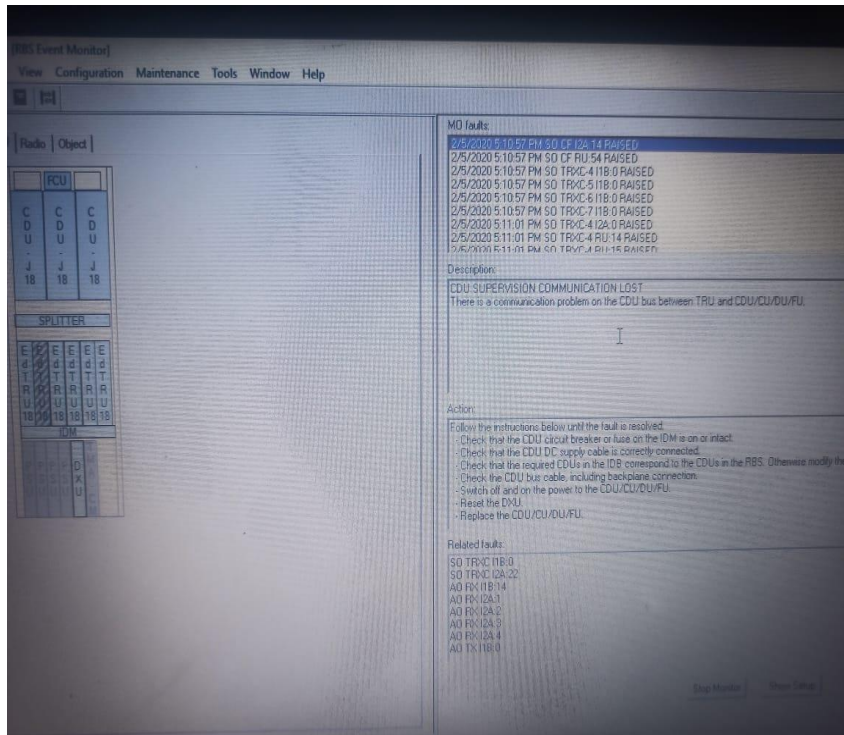a)   Login 2G BTS Via OMT -Using OMT login cable
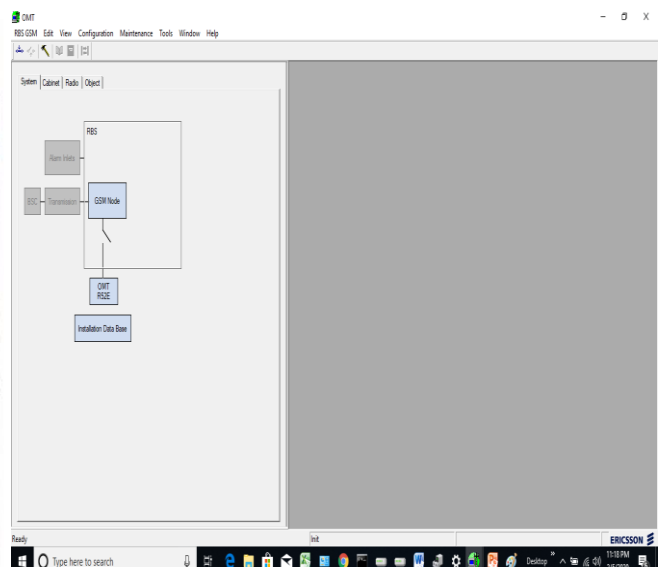
Login 2G BTS
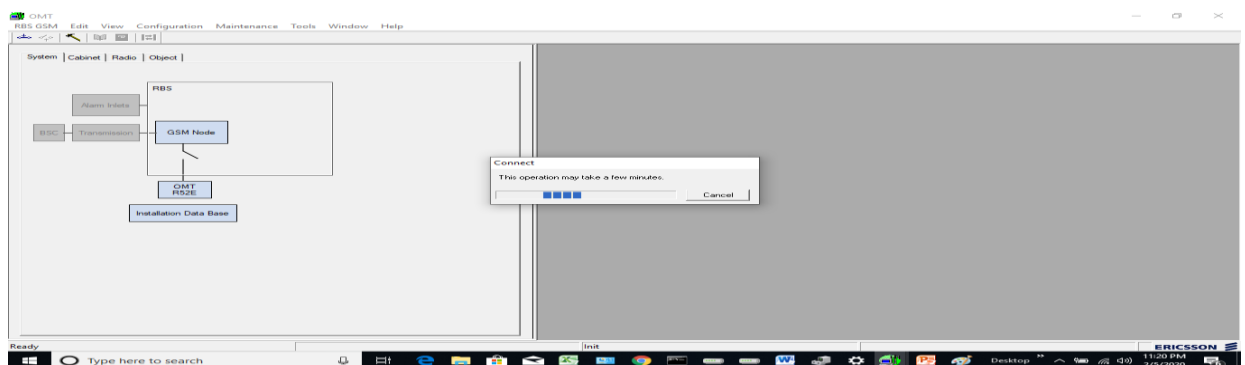
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b) Verify the Alarm status 2G.

VSWR/Output power supervision lost

d) Basic Material and Tools for VSWR/Output power supervision lost

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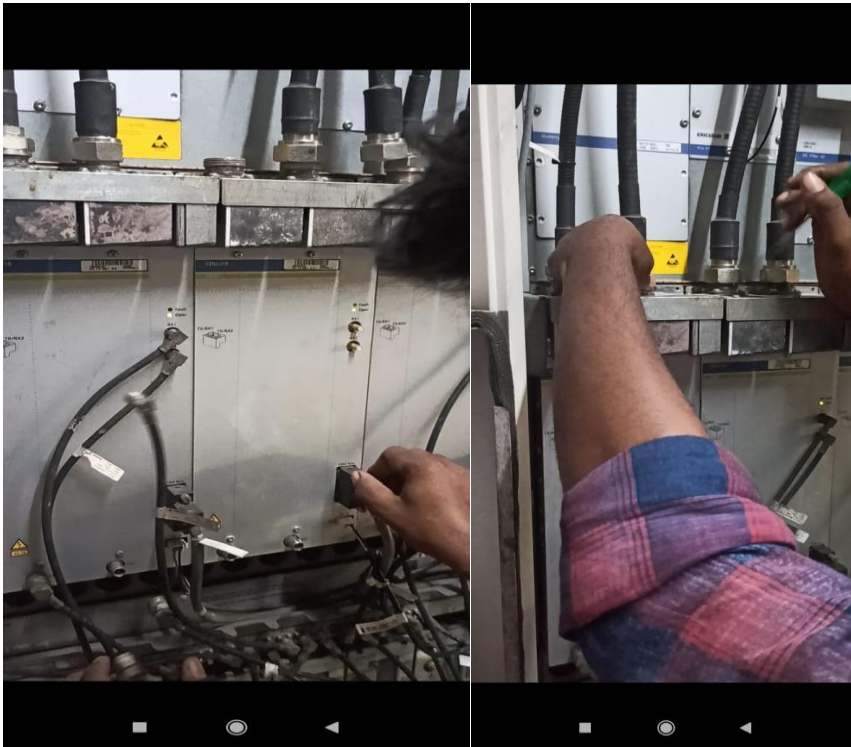
Step to clear VSWR/Output power supervision lost

1. Check RX/TX cable connectivity
2. Check any loose connection between loops cables- CDU/CXU/Splitter/Tru/IOM/CDU Bus cable
3. Check any port damages –CDU/RX-Splitter/Tru
4. Check power status of CDU units,
5. Check hardware - CDU/RX-Splitter/Tru

After Alarm Clearance –Cross check alarm at BTS.
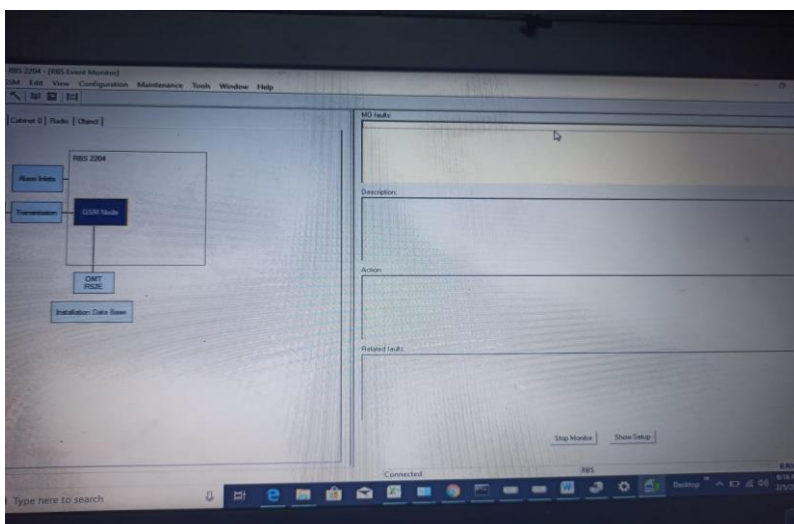
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Post Analysis

Step No.	Step Name/Step Type	Command	Field	Mandatory (Y/N)	Expected Result
1	FME will wait at site for 30 minutes to check alarm status.	As per MOP and run the alarm check command to confirm its Cleared	RAN	Y	As per MOP
2	BSS Team will check after 24 hrs if alarm has reappeared	As per MOP			