Prepared (also subject responsible if other)		No.		
Himanshu Jain				
Approved	Checked	Date	Rev	Reference
		26-04-2020	Ver1.0	

MOP of Radio Link Failure on Huawei Site

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Activity Description

This activity is for E2E troubleshooting and alarm clearance of **Radio link failure alarm**

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

Alarm Name	1. Radio Link failure
Alarm Description	1. Alarm reported when BBU detect that radio link faulty
Possible Causes	1. Connectivity break between Transmission & BBU 2. Transmission Port Utilization may be high 3. MW link Utilization may be high 4. Fiber node, fiber ring or utilization may be high 5. Non- Standard CIPRI cable used 6. low capacity SFP as per utilization 7. RF module error

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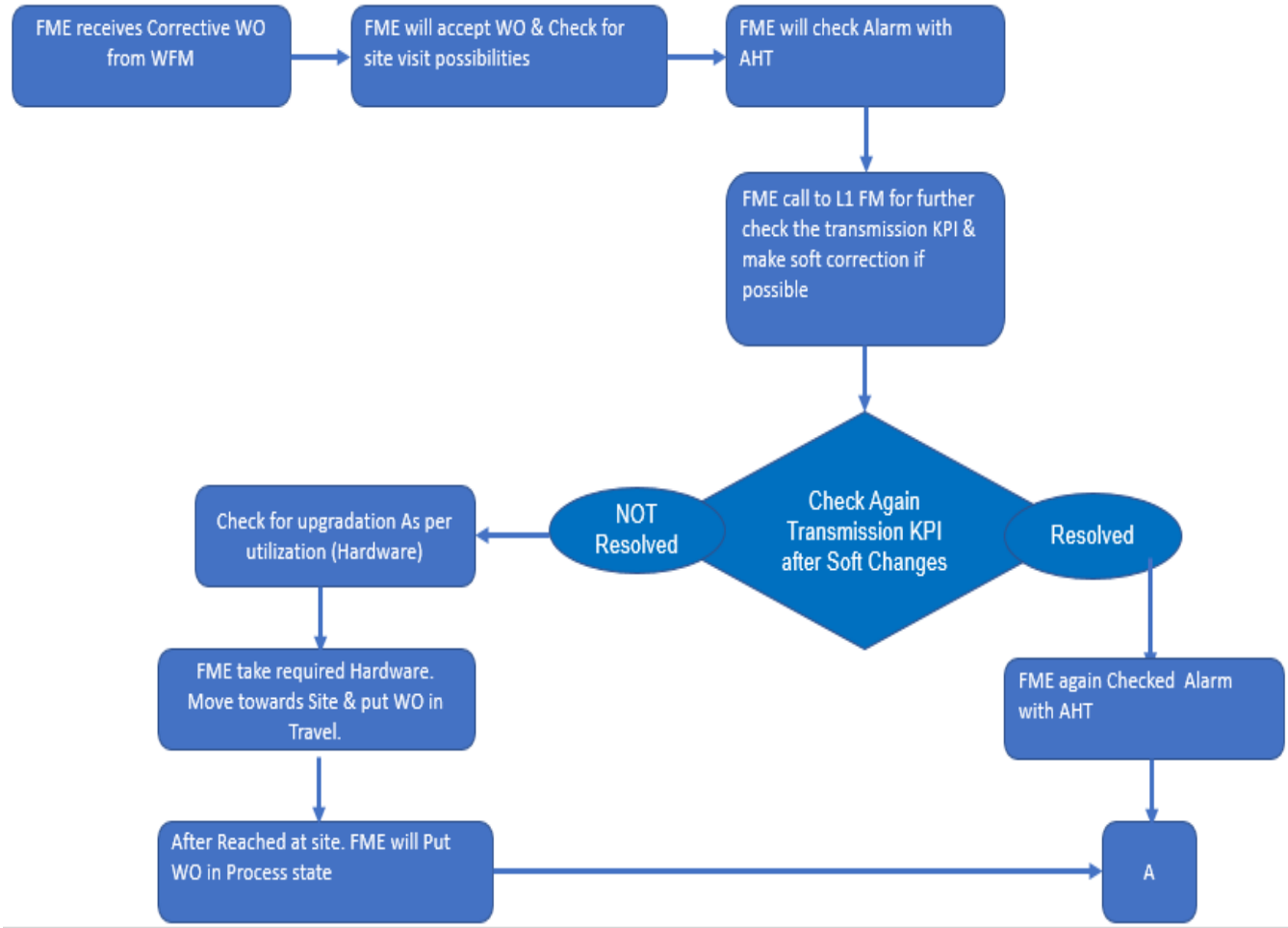
Flow Chart



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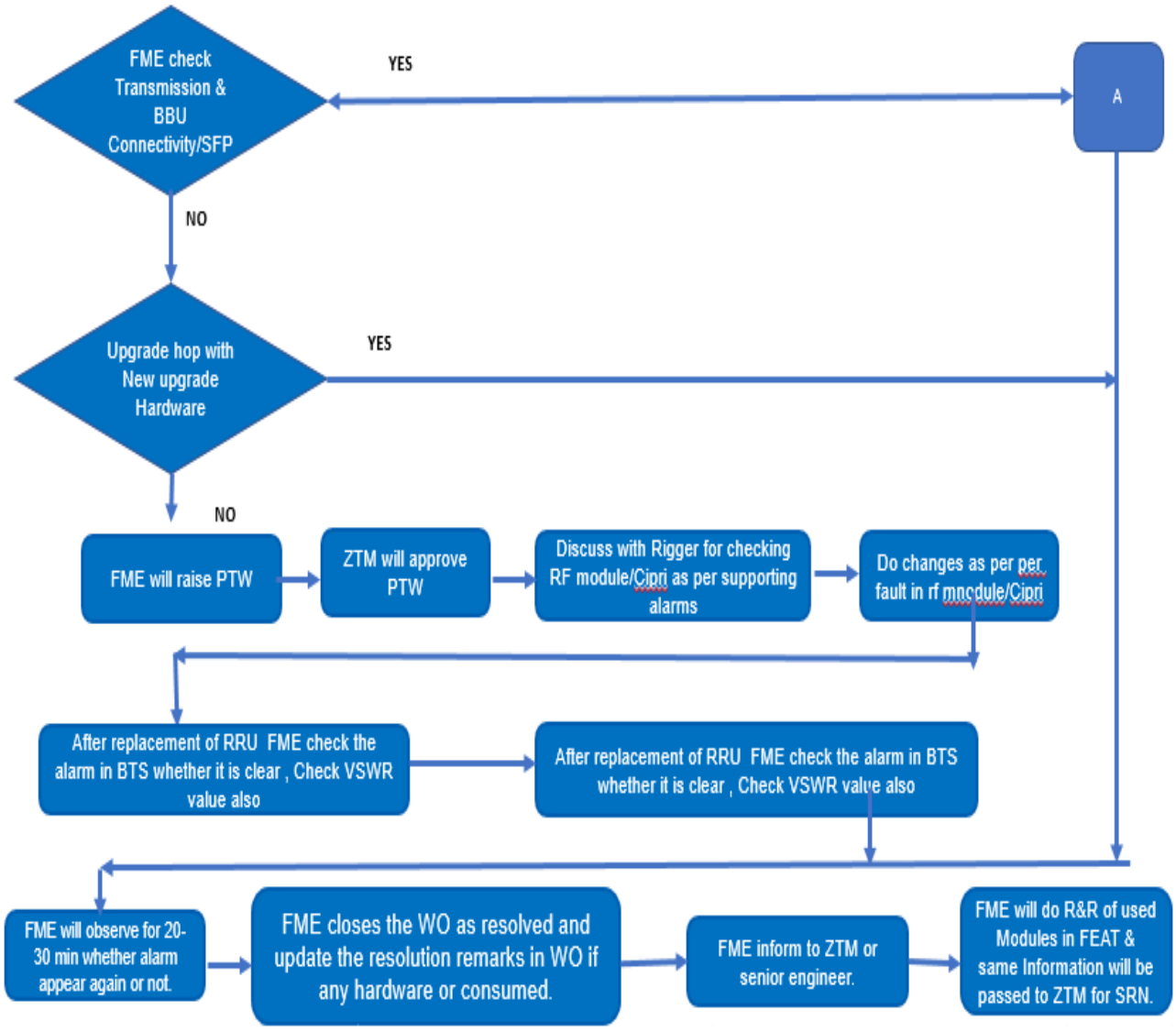

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Activity Details

Radio Link Failure Alarm Information & Checking for corrective action

1. FME receive work order in WFM of Radio Link failure alarm as a corrective work order
2. FME accept WO as received/WO accepted as per check his CMT tool
3. FME check the alarm with help of AHT
4. FME call to L1 FM for checking transmission KPI if done through soft changes then he will call ZTM for checking KPI after few hours along with details of changes done
5. If not resolved then Ask for solution or check for any hardware upgradation requirement.

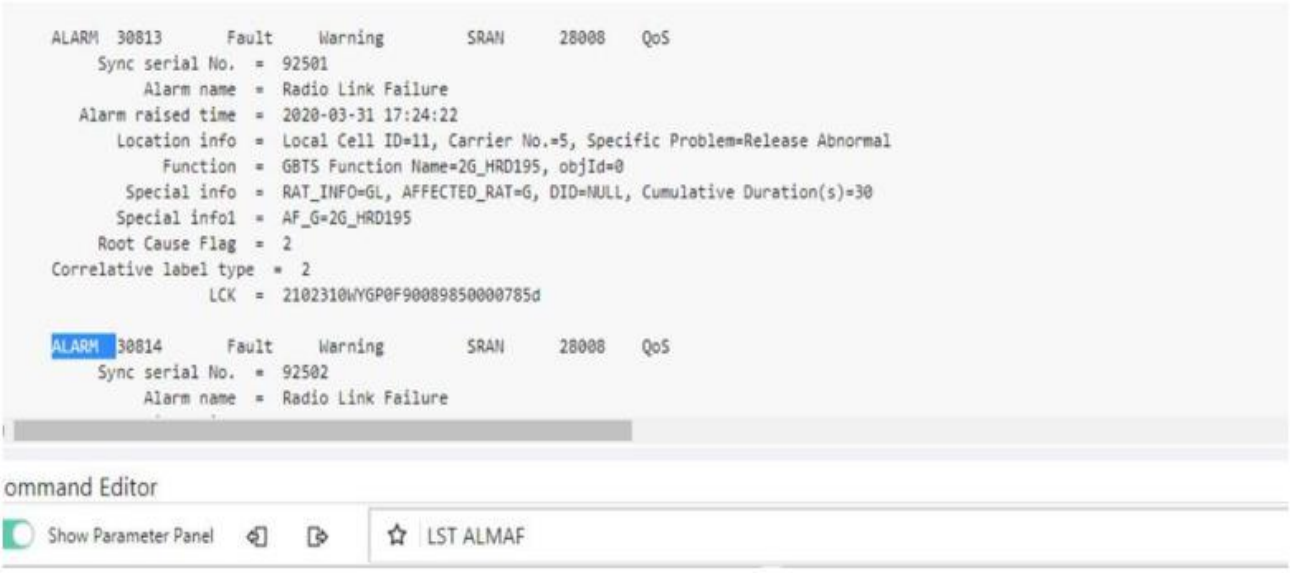
Site Movement & Spare Arrangement

1. FME arrange key of site from respective Infra partner.
2. FME take required materials to resolve the alarm (As per Remote Login Observation & ZTM suggestion)…
3. Now FME move to site and put WO in Travel state

Alarm issue Identification & Rectification

1. When FME reached at site, he put WO in progress state.
2. FME will login to the BTS & check for Alarm

Add snaps of port to connect on equipment/laptop…command..etc



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3. FME will check Physical interface between BBU & Transmission (LAN cable) if damaged or any abnormalities than Change it & Monitoring alarm.
4. If ok than do change for hardware upgradation as per plan.
5. If no any abnormalities in Transmission than FME will share Information to Rigger for Checking RF module.
6. FME will ensure the PPE kit, work at height certificate, medical certificate, present healthy physical condition, site condition including hygiene
7. Raise PTW request

8. ZTM check the PTW and approve it.
9. Rigger will climb the tower and check below Points for actual issue identification

   A. Rigger will check & see if any Abnormalities in RRU if yes same inform to FME & check with SWAP with Other RRU for cross check.

   B. If Alarm persist then plan for RRU change

10. After RRU change FME will check the alarm in BTS whether it is clear & verify rest KPIS of That Sector. (VSWR Value should below then 1.3)

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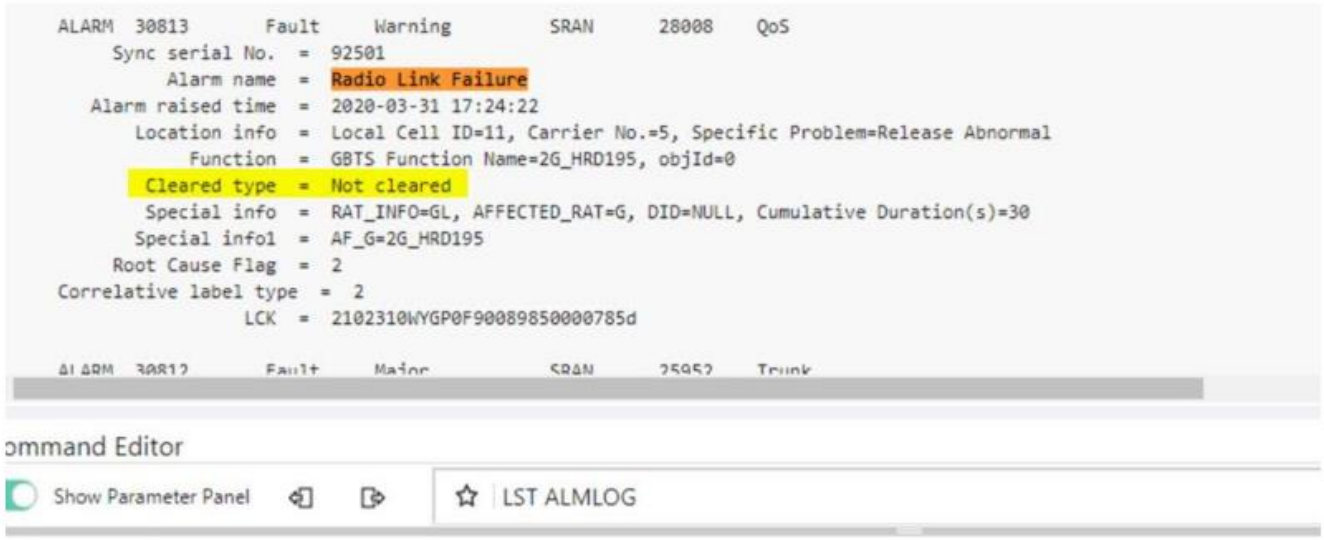

11. If alarm is cleared, then rigger will come down
12. FME will observe for 20-30 min whether alarm appear again or not.
13. If alarm don't appear again it means alarm resolved, then FME inform to ZTM or Senior engineer about the same
14. FME closes the WO as resolved and update the resolution remarks in WO if any hardware or consumable material used.
15. FME will do R&R of used Modules in FEAT & same Information will pass to ZTM for SRN.
16. FME leave the site.