

Prepared (also subject responsible if other) Harish Kumar		No.		
Approved	Checked	Date 08-02-2020	Rev Ver1.0	Reference

MOP of Auto-Negotiation Mismatch Alarm at Nokia Site

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Activity Description

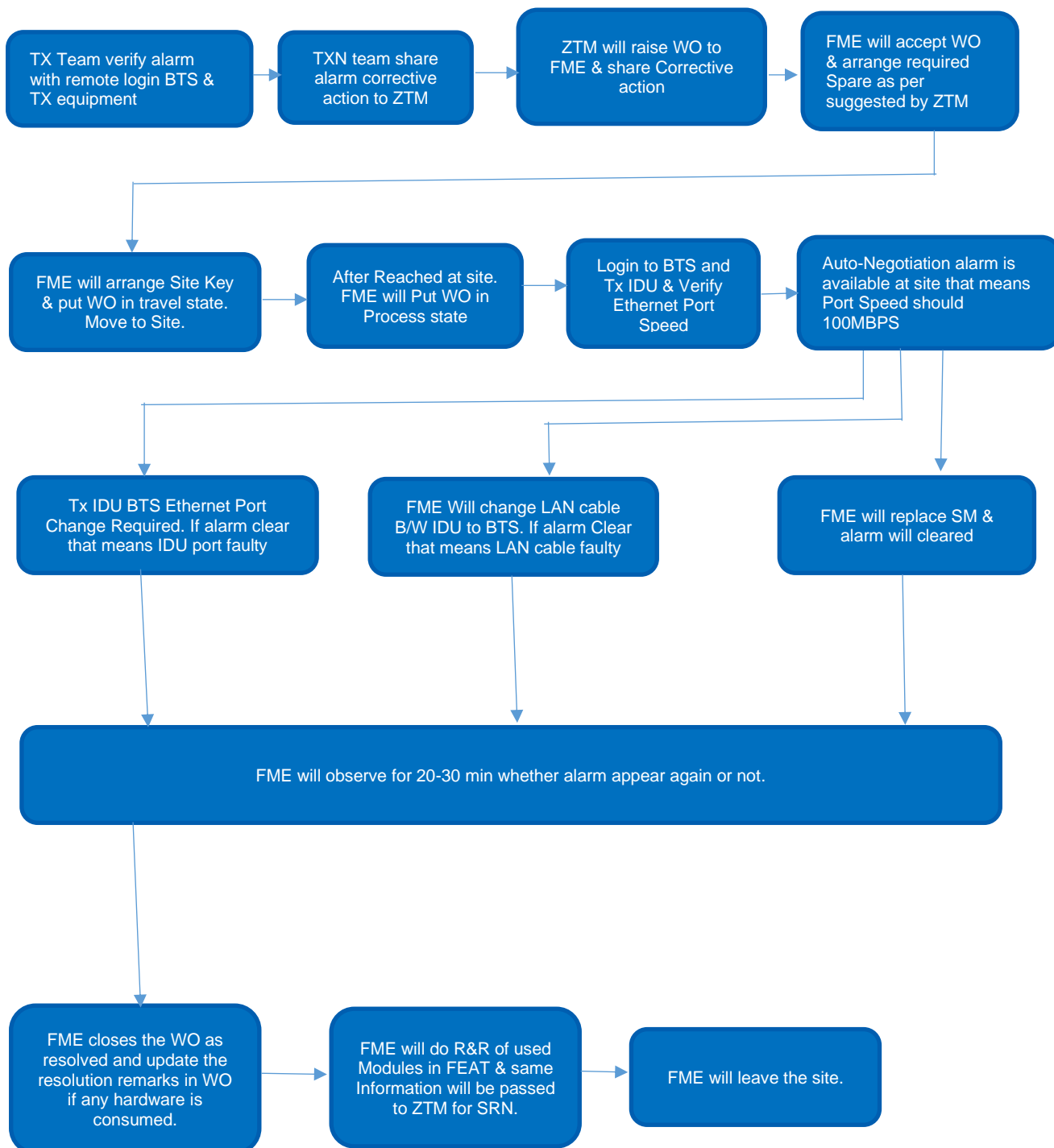
This activity is for E2E troubleshooting and alarm clearance of Auto-negotiation mismatch on Ethernet Interface.

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

Alarm Name	1. Auto-negotiation mismatch on Ethernet Interface
Alarm Description	1. Auto-negotiation mismatch on Ethernet Interface 2. BTS Ethernet Transport Port Speed degraded from 1000 MBPS to 100 MBPS
Possible Causes	1. IDU or BTS Hang 2. IDU Ethernet Port faulty 3. LAN cable faulty 4. SM Ethernet Port Faulty

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Flow Chart



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Activity Details

Auto-negotiation mismatch Information & Checking for corrective action

1. TXN team verify alarm/check softly & share information to ZTM with corrective action
2. ZTM will raise request for Planned WO creation
3. FME will receive Planned work order in WFM of Auto-Negotiation Mismatch alarm
4. FME accept WO as received.
5. If possible FME visit site on same day otherwise will plan on next day.
6. ZTM will suggest to take required Spare Material

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 TXN Team given action plan)
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.

Web Element Manager

Connected to BTS

BTS ID: 903341 BTS Name: EJMHBUTCHU SW ver.: SBT518A_ENB_1000_001457_000000 © (GMT+5.5) Asia/Calcutta

On air (●) LTE Not commissioned (●) WCDMA On air (●) GSM

Navigation Panel

Objects Timeline

Object name

MRBTS-903341

Alarm Management

Active Alarms Alarm History

Severity	Appeared	Alarm ID	Alarm Name	Fault ID	Fault name	Alarming Object	Number of Impacted Cells
▲	2020-02-08 09:13:52	7103	BASE STATION EXTERNAL ALARM NOTIFICATION	1403	MAINS FAIL	MRBTS-903341/EQM_R-1/APEQM_R-1/CABINET_R-1/SMOD_R-1/EAC_R-1	None
▲	2020-02-08 09:19:55	7103	BASE STATION EXTERNAL ALARM NOTIFICATION	1405	SHELTER DOOR OPEN	MRBTS-903341/EQM_R-1/APEQM_R-1/CABINET_R-1/SMOD_R-1/EAC_R-2	None
▲	2020-02-08 09:46:59	7103	BASE STATION EXTERNAL ALARM NOTIFICATION	1408	SITE ON DG	MRBTS-903341/EQM_R-1/APEQM_R-1/CABINET_R-1/SMOD_R-1/EAC_R-4	None
▲	2020-02-08 10:58:59	7115	BASE STATION INFORMATION	61607	Auto-negotiation mismatch on SMOD-1, EIF3	MRBTS-903341/TNLSVC-1/TNL-1/ETHSVC-1/ETHLK-1	See Details window

ALARM

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2. Then FME will Login Tx IDU & verify BTS Ethernet Port Speed. If port speed is 100 MBPS on both end. Then take below action
 - a. Tx IDU BTS Ethernet Port Change Required. If alarm clear that means IDU port faulty & If not Clear Then follow next step
 - b. FME Will change LAN cable B/W IDU to BTS. If alarm Clear that means LAN cable faulty & If not Clear then follow next step
 - c. FME will replace SM & alarm will get cleared.

Severity	Appeared	Alarm ID	Alarm Name	Fault ID	Fault name	Alarming Object	Number of Impacted Cells
Error	2020-02-08 09:13:52	7103	BASE STATION EXTERNAL ALARM NOTIFICATION	1403	MAINS FAIL	MRBTS-903341/EQM_R-1/APEQM_R-1/CABINET_R-1/SMOD_R-1/EAC_R-1	None
Error	2020-02-08 09:19:55	7103	BASE STATION EXTERNAL ALARM NOTIFICATION	1405	SHELTER DOOR OPEN	MRBTS-903341/EQM_R-1/APEQM_R-1/CABINET_R-1/SMOD_R-1/EAC_R-2	None
Error	2020-02-08 09:46:59	7103	BASE STATION EXTERNAL ALARM NOTIFICATION	1408	SITE ON DG	MRBTS-903341/EQM_R-1/APEQM_R-1/CABINET_R-1/SMOD_R-1/EAC_R-4	None

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The screenshot shows the Nokia Web Element Manager interface. The top navigation bar includes tabs for Site View, Detailed Site View, Diagnostics, Cells, and Carrier Aggregation. The main area displays a hierarchical tree of components. A red arrow points to a yellow box labeled 'ALARM CLEARED' next to the OPT_F1 module. The right sidebar shows 'Details' for the site, including BTS name, ID, location, time zone, and software version.

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