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EFGHKKT Deepak Yadav D			
Document Number	Revision	Date	Reference
		2020-03-27	



MOP-AMS 24 h threshold crossing

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A: Introduction

This document outlines the systematic process involved in clearing AMS 24 H Threshold crossing alarm clearance on node.

B: PRECHECK

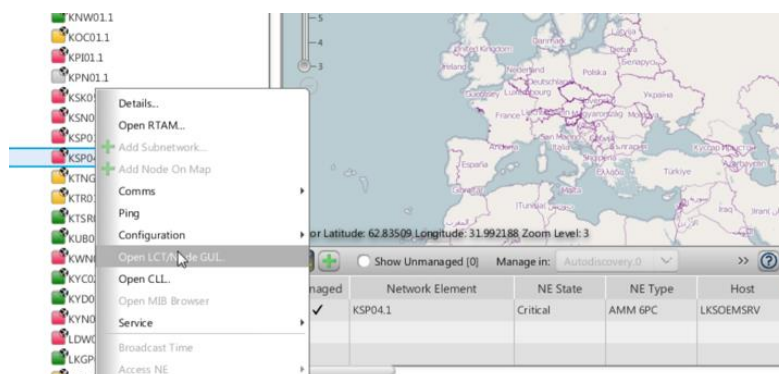
1. Check if impacted site node ping is available, if not align FE immediately.
2. If FE alignment required, he should be having required hardware.
3. FE should be having necessary software on his laptop, necessary node login tools.
4. If partial outage is there from any node, and while rectification activity, other sites also can go down for time being, ensure to have proper approval for outage window for all dependent sites for working node.

C: Procedure

Alarm Description: The terminal uses the minimum modulation longer time than the configured 24-hour threshold, due to multiple issue, radio link fading due to weather issues, or due to interference issue, antenna misalignment.

1. If node is managed, then open node using SO-EM GUI or directly from Mini-Link Craft using node IP.

Login via SO-EM GUI



Login via craft

MINI-LINK Craft 19.Q2

NE Filter: LKKN03 (192.20.8.18)

IP/Host: 192.168.133.25

User: admin_user

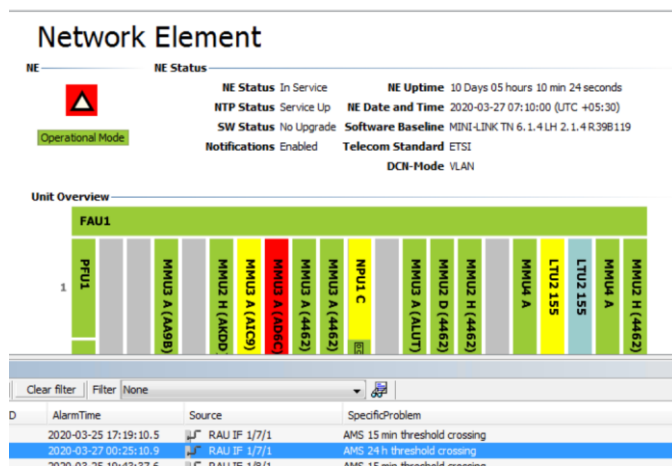
Password: ●●●●●●●●

SNMP Authentication: MD5

SNMP Privacy: None

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Example Node having alarm





- Need to verify first MW Link budget with the help of planning team.
- Verify the Radio Frequency (RF) input power level: it must be at least 5 dB above the 10⁻⁶ Bit Error Ratio (BER) threshold for the current configuration during good weather conditions. See link budget calculation for the correct level. If parameters are ok, then go to step 4.
- Check MW link performance and modulation performance. If link is running on lower modulation, then check for weather fading, or for interference.

INI-LINK Craft Menu

TN-23642

AMM 6p C

FAU2 1

PFU3 B 1/0

PFU3 B 1/1

MMU3 A 1/2

RAU2 X 23/A06 1/2.1

LAN 1/2/2

RAU IF 1/2/1

MMU2 H 1/3

MMU2 H 1/5

NPU3 D 1/7

Ethernet

Radio Links

1st

MMU3 A 1/2

RAU IF 1/2/1 - Performance Intervals Adaptive Modulation

2nd, check max and min modulation

Interval	Date	Start Time	4-QAM	8-QAM	16-QAM	32-QAM	64-QAM	128-QAM	256-QAM	512-QAM	1024-QAM
1	2020-03-28	07:00	0	0	0	0	200	0	0	0	0
2	2020-03-28	06:45	0	0	0	0	899	0	0	0	0
3	2020-03-28	06:30	0	0	0	0	901	0	0	0	0
4	2020-03-28	06:15	0	0	0	0	899	0	0	0	0
5	2020-03-28	06:00	0	0	0	0	901	0	0	0	0
6	2020-03-28	05:45	0	0	0	0	899	0	0	0	0
7	2020-03-28	05:30	0	0	0	0	900	0	0	0	0
8	2020-03-28	05:15	0	0	0	0	900	0	0	0	0
9	2020-03-28	05:00	0	0	0	0	900	0	0	0	0
10	2020-03-28	04:45	0	0	0	0	900	0	0	0	0
11	2020-03-28	04:30	0	0	0	0	900	0	0	0	0
12	2020-03-28	04:15	0	0	0	0	899	0	0	0	0
13	2020-03-28	04:00	0	0	0	0	901	0	0	0	0
14	2020-03-28	03:45	0	0	0	0	899	0	0	0	0
15	2020-03-28	03:30	0	0	0	0	901	0	0	0	0
16	2020-03-28	03:15	0	0	0	0	899	0	0	0	0
17	2020-03-28	03:00	0	0	0	0	900	0	0	0	0

ation List

filter 1 2 0 Clear filter Filter None

ty	AlarmType	AlarmID	AlarmTime	Source	SpecificProblem	ProbableCause
quality	ServiceAlarm	208	2020-03-28 00:25:11.7	RAU IF 1/2/1	AMS 24 h threshold crossing	ThresholdCrossed

- AMS alarm occurs mostly of interference or fading issue so need to check interference issue. If node is running on higher version baseline, node has option of spectrum analysis, below process to do the same, if node is on lower version, than need to check Rx level by muting Tx level of far-end and then of near-end vice-versa. Tx level should be towards reaching 90-98 dbm approx. If not need to check with planning team.

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TN-23642

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FAU2 1

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MMU3 A 1/2

RAU2 X 23/A06 1/2.1

LAN 1/2/2

RAU IF 1/2/1

MMU2 H 1/3

MMU2 H 1/5

NPU3 D 1/7

Ethernet

Radio Links

1st select radio link

Refresh

Open in New Window

Alarms and Status

Configure Radio Link

Radio Link Loops

Radio Link Loops in new Window

Control Adaptive Modulation

Control Adaptive Modulation in new Window

Spectrum Diagnostics

Spectrum Diagnostics in new Window

2nd Click on spectrum

3rd, select sub band

Operations

Scan type Sub Band Scan

Start Scan

4th, start scan

Scan Result

Notification List

Quick filter 1

Severity Alarm

Minor

quality

Source

SpecificProblem

ProbableCause

0:25:11.7

RAU IF 1/2/1

AMS 24 h threshold crossing

ThresholdCr

- After link correction alarm should be clear if link is ok then alarm will be clear automatically post 24-hour link stability.

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D: Post Check

1. Check alarm should be cleared from node.
 2. No new alarm should be generated on node.
 3. All services should be restored.
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E: Fall Back Procedure

Since MOP is for clearing AMS 24 H Threshold crossing alarm clearance on node
so, Fall-back procedure is not required.

Please note that the method of procedure is prepared as the current scenario, available devices, and deployed software version. So, activity steps and impact can vary depending upon the scenario.in that case we will further communicate.