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

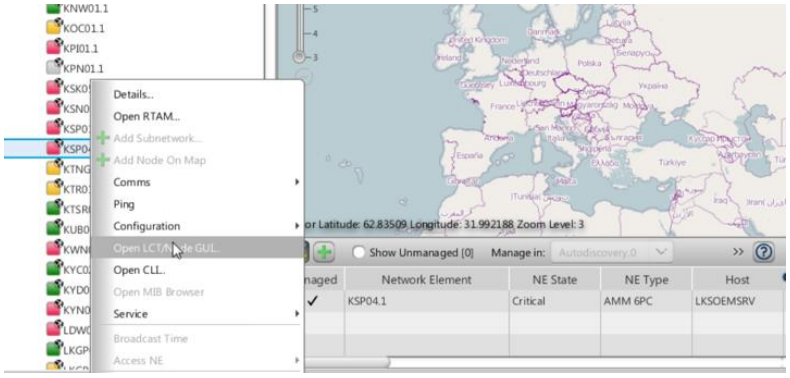
1. Check if impacted site node ping is available, if not align FE immediately.
2. If FE alignment required, he should be having required hardware.
3. FE should be having necessary software on his laptop, necessary node login tools.
4. If partial outage is there from any node, and while rectification 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



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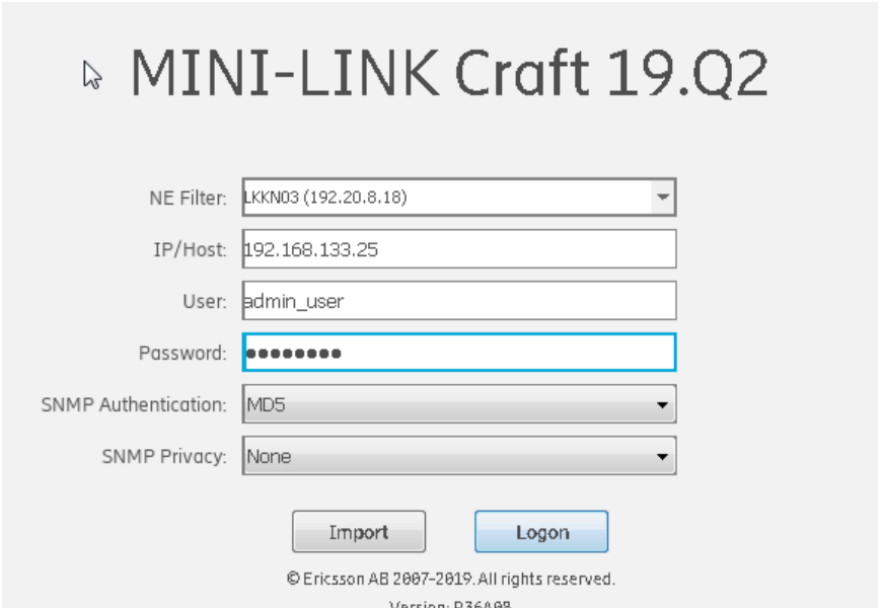
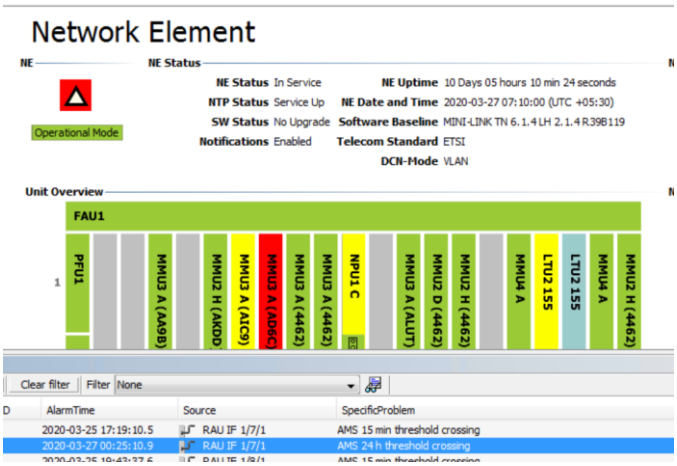
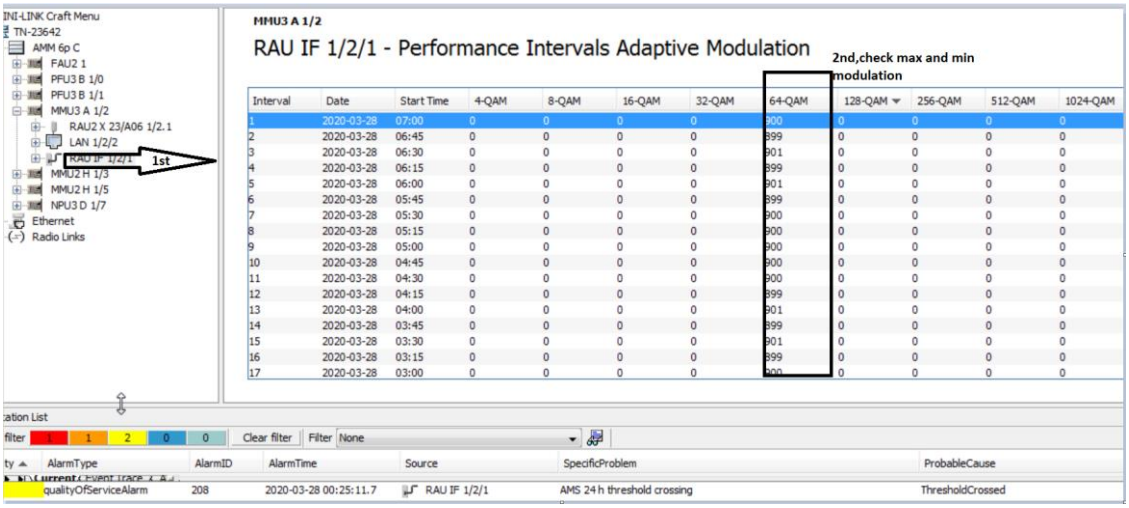
Login via craft



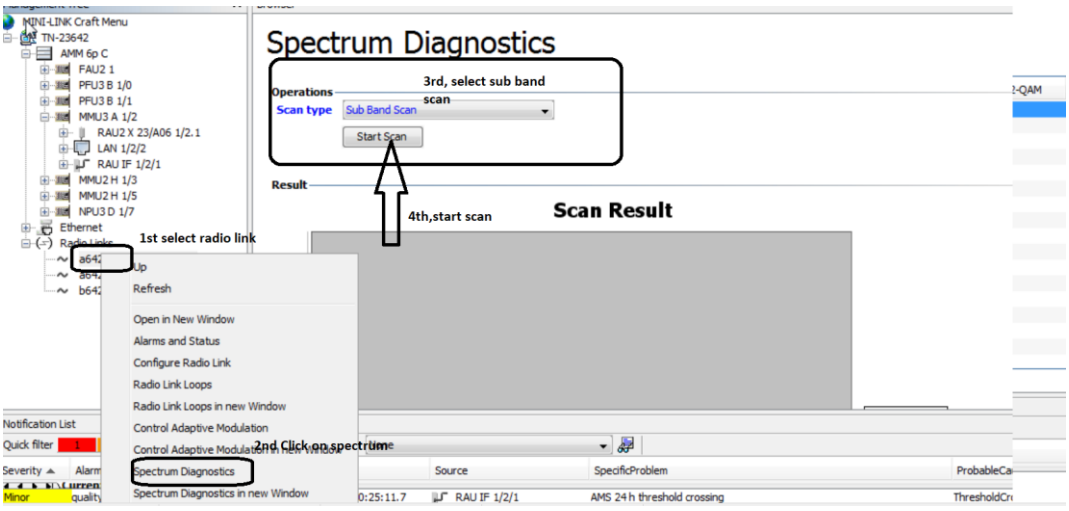
Example Node having alarm



2. Need to verify first MW Link budget with the help of planning team.
3. 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.
4. Check MW link performance and modulation performance. If link is running on lower modulation, then check for weather fading, or for interference.



5. 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 aprox. If not need to check with planning team.



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

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.

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.