

**Use Case Name:**

Resolving E2E network capacity bottlenecks with NORTH-IT™



**Summary:**

A large MNO pressed under the growing demand for with mobile data services was facing data congestion and bottlenecks. Close monitoring of network capacity was demanded for up-to-date network planning and enhancements.

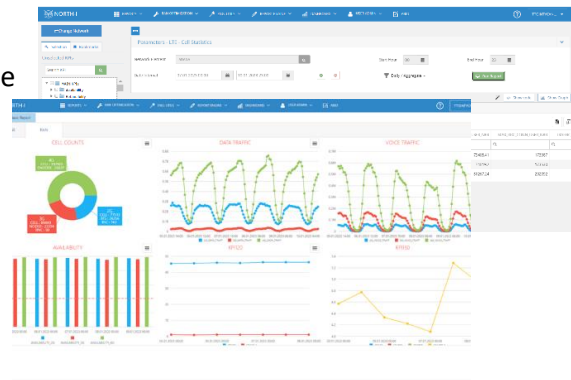
**Actor:**

Global Mobile Network Operator.

**Situation:**

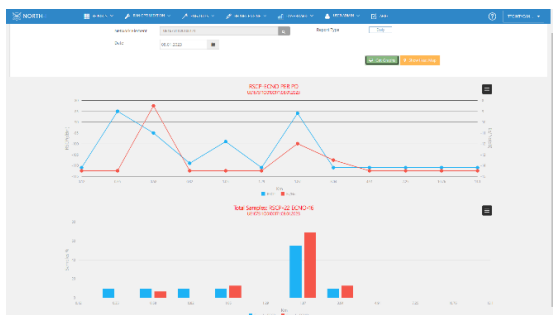
In the absence of a proactive performance monitoring system, the MNO was often late to react against congestion. Any enhancements or preventative action demanded up-to-date information on end-to-end network wide capacity status.

The MNO was seeking reliable partners to alleviate the issue which was further exacerbated by the blend of various vendors in Radio Access Network (RAN) and Transmission Network. Threshold based capacity alarms, performance trends and Worst-N and Best-N reports were critically required to resolve the capacity problems.



**Solution and Benefit:**

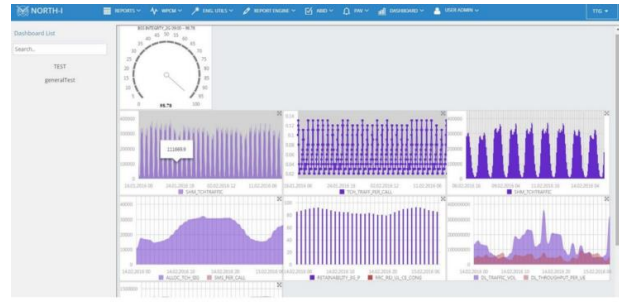
With NORTH-IT™, the mobile operator was able to carry out periodic and proactive assessment of network utilization on a daily, weekly, and/or monthly basis. This was achieved through performance alarms, performance monitoring and scheduled Worst-N reports.



NORTH-IT™ uses flexible offering off-the-shelf, weekly BH reports based on daily BH values, ranked across different days of the same week. The steps taken by the NOC/NMC engineer viewing the Worst-N reports and verifying the problem by analyzing correlation with the parameter changes (provided by CMEX™, the configuration management tool by TTG Int.) as well as network alarms at the dashboard level.

**By NORTH-I You Can :**

Implement of a centralized performance monitoring system: NORTH-I™ enables to collect and analyze data from multiple vendors and technologies assisting the operator gain a more comprehensive view of the network and identify capacity bottlenecks in real-time.



Monitor network utilization regularly: By **proactively** monitoring the utilization of the network on a regular basis, the operator can identify capacity issues before they become major problems and take steps to address them.

Use data analytics and trend analysis: By analyzing data from the network and identifying trends, the operator can identify potential capacity issues and take **preventative** measures avoiding problems before they happen.

Enhance training and knowledge sharing: Ensuring that all team members have a strong understanding of the network and how to use the management tools can improve **efficiency** and reduce resolution times.

Use off-the-shelf reports and alarms and KPI's: By using pre-defined reports and alarms, the operator can promptly start analyzing the, increasing **productivity**.

**Overall**, implementing a centralized performance monitoring system armed with data analytics and trend analysis helps the operator improve network capacity while meeting the growing demand for mobile data services.