

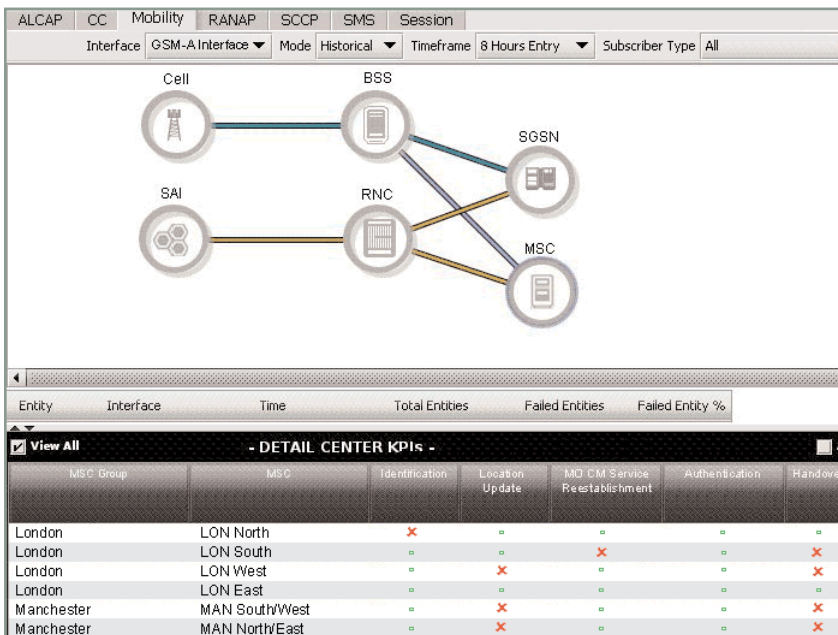
# APM™ | GSM A-Interface

## Network Assurance for Mobile Networks



### Mobility Management and Call Control Performance

The introduction of GSM A-Interface support enhances Tektronix' APM offering with extended visibility into call control and mobility management procedures for 2G Voice and SMS services.

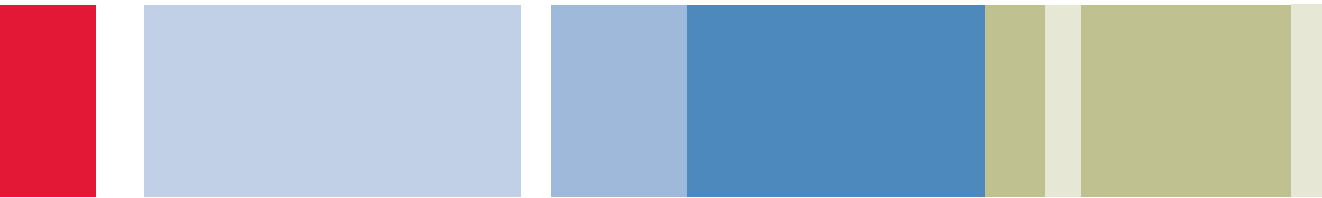


The Operations application provides real-time or historical notification of network service degradation through the Operations Dashboard.

- Provide valuable insight into network utilization for informed capacity planning activities.
- Improve subscriber satisfaction levels by monitoring accessibility, mobility and call/session performance.
- Validate voice and SMS services delivered to "visitors" roaming in your network
- Track voice and SMS performance by geographic and logical locations.

### Network Assurance Packaging

- The Operations application provides real-time and historical service performance metrics correlated by node and a guided troubleshooting path for accelerated problem resolution.
- The Management application provides an extensive array of reports including Service Summary, KPI Fault, Release Cause Category Fault and Release Cause Fault.
- The Planning application offers longer-term, OLAP-based trending and analysis capabilities available for presentation by Dimensions and Measures.



## GSM A-Interface Dimensions & Measures

### Dimensions:

- Date
- MSC (Group, Node, BSC)
- Location
- MS (Manufacturer, Model)
- Subscriber\* (Type, Group)
- Procedure (Mobility Management, Call Control, SMS, SCCP)
- Release Cause (Category, Type, Value)
- Bearer Capability (Speech, Unrestricted Data, 3.1 KHz Audio, Fax, V.120, H.223 & H.245, PIAFS)
- Traffic Class (Conversational, Streaming, Interactive, Background)

*\*Support for roaming PLMNs available if licensed*

### Measures:

- Procedures: Total, Successful, Successful %, Failed, Failed %
- Duration: Maximum, Average of Completed Procedures
- Bin Count: Total, Excellent, Good, Fair, Poor, Unacceptable

## Key Performance Indicators

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>■ <b>Mobility and Security:</b> Identification, Authentication, Ciphering Mode, Location Update, CM Service</li> <li>■ <b>Retainability:</b> Call Drop Rate</li> </ul> | <ul style="list-style-type: none"> <li>■ <b>Accessibility:</b> Call Setup Success, Call Setup Time</li> <li>■ <b>Handover:</b> Inter BSC Handover, Inter Cell Handover, Intra Cell Handover</li> <li>■ <b>SMS:</b> MO SMS, MT SMS</li> </ul> |
|---|--|

### About Tektronix:

Tektronix has more than 60 years of experience in providing network operators and equipment manufacturers a comprehensive and unparalleled suite of network diagnostics and management solutions for fixed, mobile, IP and converged multi-service networks.

These solutions support such architectures and applications as fixed mobile convergence, IMS, broadband wireless access, WiMAX, VoIP and triple play, including IPTV.

### For Further Information:

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

Please visit [www.tektronix.com/communications](http://www.tektronix.com/communications)

### Contact Tektronix:

Please visit [www.tektronix.com/communications](http://www.tektronix.com/communications)

Phone:  
1-800-833-9200 option 1  
+1-469-330-4000

Locate your nearest Tektronix representative at [www.tektronix.com/contactus](http://www.tektronix.com/contactus)