



Diagnosis Tools

Keep the overview or go into details!

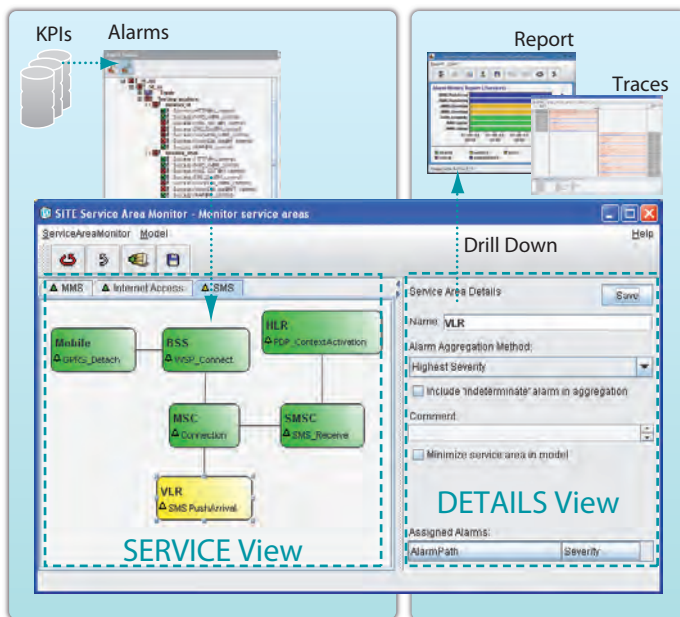
Service Alarm Map

The Service Alarm Map is used to visualize mobile network services that target a specific service area. Alarms that are generated by the failure or degraded performance of services can be linked to a specific network element within the operator's infrastructure.

This function is implemented by careful correlation between the specific elements used within a test case execution and the overall network topology which has supported the test scenario that generated the alarms.

An example could be a WAP test initiated from a wireless interface located at latitude (x), longitude (y). The topology for this scenario would use specific BTS/node B, BSC/RNC infrastructure, assigned to an MSC/SGSN finally reaching a specific content portal.

Each piece of network information and trace is processed to provide significant data on the actual network performance and functionality, finally the data is combined to give a total service area view.



SERVICE View

With Service view you get an easy high level overview about the status of the whole network.

DETAILS View

The Details view is accessed via single network elements of the Service view. It shows exactly which test case leads when to which failures.



- Service Alarm Map
- 3G Layer 3 Tracing

3G Layer 3 Tracing

Deeper insight into message flow with 3G Layer 3 tracing

Keynote SIGOS offers 3G Layer 3 tracing which is very important for telecommunication network testing. The primary goal is to get a deeper insight into the message flow and the protocol data exchanged between mobile station and network.

On Qualcomm-based 3G mobile probes Keynote SIGOS records traces of the Layer 3 Non-Access Stratum (NAS) signalling messages sent and received by the mobile.

The information contained in these traces is vital for monitoring and troubleshooting the communication between mobile station and core network.

Optionally, the NAS traces are supplemented with traces of Radio Resource Control (RRC) signalling messages exchanged between the mobile and the 3G radio access network. These RRC traces provide valuable additional information, facilitating monitoring and troubleshooting of the Access Stratum (AS) as well.