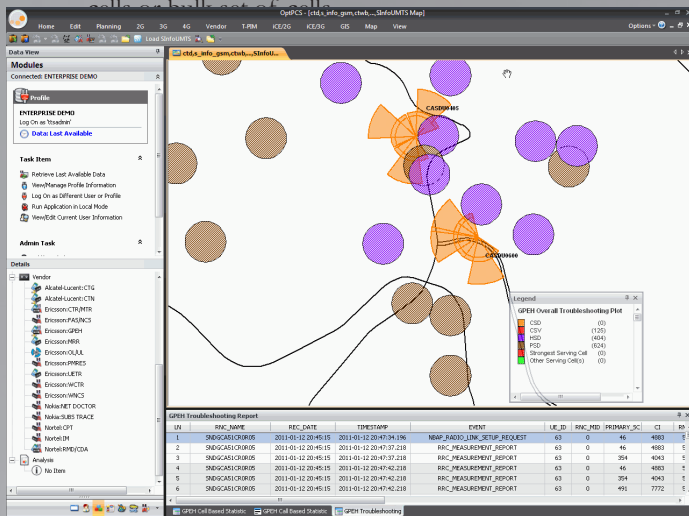


Increase Optimization ROI

OptPCS™ Ericsson GPEH delivers unmatched productivity gains to engineers troubleshooting and optimizing complex multi-band, multi-vendor 2G/3G networks (4G/LTE planned). In the new OptPCS™ Ericsson GPEH server architecture, all recordings are automatically pulled from the OSS and processed for each market down to the cell level. Engineers can now focus on analyzing dropped calls, neighbors and their corresponding performance. GPEH provides engineers with automated missing neighbor reports and script generation tools to quickly implement neighbor additions, deletions and re-prioritizations.

- ◇ Access to daily and archived recordings for performance analysis
- ◇ Missing Cell Identification reconciles cell names from scrambling code information.
- ◇ Automated Missing Neighbor reports generated and delivered to any RSS device.
- ◇ Interactive OSS Script generation tool to implement neighbor additions, deletions, and reprioritizations for individual



Single Point of Access to all your Data

OptPCS™ an access all GPEH scheduled recordings, either the latest or archived recordings, from one centralized location. From a single interface, OptPCS™ users can overlay GPEH data with drive test data, other switch recorded data, network topology (both physical and switch parameters) and performance statistics necessary to troubleshoot complex network issues.

- ◇ Works with TEMS™ Investigation, TEMS™ Classic, Nokia NEMO, Invex3G, DTI Scanner, Xtel, Agilent, Swissqual, Ascom, Wider and ZK Celltest as well as other vendors' drive data collection tools with an open file format.
- ◇ Supports multi-band, multi-vendor network infrastructure and switch data and recordings from Ericsson, Nortel, Nokia, and Alcatel-Lucent.



Target Problem Areas Quickly

OptPCS™ provides 2G/3G networks (4G/LTE planned) near real-time automated troubleshooting functions. Engineers can significantly reduce time identifying and resolving dropped calls and setup failures.

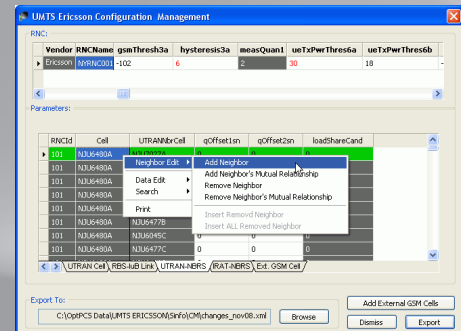
- ◇ Near real-time call coverage maps to identify and target coverage holes.
- ◇ Call type filtering (CSV, CSD, PSD, HSD) for targeting voice from data calls.
- ◇ Call event details and message event details for complete analysis.

The screenshot shows two windows from the OptPCS™ software. The top window is 'GPEH Call Summary' with a table of call records. The bottom window is 'GPEH Message Detail' showing a detailed view of a specific message event.

RN	DATE	TIMESTAMP	EVENT	C_ID	RRR_MD	CALL_TYPE	RESULT	FAIL_CAUSE	START_TIME	END_TIME
SH02CAS1CR08S	2011-01-25 02:00:14	02:00:14	RRR_MEASUREMENT_REPORT	63	0	PSD	SETUP_FAIL	-1	2011-01-25 02:00:14	NA
SH02CAS1CR08S	2011-01-25 02:00:14	02:00:14	RRR_MEASUREMENT_REPORT	63	11	PSD	SETUP_FAIL	-1	2011-01-25 02:00:14	NA
SH02CAS1CR08S	2011-01-25 02:00:14	02:00:14	RRR_MEASUREMENT_REPORT	63	13	HSD	UNSP	unspecified	2011-01-25 02:00:14	2011-01-25 02:00:14
SH02CAS1CR08S	2011-01-25 02:00:14	02:00:14	RRR_MEASUREMENT_REPORT	64	7	PSD	SETUP_FAIL	-1	2011-01-25 02:00:14	NA

Implement Recommendations Seamlessly

- ◇ Neighbor relation GUI utility to implement neighbor additions, deletions, and reprioritizations.
- ◇ Single or bulk cell change functions to reduce time and error in parameter changes.
- ◇ One-click XML script generator for changes to be executed and rolled back (back-up script) in Ericsson OSS.
- ◇ OSS Script Merge facility to further reduce time in executing scripts at the Ericsson OSS.



Telecom Technology Services, Inc.