



Locating and solving RF problems can be like trying to catch the wind... Not anymore!

The Problem

- Dropped call statistics in a sector are increasing and customers are complaining.
- You study the situation, but there is no clear indication of the reason for the problem or how to solve it.
- You test drive the area, but you still cannot pinpoint the cause of the problem and its potential impact.
- Optimization software cannot pinpoint the cause of the problem.



Optimization solutions cannot differentiate between problems within the same sector thus cannot solve them. Drive tests will not detect certain dropped call problems since they sample the network sporadically and often employ different handsets than those used by subscribers. For subscribers who pass there regularly, the quality of service is unbearable and reflects badly on the network.

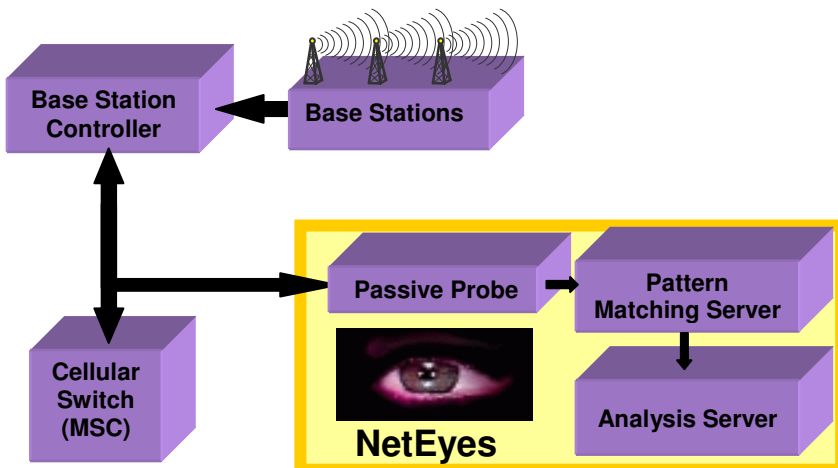
The NetEyes Solution

Phase 1: Identifying Each Problem and Measuring Its Impact

- NetEyes tracks all information at the A interface. It identifies the repeating patterns that lead to a network problem and clusters similar patterns to identify chronic problems.
- NetEyes enables the RF engineer to filter out sporadic problems, sort chronic problems by importance and focus on solving them.

Phase 2: Solving Each Cluster of Problems

- NetEyes provides the circumstances and the required parameters for all clusters of dropped calls, poor call quality and 3G-2G switching events.
- NetEyes enables the RF engineer to isolate each cluster of problems, easily identify its cause and find a solution without diving into the huge data stream of cell sector statistics and test drives.
- Many of these problems can be eliminated by changing software parameters. NetEyes guides you.



Customer Testimonial

"NetEyes turns RF optimization from trial and error into a focused and structured engineering task"

NetEyes Technology

NetEyes utilizes its patented pattern-matching technology on cellular signaling data to find clusters of recurring problematic events using subscribers as test drivers. These clusters are sorted according to their size and significance, and each cluster is analyzed to detect its location and the major causes of its problem. This enables the operator to prioritize the required changes and to implement them while monitoring the network to verify that the clusters were indeed eliminated.

NetEyes Benefits: Customer Experience

Category	Impact	Contribution
New Problem Detection	25%	NetEyes detects problems that are often new to the RF group and that could not be derived from cell-sector statistics nor detected by drive tests.
Solutions	55%	NetEyes plays a critical role in solving 55% of the problems that couldn't be pinpointed or solved easily by other methods. NetEyes supplies the circumstances, scope, and location data required to solve these problems.
Prioritization	100%	NetEyes sorts all problems by significance and common circumstances, enabling problem prioritization per magnitude and cost/value. No time is wasted on sporadic problems which are automatically filtered out.
Verification	100%	NetEyes continuously monitors the network providing fast verification that the problems were solved.
Timesaving	50%	NetEyes saves 50% of the time required to optimize while achieving better quality.
Parameter Setup Iterations	70%	NetEyes gets to the solution fast and reduces the number of iterations required with other methods.
Drive Test Reduction	80%	NetEyes reduces drive tests required to detect and solve such RF problems.

NetEyes Specifications

Category	System Specifications
Type of Problems	Dropped calls, poor call quality, switching between 3G and 2G, etc.
Type of Networks	GSM, EDGE, UMTS (H2 2007)
Network Interface	Passive maintenance probe: Agilent, Performance Technologies, etc.
Deployment Time	System can be deployed in days for an entire metro area
Real Time Reports	Reports are produced through the standard Windows interface

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