

ULTIMA FORTE™

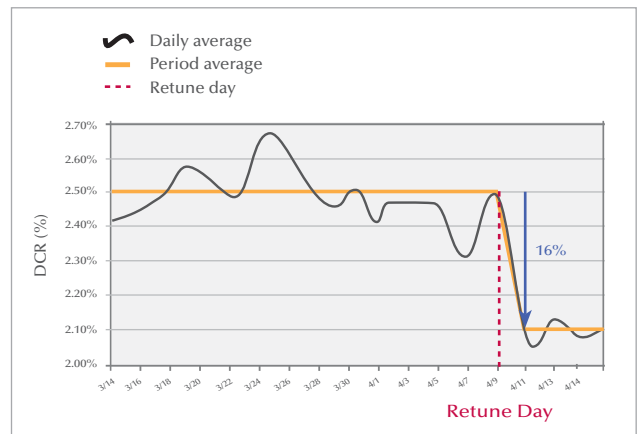


MOBILE MEASUREMENTS BASED RF
OPTIMIZATION FOR GSM NETWORKS

OVERVIEW

Ultima Forte™ is an automatic, user friendly RF optimization product for GSM/UMTS/HSxPA networks and their interface with UMTS/HSxPA technologies. Ultima Forte™, which is compatible with all major vendors, including Ericsson, Nokia, Nortel, Alcatel, Siemens, Motorola and Huawei, enables operators to significantly improve data throughput, voice quality, capacity and coverage.

Ultima Forte™ provides an accurate network model based on mobile measurements (real-time data generated from subscribers' handsets), today's most reliable source of information for network modeling. Engineers use this model to analyze the network and produce the ultimate optimization plan.

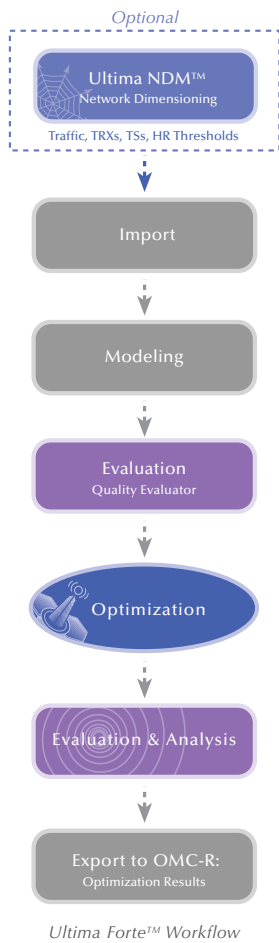


KEY BENEFITS

- Increases revenue by improving network performance, driving up minutes of use and reducing drop calls
- Raises customer satisfaction and reduces churn by improving network accessibility, retainability and voice quality
- Reduces CapEx and OpEx by optimizing utilization of network resources, reducing the need to invest in new infrastructure
- Shortens network optimization time through frequent and accurate modeling based on mobile measurements
- Accelerates network expansion through planning based on forecasted growth, usage patterns and new features
- Fully integrated with Ultima NDM™ to provide a complete dimensioning and frequency planning cycle
- Improves seamless transition between 2G and 3G networks, increasing quality of service and customer satisfaction

SCHEMA

ULTIMA FORTE™



Optimization Modules

ULTIMA FORTE MODULES

Importer – automatically imports the network configuration and mobile measurements from the OMC-R without pre-processing the data.

Modeler – creates a true mathematical representation of the wireless network based on mobile measurements gathered and imported from one or multiple vendors.

Quality Evaluator – performs state-of-the-art GSM network RAN simulation that can be used for KPI-based evaluation for benchmarking the current network configuration performance and the performance of proposed frequency plans and parameter changes. Evaluation also can be used for comparing internal and external simulated network performance with actual network performance statistics to validate the accuracy of the network model.

Frequency Optimizer – enables daily optimization activities including instant allocation of clean frequencies for new sites and automatic frequency planning for complex network architectures such as hierarchical cell structures, dual band and mixed frequency allocation schemes.

Neighbor-List Optimizer – identifies missing neighbor relations and removes redundant ones, reducing dropped calls and handover failure rate for GSM networks or improves GSMUMTS seamless transition and service quality between the 2G-3G network layers by adding missing IRAT neighbors, removing redundant ones and reporting parameter discrepancies between the networks.

RAN Feature Optimizer – performs local optimization of parameters related to handover, GPRS/EDGE, traffic load balancing and others, maximizing overall network performance.

Exporter – automatically exports the optimization results to the operator's OMC-R without pre-processing the results.

