



FORTE

Spectrum Refarming & GSM Optimization



www.teoco.com

FORTE



Forte is a powerful 2G optimization tool delivering highly automated, measurement-based, spectrum refarming, and GSM optimization.

As operators focus on their 3G, 4G and 5G networks, the 2G network still has an important role to play. By maximizing spectrum efficiency of the 2G network, excess spectrum can be refarmed and utilized for additional capacity on newer technologies.

Additionally, in many areas, the 2G network is still the primary voice and emergency calling network. A well optimized 2G network is therefore still a critical necessity for many subscribers.

Forte maximizes network quality, capacity and coverage through accurate network modeling based on advanced simulations and a measurement-based approach. Highly automated data collection, parsing, analysis, and implementation scripts improve operational efficiency.

Minimize your GSM spectrum and maximize network quality



MULTI-VENDOR

Compatible with all the major GSM network equipment vendors.



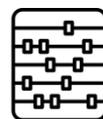
SPECTRUM REFORMING

Refarm underutilized spectrum for additional 3G and 4G capacity.



OPERATIONAL EFFICIENCY

Automated data collection, parsing, analysis, and implementation scripts.



MODELING AND SIMULATION

Accurate measurement-based network modeling and advanced simulations.



SPECTRUM REFORMING

As customers adopt newer technologies, older networks become under-utilized, allowing spectrum to be reformed with no degradation of performance for users.

Forte's measurement-based approach uses advanced simulations and accurate network modeling to deliver best-in-class spectrum refarming. It delivers future proof plans by incorporating expansions into the design and is highly efficient with automated data collection, parsing, analysis, and implementation scripts.

Our experience shows that Forte's measurement-based approach achieves significantly better results than a traditional prediction-based approach. This is primarily due to discrepancies between the planning tool and the actual network which cause prediction-based approaches to produce inconsistent results.



NETWORK OPTIMIZATION

Forte delivers best-in-class optimization of complex multi-vendor GSM networks:

- **Automatic frequency planning** enables instant allocation of low interference frequencies for new sites, and automatic frequency planning for complex network architectures, such as OL/UL, dual-band and mixed-frequency allocation schemes.
- **Advanced neighbor-list optimization** identifies missing neighbor relations and removes redundant ones. This improves subscriber mobility, reducing dropped calls and handover failures.
- **Sophisticated RAN parameter optimization** covers local optimization of parameters related to handover and traffic load balancing, helping to maximize the overall network performance.
- **Troubleshooting** capabilities include wrong azimuth, swapped sectors and overshooting sector detection.

ABOUT TEOCO



TEOCO is a leading provider of analytics, assurance & optimization solutions to over 300 communication service providers (CSPs) and OEMs worldwide.

Our solutions enable the digital transformation of CSPs while enhancing their network QoS, improving their customer experience and reducing their operational costs.

Through advanced analytics and automation, TEOCO solutions provide actionable and measureable insights into network and customer behavior. This includes the optimization, effective monetization, and delivery of new and existing services, such as VoLTE and Video.

Our commitment to network flexibility and agility makes TEOCO the obvious choice for CSPs looking to leverage NFV/SDN and the rise of 5G, and to maximize the revenue potential of new opportunities tied to video and the emerging Internet of Things (IoT).



**Global
Footprint**



**Extensive
Portfolio**



**Proven
Solutions**



“TEOCO’s market leading position in Engineering Systems reflects the success of its extensive network planning and optimization solution set, built by some very cohesive acquisitions and integrated effectively to form a leading portfolio”

- Analysys Mason