



## INTELLIGENT SELF-ORGANIZING NETWORK

Make the *INTELLIGENT* network automation and optimization choice



*Innovile's* SON (Self-Organizing Network) – *INTELLIGENT* – uses AI (Artificial Intelligence) and proprietary algorithms to continuously track and adjust your network's parameters and configuration. MNOs use it to augment network operations or enable full automation, lowering costs with a simple, flexible architecture. The SON solution works across networks, including 2G, 3G, 4G, and 5G, with equipment from all vendors. It has predefined connectors and interfaces to work with any software or network element, even if you have existing network optimization components.

In essence, the multi-vendor and multi-technology SON solution dynamically optimizes all network elements until it achieves the best possible performance. MNOs are able to automatically detect and fix network problems before they degrade the customer experience. This enables you to increase the quality of service, reduce churn and improve revenues.

### WHAT IS MEANT BY SELF-ORGANIZING?

Self-organizing networks are systems that automate your network configuration, fault diagnostics, performance optimization and enable the self-healing of mobile telecoms networks at both the micro and macro levels.

### KEY ADVANTAGES OF OUR *INTELLIGENT* SON SOLUTION

#### Multi-vendor, Multi-technology Support

Utilize our future-proof Self-Organizing Network solution across all network elements to streamline network management. *INTELLIGENT* evolves with you when you include new components or update existing technology.

#### Enhance the Customer Experience

Enhance the quality, lower the number of complaints, and make sure your clients are satisfied. Achieve up to 20% fewer dropped calls and dramatically reduce network issues.

#### Increase Your Network Capacity while Lowering CAPEX

Automate network configuration to boost efficiency, increase capacity, and minimize issues. With *INTELLIGENT*, you can increase throughput by up to 30% and network capacity by up to 25%.

#### Reduce OPEX By Automating

Reduce manual effort by up to 75% and optimize energy consumption by up to 5%. *INTELLIGENT* works for your bottom line.

# THE ARCHITECTURE OF *INTELLIGENT* SON AND ITS MODULES

Our SON has several functions that enable it to automate processes and optimize the network.

## Automatic Neighbor Relations (**ANR**)

ANR enables base station-level automatic cell relations setup, improving network capacity and quality.

## Configuration Consistency Audit and Correction (**CAC**)

CAC tracks network settings for inconsistencies in your network configuration and automatically corrects them when needed.

## Capacity and Coverage Optimization (**CCO**)

CCO examines network improvements, including LAC/TAC assignments, over-, and under-shooting cells, congestion locations, and cross-feeders for automated modification or for your engineers to perform a manual review.

## Mobility Robustness Optimization (**MRO**)

MRO improves dropped call/connection and handover (HO) rates, the cell-to-cell handover of user devices, cell-reselection parameters, and idle mode.

## Self-Healing (**SH**)

SH incorporates Fault Management (FM) components with Performance Management (PM) to identify and address any deterioration in network performance.

## Mobility Load Balancing (**MLB**)

MLB allows your team to automate traffic assessment and set up adjustments to maximize throughput and power efficiency. The module is excellent for controlling network traffic and energy expenses.

## Automatic Plug-and-Play Optimization (**APO**)

APO streamlines and optimizes the new cell site setup by matching settings to the neighbor's performance, location, codes, and parameters for the best-performance state

## Code Optimization (**CO**)

CO uses automated techniques to control code utilization and interference. It adjusts variables, including PCI, BCCH/BSIC, PSC, TCH, and RSI.

## Energy Savings (**ES**)

ES adjusts or suspends cells or carriers based on historical data to forecast demand.

## Special Event Management (**SEM**)

During high-demand events like football games, concerts, or emergencies, SEM runs in close to real-time and ensures the best load and quality control.

Are you ready to take your mobile telecom network to the next level and make your customers happy? Our *INTELLIGENT* SON solution can do this and much more. Please [contact us](#) for a demonstration and consultation.

