INNSPIRE

Mobile Network Configuration

SIMPLIFY YOUR NETWORK WITH INNSPIRE

HIGHLIGHTS

INNOVILE

Automation-Driven Configuration Management

Innovile addresses one of the primary challenges faced by operators—Configuration Management (CM), a vital process ensuring network performance consistency. Our comprehensive and cost-effective INNSPIRE- CM solution simplifies this critical process.
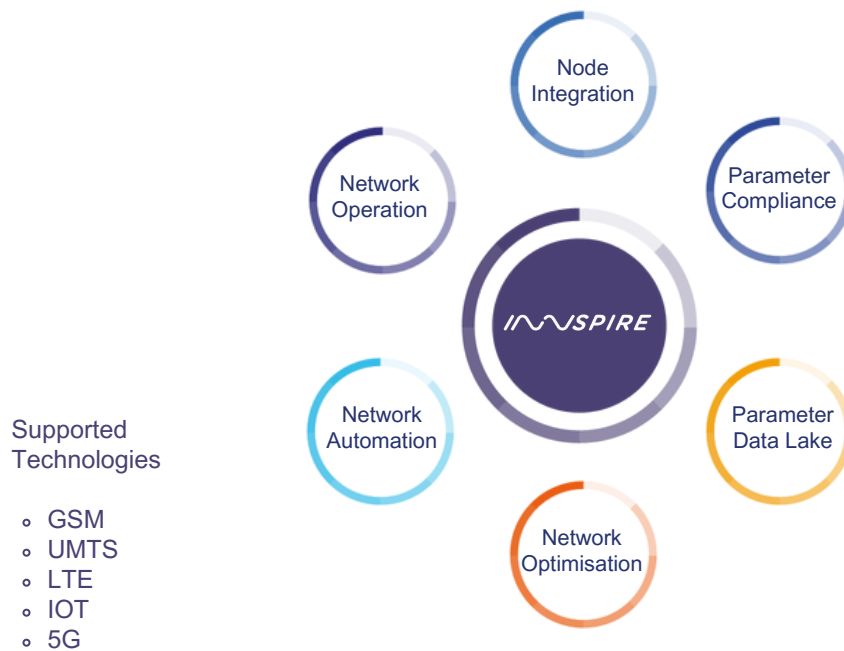
With INNSPIRE CM, clients gain a unified network access point, allowing vendor-independent command execution. This streamlines management complexity and eliminates hidden costs associated with multiple management tools and expertise. Advanced user role and node management capabilities further empower operators to grant specific access, adhering to the safest model for managing Operation Support System (OSS)/Network Management System (NMS) activities aligned with 3GPP and TM Forum standards. Experience seamless network performance with Innovile's cutting-edge Configuration Management solution.

INNSPIRE CM is an OSS configuration management solution for mobile operators that manage integrations, parameter changes, and inconsistencies. The solution has a user-friendly web platform implemented as a transparent management solution covering all access technologies (2G, 3G, 4G, and 5G).

Our objective as a solution provider is to make our solutions simple to run by handling objective complexity in the backend. The platform offers a vendor-independent operating interface that can be adapted to any OSS vendor and enables any external open API integration.

Modular Structure of INNSPIRE Configuration Management

Node
Integration

Network
Operation

Parameter
Compliance

INNSPIRE

Network
Automation

Parameter
Data Lake

Network
Optimisation

Supported
Technologies

- GSM
- UMTS
- LTE
- IOT
- 5G

Network Operation:

- Modifies the parameter changes
- Modifies neighbors according to the operator strategy
- Executes automatic script generation
- Enables quick roll-back scenarios
- Supports single or group parameter changes
- It supports moving, deleting, and creating any elements
- Enables Feature Activations
- Enables PTN Operations
- Makes Neighbor Management
- Manages IP preparations

Network Optimization:

- Monitors parameters
- Generates intelligent reports
- Enables Performance Management (PM) & Fault Management (FM) correlation
- Makes license controls
- Detects inconsistencies
- Manages dashboards
- Provides Map GIS support

Parameter Compliance:

- Controls baseline inconsistencies
- Checks forbidden & golden parameters
- Enables version controls
- Manages exception & freeze parameters

Node Integration:
- Manages New Site Integration
- Creates SCF
- Rehoming Operations
- Enables Cell Rotate

Network Automation:
- Module triggering automated actions to minimize operational risks (by enabling reliable and error-free task execution while reducing process time)
- Automatic Baseline Inconsistency Correction
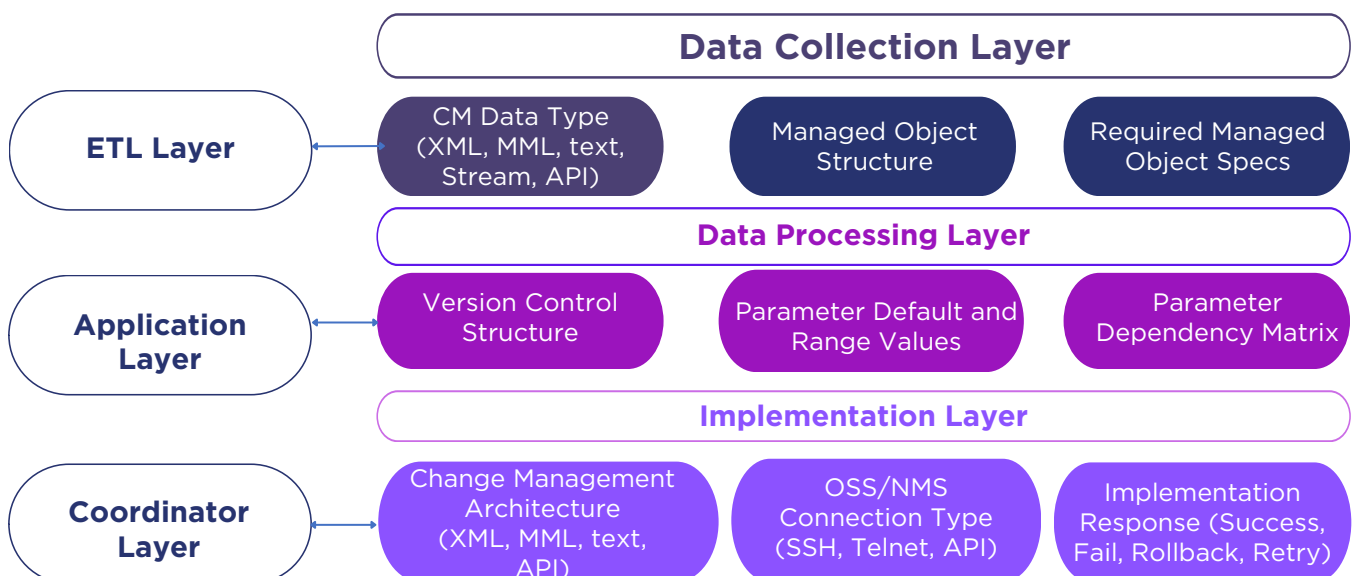- Self-Healing
- Self-Optimization

Parameter Data Lake:
- The parameter database consolidates all of Innovile CM's powerful functions into a single data source, encompassing both recent and historical data for seamless operation.

Change Request Management:
- Internal Change Request module connects all modules and enables different teams to work on a single platform.

INNSPRIRE Configuration Management Architecture

ETL Layer	**Data Collection Layer**		
	CM Data Type (XML, MML, text, Stream, API)	Managed Object Structure	Required Managed Object Specs
Application Layer	**Data Processing Layer**		
	Version Control Structure	Parameter Default and Range Values	Parameter Dependency Matrix
Coordinator Layer	**Implementation Layer**		
	Change Management Architecture (XML, MML, text, API)	OSS/NMS Connection Type (SSH, Telnet, API)	Implementation Response (Success, Fail, Rollback, Retry)

INNSPIRE Benefits

50%
COST SAVINGS

70%
TIME SAVINGS

20%
LESS ERRORS

Generates Instant Inconsistency Reports
- No manual Excel macros and data comparison tables
- No SQL queries

Creates Daily Health Check Reports
- Creates workspace
- Schedules automated emails
- Creates custom queries based on data from nodes, KPI statistics, and configuration management options

Easy Tracking of the History Parameter Changes
- Generates quick reports on parameters and neighbors
- Compares default parameters with live network
- Simple User-Friendly web interface for all vendors and technologies

Performs Planning and Integration of the New Nodes
- Automatic integration of network elements upon activation of new base stations, including automatic scheduling of basic BS parameters and neighbor lists
- Creates CDD for new nodes in 10 minutes

Reduces Network Operating Costs
- Reduces LOE by more than 50% (in person-days) by automating routine manual operations
- Eliminates maintenance and rework costs for heterogeneous tools, including in-house development
- Enables automatic detection of configuration errors and rapid remediation - increases QoS, reduces equipment downtime
- Provides low total cost of ownership (TCO) - low development cost

Reduces effort and time to manage the network

- Improves cost utilization by managing vendors' hardware, licenses, and features.
- Increases team efficiency with correlation functions while troubleshooting the network.
- Executes automated tasks, like control baseline and inconsistency verifications, eliminates manual-triggered operations, and increases NOC team efficiency.

Improves user experience by bringing correct parameter settings

- Increases accessibility by automatic correction of wrong parameters.
- Enhances network retainability by automatically rectifying incorrect parameters, reducing high drops or frequent handovers.
- Improves Uplink and downlink throughput.

Reduces churn and decreases portability issues