



# Integrated, Accurate, Accessible

## Inventory Solution for Telecoms

CROSS is an intelligent inventory platform that allows telecoms operators to understand every resource and service in their network at the fastest and deepest level possible. Integrated, accurate, and accessible data in CROSS ensures every process, system, and user that requires inventory has one place they can trust to provide answers.

### Solution

CROSS consolidates or replaces multi-domain OSS inventory systems and catalogs with a single source of truth. It integrates all resources in the network and their relationships across physical, logical and virtual layers, and connects them with the services they support – all transformed into one centralized data model.

The platform is configurable, browser-based, and combines a geographic view of physical network assets – active and passive – with a fully-connected topological model of all network layers. Open APIs and a library of probes enable CROSS to integrate using multi-directional data exchange with external systems, workflows and the network, to drive new efficiencies and reduce OPEX through optimization. The CROSS database can be automatically kept up-to-date from existing legacy systems, ensuring ongoing data accuracy.

### Benefits

CROSS empowers Network and Service Operations and Commercial teams to be more efficient by providing immediate, accurate, and complete visibility into the network.

This allows resources and services to be optimized and deployed faster, network troubles planned for and resolved quicker, and future resources and networks to be planned and built more efficiently.

By integrating and simplifying the inventory architecture, operations are made smoother and future networks and transformation projects are set up to succeed. These projects could include:

- Consolidating inventory catalogs and legacy OSS
- Accelerating design and roll-out of future networks (i.e. MPLS, Fiber/FTTx, 5G)
- Transformation toward automated networks and OSS/BSS workflows

### How is CROSS different?

#### — New Inventory Asset

Rather than take just a federated “snapshot”, CROSS integrates the entire inventory record, within a new accessible data model.

#### — Vendor and Data Agnostic

Data is supported in its native state regardless of quality; work immediately with CROSS and prepare for data quality improvement.

#### — 360-degree Visibility

All objects, resources, and services are linked, providing an all-encompassing view of the entire network and its interdependencies.

#### — Rapid Implementation

Our low-risk implementation and deep knowledge of data sources allow CROSS to be introduced in a rapid cost-effective way that avoids a disruptive “big bang”.

## Business Cases

- **Consolidate OSS Inventory**  
Consolidate multi-domain/vendor inventory catalogs, i.e. following M&A or when preparing the network for future growth and automation.
- **Reduce OPEX & Contain CAPEX**  
Retire legacy OSS and cut maintenance overhead; optimize capacity and leased contracts; free up Operations and Sales teams.
- **Shorten Time-to-Revenue**  
Bridge OSS inventory with BSS to automate workflows, i.e. zero-touch service provisioning and accelerate time-to-revenue.
- **Scale Inventory for Automation, 5G and IoT**  
Extend inventory and capture new devices and assets in one place; eliminate dependency on spreadsheets and paper records.
- **Meet Compliances & SLAs**  
Dynamically model and associate SLAs to provisioned services; correlate service activities to SLA commitments.
- **Secure Data Governance**  
Reduce confusion and human error, strengthen collaboration across departments, and provide teams with a common inventory data set.

## Use Cases

- **Automate B/OSS Workflows**  
CROSS Open APIs enable network and service processes to be automated, reducing costly human error and accelerating workflows.
- **Model Current & Future Networks**  
Capture both a current and future model of the network, ensuring current operations are efficiently managed while planning for the future.
- **Query Assets and Relationships**  
Network/Service Operations can drill effortlessly into the complete model of the network and put all resources and services in context.
- **Improve Data Accuracy**  
Data quality assurance features improve data accuracy, making teams more efficient and reduces tedious data cleansing.
- **Prepare for Disruptions**  
Service Impact Analysis ensures critical network events are proactively planned for and communicated in advance with impacted customers.
- **Resolve Network Troubles**  
Perform RCA by correlating alarms from NMS with resource inventory to instantly identify the physical root cause of a failure.



## About CROSS Network Intelligence

Founded in 2014, CROSS Network Intelligence (CNI) is an international team of telecom professionals dedicated to delivering industry-leading OSS/BSS solutions. The CNI team has extensive domain and technical expertise, both from the customer and vendor side, from companies such as GE (Smallworld), Vodafone, Ericsson, T-Mobile, BT, Oracle, Cisco, IBM, and more. CNI is supported by a strong network of global partners.



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