COPS, a solution for network performance and optimization

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Introduction to COPS

COPS™ is a multi-technology, multi-vendor, end-to-end solution that fully addresses the needs of network management, for simple to extremely complex network . Leading mobile operators are quickly learning that the key to effectively managing today's networks and providing an effective customer experience is through automation-centric optimization.

As networks become more complex, managing multi-technology systems is an ever-increasing challenge. COPS™ is the ground-breaking optimization tool developed to meet the demands of leading mobile operators.

COPS™ "Customized Optimization and Performance Solutions", is a unified enterprise platform with a proprietary Automatic Intelligent Correlation (AIC™) engine for monitoring, managing, and optimizing networks. With COPS, operators achieve a greater than 70% improvement in engineering efficiencies, significantly improved network quality, and an enhanced customer experience.

COPS™ provides the following :

- ✓ Centralized and multi-vendor intelligent operating support system
- ✓ Automatic root cause analysis engine (RCA) for problem identification
- ✓ Easy-to-use scripting engine to optimize the network

Automatic Intelligent Correlator (AIC)

COPS AIC™ is uniquely embedded with optimization expertise in the form of an extensive set of proprietary algorithms.

The AIC™ module effectively emulates the thought processes of a senior optimization engineer.

COPS Components

COPS™ embeds various components which are integral to the mechanisms and the complex calculations that help deliver the ultimate tool in network management.

Performance Management

A comprehensive view of the current state of the network and various trends and reports to help visualize the KPI degradation.

Configuration Management

A convenient way to perform various analysis and audits needed to further check network discrepancies and execute scripts to correct/revert configuration changes.

RF and Operations Triage

Categorization of issues enabling prioritization using Triage methodology and relegating issues for appropriate actions.

Optimization Analysis

Relevant reports for network monitoring, performance monitoring, neighbor analysis and coverage analysis.

Alarms / Fault Monitoring

Gathering of network-wide alarms and fault monitoring data to enable pertinent correlation with performance issues.
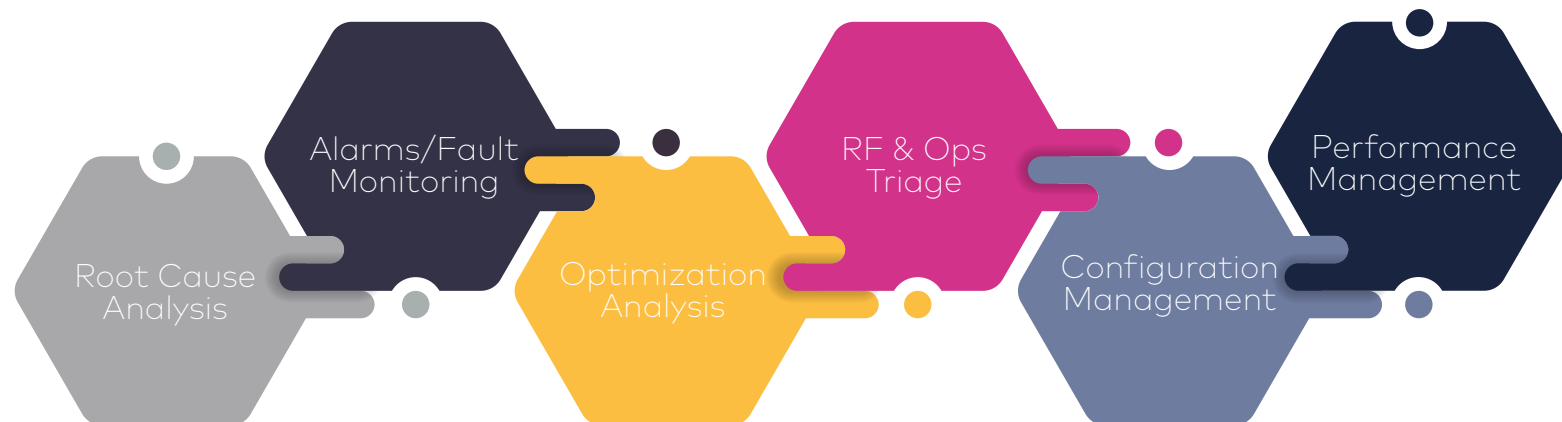
Root Cause Analysis

Innate ability to combine the PM, FM and CM data and arrive at engineering analysis to ascertain reason for deterioration
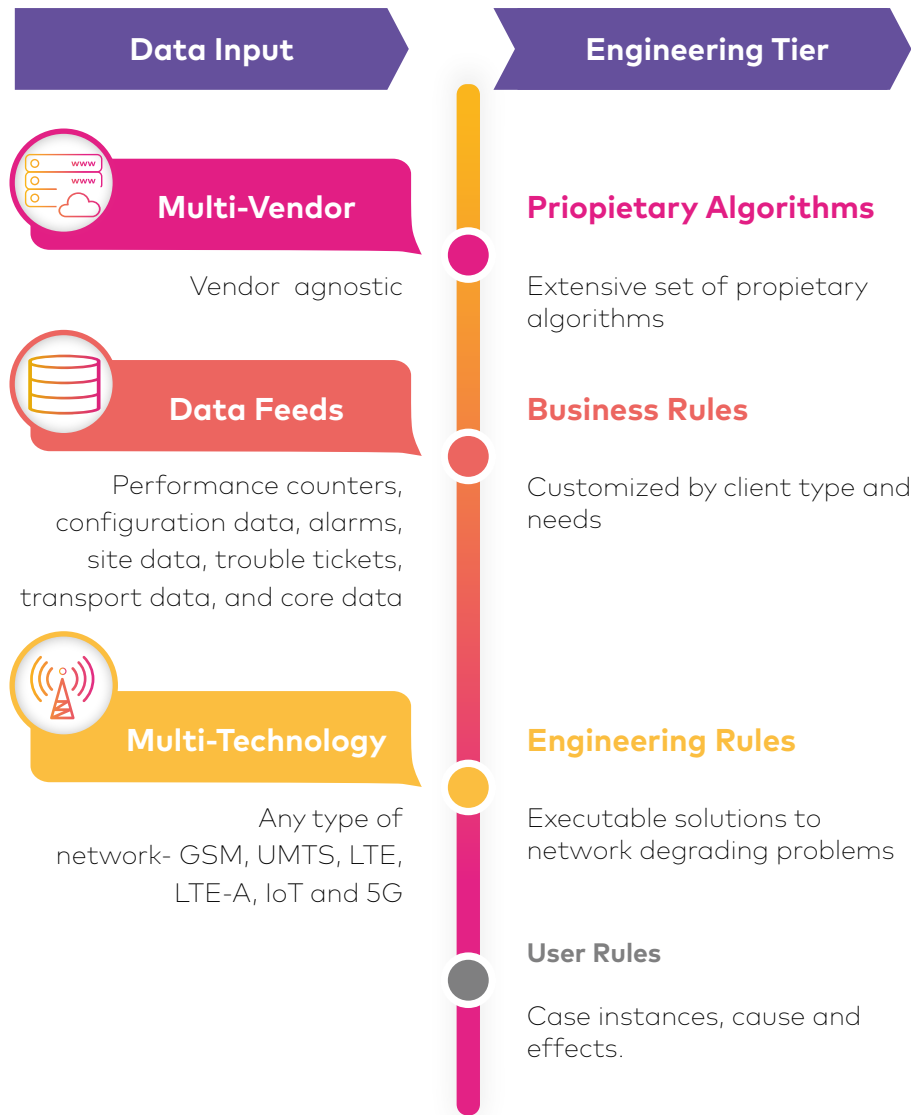
COPS Platform

COPS seamlessly connects, harvests and processes data from the OSS, internal data warehouses, internal trouble ticketing systems and third party tools/applications. It also automatically correlates the data from the different sources, isolates problems and suggests executable solutions, which may then be automatically implemented where possible and when allowed.

Once COPS is configured, data is automatically retrieved from various data sources; business & engineering rules with COPS proprietary algorithms (embedded wireless expertise) are applied to deliver executable solutions to network degradation issues.

COPS AIC (Process Automation)

Root Cause Analysis

Alarms/Fault Monitoring

Optimization Analysis

RF & Ops Triage

Configuration Management

Performance Management

COPS BENEFITS AND ADVANTAGES

Data Input

Multi-Vendor

Vendor agnostic

Data Feeds

Performance counters, configuration data, alarms, site data, trouble tickets, transport data, and core data

Multi-Technology

Any type of network- GSM, UMTS, LTE, LTE-A, IoT and 5G

Engineering Tier

Priopietary Algorithms

Extensive set of propietary algorithms

Business Rules

Customized by client type and needs

Engineering Rules

Executable solutions to network degrading problems

User Rules

Case instances, cause and effects.

COPS offers the following:

- Offers the possibility of over 70% improvement in pro-active optimization activities, resulting in significantly improved network quality

- Provides true automatic root cause analysis using AIC™

- Enables operator to compare vendor-performance on a per KPI-basis

- Enables operator to choose from and define KPIs to detect top offenders

- Reduces dependencies of engineering teams for vendor-specific knowledge

- Provides automatic prioritization and segregation of issues for immediate assignment to the correct department

- Provides appropriate optimization recommendations for the operator

- Leverages off resources in one region by centralizing optimization functions for multiple operations

- Provides significant network and customer satisfaction at a fraction of the cost

- Performs over 2 million daily checks using automation and complex proprietary algorithms (for a typical 2,500-site dual technology network)

- Saves time and improves efficiency

- Achieves operational standardization and excellence across markets and functions

- Improves network and levels of customer satisfaction and reduces operator costs

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