

# ORACLE COMMUNICATIONS CONFIGURATION MANAGEMENT



- Intelligent network discovery
- Configuration archiving and versioning
- Automated compliance auditing
- Configuration traceability and online autorepair
- Configuration templating and activation
- Preintegrated with Oracle Communications Service Activation

*Oracle Communications Configuration Management centralizes and optimizes network operations in multivendor networks for both wireline and wireless service providers by implementing automated, proactive, and consistent configuration management practices. By providing expert, real-time, service-aware network configuration control, the solution empowers service providers to proactively manage continuous change in highly complex next-generation networks.*

## The Need for a Carrier-Grade Configuration Management Solution

Most service providers use a combination of home-grown scripts and tools, device-specific element management systems (EMSs), hard-coded templates, and manual activities to manage network configurations. These approaches lack the architectural flexibility and breadth of functionality needed to proactively manage configuration changes in complex, next-generation, and multivendor networks.

To manage complexity and continuous change in the network, service providers need a carrier-grade platform that

- Supports more-frequent and higher-volume network configuration changes
- Provides higher configuration quality and reduced error rates on multivendor networks
- Offers a real-time view of the status and accuracy of network configurations
- Supports carrier-grade configuration management methodologies and best practices
- Enables service providers to streamline and consolidate network control operations in complex, next-generation networks

## Key Features

Oracle Communications Configuration Management offers the following key features:

- **Intelligent Network Discovery**—Tracks and intelligently organizes simple network management protocol (SNMP)-enabled network elements into customer-defined and geographically defined networks and subnetworks.
- **Configuration Archiving and Versioning**—Records historical configurations and performs detailed version tracking to enable expert troubleshooting and rapid emergency rebuilds.

- **Automated Compliance Auditing**—Quickly identifies differences between archive versions or between a previous configuration and the current configuration using a convenient visual audit diagnosis environment, enabling you to deploy high-value automated configuration compliance auditing across your network to validate the consistency and accuracy of configurations and catch any abnormalities on an ongoing basis.
- **Configuration Traceability and Online Autorepair**—Visually traces configuration compliance between desired and actual states (green—OK, red—problem, and so on) and enables real-time restorations with an autorepair tool.
- **Configuration Templating and Activation**—Provides efficient and flexible configuration templates to your operations team, allowing you to implement highly consistent configurations based on your network engineering guidelines. This enables easy and rapid configuration modeling, with code/GUI autogeneration, allowing you to effectively manage configuration template versions as your configuration guidelines evolve.
- **Preintegrated with Oracle Communications Service Activation**—Leverages the natural synergies that exist between service activation and configuration management to optimize operational efficiency and reduce deployment complexity.

The combination of these functions provides premier configuration management capabilities for service providers with next-generation networks, enables highly automated and sophisticated activation of services, and delivers extensive network control over the service configuration.

Functions	Highlights
Discovery	Discover, sync, and inventory network elements and interfaces by key attributes such as IP address, operating system, and so on.  Supports SNMP versions 2 and 3.
Configuration Archiving and Versioning	Benefit from flexible, scheduled-based archiving and on-demand retrieval of archived configurations.  “Real-time” feature allows the network to be restored to the most accurate configuration at any given time.
Configuration Auditing and Compliance Management	Proactively audit your configurations for compliance and accuracy.  Easily troubleshoot by comparing the current configuration with previous configurations.
Configuration Traceability and Online Autorepair	Track desired configurations to the actual command-line interface (CLI) commands.

Configuration Traceability and Online Autorepair	Autorepair configurations using the online console and the state-of-the-art “traceability” and “repair” features.
Configuration Templating and Activation	Leverage configuration templating with autogeneration of flexible GUI screens and configlets to quickly activate complex configurations on the network.  Deploy consistent configurations, and minimize manual entry of CLI commands.
Service Management and Activation (optional)	You can include Expert Service Modules that provide prebuilt and highly automated management of next-generation services, such as Layer 3 virtual private networks (VPNs), Layer 2 VPNs, virtual LANs (VLANs), quality of service (QoS), interface configurations, IP security (IPsec), and more.

### Key Differentiators

Oracle Communications Configuration Management brings increased value to service providers and differs from traditional configuration management approaches in several key areas.

- **Real-Time**—Oracle Communications Configuration Management knows the network configuration “as it should be,” and allows you to perform intelligent network element (NE) restoration without any service order loss. Typical systems can only restore the last backed-up version, which generally becomes obsolete soon after the configuration snapshot is taken.
- **Service-Aware**—Oracle Communications Configuration Management allows sophisticated management of dynamic service configurations, in addition to the more static base approach. Typical configuration management systems provide only “flat management” of network configurations.
- **Intelligent Compliance**—Oracle Communications Configuration Management supports highly flexible networkwide auditing and reporting down to detailed network configuration data accuracy (“network intent”); typical compliance checking tools can only validate “configlet structures,” providing limited value.
- **Single Activation and Configuration Management Solution**—Oracle Communications Configuration Management’s unique advantages are further enhanced when deployed as a preintegrated solution with Oracle Communications Service Activation, the industry’s leading next-generation activation platform. This winning combination not only reduces deployment complexity, but also optimizes operational efficiency and enhances service delivery by fully leveraging the natural synergies that exist between activation and configuration management.

### **Deployment Options**

Oracle Communications Configuration Management can be used as a standalone product, or can be deployed as a preintegrated solution with Oracle Communications Service Activation.

### **Contact Us**

For more information on Oracle Communications Configuration Management, call +1.800.ORACLE1 to speak to an Oracle representative or visit [oracle.com](http://oracle.com).

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