

Cisco Prime for Mobility

End-to-End, Unified Management for the Mobile Internet

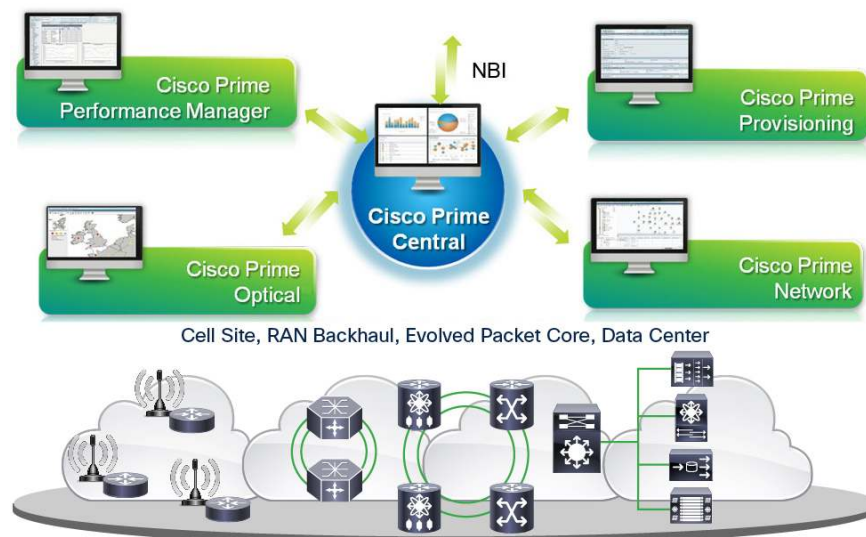
The proliferation of new devices and rich-media applications coupled with an increasing number of mobile broadband subscribers is creating new revenue opportunities for mobile operators. The challenge for many mobile operators, however, is the disparate network management tools that create a noncollaborative environment and that limit their scale of operations as well as negatively affect the quality of services (QoS). Furthermore, the high costs associated with integrating these tools are eroding their profitability.

Cisco Prime™ for Mobility helps address these challenges. Tightly aligned with [Cisco® Mobile Internet Architecture](#), Cisco Prime for Mobility supports a breadth of Cisco's world-class mobility networking solutions, including the [Cisco ASR 5000](#) and [Cisco ASR 5500](#) core multimedia services platforms.

Features and Benefits

- **Outstanding operational scale:** Significantly increase the scale of operations through integrated operator workflows for managing the Unified Radio Access Network (RAN) backhaul network and [Long Term Evolution \(LTE\) Evolved Packet Core \(EPC\)](#) (see Figure 1).
- **Improved mobile customer experience:** Delight customers through centralized network visibility and proactive service assurance.
- **Lower total cost of ownership:** Lower costs through preintegrated network management software components that significantly reduce time and resources required for integration.

Figure 1. Cisco Prime for Mobility Helps Enable Outstanding Operational Scale and Mobile Service Assurance



From the Cell Site to the Evolved Packet Core - Scalable, End-to-End Mobile Network Management

The Cisco Prime for Mobility solution is based on a business-centered framework and an intuitive, workflow-oriented operator experience that provides end-to-end management of the next-generation mobile network.

Key capabilities include:

- Integrated operator workflows across the RAN backhaul and EPC with centralized monitoring and troubleshooting.
- Deep visibility into the mobile network with centralized fault monitoring and rapid fault isolation.
- Integration with [Cisco InTracer](#), a powerful tool that provides critical and real-time session, application, and network information by using the high-performance data-collection capabilities of the Cisco ASR 5000 platform.
- Flexible and modular architecture that drastically reduces time and resources required for integration. Cisco Prime for Mobility consists of preintegrated software components that facilitate highly efficient management of the mobile network. It also supports standards-based northbound interfaces (NBIs) that simplify integration with OSS/BSS and other third-party applications.
- Single solution supporting management of both legacy time-division multiplexing/Synchronous Digital Hierarchy (TDM/SDH) and IP RAN backhaul to help ease network transitions.

Components of Cisco Prime for Mobility Solution

Cisco Prime for Mobility includes the following:

- **Cisco Prime Central:** Offers a common user management interface for all components of the Cisco Prime for Mobility solution. It provides a single view of integrated operator workflows across the RAN backhaul and EPC, and centralized monitoring and troubleshooting capabilities, for efficient delivery and management of third-generation (3G) and LTE/fourth-generation (LTE/4G) services.
- **Cisco Prime Provisioning:** Automates resource management and provides rapid, profile-based provisioning for IP RAN backhaul. It provides powerful work-flow-based diagnostic tools for service validation and troubleshooting.
- **Cisco Prime Performance Manager:** Provides fast, actionable information, including detailed network and traffic statistics, for both Cisco and multivendor devices. It supports both custom reports and more than 4500 prepackaged reports that are easily extensible.
- **Cisco Prime Optical:** Provides GUI-based TDM circuit provisioning and fault, performance, and configuration management for the optical domain, supporting Cisco Carrier Routing System (CRS) and ONS multiservice platforms.
- **Cisco Prime Network:** Provides fault monitoring and isolation for RAN backhaul and EPC, as well as topology-guided troubleshooting for RAN backhaul. Capabilities include virtual connectivity discovery, root-cause identification, and alarm reduction through topology-based correlation and de-duplication.

Services and Support

Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you to protect your network investment, optimize network operations, and prepare the network for new applications to extend network intelligence and the power of your business. For more information please visit the [Cisco Services](#) page on Cisco.com.

About Cisco Prime

The Cisco Prime portfolio of IT and service provider management offerings empowers organizations to more effectively manage their networks and the services they deliver. Built on a service-centered foundation, Cisco Prime supports integrated lifecycle management through an intuitive workflow-oriented user experience - providing A-to-Z management for evolved programmable networks, mobility, video, cloud, and managed services.

For More Information

For more information on Cisco Prime products for carrier-grade networks, email ask-prime-sp@cisco.com.



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
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