

# Cisco Prime for IP Next Generation Networks

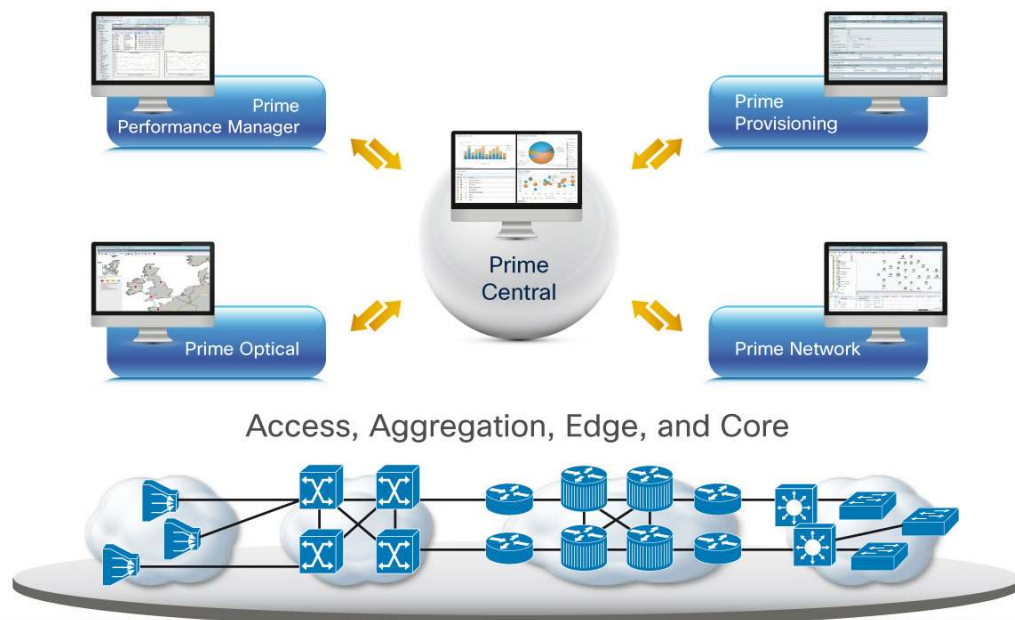
## Solution Brief

The Cisco Prime™ for IP Next Generation Networks (NGNs) is an end-to-end network management solution that simplifies the design, provisioning and management of carrier-grade networks. It is a comprehensive solution that centralizes and automates service design, fulfillment, assurance, and performance analysis - to help service providers and enterprises lower their costs while meeting high customer expectations.

## Features and Benefits

The Cisco Prime for IP NGN provides the following benefits:

- **Accelerated service deployment:** Significantly reduce the time to deploy services through automated network configuration and point-and-click provisioning capabilities
- **Lower capital expenditures (CapEx):** Maximize the value of the existing investment in network infrastructure through efficient management of network resources and assets
- **Reduce operating expenses (OpEx):** Lower operational costs through a central point of access to enable efficient execution of the service lifecycle management tasks - including design, fulfillment, assurance, and analysis
- **Improved quality of service (QoS):** Enhance customer experience and meet stringent service-level agreements (SLAs) through rapid fault isolation and repair of network issues that cause service degradations or interruptions
- **Optimized operational efficiencies:** Promote consistencies in delivery and management of services through seamless integration between domain managers and service lifecycle management applications



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## A Comprehensive Network Management Solution for IP NGNs

The Cisco Prime for IP NGNs is based on a business-centered framework and an intuitive, workflow-oriented operator experience that provides end-to-end management of next generation networks (optimized for packet and transport networks). Key capabilities include:

- **Automatic discovery and granular network visibility:** Quickly and easily find and map network devices and services for an accurate inventory of the entire network - from the access layer all the way to the core, supporting both Cisco® and third-party devices. Cisco Prime for IP NGNs provides granular visibility of the entire network including device-specific attributes and alarms, to time-division multiplexing (TDM)/dense wavelength division multiplexing (DWDM) circuit information.  
**Intelligent fulfillment:** Execute A-Z provisioning of services based on predefined policies and templates utilizing the point-and-click service creation wizards. In addition to TDM and DWDM, Cisco Prime for IP NGNs automates and simplifies the deployment of complex services and technologies including:
  - **Carrier Ethernet:** Ethernet over Multiprotocol Label Switching (EoMPLS), virtual private LAN service (VPLS), and Ethernet virtual connections (EVCs)
  - **Radio Access Network (RAN) Backhaul:** Structure Agnostic TDM over Packet (SAToP), Circuit Emulation Services over Packet Switched Network (CESoPSN), and ATM/Inverse Multiplexing for ATM (IMA) over Pseudowire emulation
  - **MPLS and MPLS-TP Transport Profile (MPLS-TP)** label-switched paths
- **Change and configuration management:** Easily identify all network changes and automate their validation and restore configurations to the desired state.
- **Automated service assurance:** Effectively perform a consolidated, cross-domain event management and root-cause analysis to quickly detect, isolate, and troubleshoot the specific points of failure.

## Key Components of Cisco Prime for IP NGNs

The Cisco Prime for IP NGNs includes the following:

- **Cisco Prime Central:** Common management console for all components of the Cisco Prime that provides a single view of integrated operator workflows, common inventory and event/alarm management, and standard interfaces for easy OSS integration
- **Cisco Prime Provisioning:** A fulfillment solution that accelerates service deployments by providing automated resource management and rapid, profile-based provisioning capabilities. It provides powerful work-flow-based diagnostic tool for service validation and troubleshooting
- **Cisco Prime Performance Manager:** A detailed reporting solution that gathers performance statistics for Cisco and multivendor network devices, providing actionable information for the entire network including the core, aggregation, and access network devices
- **Cisco Prime Optical:** Best-in-class and highly scalable assurance and fulfillment solution for the optical network domain with GUI-based device configuration capabilities
- **Cisco Prime Network:** A comprehensive service assurance solution for the packet/IP domain with advanced capabilities including virtual connectivity discovery, root-cause identification, topology-driven troubleshooting, alarm reduction through topology-based correlation and de-duplication

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## Why Cisco?

Cisco offers industry-leading solutions for packet and transport network design, fulfillment, assurance, and analysis. The Cisco Prime for IP NGN will extend the capabilities of these existing offerings, helping customers drive down costs and drive up efficiencies. Existing customers with current maintenance will be able to upgrade to the Cisco Prime applications as they become available. This means that customers can be confident that their investment is protected.

## More Information

For more information on Cisco Prime products for next generation packet and transport networks, email [ask-prime-sp@cisco.com](mailto:ask-prime-sp@cisco.com).




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