

# Cisco Prime Cable Provisioning



Cisco Prime™ Cable Provisioning is a distributed, highly scalable, and reliable solution for the management of cable subscriber devices and automated flow-through provisioning of the subscriber services that run on those devices.

## What Problems Does It Help Solve?

In light of intense market competition and increased consumer choice in broadband services, cable service providers need to quickly roll out competitive differentiated products and services and must provide a high quality of experience for end users.

In addition, cable service providers are looking for ways to lower the support and other operating costs associated with device growth and new service deployments. In part, this device growth is being driven by the introduction into the market of new DOCSIS®, PacketCable™, and OpenCable™ standards and new technologies like IPv6, Ethernet passive optical network (EPON), and the associated standard, DOCSIS Provisioning of EPON (DPoE™). Cable service providers need an automated provisioning and management tool that supports these new standards and that simplifies and speeds the tasks of operating the network and provisioning cable subscriber services.

## Cisco Prime Cable Provisioning

A centralized platform allows cable service providers to control and configure network devices located at the customer premises, including DOCSIS residential home gateways, cable modems, set-top boxes, and media termination adapters (MTAs). Cisco Prime Cable Provisioning automatically recognizes devices, assigns the appropriate class of service, dynamically creates and generates device configuration files, and activates subscribers—all at extremely fast speeds.

This single device management platform supports multiple technologies including DOCSIS, PacketCable, DPoE, OpenCable, and satellite.

## What Are the Benefits of Cisco Prime Cable Provisioning?

- **Multistandard support:** With a single platform, Cisco Prime Cable Provisioning supports high-speed data provisioning of DOCSIS cable modems, residential gateways and set-top boxes, and PacketCable voice provisioning of MTAs and digital voice adapters (DVAs). The solution also supports the OpenCable standard for digital cable set-top boxes and the newer DPoE standard for provisioning of EPON devices.
- **Reliability:** Cisco Prime Cable Provisioning provides high reliability and high availability to meet business-critical needs and help ensure minimum subscriber disruption. The solution offers multiple levels of redundancy through its distributed architecture of highly available regional distributed units (RDUs), multiple distributed device provisioning engines (DPEs) (each of which includes its own data-caching repository), a Trivial File Transfer Protocol (TFTP) server, and a time-of-day (ToD) server. In addition, the solution includes support for avalanche protection to limit downtime after network outages.
- **Scalability and high performance:** Cisco Prime Cable provisioning is the industry's most scalable cable device provisioning system, supporting 50 million plus devices in a single customer distributed deployment. The solution uses multiple distributed device management and caching engines to balance processing of device requests and help ensure high performance.

- **Support for rapid network expansion:** A single RDU server in conjunction with the appropriate number of DPE groups can support a sustained rate of hundreds of thousands of new devices a day. This allows for a simple way to extend provisioning to additional subscribers and new markets, dramatically simplifies capacity upgrades, and lowers maintenance costs.
- **Easy integration into existing service provider systems:** A flexible northbound interface promotes easy and secure integrations with existing service provider systems, such as billing, operations support systems (OSSs), workflow, mediation, and other customer management systems, through a Java provisioning or Web Services API. This, in turn, reduces operational costs and time to market for new services and helps accelerate revenue.

## About Cisco Prime

The Cisco Prime portfolio of enterprise and service provider management offerings empowers IT organizations to more effectively manage their networks and the services they deliver. Built on a service-centered foundation, the Cisco Prime portfolio of products supports integrated lifecycle management through an intuitive workflow-oriented user experience. The portfolio of Cisco Prime solutions for service providers provides A-to-Z management for IP next-generation networks, mobility, video, and managed services.

For more information about Cisco Prime Cable Provisioning, visit <http://cisco.com/go/primecable-provisioning>, contact your local account representative, or send an email to [ask-cableprovisioning@cisco.com](mailto:ask-cableprovisioning@cisco.com).