



# MANAGEMENT SOLUTIONS SERVICE PROVIDER NETWORKS

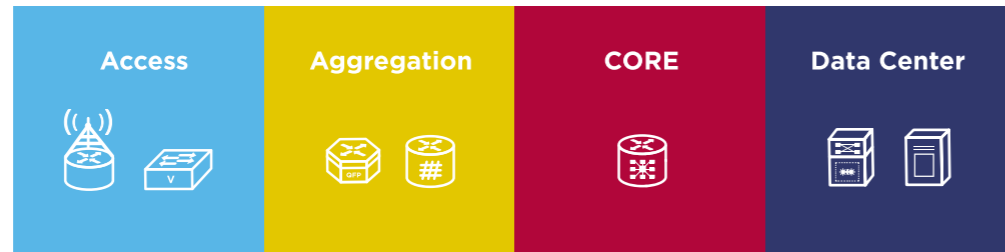
Service provider network today tries to adapt to latest business and residential services. As result networks expand with number of devices as well as in number of features to support demanding services. Managing such networks requires highly educated personnel and right tools to manage running services.

## ■ SERVICE PROVIDER NETWORKS

Service provider (SP) network has been not long ago used as pure TDM or IP transport network. Today SP challenges themselves with high increase of services they need to offer on top of the network. The other challenge that SP are facing is expanding their basic nature of “just a transport network”. Many of them are expanding network towards end users in wire and wireless technologies. On the other side cloud services require network visibility all the way to the virtual infrastructure running in highly concentrated Data Centers.

### CHALLENGES :

Most NOC use SNMP to monitor interface status and traffic pattern. Monitoring services require skills and manual work to consolidating network data.



## ■ MONITORING AND PROVISIONING NETWORK AND SERVICES

Monitoring network element is widest acceptable monitoring technic that most of network operation centers use today. Above the availability of devices, interfaces and their utilization more sophisticated tools are required. Such tools support consolidation of collected values form network elements and understand running services from end to end. To provision and monitor services that traverse from one point to another across whole network, provisioning and monitoring tools require understanding of transport network and its service capabilities.

## ■ CISCO PRIME SOLUTION

Cisco Prime Carrier Management (CM) suite is a tool that can connect to network and retrieve its topology and services running on top. For Network Operation Centers it addresses all aspects of network and service life, which include designing, provisioning, monitoring and consolidating alarming. CM suite offers set of applications that handle carrier network and its services. Apps are capable to look into carrier services from higher perspective and therefore enable faster service deployment and more efficient network or service troubleshooting. Graphical interface presents different aspects of discovered components, services or alarms in very intuitive way for NOC. Service awareness is extended over boundaries of traditional transport network. Prime CM has ability to monitoring component of Data Center built on scalable server infrastructure and virtualized hypervisors. From perspective of Mobile operator CM tools can integrate with mobile SP applications and provide common view on alarm management. In case SP network consists integrates Cisco Wi-Fi access points Prime Infrastructure provides in deep configuration and monitor tools for those network as well.

### PRIME CARRIER MANAGEMENT SUITE:

**Prime Central:** alarm management and correlation

**Prime Network:** discovery and clear service visualization

**Prime Performance:** zero touch service monitoring tools

**Prime Provisioning:** easy provision service across transport network

**Prime Optical:** A to Z optical service provisioning and monitoring



## ■ NIL VALUE PROPOSITION

NIL has a team of engineers that have been involved in network management task for enterprises and service providers. In cases where Cisco Prime Carrier Management has been used we have capability and knowledge to provide Cisco Prime design, installation, tuning and education for network administrators or operators. With constant knowledge updates we know Cisco Prime features, functionalities and operation background.

If service provider is implementing Wi-Fi infrastructure, NIL can provide complete lifecycle from the design, implementation, installation and tuning of Wi-Fi access points and Prime Infrastructure configuration and monitoring tools. Comprehensive trainings and practical experience are NIL key advantages that are assured with constant verification from Cisco training professionals and Advanced Services team.

For more information,  
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our local office.