

Manage, Control and Plan Services

As a network operator, you face many challenges as you work to adopt new technologies like 5G, NFV, SD-WAN, and AI into your networks. Legacy Network Management Systems (NMSs), impede the integration of new network technologies with Operational Support Systems (OSS), hindering your ability to adapt to changing market demands. This leaves you burdened with multiple and separate management tools, which often translates to manual tasks that can be time-consuming and prone to error.

Ciena's [Manage, Control and Plan \(MCP\)](#) domain controller allows you to automate all aspects of your operations across Ciena's packet-optical, and routing and switching network assets as well as foreign line systems and third-party routers—streamlining processes for consistency, reliability, and speed. MCP Advanced Apps build on top of that solid foundation to enhance operations and simplify the user experience for multi-layer network performance optimization. Apps include [Adaptive IP™ apps](#) and [Liquid Spectrum™](#).

MCP Services plays a critical role in helping your team adopt MCP and Advanced Apps. MCP Services ensures a smooth migration/transformation while enabling you to maintain focus on your core competencies and overcome challenges like:

- **Lack of visibility:** Although visibility into the network is required to ensure a successful migration of assets, network operators often lack this type of information. This can lead to disruptions during migration, including the inability to manage the network, which can result in loss of revenue and ruin your business' reputation.
- **Inadequate tools and processes:** Often, operators do not have the tools and processes to handle migration seamlessly and adapt to changing business needs.
- **Lack of skilled resources:** Operators may not have enough trained and skilled resources who can analyze, plan, and deliver the migration to software control, advanced apps, and automation.

MCP Services – Delivering quick time-to-value

MCP Services delivers single-point-of-service management that enables you to rapidly deploy MCP and Advanced Apps and bridge gaps in technical or resource availability, resulting in fast, efficient, data-driven operations for increased service agility. MCP Services can plan, deploy, migrate, adopt, and operate without downtime, so you can focus on your core business operations.

Ciena's MCP Services provides deep expertise and domain knowledge in management systems, as well as optical, Ethernet, and IP infrastructure. This helps ensure a smooth migration from legacy third-party NMSs or Ciena's OneControl to MCP.

Business outcomes

Ciena's MCP Services follows best practices and streamlined processes to accelerate MCP and Advanced Apps deployment, decreasing the learning and up-skilling curve with enhanced training and tools.

- **Shortens time to financial benefits:** Ciena can support and extend your in-house capabilities with the technological expertise, processes, and best practices that allow for an accelerated deployment, a quicker return on investment, and a faster path to achieving your business objectives.
- **Simplifies operations:** With a single point of responsibility accountable for the end-to-end scope of work, the effort required to plan for MCP in the short and long terms is dramatically reduced.
- **Offers flexibility and choice:** You have the freedom to select the best combination of time-critical offerings to support your transformation at the speed you expect.



Figure 1. Ciena's MCP Services customer journey

MCP Services suite

MCP Services comprises a suite of offerings designed to help you navigate toward success quickly, seamlessly, and efficiently. You can leverage these offerings in full or mix and match them. The suite includes:

- 1. Learn:** Delivers innovative training designed to build operational skills, broaden knowledge, and sharpen specific competencies related to next-generation MCP and Advanced Apps software. To suit various needs and preferences, individual or subscription-based courses are available online or in person, in classroom, virtual, or on-site settings.
- 2. Deploy:** Guides you through all the activities surrounding the basic installation or upgrade of MCP. It allows you to focus on the operational aspects of your new NMS while Ciena installs, configures, and tests the new software to its ready-to-use state.
- 3. Migrate:** Consists of pre-migration, migration, and post-migration phases and enables the smooth and fast modernization of your legacy network to MCP and Advanced Apps. With this service, Ciena provides a well-rounded team of engineers and technical and business professionals with the depth of experience and breadth of knowledge to effectively evaluate the situation, determine which type of network migration is most appropriate for the presenting circumstances, and execute on the plan.
- 4. Customize:** Creates tailored, integrated engineering solutions designed to deliver features, network services, and hardware, according to your requirements. This ensures you can integrate MCP and Advanced Apps quickly and easily into your business operations, processes, and back-office systems.
- 5. Adopt:** Gives you hands-on operational knowledge once your system is in a ready-to-use state, through Onboarding and Consulting components, ensuring a deeper understanding of the software platform, available features, and application operations.
- 6. Operate:** Helps you maintain the high availability, security, and operational efficiency of MCP and Advanced Apps. Highly trained and knowledgeable Ciena specialists provide around-the-clock technical support to help you resolve any maintenance issues in your networks. Along with regular system updates, Ciena's Operate Services help manage day-to-day fulfillment, monitoring, assurance, and support.

MCP deployment models

Ciena's MCP Services can help with any of MCP's three different deployment models (Figure 2). Customers may choose to deploy, manage, and maintain MCP on their own premises, or procure their own MCP infrastructure in the public or private cloud, but manage and maintain the solution themselves. Additionally, they may opt for Ciena's hassle-free Hosted MCP Service, described below.

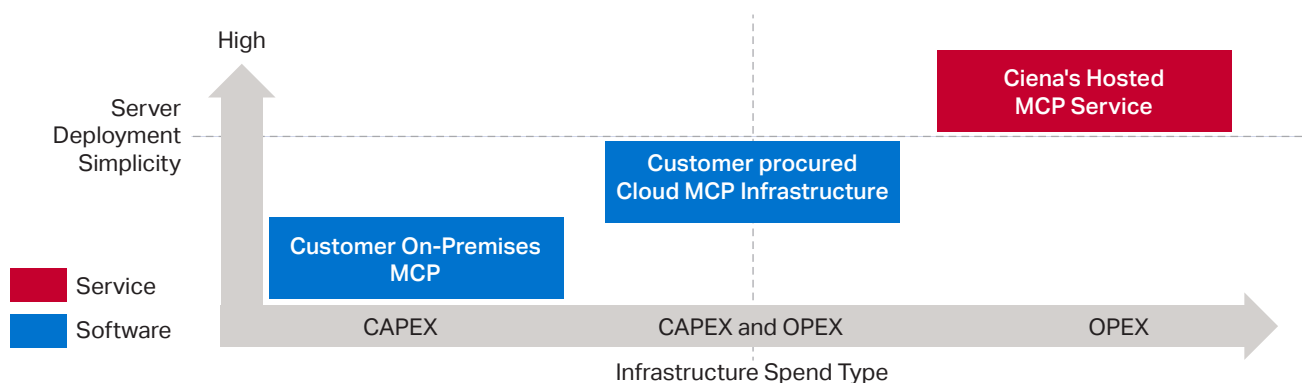
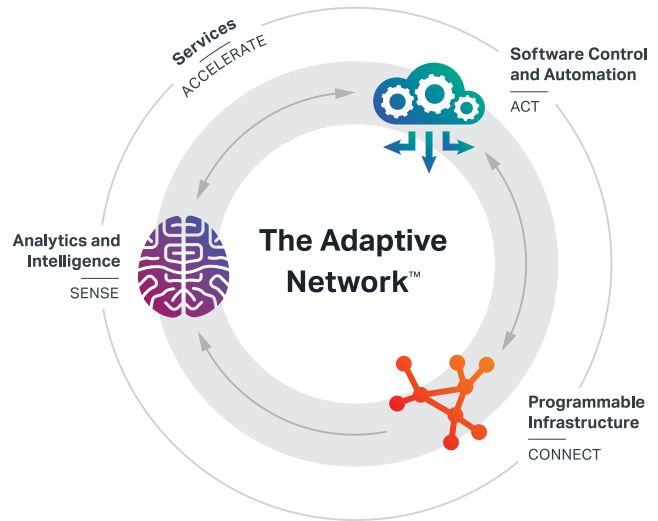


Figure 2. MCP deployment models

The Adaptive Network

The Adaptive Network is Ciena's vision of a new target end-state for service providers. Utilizing automation guided by analytics and intent-based policies, the Adaptive Network rapidly scales, self-configures, and self-optimizes by constantly assessing network pressures and demands. The Adaptive Network is built on four foundational elements: Programmable Infrastructure, Analytics and Intelligence, Software Control and Automation, and Services. Blue Planet fulfills key roles within the Analytics and Intelligence and Software Control and Automation elements.



Hosted MCP Service

Ciena's Hosted MCP Service offers an MCP deployment option to customers who want a white-glove service, with MCP deployed in the cloud and securely managed, maintained, and operated by Ciena. This service is offered with an MCP Geographical Redundant (GR) configuration option, as well as non-GR; it also supports any customer-selected MCP Advanced Apps. This is a practical alternative for customers who want full control of their networks, but do not want the hassle of managing it. It gives customers access to the capabilities of the industry's leading domain controller, automating the lifecycle operations of Ciena's IP and packet-optical networks.

With the hosted service, Ciena will manage server administration, software upgrades, and other lifecycle operations. The hosted deployment model has low start-up costs and seamlessly grows with a customer's network, eliminating IT overhead and server expenses.

Hosted MCP Service, which includes Advanced Apps, provides value by:

- Eliminating CAPEX
- Implementing a low-risk commercial model
- Reducing dependency on internal IT
- Offering one-stop shopping
- Providing access to advanced features
- Reducing 'first-in' costs
- Improving ROI via OPEX savings
- Minimizing deployment efforts

Underpinning the Adaptive Network™

Ciena's vision of the Adaptive Network enables network operators to optimize their existing frameworks while incorporating new technologies and ways of working.

Ciena's MCP Services helps accelerate your adoption of MCP and Advanced Apps and your evolution to the Adaptive Network.

Ciena Services

Having co-created some of the most customer-centric networks in the world—with major service providers, multiple-system operators, and global content network providers, from greenfield to brownfield to modernization—there is no environment Ciena Services cannot transform. Designed to be as open and flexible as the networks we build, Ciena Services provides real, quantifiable business value. Our Services team becomes part of your team. As advocates for our customers' goals, we prepare for unavoidable challenges and tirelessly drive toward your business outcomes—faster.

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