Multi-Domain Service Orchestration

Streamlining service activation and enhancing service agility for communication services providers
The industry is undergoing a digital transformation where software applications/services are assuming the roles of traditional proprietary hardware. Virtualization, cloud and containerization technologies are allowing for these services to migrate from a proprietary platform to a public and/or private cloud using commodity hardware. Software-Defined Networking (SDN) and Network Function Virtualization (NFV) technologies are helping to create a next-generation “network as a service” (NaaS) platform. These technologies are further fostering advancements in orchestration and automation technologies, which are enabling a paradigm shift to a self-service ecosystem. In this ecosystem, service agility and assurance are the key focus.

Communication services providers (CSP) are exploring this shift to digital transformation to meet their demands of increasing revenue while reducing costs. To prepare for this transformation, CSPs must reexamine their existing business workflows, policies, infrastructure domains, and the processes and technologies that are in place to enable or modify new or existing services. This top-down approach must be iterative, allowing CSPs to make better use of their existing investments in infrastructure and technologies today but also allows them to future proof for tomorrow.
Partnering with CommScope gives CSPs the vendor-agnostic orchestration services they need to respond to constant changes in technology. With our Multi-Domain Service Orchestration, CommScope ensures our customers have the software development and integration support to streamline service activation and enhance service agility.

**CommScope software-defined services**

As part of CommScope’s Professional Services group, the software-defined services team leverages leading-edge orchestration and automation technologies and platforms, including the Open Networking Automation Platform (ONAP). CommScope is committed to collaboration using open source and open standards. Our participation in the Linux® Foundation Network (LFN) enables our customers to benefit from the latest open source technologies. We build open solutions that free operators from the complexities of their infrastructures.

The software-defined services team has a global presence, allowing us to partner with customers to provide end-to-end multi-domain service orchestration solutions, from discovery to production. Our experienced team helps define service and resource models, implement life cycle management, design business workflows and policies, which can then be orchestrated across various domain controllers managing physical, hybrid and virtual elements.

Multi-domain service orchestration benefits to service providers include:

- **Reduced cost**—Specialized, multi-vendor, proprietary and fragmented network elements that require special knowledge and multiple touches are replaced by a single, automated system.
- **Efficient resource utilization**—Resources can be freed up and available for other purposes rather than permanently dedicated to one.
- **Time to market**—A single, automated system allows new or changed services to be established quickly.
- **Customization**—Large resource bandwidth allows for the development of cost-effective, customized solutions.
- **Scalability**—Flexible design enables dynamic scaling to address changing demands.
- **Customer satisfaction**—Agility of service delivery provides a better customer experience, resulting in improved customer retention and acquisition.

Our services—including planning, design, implementation and operation—improve accuracy and reduce cost through automation and greater customer satisfaction.

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### PLAN

- Discovery of provider infrastructure
- Identification of impacts on business operation
- Identification of integration points
- Use case definitions and scenario-based walk-throughs

### DESIGN

- Design time consultancy
- Design for migration from existing workflow

### IMPLEMENT

- Service and resource modeling
- Service lifecycle management
- Workflow and policy
- Domain controller integration
- Open API

### OPERATE

- Software support
- 24/7 operations support

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**Why CommScope?**

The CommScope Professional Services group has extensive experience—specific to the communication services industry—with projects successfully delivered for cable, IPTV, OTT and Wi-Fi operators. As a master systems integrator, CommScope leverages this expertise to deliver the tools and modules that are part of complex integration projects.

Customers around the world turn to us as well for standalone software development and integration involving a wide variety of projects: multi-domain service orchestration, virtualization and cloud migration, workflow automation, OSS/BSS and assurance systems, Android TV, and vCPE & uCPE.

For more than 40 years, CommScope has played a role in the development of many of the most important breakthroughs in wired and wireless network technology. We don’t just help set the standards for performance—we’re creating them anew, every day. It’s what our customers expect. It’s what they deserve.
CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement.

We collaborate with our customers and partners to design, create and build the world’s most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com