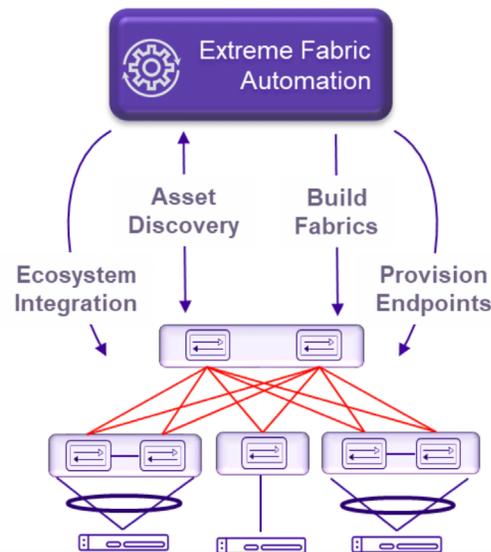


Highlights

- Extreme Fabric Automation is a feature that is included with the SLX 9150 and SLX 9250
- Automate provisioning of SLX Data Center IP Fabrics with multiple supported topologies
- Reduce network provisioning time from days to seconds with DIY automation
- Day 0 infrastructure – BGP underlay, BGP/EVPN overlay with VXLAN; create, update and delete switches within the fabric
- Day 1 tenant edge port services – add endpoints (i.e. compute, storage ensuring traffic separation between tenants while maintaining connectivity within tenants
- Ecosystem integrations simplify orchestration of attached services using common tools such as VMware vCenter, Microsoft SCVMM and OpenStack
- Streamline HCI integrated deployments and ongoing management
- Run automation from the Guest VM of the SLX 9150 or SLX 9250 switching platforms; totally self-contained Fabric and automation solution
- Deployment flexibility supports running automation from an externally hosted virtual machine where desired
- Northbound API's provided for additional ecosystem partner integration and programmability of the network infrastructure and end point attachments



Extreme Fabric Automation

Built into the Data Center Network

IT staff are under incredible pressure to rapidly support digital transformation initiatives within the organization. When it comes to the data center – the digital nervous system of any business – the need for speed takes on an entirely different meaning. Bandwidth continues to grow exponentially and faster than ever before. The network is now a mission critical component of IT's success. Having an infrastructure that is simple, intelligent and adaptable that can be provisioned at cloud speed is now a top line requirement.

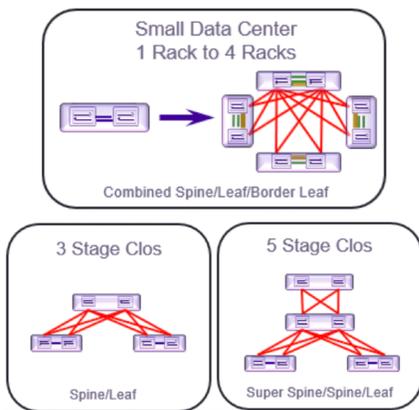
Networks are built with redundancy in terms of multiple devices, connections or paths to ensure of interrupted service if there is a component failure or break in any network link. On top of that, there is resiliency which enables the network to take full advantage of the designed redundancy. Failover and recovery happen in sub-second time to guarantee continued service. Now, add on top of that the need for reliability in knowing the network is provisioned as intended. Built-into the switch infrastructure, automation becomes the most important factor to increased reliability by reducing or eliminating the human errors and the delay for moves, adds and changes across the network.

Efficiency Goes Up While Errors Go Down

Throughout the automation journey, Extreme continues delivering on the ability to automate at your pace. Extreme Fabric Automation provides unprecedented innovation for data center networks of all sizes by simplifying and accelerating the provisioning of fabric infrastructure and tenant services without the need for additional complex server hardware. Plug and play fabrics are now a reality with this microservices-based tool as Extreme brings DIY to Data Center Fabrics; with a few simple commands your fabric is fully provisioned in seconds, then add tenants just as easily and quickly.

Fabric Infrastructure

Extreme Fabric Automation enables critical Day 0 fabric infrastructure CRUD (Create, Read/Monitor, Update and Delete) operations of Extreme's SLX routing and switching portfolio. By leveraging this innovative technology, you can provision Data Center IP Fabrics based on BGP, EVPN and VXLAN within seconds using three simple commands from the application. There's no need to worry about configuring every switch manually with protocol-specific commands, thus reducing the time it takes to bring up a new Fabric. The application will validate the selected network topology before configuration to ensure 100% accuracy before automation is executed. The same method is used to add more switches to the Fabric or to delete switches from the Fabric, making it fast and simple to expand or contract the Fabrics as needed by the business.



Tenant and Edge Port Services

The Data Center Fabric is created for the purpose of providing connectivity for compute, storage and applications that drive the business. Day 1 tenant and edge port services automates these attachments. A substantial number of moves, adds, and changes in Day 2 management are normal within the Data Center. As the business grows and changes, having the agility and speed to stay out in front is paramount. Extreme Fabric Automation eases this task of the tenant and edge port services with its Fabric awareness of the network infrastructure as well as all end points attached to the switches. Day 1 provisioning includes the creation of tenants, which are separate logical entities that have reserved resources in the Fabric. These resources include assets (switch ports, port channels, VLANs, etc.)

which are assigned to End Point Groups (collection of assets sharing a common set of properties). The Tenant's network provides the forwarding constructs enabling connectivity for the End Point Groups while maintaining traffic separation.

Ecosystem Integrations and Hyper Converged Infrastructure (HCI)

A critical success factor for an agile Data Center includes the ability to integrate with ecosystem providers. Extreme Fabric Automation bridges the gap between the physical infrastructure and the orchestration of key components for server virtualization, storage networking and hyper-converged infrastructures (HCI). Providing integration creates a seamless experience and reduces the number of manual touchpoints that exist in most networks today. Automation eliminates the delays between provisioning a virtual machine and enabling the underlying network infrastructure. As a virtual machine is spun up in an orchestration tool such as VMware vCenter or Microsoft SCVMM, Extreme Fabric Automation will dynamically provision the associated VLAN on the proper switch port in the network and enable Layer 2 extension over VXLAN across the network. In a similar fashion, automation will also delete switch configurations when virtual machines are decommissioned or move port profiles during the migration of virtual machines between hosts. All these normal operations are fully automated and eliminate the need for any manual intervention, and are helping to break down the silos within data center administration.

Deployment Flexibility

Automation at your pace also includes how you deploy the tools. Extreme Fabric Automation runs on the Guest VM of the SLX 9150 or SLX 9250 switching platforms. No need to download additional software as it comes pre-loaded with the switches. Simply enable the Guest VM and the application to begin automating. The automation tool can also be hosted externally on a standard server virtual machine if desired and will be cloudified in the near future. All deployment options provide northbound API's for integration into any orchestration platform to create a holistic and seamless experience for network and end point provisioning.



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