

AllPath® Director

A key component of Fiber Mountain’s Glass Core solution, AllPath Director is a centralized SDN orchestration system providing abstracted network control extensible to hyperscale data centers. Programmatic SDN control via AllPath Director is unique because it enables software-based control of physical connectivity. With AllPath OPX and AllPath Connect equipment, AllPath Director expands the reach of SDN to include layer 1, enabling softwarecontrolled moves, adds and changes and the creation of managed and dynamic physical infrastructure.

AllPath Director Software

Catalog No.	Description
AP-8450	APD Appliance
AP-8250	APD Virtual Appliance

AllPath Director Licenses

Catalog No.	Description
AP-9001-001	Device Licenses, Per Device, Annual Subscription
AP-9001-010	Device Licenses, Per 10 Devices, Annual Subscription
AP-9001-050	Device Licenses, Per 50 Devices, Annual Subscription
AP-9001-050	Device Licenses, Per 100 Devices, Annual Subscription

Features

- Audit Trail of all actions taken
- Real-time Network Documentation of entire infrastructure of layer 1 devices and connections
- Network Topology Management with auto-discovered views that include physical assets
- Point and click provisioning from Fiber Port Aggregator (FPA) endpoints
- Path Finder—select a port on an FPA to show the destination and path through the layer 1 network
- Port Finder—select a port on an FPA to show connected ports in the infrastructure
- Alarm Management with SNMP Trap forwarding
- Intelligent Connection Identification (ICID) controller for physical layer monitoring & configuration
- End-to-End Connection Management with Software-controlled moves, adds and changes
- NTP Access for Network Synchronization
- Enhanced User Management capabilities
- Replication and Redundancy for Embedded Manager, Controllers and Database
- Support for northbound RESTful API interfaces

What is the Glass Core?

Fiber Mountain’s Glass Core solutions integrate software and hardware innovations to transform network architecture. AllPath Director makes use of physical layer device discovery, Intelligent Connection Identification (ICID), per-port LED control and high-density fiber optics to extend SDN control to layer 1, enabling Connectivity Virtualization and the creation of managed and dynamic architectures.

The Glass Core solution can be implemented as an entire network managed by AllPath Director, or integrated with existing network architectures to add agility and visibility in a wide range of use cases:

- Automated cross connects for colocation data centers (CrossCage Plus)
- High density TAP
- Test automation
- Ultra-low latency one-to-many data broadcast
- Offloading high volume flows such as backups, VM moves, Hadoop clusters, Docker Containers or 4K video

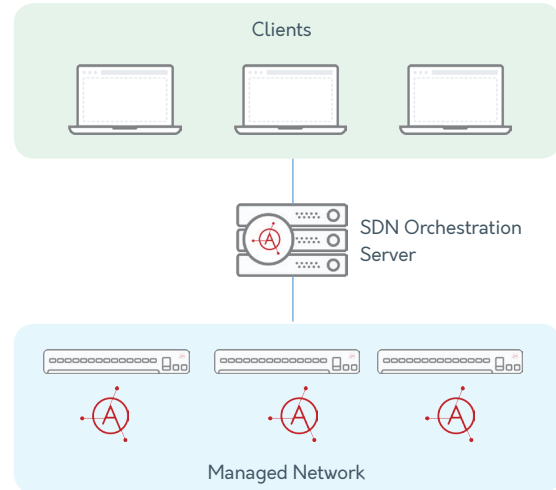


Figure 1: AllPath Director

The Physical Layer as a Network Asset

The architecture of AllPath Director accommodates rapid development and integration of new features and functions, such as enhanced traffic engineering. This is a significant benefit for data centers, for NFV functions, and for tuning OTN.

AllPath Director provides a northbound RESTful API for integration with other systems such as OpenStack. An AllPath Director installer application significantly reduces installation complexity through the automation of initial startup processes in PC and Mac environments

