

Solution Brief

Skylight LX Makes Bandwidth Upgrades Simple

Seamlessly increase bandwidth and maintain performance of mobile backhaul and business services

Overview

Continued demand from businesses and consumers for increased bandwidth and 5G network rollouts mean network operators are continually upgrading their network capacity.

Service providers serving different markets are all under pressure to increase bandwidth. Mobile network operators require increased capacity connectivity to their cell sites. Business service providers also need to deliver higher capacity services to their business customers. Data center operators are struggling to keep up with bandwidth demand while maximizing throughput per rack space.

When upgrading bandwidth, operators need to continue monitoring performance to ensure services are not impacted and there is minimal disruption to existing operations.

Skylight LX, a new small footprint 1GE or 10GE device, simplifies the daunting task of deploying higher bandwidth services anywhere in the network. The physical upgrade can be completed in minutes. Skylight orchestrator automatically manages the deployment process, with minimal impact on operations. Once the LX is installed, service providers can continue to monitor the performance of their newly deployed high bandwidth services with precision and accuracy.

Challenge

Space constraints are a common challenge for operators that need to upgrade capacity. Data centers and cell sites tend to have minimal space to add new equipment. Most higher speed monitoring devices are often larger than existing smaller, lower capacity devices, making them difficult to install or requiring long and disruptive maintenance. Sometimes deploying new devices also means additional power or cooling costs which often haven't been factored in when the site was first engineered. A simple bandwidth upgrade can represent quite a challenge due to the cost of changing network operations or integrating a new solution into the operator's performance reporting structure.

With real estate and support infrastructure costs being at a premium, the ability to increase port density, to serve multiple customers, or to provide multiple services from a single device become key requirements. At the same time, service providers want to ensure their investment in new hardware will be future-proof and support, for example, new 5G requirements.

Solution

Skylight LX enables the delivery of services from 1GE up to 10GE with minimal disruption to existing services and operations. This service endpoint with four 1/10 GE ports comes in a small form factor that makes it easy to deploy in most environments, even where space is limited. Service providers can swap out existing lower speed devices and replace them with the higher speed LX without having to remove any other equipment. Skylight LX supports higher bandwidth services and applications with precise and granular monitoring to help service providers meet stringent customer SLAs.

Designed to fit seamlessly into existing infrastructure and operations, Skylight LX uses the same interfaces as other Accedian elements to interoperate openly with standards-based network management and analytics platforms. Skylight orchestrator automates the LX configuration, service provisioning and testing for fast service turn-up. Furthermore, LX can be easily integrated with reporting tools or Skylight performance analytics for advanced monitoring and troubleshooting capabilities. Skylight LX is designed to support the 5G synchronization requirements to enable the roll out of 5G-based services.

Skylight LX Benefits

- Simple installation: easy to deploy and upgrade from 1GE to 10GE, simply swap the existing lower bandwidth device for the LX
- Increased 10GE port density: doubles the existing 10GE port density
- Fast service roll-out: seamlessly integrates with existing infrastructure and operations
- Unsurpassed performance visibility: data granularity and ability to detect performance issues before and after network changes
- Scale and performance: Skylight is used in networks with tens of thousands of endpoints and handles billions of performance measurements every day
- Automated provisioning and deployment: Skylight orchestrator centrally manages all configurations, as well as intelligent auto-discovery and auto-provisioning of Skylight LX
- 5G ready: supports the stringent synchronization requirements for 5G networks
- Analytics and machine learning: provides precise and granular metrics to Skylight performance analytics for network and application performance insight

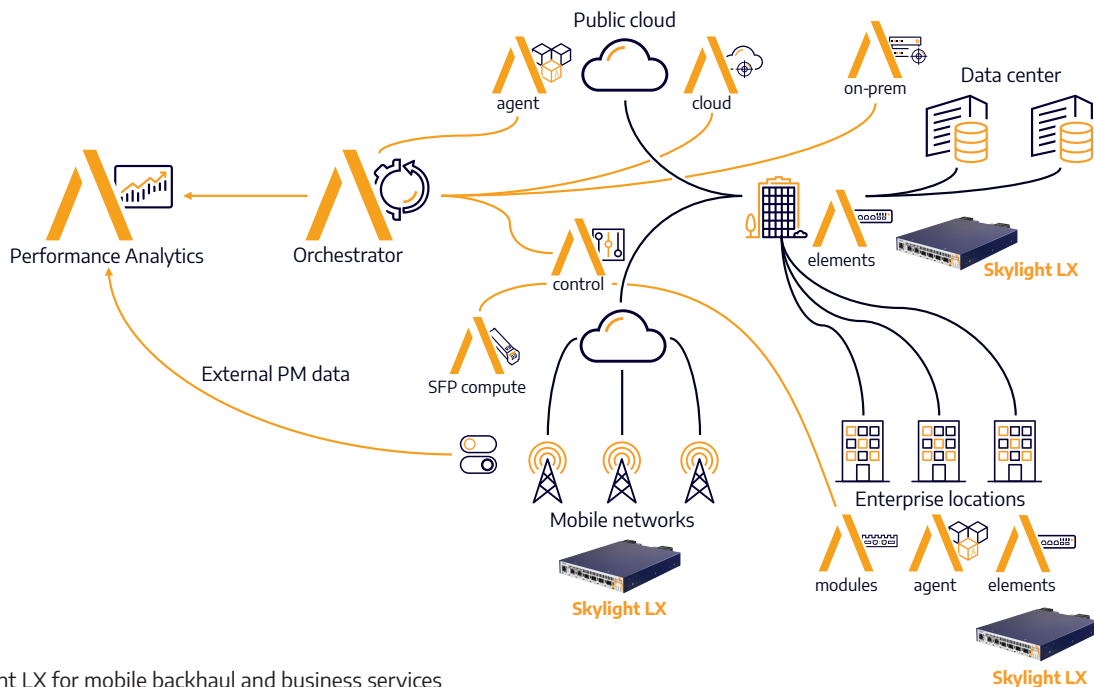


Figure 1: Skylight LX for mobile backhaul and business services

About Accedian

Accedian is the leader in performance analytics and end user experience solutions, dedicated to providing our customers with the ability to assure their digital infrastructure, while helping them to unlock the full productivity of their users.

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