

## Product Brief

# Skylight Sensor Control

Skylight sensor control provides active monitoring and service activation testing using Skylight sensor modules, and is a component of the Skylight platform.

Skylight sensor control can be used in point-to-point, hub and spoke, and full mesh network architectures to perform active, microsecond-accurate, standards-based performance monitoring of thousands of endpoints on a continuous basis. Delivering hundreds of precise and granular performance metrics and KPIs, Skylight sensor control can be used to monitor micro-outages, one-way delay variation, and service level agreement (SLA) compliance.

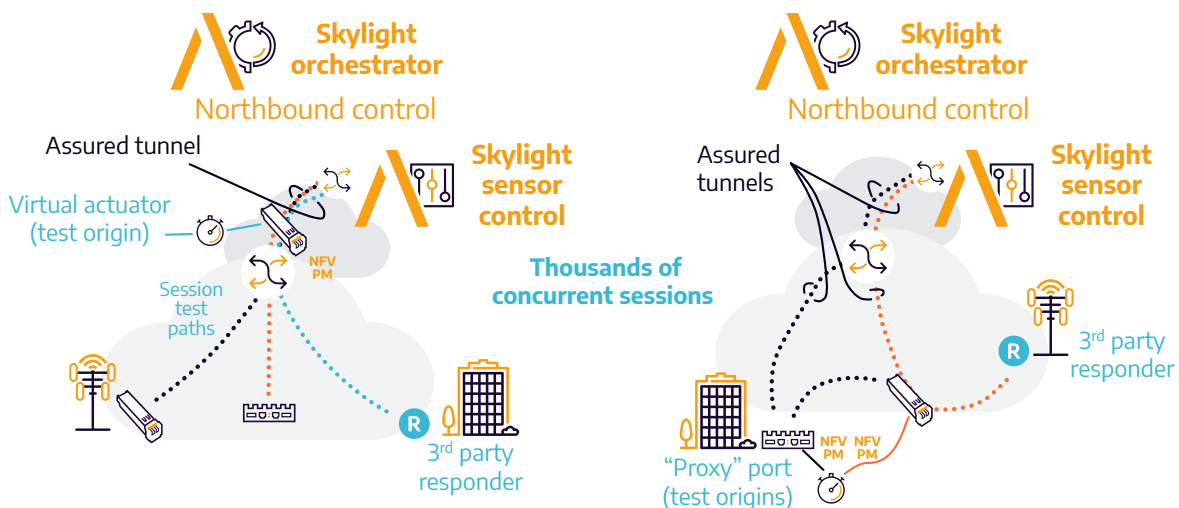
Designed to fit seamlessly into existing infrastructure and operational practices and procedures, Skylight sensor control interoperates openly with standards-based network elements, management platforms, analytics platforms, and more.

Skylight sensor control virtualizes the CPU functionality for Skylight sensor modules and SFP compute. Sensor control also maintains synchronization information for each endpoint, permitting highly precise one-way measurements over a variety of remote locations.

### Key features

#### Continuous active performance monitoring

Skylight sensor control generates virtualized performance monitoring (PM) sessions from any Skylight sensor modules and SFP compute to any destination in the network infrastructure, providing an easy-to-install test point originator. PM sessions are synthetic traffic sessions used to emulate actual user sessions, thereby testing and measuring the user or service experience proactively. As Skylight sensor control is standards-based, it can independently monitor third-party network devices.

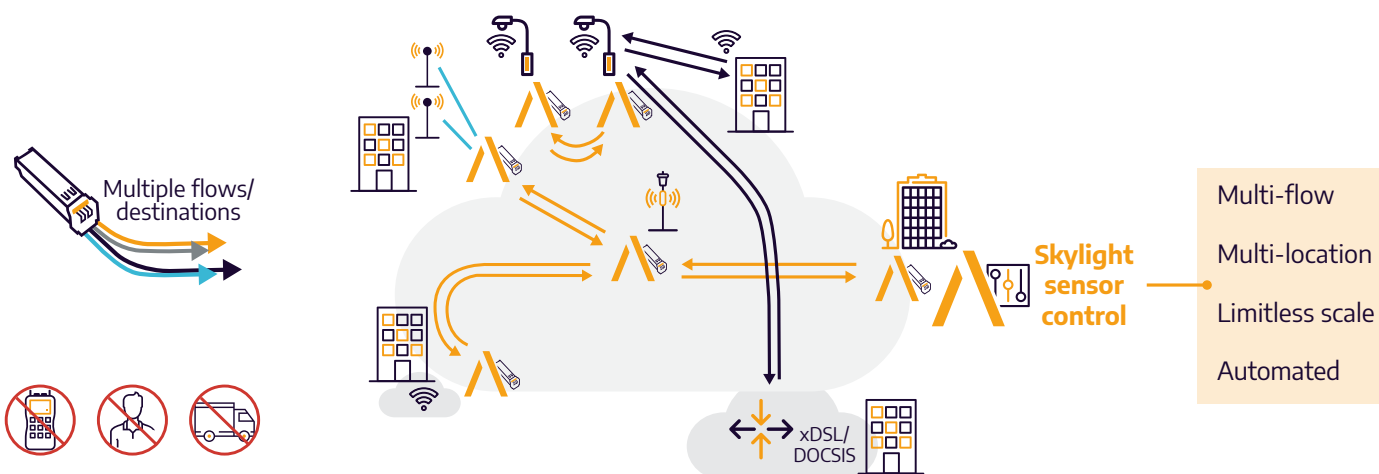


## Benefits

- Active monitoring with precise and granular performance metrics and KPIs
- Virtualized for scalable, continuous active monitoring of thousands of end points
- Service activation testing eliminates expensive truck-rolls and on-site testing
- Enhanced network visibility at lower cost than a centralized test head
- Bandwidth usage monitoring detects microbursts and traffic patterns
- Small form factor modules and SFP compute can be used anywhere for edge performance monitoring and remote packet capture

### Service activation testing (SAT)

Unique to Accedian, Skylight sensor modules and elements are capable of full line-rate test traffic generation. Skylight sensor control can create and analyze up to four Layer 2 or 3 unique flows or run a fully-fledged RFC-2544 and Y.1564 service activation test suite toward Skylight or third-party endpoints. This allows service providers to test a service path at turn-up and re-validate on-demand the capacity of a specific path or service during maintenance windows or when troubleshooting. Service activation tests can be executed from anywhere in the network, removing the limitation and expense of required head-end test equipment.



### Bandwidth usage metering

Bandwidth usage, when precisely measured, can reveal transient peaks or microbursts that cause TCP throughput delays. Skylight sensor control processes per-flow bandwidth usage metrics from Skylight SFP compute and modules, using time-stamps, as well as byte and packet counters, to accurately report throughput and usage. When correlated together with packet loss and other measurements, service providers can detect network bottlenecks and plan capacity—key metrics to assure and enforce the delivery of off-net services. Upload and download usage statistics can be monitored separately.

Skylight sensor control records network or service usage data based on sub-second sampling and reports minimum and maximum average bandwidth metrics on configurable report intervals. Per-service metering also permits usage-based billing, burst detection, trending, and traffic pattern analysis.

### Remote packet capture

Skylight sensor control's flow broker feature is the industry's first virtualized remote packet capture solution. It delivers precise time-stamped packets to any location (physical or virtual), providing quality of experience (QoE) visibility in virtualized networks by making distributed packet capture feasible and affordable.

## 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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