

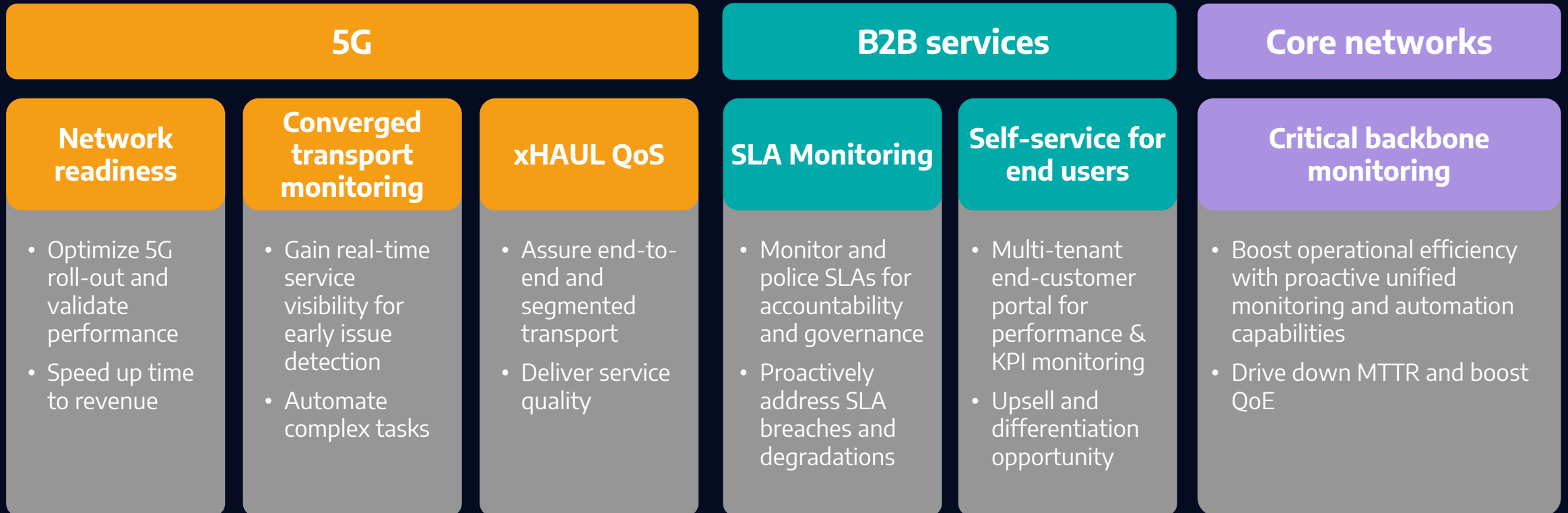
Accedian Skylight and Cisco Crosswork Network Automation Use Cases





Use Cases












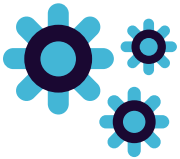



With Skylight and Crosswork Automation



Closed-loop operations

Intent-based automation of the infrastructure




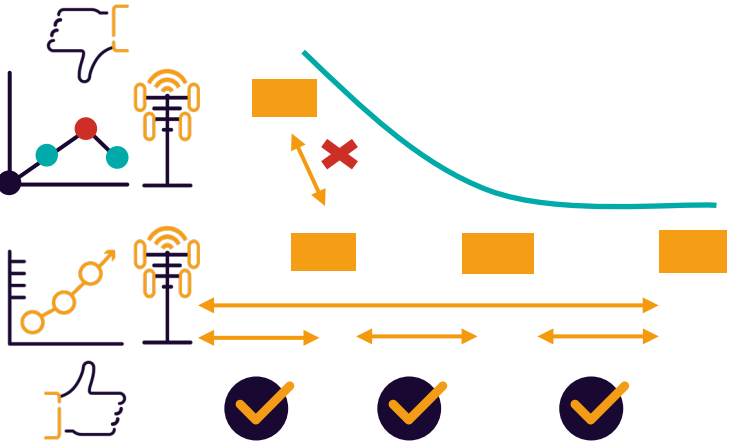
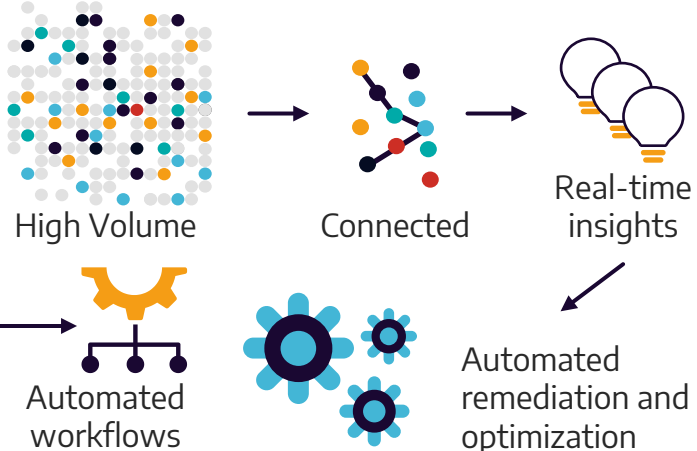
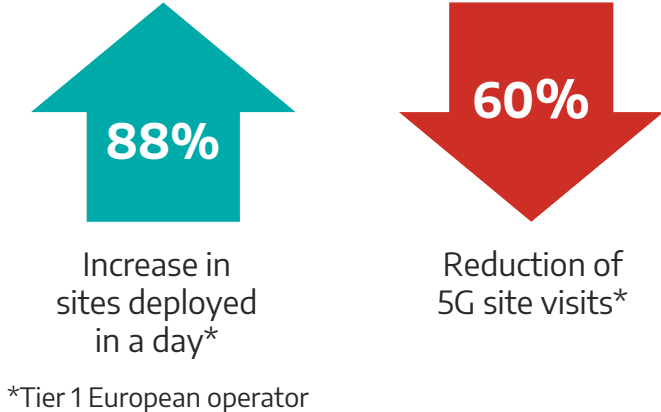





 Challenge Demands spike critical infra beyond acceptable limit causing poor customer experiences	 Challenge Incidents driving OpEx costs higher with false positives and redundant issues	 Challenge Reactive and manual actions to fix issues that are slow and error prone
 <p>Network KPI spikes</p> <ul style="list-style-type: none">• CPU• Memory• Custom values and logic  <p>Manual</p>  <p>Automated workflows</p>	 <p>High Volume</p>  <p>Connected</p>  <p>Insights</p>	 <p>Insights</p>  <p>Automated workflows</p>  <p>Automated remediation and optimization</p>
 Outcome Alert operations or applications to take action before customers are impacted	 Outcome Increase the effectiveness of your operations teams to focus on the real issues	 Outcome Proactive remediation connects the intelligence gained to close the loop on automated actions

Network readiness

Accelerate 5G rollouts



 <p>Challenge Inadequate tools to validate performance of 5G transport</p>	 <p>Challenge Lack of real-time granular insight to provision 5G slices and services</p>	 <p>Challenge Delays to 5G roll-out impact customer experience and revenue goals</p>
		
 <p>Outcome Optimize end-to-end transport and customer experience</p>	 <p>Outcome Real-time visibility & automation to assure dynamic services and slices</p>	 <p>Outcome Improve OpEx and roll-out efficiency and time to market</p>

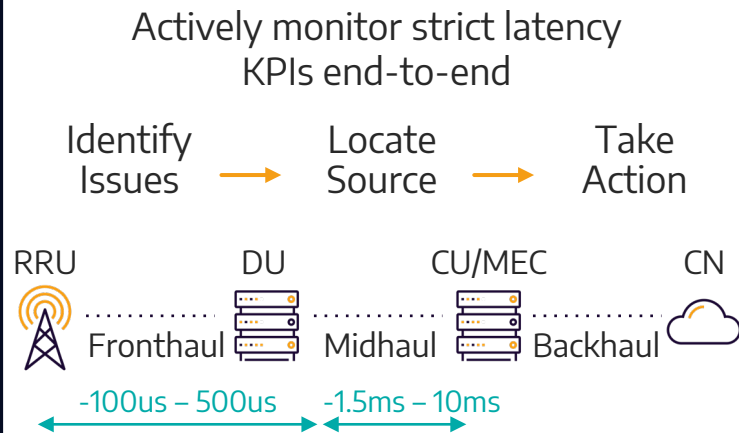
xHAUL Quality of Service

Optimize 5G user experience



Challenge

5G x-HAUL network is more complex and critical to assure end-to-end



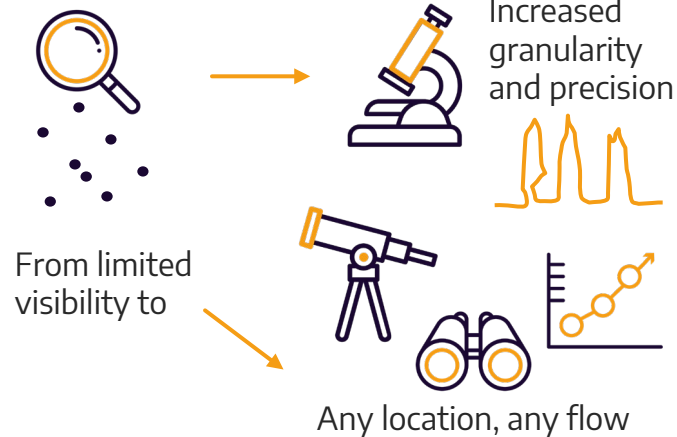
Outcome

Optimize end-to-end QoS class performance



Challenge

Existing tools have limited granularity and scalability



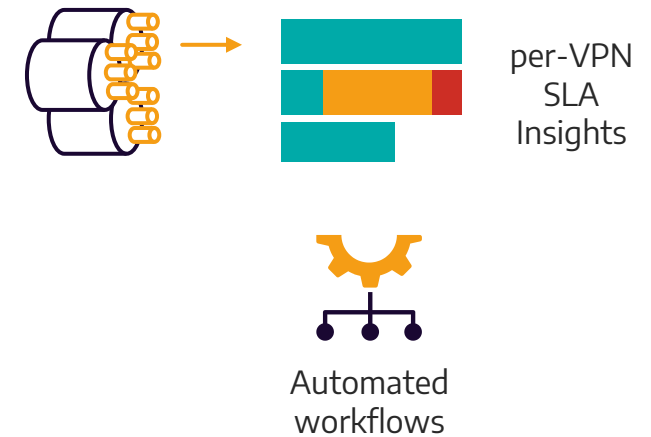
Outcome

Deep end-to-end insight into services and network segments



Challenge

Assuring SLAs for service VPNs running on transport network



Outcome

Automatically assure service QoE and SLAs

Converged transport monitoring

Operationalize SDN



Challenge

Automating assurance as part of service lifecycle to realize full SDN benefits



Network KPI thresholds

- availability
- throughput
- latency/delay



Manual



Automated workflows



Outcome

Alert operations or automate actions before customers are impacted

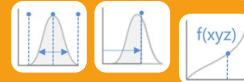


Challenge

Existing tools have limited granularity and scalability

Speed

Sub-second sampling



Precision

µSec resolution

1-way metrics



Focus

Any flow

Any location

Any segment



Challenge

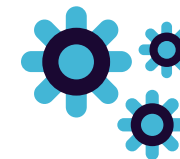
Real-time performance KPIs and proactive alerts to drive decision-making



Real-time insights



Automated workflows



Automated Remediation and Optimization











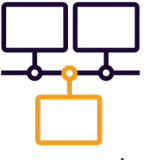
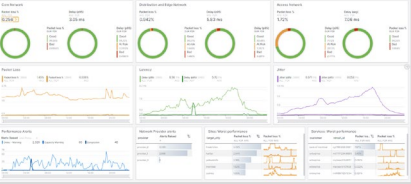
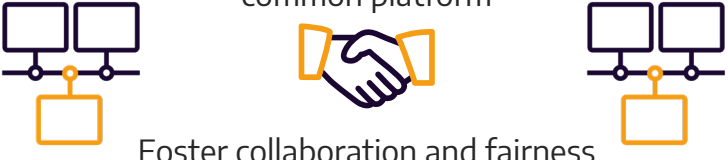



Outcome

Proactive remediation that connects the performance insight gained e.g. reroute paths/adjust bandwidth

SLA Monitoring










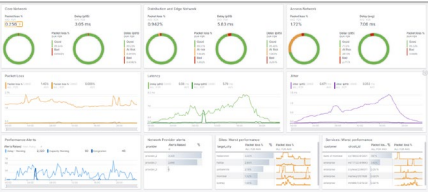









Drive new revenue and differentiate SLA-backed services

<p> Challenge New revenue opportunities and ways to differentiate services</p>	<p> Challenge End-customers expect SLA guarantees on service and network quality</p>	<p> Challenge In joint venture scenarios, SPs need a way to police traffic</p>
<p> Real-time SLA monitoring and reporting</p> <p> Real-time insights</p> <p> New revenue streams</p> <p>$+$ $=$</p>	<p> Critical services need SLA guarantees from the network service provider</p> <p> SLA monitoring of critical network services</p> <p> Network</p>	<p> SLA tracking and policing on a common platform</p> <p> Foster collaboration and fairness in network sharing scenarios</p> <p>NW1 NW2</p>
<p> Outcome SLA monitoring and assurance to offer competitive SLA-backed service guarantees</p>	<p> Outcome End-customers are satisfied their network service performance is meeting agreed SLA</p>	<p> Outcome All parties can monitor their traffic and control OpEx and avoid penalties</p>

Self-service for B2B end users



Transform self-serve experience with end-customer portals

<p> Challenge Meet customer demands for real-time service and SLA performance monitoring and reporting visibility</p>	<p> Challenge End-customer self-service portals are a common request in enterprise RFPs</p>	<p> Challenge Developing the capability in-house or adapting existing platforms is often not viable</p>
<p> Real-time self-service SLA reporting</p> <p> Real-time insights</p> <p> Customer Experience Increased responsiveness SLA transparency</p>	<p></p> <p></p> <p> Increase revenue</p> <p> Reduce support calls</p>	<p> R&D \$\$\$\$</p> <p></p> <p></p> <p> Portal aaS Subscription</p>
<p> Outcome Offer transparent network services and SLAs with confidence</p>	<p> Outcome Differentiate portfolio and upsell portal reporting dashboards 'as-a-service' for additional revenue</p>	<p> Outcome Reduce cost-to-serve customers with multi-tenanted end-user reporting portal</p>

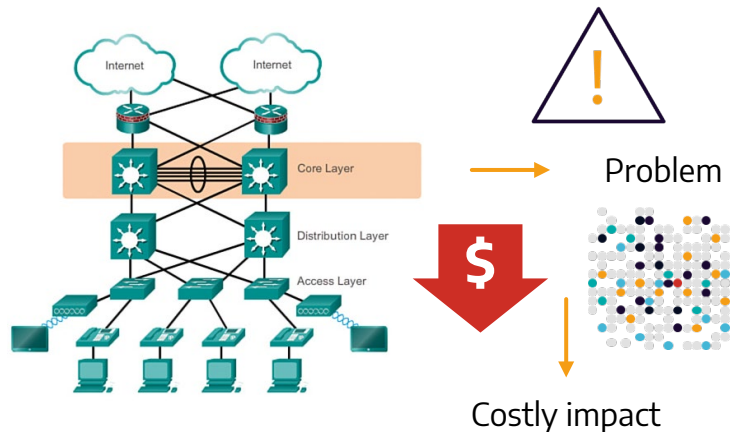
Critical backbone monitoring

Identify and resolve core network performance issues



Challenge

Backbone networks are often overlooked, but performance issues here can have a major impact



Outcome

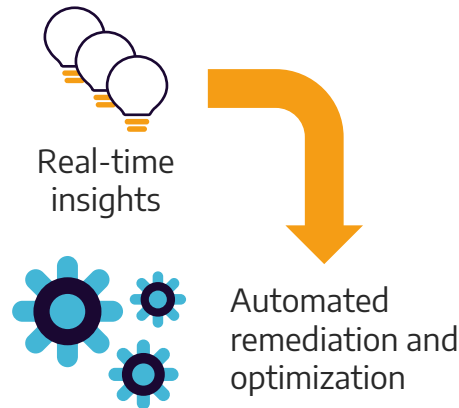
Alert operations or applications to take action before customers are impacted



Challenge

Existing tools lack the required granularity and scalability without additional hardware appliances (boxes)

- Microsecond accuracy and precision
- Per-second reporting
- Highly scalable



Outcome

Gain new real-time granular monitoring and automation capabilities



Challenge

Troubleshooting the root cause of issues is time-consuming



Improve troubleshooting capability - cut hours and manual efforts



Lower operational costs



Lower MTTR time



Boost QoE



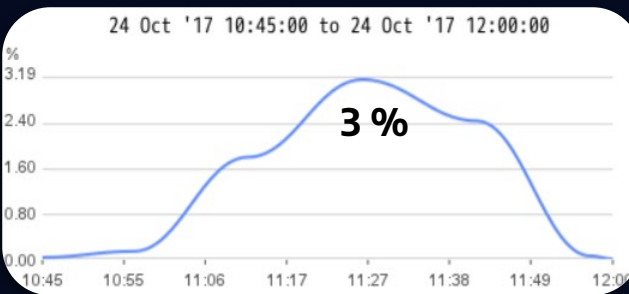
Outcome

Significantly reduce MTTR and time to resolve issues

The power of high-resolution monitoring



A green network is not flawless network



15
min

5
min

1
min

1
sec

Perception

One or two events x
Low magnitude x

Reality

Multiple occurrences ✓
Higher magnitude ✓