



Moving From 'Automated' to 'Intent-based'

Accedian and Cisco Crosswork Network Automation are driving the future of service assurance

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ACCEDIAN

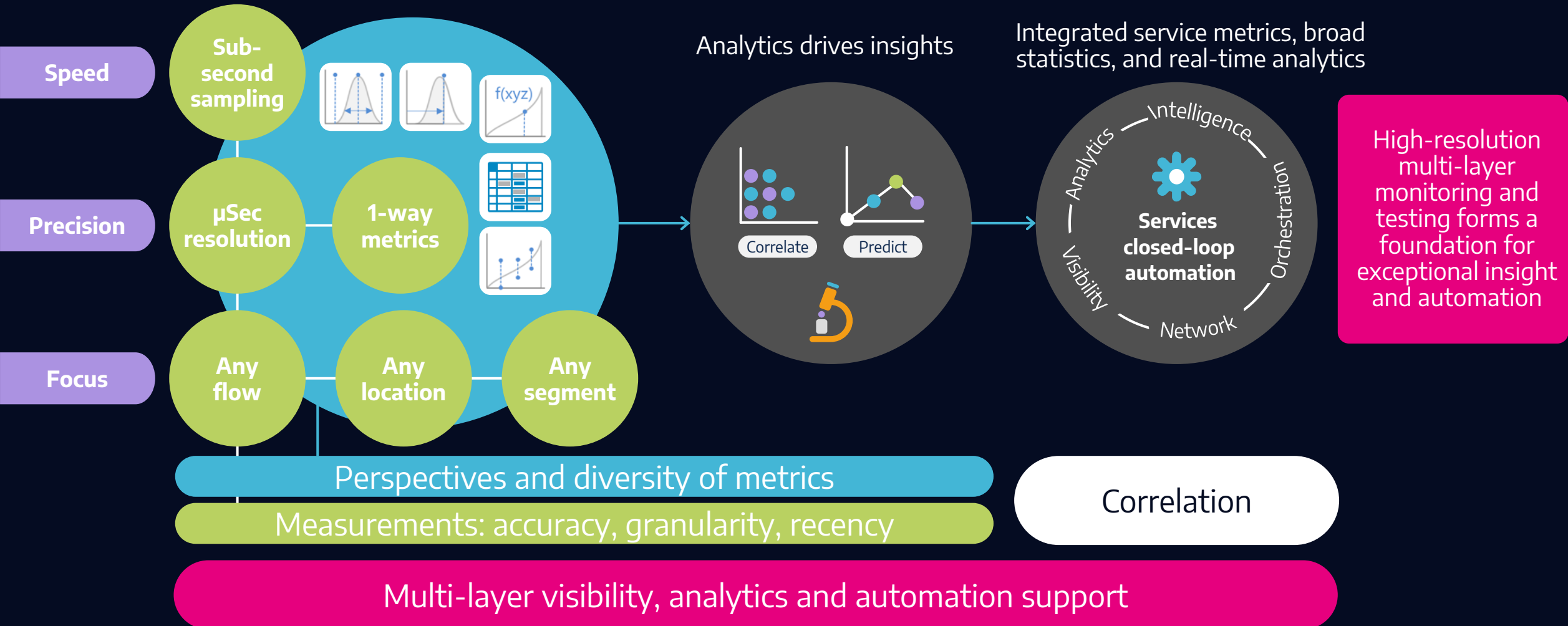
It Starts with End-to-end Visibility



- The thesis of Accedian is fairly simple: packets don't lie
- You can look at how a packet traverses a network and learn a lot about how the network and applications on that network perform
- Use data from streams of those packets to build a statistical model of the behavior of the network
- Bring all of this statistical data into one place, combine it with other sources of performance data, and you can learn a lot about past, present and future



Addressing Performance Assurance Challenges with Skylight



Breaking Out of the Network Management Mindset... (and into the Service Experience Centric)






- User experience is more than just the status of the equipment in the network
- Understanding user experience **starts** with understanding end-to-end visibility using packets, **then** correlating other sources of performance data to help drill down to root cause
- **User experience is more than the sum of the devices in their network – start with the user**



Why Do We Automate Visibility?

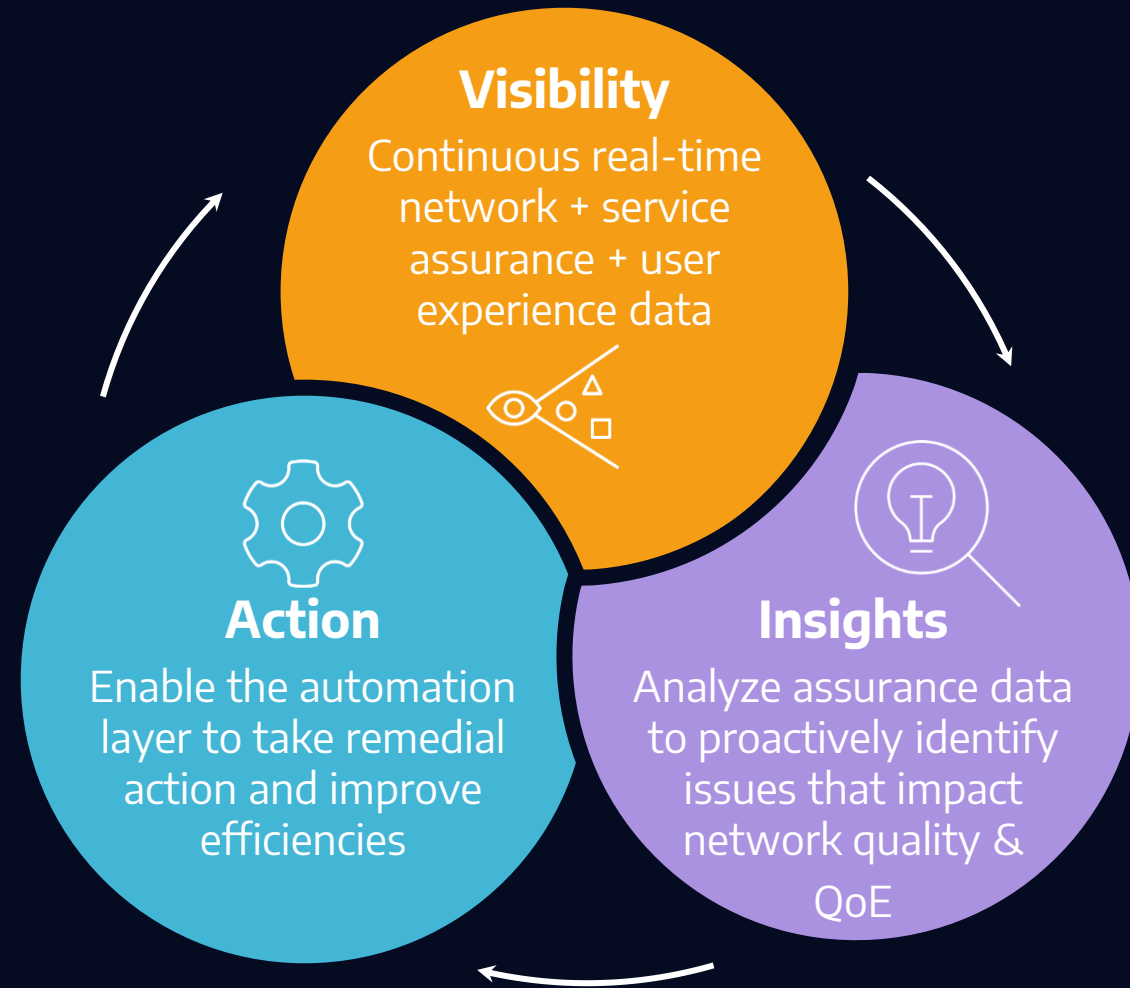


-  We want/need continuous visibility
-  Networks are not static
-  Intent-based networks require intent-based assurance



Intent-Based Assurance

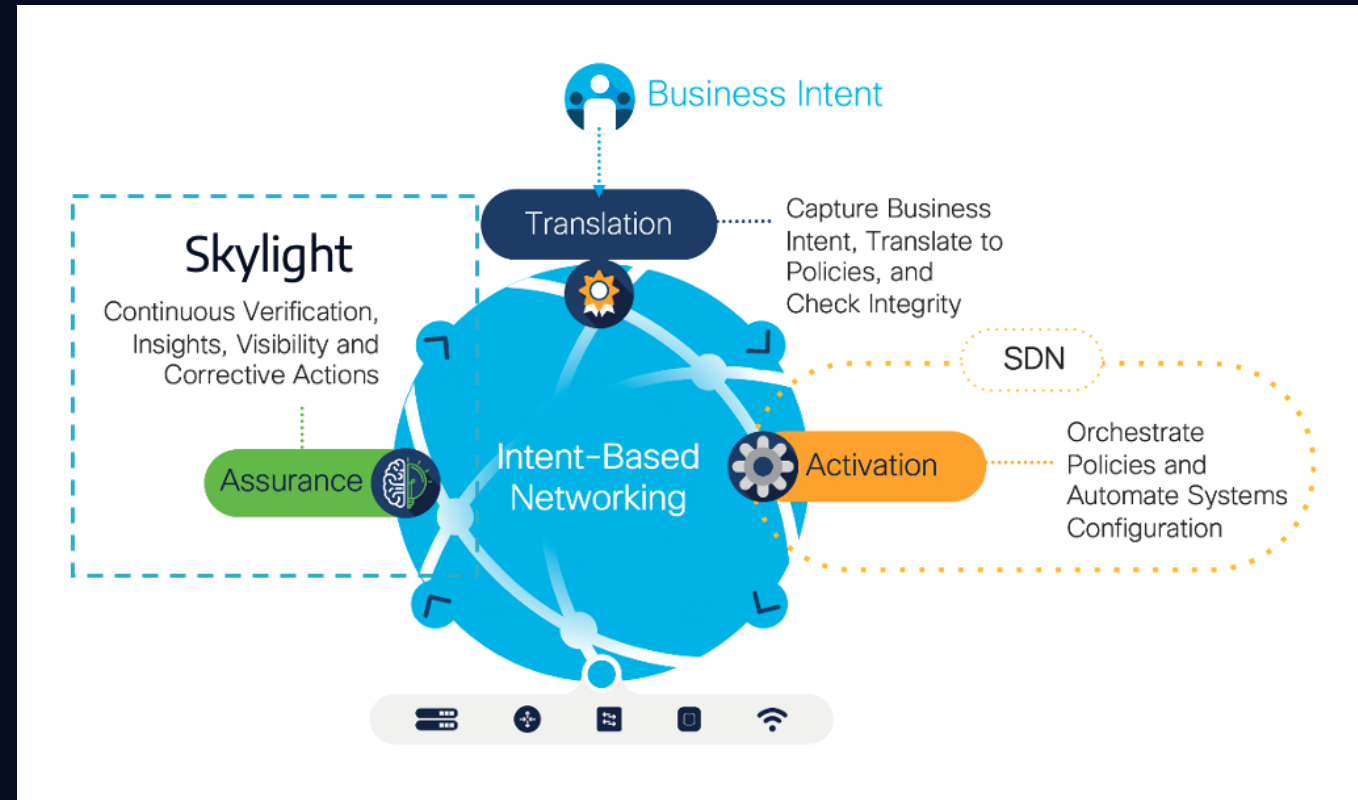
with Skylight and Cisco NSO and Crosswork Network Controller (CNC)



Why Intent-based Assurance?



- Intent-based networking requires a feedback loop on how well the network is delivering the intent
- The feedback loop needs to be able to be automatically set up when the service is set up
- **Intent-based assurance:** tell Skylight the service you want to monitor, and we'll monitor it and let you know when something goes wrong





Now For the How...

Overview of Skylight with Cisco Crosswork



Crosswork Network Controller



Orchestration



Insights/
Health



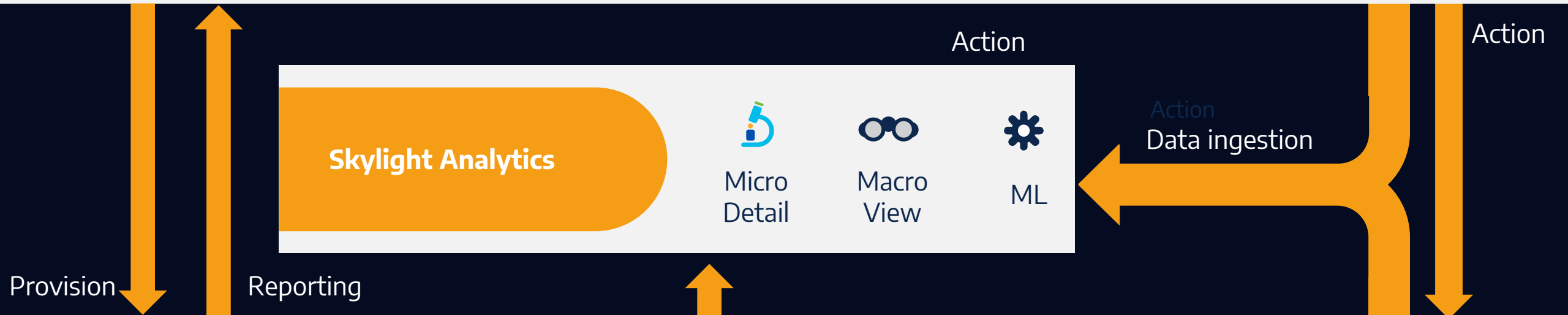
Third
Party



APIs



Action



Skylight Sensors



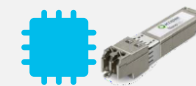
Agent



Control



Modules



SFP Compute

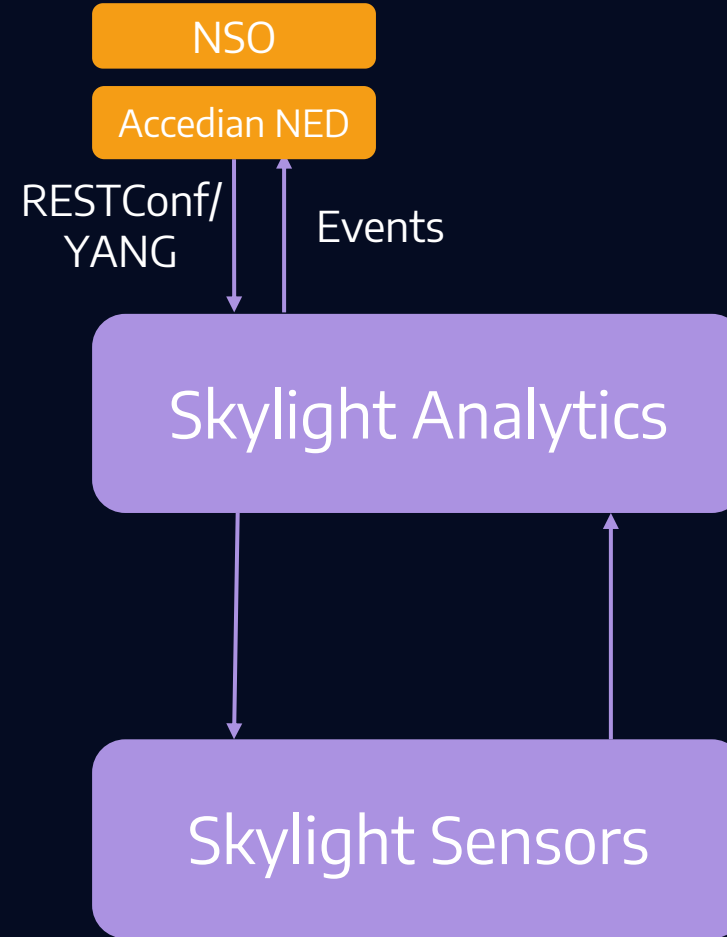


Network
Elements

Automating Performance Monitoring with CNC/NSO



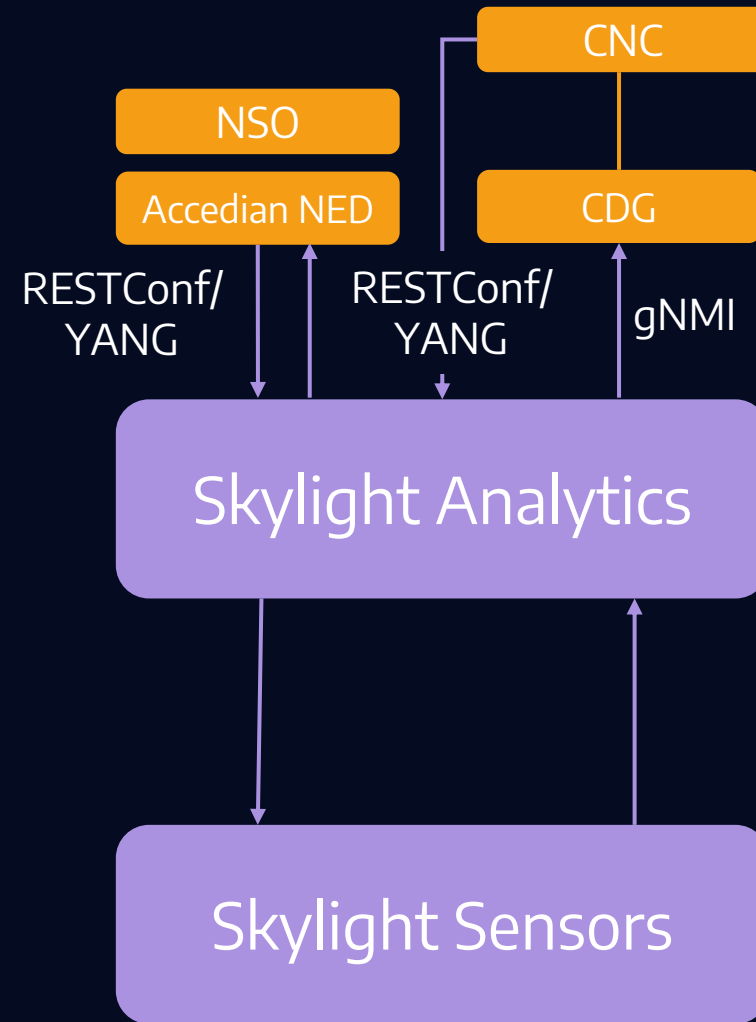
- Skylight has REST and RESTConf/YANG interfaces for automating the provisioning of service assurance
- Accedian NED for NSO to interface with Skylight to automate provisioning from NSO



Collecting Data & Alerts with CNC/NSO/CDG



- Skylight has MQTT/Kafka/RESTConf/gNMI interfaces for data and events back northbound
- Integrating gNMI interface with Cisco CDG to feed data into Network & Service Health platforms
- Accedian NED supports RESTConf alerts



POC with
CNC Today



What's the End Result?

1. Automate the provisioning of service assurance and collect alerts when there are issues with the service and automate remediation actions
2. View service assurance data in the Cisco CNC platform
3. Leverage Skylight as a service assurance platform, correlating Skylight sensor data alongside other PM data sources in a single pane of glass for internal performance troubleshooting and end customer portal views



Key Takeaways

Business Benefits of Intent-based Assurance



Granular and detailed visibility across your network 24/7/365:

- Improve network quality and NPS
- Reduce customer churn
- Reduce the cost to maintain your network
- Provide proactive adherence to SLAs



Service assurance as network intent:

- Reduced cost to deploy and maintain service assurance in your network
- Your assurance solution always accurately covers the entire network – when the network changes your assurance automatically changes with it



Closing the loop:

- Put the building blocks in place for closed-loop automation

Benefits of Intent-based Assurance for Our Partners



Seamless Integration



- Combine Cisco automation and management solutions with Accedian Skylight, allowing you to rapidly and cost-effectively provide a best in breed intent based networking and assurance solution to your customers



Build on Skylight & Cisco Crosswork

- Leverage automation using open APIs and pre-built integration to ITSM and other systems to fully integrate Skylight into your managed services offering



Visibility for your Customers

- Provide continuous real-time service performance visibility to your end customers



LEARN MORE



- Accedian Skylight documentation can be found at <https://docs.accedian.io/>
- API documentation can be found at <https://api.accedian.io/> and <https://docs.accedian.io/docs/skylight-analytics-integrations>
- More questions? Want to try this out? Catch me at tfoottit@accedian.com



Up Next: 'Recent Skylight Innovations in Review, Plus What's Coming Next!'

Don't miss tomorrow: 'Leveraging your Cisco Installed Base with Skylight'

Send us your Skylight feedback!

What's missing, what do you love, what do you want to see next? Let us know with this QR code





Thank you!