

Cisco Nexus 7000 Series Network Analysis Module (NAM-NX1) An Overview

July, 2013



Forward-Looking Statement

Many of the products and features described herein remain in varying stages of development and will be offered on a when-and-if-available basis. This roadmap is subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth in this document.



Cisco NAM Value Proposition

Integrated Network Traffic and Performance Analysis

Cisco Prime™ NAM delivers actionable visibility to optimize resources, troubleshoot performance issues, and support consistent end-user experience

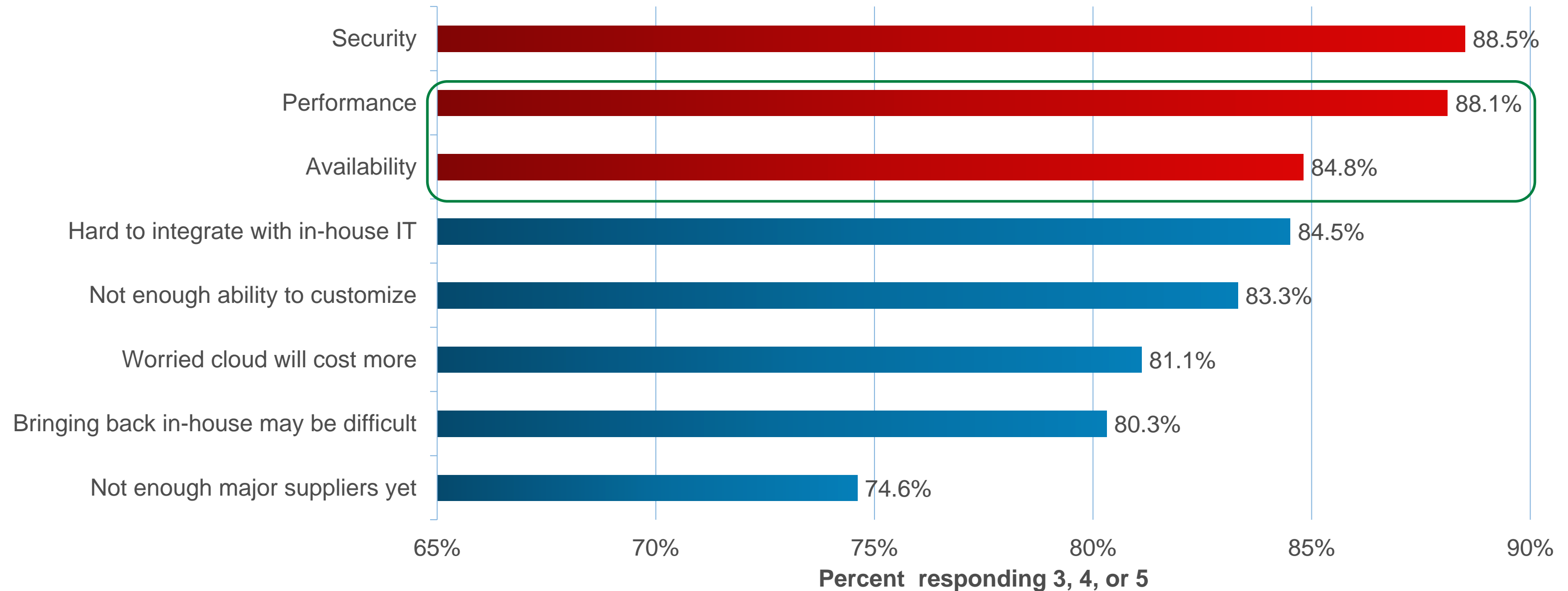


- Improves operational efficiency
- Provides consistent application and performance visibility across the network
- Reduces total cost of ownership

Key Barrier to Entry for Cloud Services in Enterprises

Performance and Availability Is Critical for Adoption

Rate the challenges or issues of the cloud or on-demand model
(where 1 equals not significant and 5 equals very significant)



Source: IDC

Building the Data Center Cloud

Network as a Platform for Efficient Service Delivery

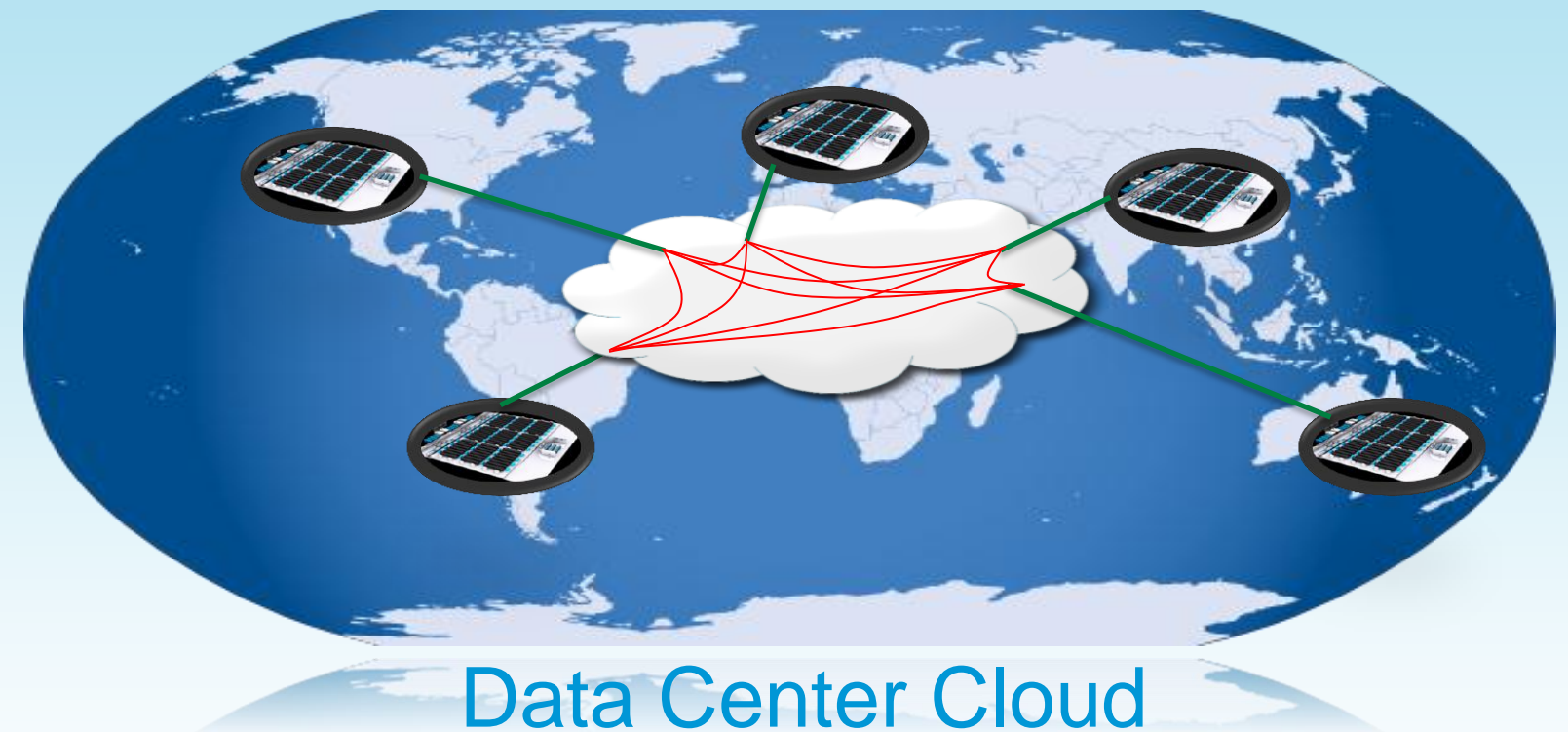
**DISTRIBUTED
APPLICATIONS**

WORKLOAD MOBILITY

BUSINESS AGILITY

Service Delivery Requirements

- Improved application experience
- Optimized network resources
- Enhanced operational efficiency



**Demands Application Awareness, Deeper Network Analytics,
and Instrumentation Flexibility**

Application Intelligence in the Data Center

Network Analysis Module (NAM) — First Integrated Services Module on Cisco Nexus® 7000

AWARENESS

Improved application performance

ANALYTICS

Optimized network resources

PROGRAMMABILITY

Enhanced operational efficiency

Performance
Analytics

Business applications,
voice, video

Network
Intelligence

OTV, LISP, TrustSec®,
VXLAN



Cisco
ONE
Controller

Programmability

Traffic steering, path setup,
traffic engineering

Network
Analysis Module

Application Awareness

Cisco
Unified
Fabric

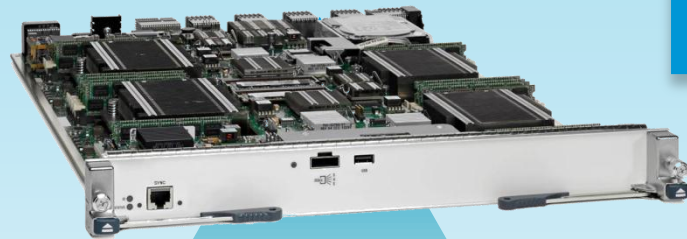
Application Services

Increase Visibility and Control

Introducing Cisco Nexus 7000 Series NAM

Integrated Application Intelligence and Deeper Network Visibility

NAM-NX1



APPLICATION
VISIBILITY

Deep application-awareness
and characterization

PERFORMANCE
ANALYTICS

Application Response Time,
MOS, Jitter

NETWORK
INTELLIGENCE

OTV, TrustSec®, VXLAN,
CAPWAP

PRECISION
PACKET
TIMESTAMPS

Based on PTP, 1588 time
synchronization

EXTENDED
CAPTURE
STORAGE

Choices across Mini-SAS
or iSCSI



Cisco Nexus® 7000 Series Switches

Visibility and Control for Improved Customer Services

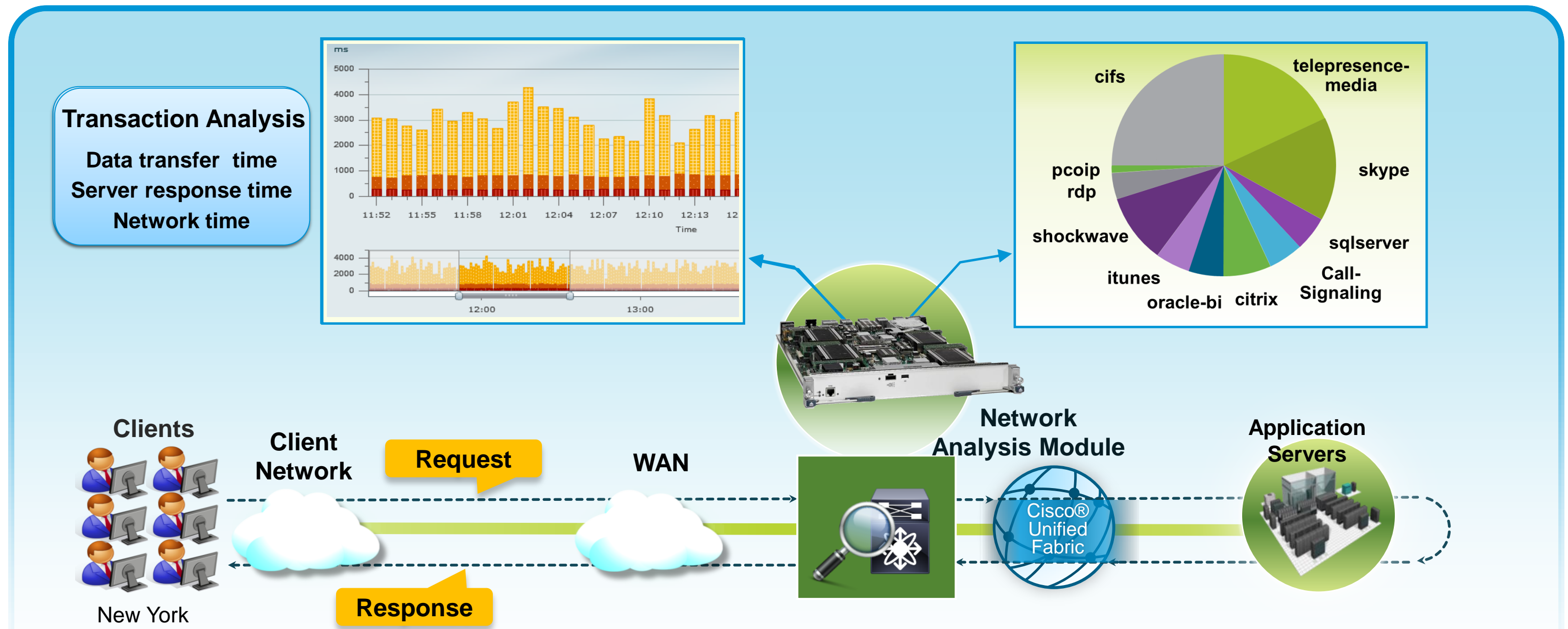


“We've seen a large return on our investment in Cisco Prime NAM by reducing system downtime and greatly streamlining IT administration. With thousands of connections to servers, we **rely upon NAM to help keep vital network and customer services at maximum performance and availability.** As we will be deploying Cisco Nexus 7000 Switches in our data centers, we are pleased that NAM will also be available as a services module for that platform.”

Ron van Vliet, IT Specialist, DC LAN, Wireless, VPN

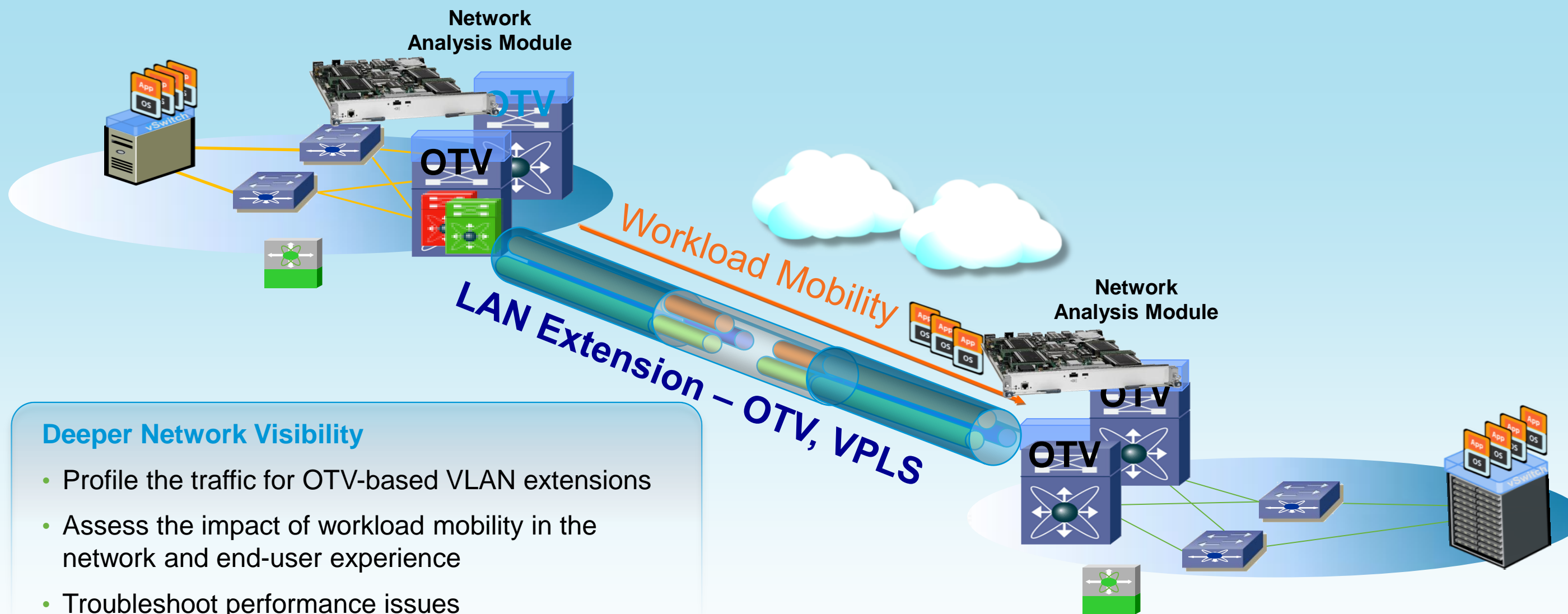
Characterize Performance of Business-Critical Applications

Improve End-User Experience and Isolate the Cause of Degradation



Enhance Application Performance Levels

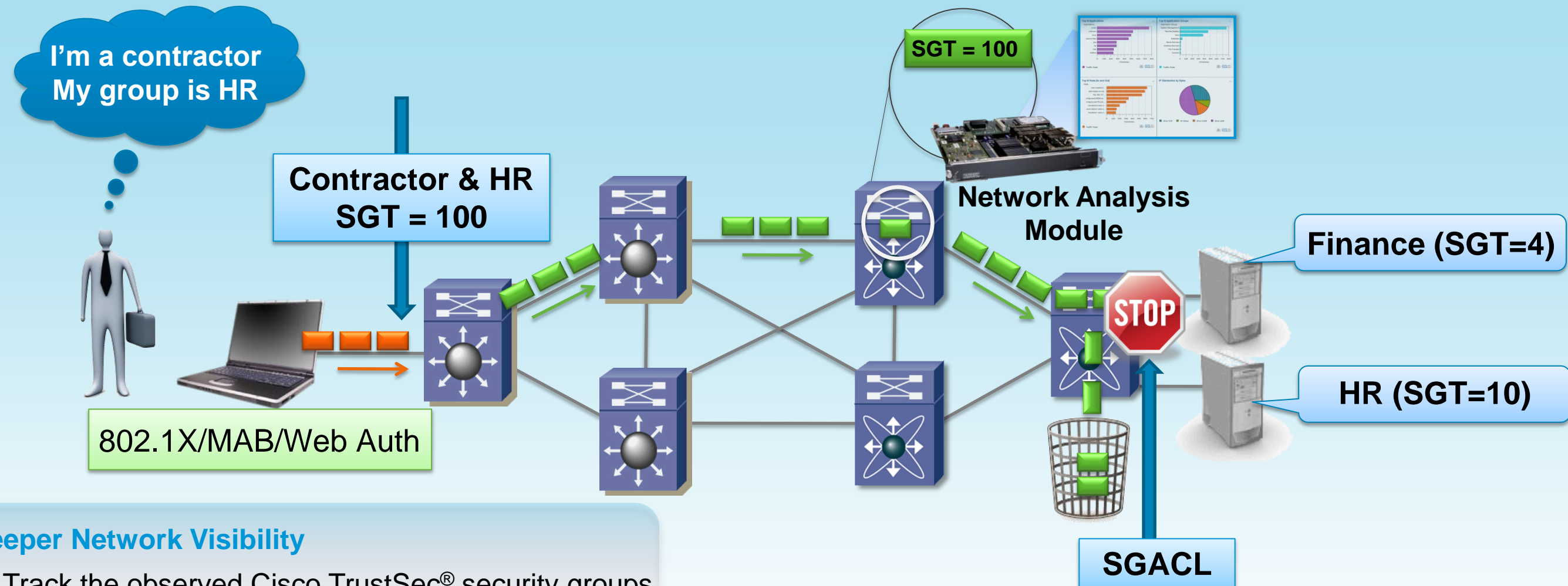
Unleash the Benefits of Overlay Transport Virtualization (OTV) for Long-Distance Stretched VLANs



Manage Workload Mobility

Validate Compliance to Cisco TrustSec Policy

NAM Delivers Traffic Visibility by Security Group Tags (SGTs)



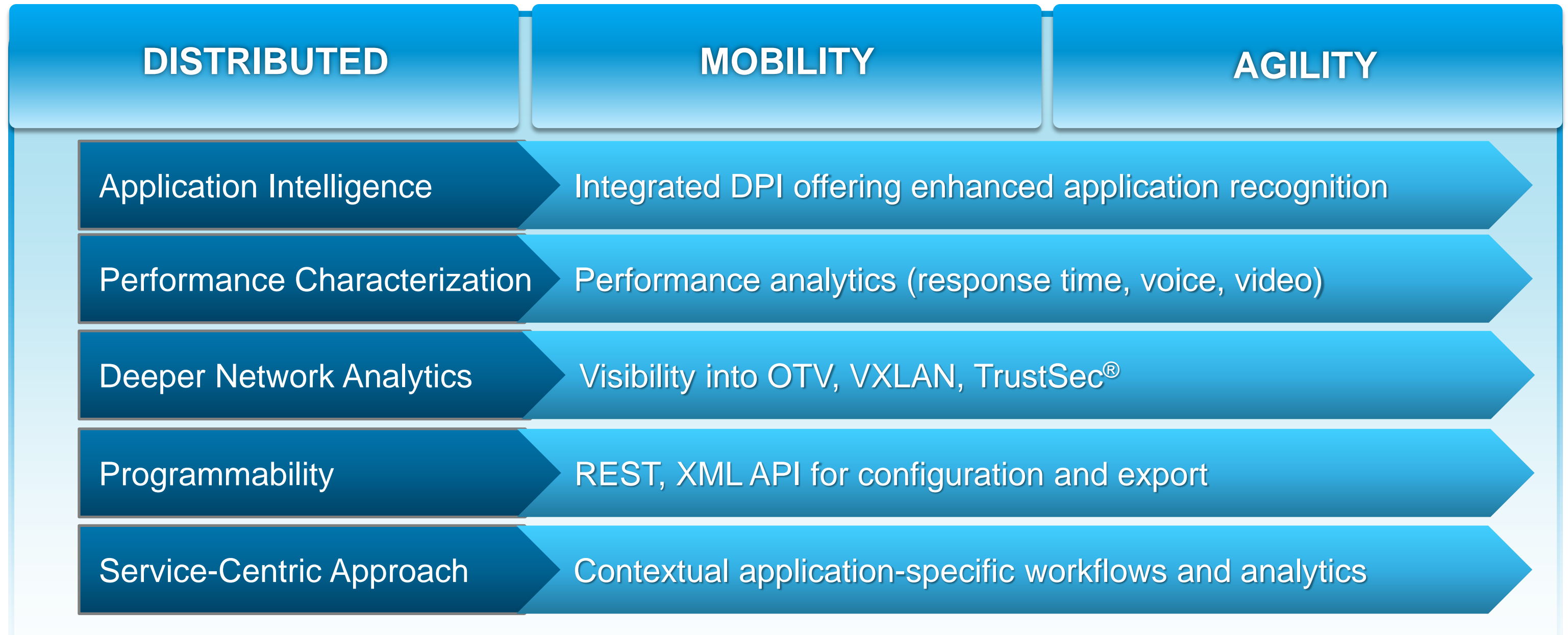
Deeper Network Visibility

- Track the observed Cisco TrustSec® security groups
- Evaluate the endpoints, hosts, applications, and conversations in one or more security group

Reinforce Network Security

Simplifying Data Center Operations

NAM Delivers Application Intelligence, Network Analytics, and Instrumentation Flexibility



Realize the Benefits of Cloud

Advantages of an Integrated Service Module

Transform the Fabric into a Service Delivery Platform

Embedded Application Intelligence

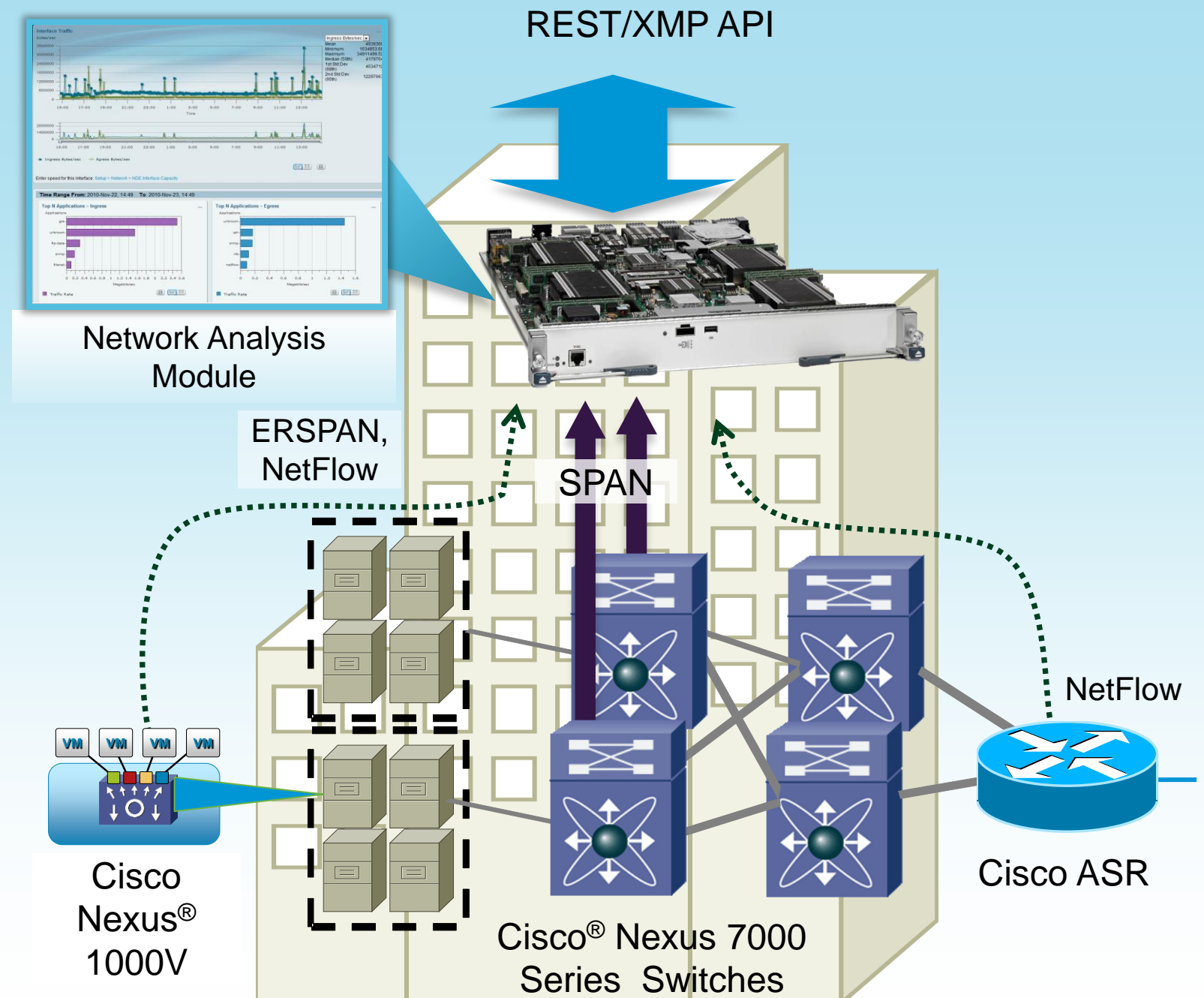
- Rich application performance analytics
- Built-in analytics dashboards

Deeper Network Analytics

- Efficiency through backplane integration
- Deeper network analytics (OTV, VXLAN)
- Operational continuity across physical and virtual environment

Reduced Total Cost of Ownership

- Reduced network footprint, no external connectors, improved power management
- Standards-based (REST/XML) open API



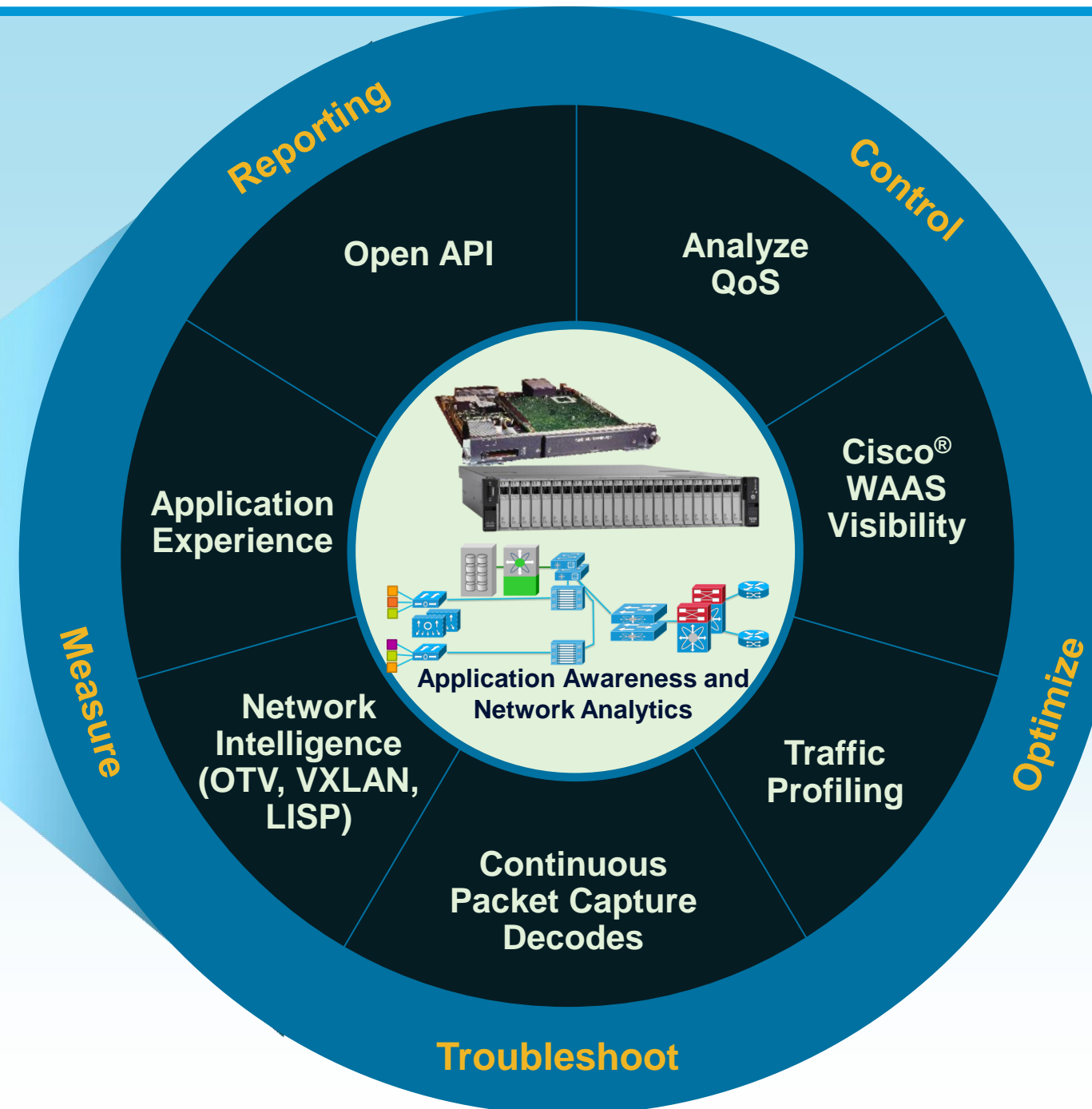
Cisco Prime NAM Portfolio Overview



Cisco Prime NAM Overview

Deeper Application Awareness and Rich Network Analytics

Integrated Management and Reporting Dashboard



Deployment Choices with Purpose-Designed Form Factors

Integrated Service Modules, Virtual Blades, and Appliances

Target
availability:
Q3CY13

Cisco Prime™ Virtual
NAM (vNAM)



Cisco® Prime NAM for
Nexus 1110



Cisco Prime NAM for ISR
G2 SRE



NAM Product Portfolio

Nexus® 7000 Series
NAM Blade
(NAM-NX1)



Cisco Catalyst® 65xx,
Cisco 76xx NAM
blade (NAM1, NAM2)



Cisco Catalyst 6500 Series
NAM Blade (NAM3)



NAM 2300 Series Appliance



SPAN

ERSPAN

RSPAN

NetFlow

CEF

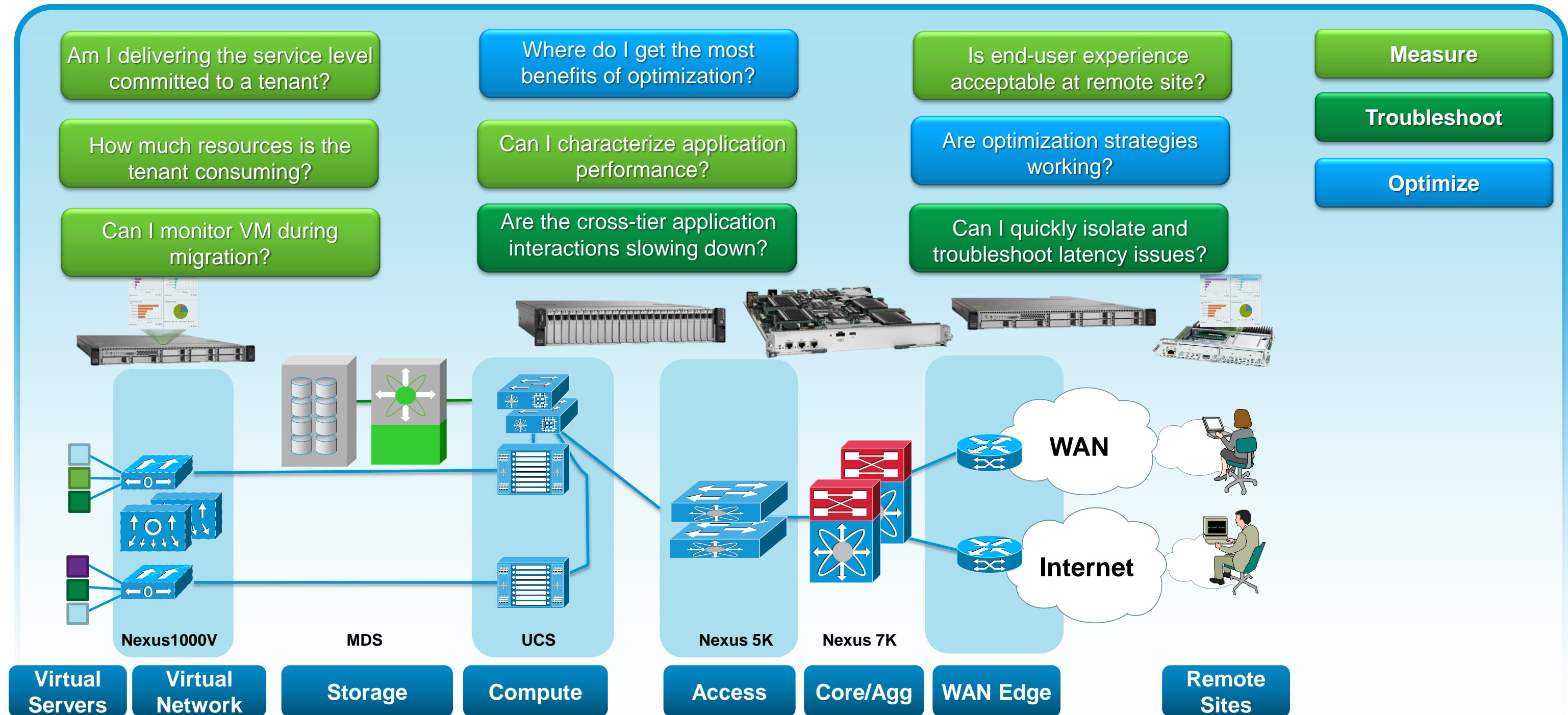
VACL

WAAS

Performance
Agent (PA)

Use Case-Driven Deployment Points

Consistent Application Recognition, Performance, and Usage Analytics



Product Information

- Cisco Prime™ Network Analysis Module (NAM) Family
<http://www.cisco.com/go/nam>
- Cisco Nexus® 7000 Series NAM (NAM-NX1)
<http://www.cisco.com/go/nxnam>
- Blog:
<http://blogs.cisco.com/datacenter/introducing-first-services-module-on-nexus-7000-series/#more-98686>
- Cisco® TechWise TV:
http://www.youtube.com/watch?v=X3_dj4MnKxY
- Questions:
nam-info@cisco.com



Thank you.

