



Intent-Based Networking and DNA Center 🔯





AN INTRODUCTION

Acadia Technology Group is an IT solution provider operating out of our headquarters in Montclair, NJ, with offices in Washington, D.C., Austin, TX, and San Diego, CA. As a Cisco partner with decades of experience, we are responsible for some of the most cutting-edge, internet-of-things and security solutions within the retail, theme park, legal, finance, government and academic markets. We've been successful and built our reputation on client-centered service.

We know you want to lead, not imitate. And we know your business objectives drive your network investments.



Acadia's Planning / Assessment Integration Services

DATA CENTER

Monitoring Capacity Planning End-to-End Data Center Services (Security, Application Delivery, LAN, SAN, Storage)



SECURITY

Architecture Managed Service Compliance Implementation / Integration

UNIFIED COMMUNICATIONS / COLLABORATION

Unified Messaging Web, Voice & Video Conferencing Contact Center Design & Implementation





NETWORK INFRASTRUCTURE

Network Design, Upgrade & Migrations Testing, Certifying, and Documenting the Network

WIRELESS / MOBILITY

Infrastructure Design & Build Unify with Wired Network Monetize with Analytics Hyper-Relevant Offers







INTERNET of THINGS

Device connectivity and connection Data sensing and collections Data analytics Data value defined by actions Human value, apps and experiences

Acadia's Project Management / Lifecycle Methodology

OI ASSESS & ADVISE

Discovery of the existing environment to determine whether it can support the proposed system. Develop a statement of direction and a notional plan.

- O2 PLAN & DESIGN

 Develop a comprehensive detailed design that meets corporate and technical requirements. Develop a detailed plan.
- 03 BUILD & IMPLEMENT
 Integrate devices without
 disrupting the existing
 network or creating points
 of vulnerability. Develop a
 migration plan.

ASSESS ADVISE OPTIMIZE ACADIA PLAN & DESIGN PROCESS STRATEGY SUPPORT LIFECYCLE IMPLEMENT 05 TRAIN

TRAIN

04

Provide training to employees, to ensure the team has the ability to support the solution.

SUPPORT

05

Maintain network health through day-to-day operations. Develop a change management and operational testing procedures.

OPTIMIZE

06

Achieve operational excellence through ongoing improvement, performance and functionality. Develop a performance review procedure.

Acadia's Focus with our Clients

- Our client business requirements define the solution we help design / implement.
- Leave customers in control of their environments.
- Increase network sophistication to meet evolving business needs while making it simple to manage and live with.

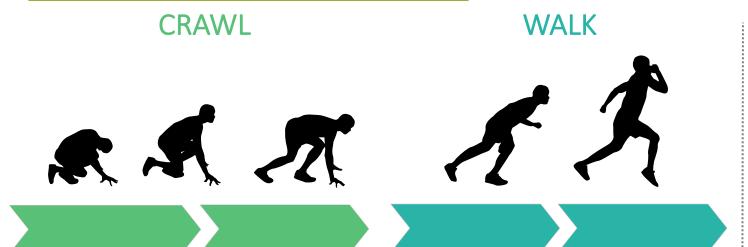
SIMPLE IS GETTING HARDER!

- The Digitization of Business
- Number of devices keeps growing exponentially each year
- Network management tools keep rising both in quantity & complexity
- Budgets are not keeping pace

Today we will show you ...

- How to work with more efficiency
 - Control your network all at once, not device-by-device
 - Automate configuration tasks
- How to improve your network security
 - Imagine only whitelisted traffic in your network
 - Imagine if every hop was a "Firewall"
- How to gain deeper network insight
 - Faster, guided, actionable troubleshooting
 - Telemetry and Analytics

How to Begin: The Path to Building an Intent-Based Network



Start with DNA-C Assurance / Analytics

BENEFITS:

- Deeper Insight
- Faster troubleshooting

BENEFITS:

- Increase efficiency
- Basic task automation

RUN



Create Campus Fabric

BENEFITS:

- Automation of configuration tasks
- Highly secure environment

A Few Key Questions

What is Intent-Based Networking?

What are the benefits of Intent-Based Networks?

How to start adopting an Intent-Based Network?

An intent-based network bridges the gap between business and IT. It captures business intent and continuously aligns the end-to-end network with that intent. Intent can apply to application service levels, security policies, compliance, operational processes, and other business needs.

What is Intent?

INTENT I want to do a hike in Acadia National Park.

- ✓ Plan your itinerary
- ✓ Pack up your stuff, gas up the car
- ✓ Get to the park
 - Realny power carry to estimation
 - Bide, drive, drive
- ✓ Do your hike

An intent-based network bridges the gap between business and IT. It captures business intent and continuously aligns the end-to-end network with that intent. Intent can apply to application service levels, security policies, compliance, operational processes, and other business needs.

What is Intent?

I want to make sure the only people with access to the Payroll database work in the Accounting department.

- ✓ ID the "Payroll database" and the "Accounting department"
- ✓ Create a policy that protects the "Payroll database" from anyone except the "Accounting department"

- EXECUTION V Determine where the policy needs to be applied
 - ✓ Install the policy
 - ✓ Verify the policy acts as intended
 - ✓ Assure an Ops method can modify the policy appropriately when changes occur

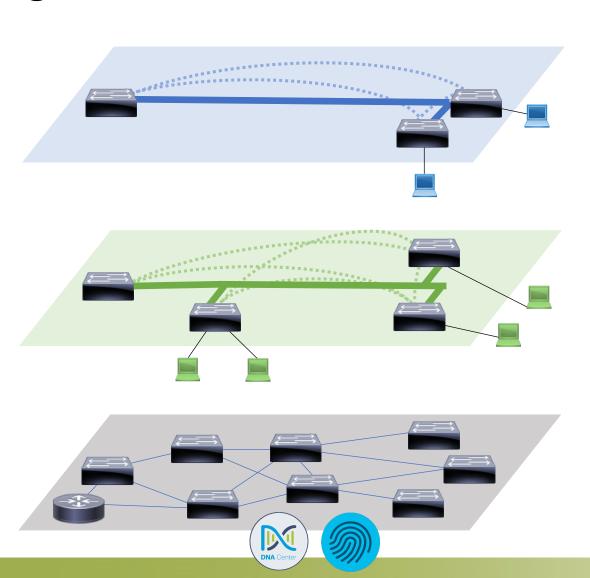
Business Intent







- Underlying infrastructure
 - "Underlay"
 - Layer 3
- Control
 - DNA Center
 - ISE
- Virtual Network
 - "Overlay"
- Standards-based
 - LISP
 - VXLAN
 - TrustSec



Benefits of an Intent-Based Network

- Abstraction of underlying infrastructure
- Unified UI, APIs
- Automation / Orchestration
- Modern Networking Technologies: LISP, VXLAN...
- Configurations based on
 - Cisco Validated Designs (CVDs)
 - Best Practices (BPs)

Benefits of an Intent-Based Network

- Configuration and Policy integrity
- Rapid deployment through automation
- Security is built-in
- Seamless integration of Wired + Wireless
 - Consistent management
 - Optimized traffic flow



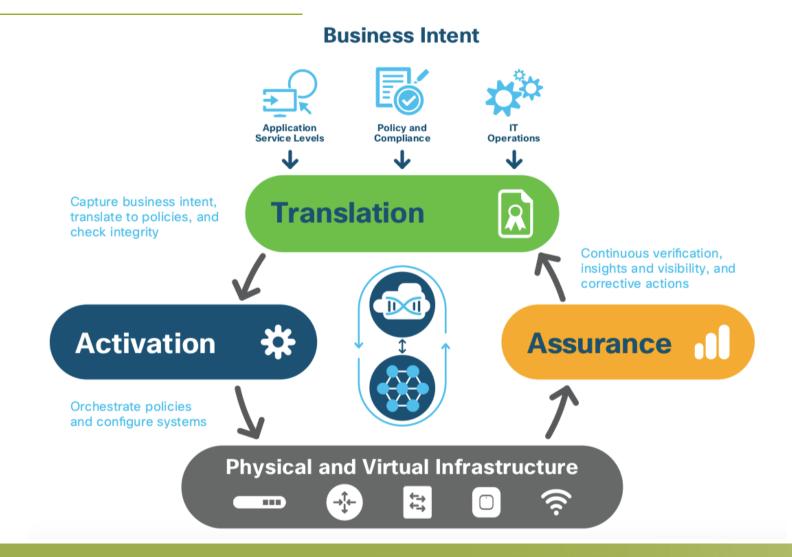




Benefits of an Intent-Based Network

Assurance

- Telemetry
- Analytics, Machine Learning
- Deep visibility
- Correlated insight
- Guided remediation, based on TAC experience
- Rewind the clock



What's Next?

- Do some homework
 - o Cisco.com
 - Ciscolive!
 - E-Learning
 - Training

- Call us
 - o Demos, PoVs, PoCs
 - Lab Time
 - Consultation
- Call your Cisco AM







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