cisco.

Cisco Digital Network Architecture

The Next Era of Networking Has Arrived

Digitization is fueled by major technology trends: mobility, the Internet of Things, cloud computing, and analytics¹. Businesses seeking to digitize need to evolve to a network with real-time insights and personalized experiences, automation and assurance, and security and compliance.

What Is Cisco Digital Network Architecture?

Cisco[®] Digital Network Architecture (DNA) provides an open, software-driven platform that integrates critical innovations in networking software, such as virtualization, automation, analytics, and cloud, into one architecture. It gives you a roadmap to digitization and helps enable business and IT to innovate faster, reduce costs, and lower risk with services that are easy to consume.

Lower Costs

79% reduction

in network

installation costs²

Network Requirements for the Digital Organization



Insights and Experiences New Business Models | Faster Innovation



Automation and Assurance Speed, Simplicity, Visibility | Reduced Cost and Complexity



Security and Compliance Real-Time and Dynamic Threat Defense | Lower Risk

Cisco DNA Delivers Real Business Benefits



Greater Business Agility

85% faster network services provisioning¹



Investment Protection

2X software value than with individual components with license portability³



Reduced Risk

100X faster threat detection⁴

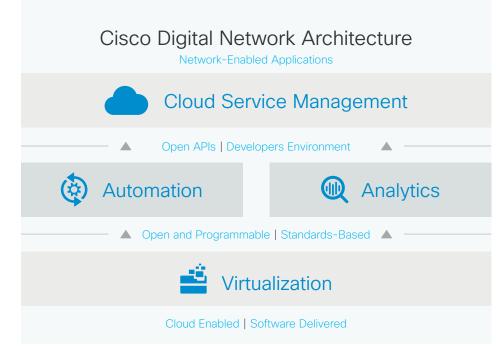


Resource Optimization

80% more energy savings and reduced maintenance costs⁵

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¹Based on Cisco APIC-EM with IWAN–Estimate based on workflow changing from 900 CLI lines to 10 GUI clicks. ²Cisco APIC-EM with PnP–Based on average installation cost for customer deployments. ³Cisco ONE Software Buying Model for Access and WAN. ⁴Cisco 2016 Annual Security Report. ⁵Cisco Energy Management Solution with Philips LED Systems.



Cisco DNA Guiding Principles:

- **Cloud managed** to unify policy orchestration across the network .
- **Designed for automation** to make networks and services easy to deploy, manage, and maintain
- **Pervasive analytics** to provide insights into network operations, IT infrastructure, and the business
- Virtualization to run services anywhere, independent of the underlying platform: physical, virtual, on premises, or in the cloud
- Open, extensible, and programmable at every layer, integrating Cisco and third-party technology, open APIs, and a developer platform

Cisco DNA Innovations



Automation

- Cisco Application Policy Infrastructure Controller Enterprise Module (APIC-EM): Serves as the Cisco DNA controller and supports a range of automation services
 - · Cisco Plug and Play: Reduces deployment time from four weeks to days and decreases day-zero deployment costs by up to 79 percent compared to traditional methods
 - Cisco Easy Quality of Service (EasyQoS): Enables the network to dynamically update network-wide QoS settings based on application policy
 - Cisco Intelligent WAN (IWAN): Allows IT to deploy a full-service . branch office with just 10 clicks

Virtualization

- Evolved Cisco IOS® XE Software: Provides open, model-based APIs for third-party application development, software-defined management, application hosting, and edge computing
- Cisco Enterprise Network Functions Virtualization (NFV): Decouples hardware from software and provides flexible deployment options, including a customized Cisco platform, or Cisco UCS E-Series and C-Series Servers



Analytics

Cisco Connected Mobile Experiences (CMX) Cloud: Provides you with valuable insights and allows personalized engagement using location and presence information

Security

These innovations enable you to use your network as a powerful security sensor and enforcer:

- Cisco StealthWatch®: Provides network visibility and security analytics to rapidly detect and contain threats
- Cisco TrustSec[®] and Cisco Identity Services Engine (ISE): Use softwaredefined segmentation to control network access, enforce security policies. and help meet compliance requirements

Next Steps

For more information about Cisco Digital Network Architecture (DNA), visit cisco.com/go/dna.

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