

DNADDC-Deploying and Administering Cisco Digital Network Architecture (DNA) and Intelligent WAN (iWAN)

Code:	DNADDC-GK
Length:	5 days
URL:	View Online

DNADDC - Deploying and Administering Ciscos Digital Network Architecture (DNA) and Intelligent WAN (iWAN) is a 5-day course designed for network administrator and technical personnel involved in designing, implementing, operating and optimizing Wide Area Networks based on Ciscos Intelligent WAN (iWAN) principles, technologies and features. It enables learners to understand how iWAN solves many challenges related to todays branch office deployments and what the main components of iWAN are, including Transport Independent WAN connectivity (IPSec DMVPN and MPLS), Intelligent Path Control (with performance routing), Application Optimization (with AVC and WAAS) and Secure Connectivity (Strong encryption, firewalls, CWS). As part of iWAN deployment, participants will be faced with Application Policy Infrastructure Controller - Enterprise Module or APIC-EM, as a management platform and automation tool. At the beginning of the course, students will review Ciscos Digital Network Architecture or DNA as open and extensible, software-driven architecture that accelerates and simplifies enterprise network operations. DNA, as a programmable architecture frees IT staff from time consuming, repetitive network configurations tasks, so they can focus instead on innovation that positively transforms their business. Relationships between DNA and iWAN will be discussed in the course. Labs are built using the latest platform versions and related architecture components including ISR, ASR, IOS XE, WAVE, vWAAS, APIC-EM, AppNav, etc.

Skills Gained

- Cisco Digital Network Architecture (DNA) concepts, features, benefits, terminology and main component
- How the architecture of DNA innovates common administrative tasks on todays networks
- Todays branch office challenges and how IWAN helps to solve them
- Four main pillars and components of Cisco Intelligent WAN (IWAN)
- Transport Independent Design, the various connectivity options and the way they are configured
- Intelligent Path Control
- How performance routing is different from traditional destination based routing, routing protocol support and configuration tasks
- Importance of application visibility
- Use WAAS for application performance optimization and better WAN resource usage
- Main elements to guarantee IWAN secure connectivity
- How Ciscos APIC-EM helps administrator automate deployment, administration, and compliance checking for network policies end-to-end

Who Can Benefit

- IP network designers
- IP network administrators
- System engineers
- Individuals involved in IWAN and DNA deployment and administration

Prerequisites

- Knowledge level equivalent to Cisco CCNA Routing and Switching (CCNP Routing and Switching is preferred)
- Basic to intermediate knowledge on tunnels, VPNs, and DMVPN
- A good understanding of QoS basics
- Basic knowledge and experience with Cisco IOS, IOS XE, and CLI
- Basic knowledge on device and network virtualization

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