

Transforming to a Cisco Intent-Based Network

Course code: IBNTRN

The Transforming to a Cisco Intent-Based Network (IBNTRN) v1.0 course teaches you how the functionality of Cisco® SD-Access fits into Cisco Digital Network Architecture (Cisco DNA™). Through a combination of lessons and hands-on learning, you will practice operating, managing, and integrating Cisco DNA Center, programmable network infrastructure, and Cisco SD-Access fundamentals. You will learn how Cisco delivers intent-based networking across the campus, branch, WAN, and extended enterprise and ensures that your network is operating as intended.

Training format

As a standard, we implement a full-time course (onsite or ILT *) in the ALEF Training Center. Upon agreement, it is possible to implement the course at the client's premises. The course can also be implemented online (vILT **) via a video conferencing platform - Cisco Webex meetings. Instructor-led virtual training is a combination of the best of a traditional classroom course and interactive training without having to leave your own office or the comfort of your home. Convince yourself of top quality transmission, video calls and effective team collaboration. Explanations: ILT - Instructor Led-Training * - instructor-led training in the classroom. ** vILT (Virtual Instructor-Led Training) - this is a form of distance learning, where the instructor conducts training from the classroom through an online platform to which students connect from their offices or the comfort of their home.

Technical equipment

- Cisco Catalyst 9000 Switches
- Cisco Catalyst 9000 Wireless Access Points
- Cisco ISR routers
- Cisco Catalyst 9800 Wireless LAN Controllers
- Cisco DNA Center
- Cisco Identity Services Engine (ISE)

Required skills

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Understanding of network routing and switching principles equivalent to a CCNP Enterprise level
- Understanding of Cisco Unified Wireless Network technologies
- Understanding of Cisco ISE, 802.1x and Cisco TrustSec
- Understanding of segmentation technologies such as VLAN and VRFs
- Basic understanding of overlay technologies such as VXLAN
- Basic understanding of Locator ID Separation Protocol (LISP)

Teaching materials

Participants will receive access to an electronic version of the study materials.

Course outline

- Introducing Cisco DNA Architecture
- Cisco DNA Center Design
- Cisco DNA Center Inventory
- Cisco DNA Center Automation
- Explore Cisco DNA Center and Automating Network Changes
- Introducing Cisco Software-Defined Access
- Deploying Cisco Software-Defined Access
- Deploy Wired Fabric Networks with Cisco DNA Center
- Cisco SD-Access for Wireless

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- Cisco SD-Access Extension for IoT
- Deploy Brownfield and Fabric Wireless Network with Cisco DNA Center
- Migrating to Cisco SD-Access
- Cisco SD-Access Multicast
- Integrating Cisco DNA Center
- Deploy SD-Access Layer 2 Borders and Multicast and Integrate Cisco DNA Center with External Services or Applications
- Understanding Programmable Network Infrastructure " Operating and Managing Cisco DNA Infrastructure " Test Drive Cisco DNA Center APIs

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