

# DNASPA - ADMINISTERING DNA SPACES

Course Code: 821264

Cisco DNA Spaces helps resolve physical-space ‘blind spots’ in an organization. Through Cisco wireless infrastructure, organizations can gain insights into how people and things move throughout their physical spaces. Organizations can also drive operational efficiencies by monitoring the location, movement, and utilization of assets.

DNASPA is a 3-day course covering the DNA Spaces cloud-based solution including various use cases and security implications. You will perform hands-on lab configuration and operational components of the DNA Spaces solution. You will explore network on-boarding, configure locations and navigate Cisco DNA Spaces Apps. You will learn about Captive Portals and then configure one. You will learn the tools available to tailor your use case(s), including the use of the DNA Spaces API. Finally, you will configure a DNA Spaces solution for COVID-19 cases based on the components you have learned

This course is eligible for 18 Continuing Education Credits (ILT Modality).

## What You'll Learn

Upon completing this course, the learner will be able to meet these overall objectives:

- Explain the DNA Spaces solution and its benefits.
- Present multiple use cases based on industry vertical.
- Articulate the components and considerations for DNA spaces configuration in the context of COVID-19 ‘Back-to-Business’.
- Configure the DNA Spaces solution from cloud account creation through application configuration.
- Articulate the use of Captive portals and configure them.
- Describe Personas and Engagements and configure them.
- Identify the correct DNA Spaces App to be used for any given customer situation.
- Customize the DNA Spaces solution based on your customer’s requirements by:
  - Programming the Cisco DNA Spaces SDK API.
  - Leveraging hardware and software available in DNA Spaces Cisco Marketplace.
  - Leveraging Apps available in the DNA Spaces App Center.
  - Provide a complete DNA spaces solution for a phased COVID-19 ‘Back-to-Business’ scenario, including portal creation, real-time room density updates, notifications based on density changes and user profile

## Who Needs to Attend

The primary audience for this course is as follows:

- Network Engineers
- System Administrators
- Project Managers
- Channel Partner Engineers
- Solution Architects

## Prerequisites

The knowledge and skills that a learner should have before attending this course are as follows:

- Basic knowledge of networking concepts.
- Basic knowledge of Wi-Fi concepts.
- Basic knowledge of computer security.

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CLASSROOM LIVE

\$3,395 USD

3 Day

## Classroom Live Outline

### Section 1 – DNA Spaces Solutions Overview

- Introduction - What are 'DNA Spaces'
- Physical blind-spot resolution for increased behavior and analytics
- Benefits of DNA Spaces
- Simplification
- Cloud-based SaaS, scalable
- Lower TCO
- Standardized Components
- 24x7 Support
- Low-Touch
- Architecture Overview
- Cloud Software as a Service (SaaS)
- Hybrid - Cloud + On-Premise
- Deployment Models
- On-Prem to Cloud Connectors
- Supported Wireless Devices
- Cisco Hardware and Software
- Meraki Hardware and Software

### Section 2 – Use Cases

- Example Use Cases by Vertical
- Retail
- Healthcare
- Hospitality
- Enterprise
- Education
- Workspaces
- Stadiums
- "Back-to-Business" - Observations, recommendations and applications specific to safe COVID-19 reopening

- Customer Facing – Retail, Hospitality, Venues
- Campus Based – Workspaces, Universities, Schools
- Operations Led – Healthcare, Manufacturing

### **Section 3 - Licensing**

- Procurement
- Terms

### **Section 4 – Customer Data Privacy – How Data is protected when using DNA Spaces Cloud**

- Data at Rest
- Data in Transit
- Data Security Law Compliance

### **Section 5 – Configuration**

- Getting Started with DNA Spaces
- Account Creation – receive invitation email, setup p/w, log in to dashboard
- Network Onboarding and Connecting to DNA Spaces
- Catalyst Connectors – Spaces, CMX, Cat 98K, WLC Direct
- Meraki Connectors – Login, API Key
- Network Hierarchy Configuration
- Manual
- Cisco Prime Maps
- Dashboard Apps Setup
- Captive Portals and Captive Portal Reports

### **Section 6 – Operations – DNA Spaces App Review and Analysis**

- Behavioral Monitoring Apps
- Real-Time Analytics Apps
- Captive Portals and Captive Portal Reports
- Location Personas and Engagements

### **Section 7 - Extending DNA Spaces – Enterprise Integration, Monitoring, and SDK**

- DNA Spaces Marketplace – devices and software tailored to vertical and use cases
- DNA Spaces App Center – industry-specific apps leveraging location data via Firehose API
- Spaces SDK – Integrate Advanced Location Accuracy into enterprise’s customer apps
- DNA Spaces Advanced Gateway – enable management of BLE beacons and asset tags.

## **Section 8 – “See Act Extend” – Putting it All together.**

- You are a Network Manager of an international organization where each site is comprised of a campus. You are tasked with getting the workforce back to the campus in a controlled, secure manner using the DNA Spaces solution and the applications presented in the course.
- You are presented with the following information:
- Building areas – lobby area, conference rooms, workspace areas
- Density limits per area
- User profiles – employees, guests
- You must design a solution that:
- Monitors densities in all building areas
- Provides real-time information on density information per building
- Provides each employee entering the building information on the state of the building and recommendations if they are required to move to another building
- Real-time notifications to guests and employees if density limits have been reached in their area

## Classroom Live Labs

### **Lab 1:** Configure DNA Spaces Connector

- Step 1: Login to DNA Spaces Account
- Step 2: Configure Spaces connector
- Step 3: View the token
- Step 4: Login to On-Prem Connector and verify settings
- Step 5: Configure Token
- Step 6: View Connector Status On-Prem
- Step 7: View Connector Status in Cloud Account

### **Lab 2:** Add Wireless LAN Controllers

- Step 1: Add Controllers
- Step 2: Check WLC Connectivity on the Connector
- Step 3: Check status on the WLC

### **Lab 3:** Maps and Location Hierarchy

- Step 1: Configure or Export Maps from Cisco Prime
- Step 2: Upload Maps in DNA Spaces
- Step 3: View the Location Hierarchy
- Step 4: Add META Data about the site
- Step 5: Enter Location Details
- Step 6: Add Zone
- Step 7: Select Access Points for Zone

- Step 8: View the updated Location Hierarchy

#### **Lab 4:** Captive Portal Setup

- Step 1: Captive Portal Setup
- Step 2: Select Authentication
- Step 3: Select Email
- Step 3: Enable Data Capture
- Step 4: Review User Agreements
- Step 5: Portal Editor
- Step 6: Verify Portal Created
- Step 7: Configure SSID
- Step 8: Captive Portal Rule Creation
- Step 9: Provide Rules
- Step 10: Portal Status
- Step 11: Setting up WLAN on the WLC
- Step 12: Connect your gadgets

#### **Lab 5:** Engagement Rules

- Step 1: Setting up Engagement Rules
- Step 2: View Visitor Engagement Metrics

#### **Lab 6:** Location Analytics

- Step 1: Navigate to Location Analytics
- Step 2: View the different Analytics
- Step 3: Apply Filters

#### **Lab 7:** REST API Query

- Step 1: Go to Detect & Locate App
- Step 2: Navigate to Notifications
- Step 3: Get the API Keys
- Step 4: Get Postman App
- Step 5: Open the application and create a new request
- Step 6: Create Request
- Step 7: Prepare the query
- Step 8: Submit/Send the query

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PRIVATE GROUP TRAINING

3 Day

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