



Cisco DNA Center with Assurance Mentored Implementation Service

Delivery Type: Mentored Installation

Why Skyline?

Skyline Advanced Technology Services (ATS) offers Professional Services for a variety of Cisco-centric solutions. From inception to realization, our senior staff of engineers is available for any size project or duration for the following services:

- Consulting Services
- Installation Services
- Network Design
- Staff Augmentation

For an in-depth discussion regarding your technical and staffing needs, our team is with you every step of the way.

Contact your Skyline-ATS representative today.

**Are you deploying a DNA Center
with Assurance solution?**

Contact your Skyline Account Manager today
for more information on how we can help.

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Description

Cisco DNA Center is the foundational controller and analytics platform at the heart of Cisco's intent-based network. Add Assurance and you add advanced assurance and analytics capabilities using deep insights from devices, streaming telemetry, and rich context. This delivers an uncompromised experience while proactively monitoring, troubleshooting, and optimizing your wired and wireless network.

This Cisco DNA Center with Assurance Mentored Implementation Service is a unique engineering enablement offering designed to assist Cisco partners/customers in quickly deploying the Cisco DNA Center with Assurance solution. This offering provides mentoring from a DNA Solutions specialist throughout the entire process.

The engagement consists of a Design Workshop and Network Readiness Assessment followed by engineering support during the mentored implementation. During the design phase, a Skyline-ATS DNA Solutions Architect will work with the partner/customer to complete a High Level Design (HLD), assess the readiness of the network, and provide recommendations to make the Network Ready for Use (NRFU). The mentored implementation is focused around implementation and deployment of DNA Center that will provide the ability to simplify your network management and evolve to an intent-based network. The mentored install will cover Cisco DNA Center with Assurance, and wired/wireless network platforms.

The engagement is expected to take between one to three weeks depending on the services required. Each engagement will be scoped and a detailed Statement of Work (SOW) will be created.



Overall Objectives

1. Collaborate with key personnel to design and determine functionality goals.
2. Interactive training and design sessions geared to educate the partner/customer and finalize the design.
3. Provide interactive training to partner/customer personnel throughout the selling, designing, and deployment process focusing on those areas the partner/customer feels they need assistance with.

Partner/Customer Responsibilities

- Participate in a High Level Design Workshop via WebEx pre-installation.
- Provide proper rack and other supporting infrastructure, such as power, HVAC etc.
- System must be racked and powered prior to Skyline arriving onsite.
- Provide an application testing plan.
- Partner/customer must provide adequate resources to perform the implementation with Skyline providing Interactive training and guidance.
- Partner/customer will assist with all testing scenarios.

Statement of Work (SOW)

After the Skyline-ATS ISE Engineer thoroughly qualifies the partner/customers SDA requirements, a detailed Statement of Work (SOW) will be submitted for partner/customer approval prior to the implementation engagement.

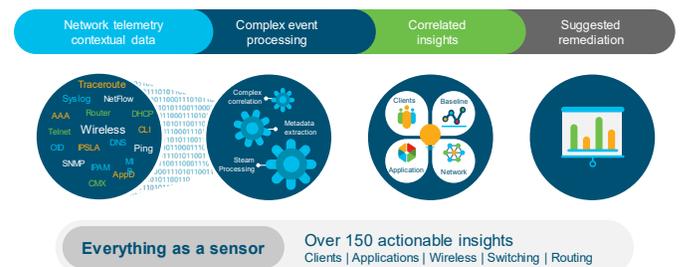
Instructor Led Training (ILT)

Instructor Led Training is also available for those partners/customers that want to increase their knowledge of Cisco Identity Services Engine technology beyond what is provided in this mentored implementation.

Cisco DNA Center with Assurance Mentored Implementation Service

This solution provides the ability to drastically simplify operations and scaling while providing complete network visibility that delivers proactive operations and predicts performance. This is achieved via machine learning automatically collecting device, application, and user data. Along with the ability to deliver new services quickly, DNA Center automates day-to-day tasks such as configuration, provisioning, and troubleshooting. This significantly reduces the time it takes to adapt the network, improve issue resolution, and reduce the impact of security breaches giving the user enhanced visibility, simpler operations and a lower cost.

Cisco DNA Assurance



Cisco DNA-C High-Level Design (HLD) Workshop

Skyline will interview the partner/customer engineers in order to complete a HLD document. Design discussions will include but are not limited to:

1. Business objectives
2. Timelines
3. Perform a design session with partner/customer to determine existing environment and “how to” implement DNA Center into a green-field or brown-field environment.
4. Gather or document network diagrams, floor layouts, and site information.
5. Endpoint grouping information (e.g., Corporation, Employee, Contractor Application Servers, etc.).



6. Existing network services information (DHCP, DNS, AAA/ISE).
7. Existing network device information (to be used in the network readiness assessment).
8. Deployment details
 - a. Operations
 - b. Unknowns
 - c. High availability
 - d. Migration
 - e. Application node details
 - f. Certificate options
9. Build of Materials (BOM)
10. Performance specifications

Cisco DNA Center with Assurance Implementation Services (Wired and/or Wireless)

Review High Level Design (HLD)

1. Review the high level design and proposed policies.
2. Discuss with partner/customer and make recommendations for changes if applicable.

Network Devices Update/Configuration¹

1. This will be based on the results of the network readiness assessment.
2. Install new network device(s) in support of DNA Center (if needed).
3. Update IOS (if needed).
4. Create network device configuration template (if needed).
5. Update network device configuration (e.g., SSH, Netconf, SNMP, etc.).

DNA Center - Installation

1. Rack and stack DNA Center appliance.
2. Setup and configure basic DNA bootstrapping.
3. Verify DNA Center basic connectivity.
4. Install upgrades & updates DNA Center services-including assurance.
5. Verify upgrades & updates DNA Center services.

DNA Center - Inventory Configuration^{1,2}

1. Perform network auto-discovery to add networks devices to the to the DNA Center inventory.
2. DNA Center device inventory.
3. Verify auto-discovery results.
4. Manually add devices to inventory without auto-discovery (optional).
5. Verify devices are added to inventory.

DNA Center - Design - Network Hierarchy Configuration²

1. Add site locations on the network.
2. Add global and/or location servers (e.g., DHCP server(s) and DNS servers(s)).
3. Add global and/or location IP Address pool(s).
4. Verify DNA Center - design configuration.

DNA Center - Design - Software Image Management Configuration^{1,2}

1. Review SWIM image repository listing.
2. Create golden software image & role (optional).
3. Verify golden software image creation (optional).

DNA Center - Design - Network Profiles Configuration

1. Create and deploy two (2) Network Profiles:
 - a. Profile for legacy devices.
 - b. Maximum profile for assurance.
2. Verify DNA Center - Design configuration.

DNA Center - Provision Configuration

1. Add devices to newly created sites/locations.
2. Verify DNA Center - provision configuration.



DNA Center - Assurance Collection

1. Perform data collection - approximately one (1) to two (2) weeks.
2. Assurance services will collect network information:
 - a. Image versioning data
 - b. Client health data
 - c. Network health data

DNA Center - Analysis Reporting

1. Analyze data collection findings.
2. Review collection findings with partner/customer.

First Day Service and Support

1. Documentation hand-off.
2. Remediation of partner/customer issues.

Notes:

- 1 - Specifics will be determined by the Network Readiness Assessment.
- 2 - Specifics will be determined by the SDA Design Workshop.