

## CISCO ACI MENTORED INSTALL

### Service Overview:

At Netnology, we specialize in Cisco's Application Centric Infrastructure (Cisco ACI™) enablement and implementation services to expedite the adoption of Cisco ACI solution. As part of this Mentored Install service offer, our subject matter experts (SME) partner with your team to ensure a smooth deployment of the ACI solution in your environment and provide knowledge transfer to equip your staff with the necessary skills to configure and manage the ACI environment.

### Cisco ACI Solution:

Cisco ACI is an innovative, highly secure architecture built to deliver centralized, application-based policy automation and management. Cisco ACI effectively turns the traditional IT model upside down. Network complexity is eliminated, so it no longer dictates application deployment or operation. Instead, application needs dictate IT deployment and operation. Because Cisco ACI decouples network identity from the physical infrastructure and then automates policy to meet application needs, it enables IT to be responsive to changing business needs.

- Accelerate time to market by gaining an understanding of the ways that Cisco ACI can address your unique use cases, align IT goals with business goals, and simplify operational processes required for success.
- Reduce risks by identifying and addressing your technical and operational readiness to effectively deploy a Cisco ACI solution to support your target use cases.
- Protect capital and operational investments by developing a simple transition path from existing environments to architecture based on Cisco ACI.
- Optimize performance and reduce service interruption by preempting and proactively resolving problems efficiently to help you maintain the performance, reliability, and ROI of your Cisco ACI deployment.

### Service Benefits:

Netnology has a team of world class engineers who specialize in Cisco ACI solution and are passionate about customer success. Netnology will partner with you to provide:

- Step-by-step guidance from an SME on ACI solution deployment
- Configuration and documentation of ACI solution
- Knowledge transfer to ensure customer is ready to configure and manage the environment

## Scope of Services:

As part of the 10-day Mentored Install engagement, Netnology will help with the following:

- Solution Overview
- Fabric Deployment (Pick One)
  - Single Pod (up to 3 APICs, 2 Spine Switches, 10 Leaf Switches)
  - Multi-Pod (up to 2 Pods, 5 APICs, 4 Spine Switches, 20 Leaf Switches, 4 IPNs)
  - Multi-Site (up to 2 Sites, 6 APICs, 4 Spine Switches, 20 Leaf Switches, 4 IPNs, 3 Multi-Site Controllers)
- Network Centric Deployment
- Fabric Access Policy Creation
  - Interface Profiles and Policies (up to 10)
  - Switch Profiles (up to 20)
  - Attachable Access Entity Profiles (AEP) (up to 10)
  - Physical and External Routed Domains (up to 10)
  - VLAN Pools (up to 20)
- Firmware Policies
- Tenant Creation (up to 5)
- VRF Creation (up to 5)
- Bridge Domain (BD) Creation (up to 20)
- Application Profile (AP) Creation (up to 5)
- End Point Groups (EPG) Creation (up to 50)
- Filters, Subjects, Contracts Creation (up to 10)
- VMM Integration (up to 2)
- Bare Metal/UCS Server Connection (up to 5)
- Static Port Bindings of the EPG (L2 Extension)
- Fabric and Pod Polices including Route Reflectors, SNMP, SYSLOG, NTP Policies
- Dynamic Routing or Static Routes
- L3 Out Creation (up to 5)
- Snapshot, Rollback, Configuration Backups
- Troubleshooting - Health Scores & Faults
- Migrate Physical or Virtual Server to ACI (up to 1)
- Knowledge Transfer and Walkthrough

## Target Audience:

This service is designed for Network Architects, Network Engineers and Administrators configuring, deploying and managing the Cisco ACI solution.

## Prerequisites:

Customer needs to ensure that all equipment and devices are racked & stacked, cabled and powered-up prior to the kick-off. Customer also needs to acquire the necessary software licenses for the deployment of ACI solution.

## Service Deliverables:

No	Deliverable	Service Details
1.	Project Kickoff	<ul style="list-style-type: none"> <li>• Project Overview</li> <li>• Solution Overview</li> </ul>
2.	Controller & Fabric Setup	<ul style="list-style-type: none"> <li>• Install and setup APICs</li> <li>• Discover and register Spine and Leaf Switches</li> <li>• Install and setup IPNs (For Multi-Pod/Multi-Site)</li> <li>• Install and setup Multi-Site Controllers (for Multi-Site)</li> </ul>
3.	Fabric Access Policies	<ul style="list-style-type: none"> <li>• Create Fabric Access Policies               <ul style="list-style-type: none"> <li>○ Interface Profiles and Policies</li> <li>○ Switch Profiles</li> <li>○ Attachable Access Entity Profiles (AEP)</li> <li>○ Physical and External Routed Domains</li> <li>○ VLAN Pools</li> </ul> </li> </ul>
4.	Firmware Policies	<ul style="list-style-type: none"> <li>• Create Maintenance Groups</li> <li>• Create Firmware Groups</li> </ul>
5.	Tenant Creation	<ul style="list-style-type: none"> <li>• Create Tenant               <ul style="list-style-type: none"> <li>○ VRF</li> <li>○ BD</li> <li>○ AP</li> <li>○ EPG</li> <li>○ Filter, Subject, Contract</li> </ul> </li> </ul>
6.	VMM Integration	<ul style="list-style-type: none"> <li>• ACI Integration with VMware</li> </ul>
7.	Connections to ACI	<ul style="list-style-type: none"> <li>• Connect Bare Metal/UCS Servers</li> <li>• Assign Static Port Binding</li> </ul>
8.	Routing	<ul style="list-style-type: none"> <li>• Dynamic Routing using OSPF</li> <li>• Static Routes</li> </ul>
9.	L3 Out	<ul style="list-style-type: none"> <li>• Create L3 Out for External Connectivity</li> </ul>
10.	Configuration Backup	<ul style="list-style-type: none"> <li>• Schedule/Create Snapshots</li> <li>• Test Rollbacks from Snapshots</li> <li>• Configure External Backups</li> </ul>
11.	Migration	<ul style="list-style-type: none"> <li>• Migrate Physical or Virtual Server to ACI</li> </ul>
12.	Knowledge Transfer	<ul style="list-style-type: none"> <li>• Explain to the customer how to configure and manage the solution in their environment</li> <li>• A walkthrough of the customer's environment</li> </ul>