

## CISCO ISE MENTORED INSTALL

### Service Overview:

At Netnology, we specialize in Cisco Identity Services Engine (ISE) implementation services as part of the Cisco TrustSec security solution to help enable your compliance needs, enhance security and streamline operations. As part of the Mentored Install service offer, our subject matter experts (SME) partner with your team to ensure a smooth deployment of the ISE solution and provide knowledge transfer to equip your staff with the necessary skills to configure and manage the ISE environment.

### Cisco ISE Solution:

Cisco ISE is designed to help organizations to gain enterprise wide visibility into their network; allowing authentication, authorization, accounting, posture profiling gathering real-time contextual information from network, users, and devices; and making proactive governance decisions by enforcing policy across the network infrastructure. Cisco ISE performs the following functions:

- Provides context-aware identity-based network access
- Manages various deployment scenarios across enterprise infrastructure, supporting 802.1X wired, wireless, and virtual private networks (VPN)
- Provides basic authentication and authorization
- Enforces endpoint compliance by providing comprehensive client provisioning measures and accessing device posture for all endpoints that access the network, including 802.1X environments
- Provides comprehensive guest access management
- Provides support for discovery, profiling, policy-based placement and monitoring of endpoint devices on the network
- Enables consistent policy in centralized and distributed deployments that allow services to be delivered where they are needed
- Employs advanced enforcement capabilities including security group access (SGA) through the use of security group tags (SGTs) and security group access control lists (SGACLs)

### Service Benefits:

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

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

### Scope of Services:

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

- Solution overview
- Cisco ISE installation and setup (Virtual Machine)
- Distributed deployment of ISE (9 Nodes)
- Integration with Wireless LAN Controller (up 2)
- Integration with Cisco switch (or any vendor supported switch) (4 Switch Stack)
- Knowledge Transfer

### Target Audience:

This service is designed for Security Architects, Network Security Engineers, Network Architects, Network Engineers and Administrators; configuring, deploying and managing the ISE environment.

### Pre-requisites:

Customer needs to ensure that Virtual Machines are provisioned for ISE based on the specifications provided prior to the kick-off. Also, customer needs to ensure they have identified the necessary switches and Wireless LAN Controller going to be used in the Mentored Install. Customer needs to acquire the necessary software licenses and download the latest version of Cisco ISE ISO from Cisco site.

### Service Deliverables:

| No | Deliverable                       | Service Details  | ISE | Advanced Services <sup>(1)</sup> |
|----|-----------------------------------|--|-----|----------------------------------|
| 1. | Project Kickoff                   | <ul style="list-style-type: none"> <li>• Project Overview</li> <li>• Solution Overview</li> </ul>  | ✓   | ✗                                |
| 2. | ISE Architecture Design           | <ul style="list-style-type: none"> <li>• Work with Customer to come up with suitable architecture for their ISE deployment</li> </ul>  | ✓   | ✗                                |
| 3. | Identity ISE features             | <ul style="list-style-type: none"> <li>• Identify ISE features to be rolled out</li> </ul>   | ✓   | ✗                                |
| 4. | ISE Node Setup                    | <ul style="list-style-type: none"> <li>• Install and setup ISE nodes</li> <li>• Licensing</li> </ul>   | ✓   | ✗                                |
| 5. | Develop ISE Policies              | <ul style="list-style-type: none"> <li>• Develop Authentication Policy to meet customer needs</li> <li>• Develop Authorization Policy to meet customer needs</li> </ul>  | ✓   | ✗                                |
| 6. | Integrate and Configure           | <ul style="list-style-type: none"> <li>• Integrate switch in ISE</li> <li>• Integrate Wireless LAN Controller in ISE</li> <li>• Configure switch</li> <li>• Configure Wireless LAN Controller</li> <li>• Integrate Active Directory</li> </ul> | ✓   | ✗                                |
| 7. | ISE Guest Services <sup>(1)</sup> | <ul style="list-style-type: none"> <li>• Setup Cisco ISE Guest portal for Wireless Guest Users.</li> </ul>   | ✗   | ✓                                |

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|-----|---|---|---|---|
|     |   | <ul style="list-style-type: none"> <li>Setup ISE Sponsor portal for creating and managing Guest Accounts</li> </ul>   |   |   |
| 8.  | TrustSec Enforcement <sup>(1)</sup>     | <ul style="list-style-type: none"> <li>Setting-up optional enforcement for North South Micro segmentation use cases i.e. User accessing resources in Data Center.</li> <li>Enabling micro-segmentation on supported Cisco network access devices <a href="https://www.cisco.com/c/dam/en/us/solutions/collateral/borderless-networks/trustsec/trustsec_platform_support.pdf">https://www.cisco.com/c/dam/en/us/solutions/collateral/borderless-networks/trustsec/trustsec_platform_support.pdf</a></li> </ul> <p>This will ONLY include devices which are capable of in-line SGT enforcement.</p> <p>This will not include SXP (security exchange protocols), pxGrid and 3rd party NAD's will be out of scope for this engagement</p> | ✗ | ✓ |
| 9.  | Advanced: ISE compliance <sup>(1)</sup> | <p>Advanced: Cisco ISE Compliance</p> <p>Enabling Cisco ISE posture services for corporate machines running windows and mac os, this will cover configuring compliant and non-compliant states by using VLAN's or dACL's.</p> <p>Setting-up AnyConnect as Posture agent</p> <p>Checking for firewall enable checks and USB detection.</p> <p>Providing application visibility for windows and mac os machines.</p>  | ✗ | ✓ |
| 10. | Test Customer Endpoints/users           | <ul style="list-style-type: none"> <li>Test customer's computers</li> <li>Test IP phones</li> <li>Test printers</li> <li>Test other IoT devices on customer's network</li> <li>Test various access for users</li> </ul>   | ✓ | ✗ |
| 11. | Knowledge Transfer                      | <ul style="list-style-type: none"> <li>Explain to the customer how to configure and manage the solution in the lab environment</li> <li>A walkthrough of the customer's environment</li> </ul>  | ✓ | ✓ |

(1) **Note: Additional Services is an add-on service, not included in the ISE Mentored Install scope. Additional charges will apply for deploying Advanced Services in addition to ISE Mentored Install engagement.**

(2) **Note: Integration with any supported security solution (McAfee, Qualys, etc.) is not included in the ISE Mentored Install scope. Additional Charges will apply for integration in addition to ISE Mentored Install engagement.**