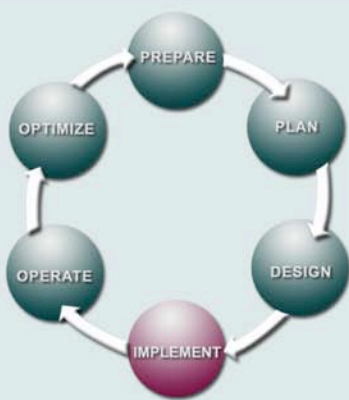


Cisco Security Implementation Services

Effectively Integrating In-Depth Security into the Network Infrastructure

THE CISCO LIFECYCLE SERVICES APPROACH



The unique Cisco Lifecycle approach to services defines the requisite activities at each phase of the network lifecycle to help ensure service excellence. With a collaborative delivery methodology that joins the forces of Cisco, our skilled network of partners, and our customers, we achieve the best results.

Network Lifecycle Phases

- **Prepare**—Develop a business case for a technology investment
- **Plan**—Assess readiness to support proposed solution
- **Design**—Create a detailed design to address business and technical requirements
- **Implement**—Deploy new technology
- **Operate**—Maintain network health through day-to-day operations
- **Optimize**—Achieve operational excellence through ongoing improvements

SERVICE OVERVIEW

Identifying the security solutions your organization needs to address constantly evolving security threats is only the first step in protecting your business. The solutions must also be carefully integrated into your network, system and application environment. Changing your network security infrastructure without a sound plan can lead to deployment delays, high integration costs, and less-than-optimal solution implementation.

The Cisco® Security Implementation services, designed for large enterprises, are a part of the implement phase of the Cisco Lifecycle Services approach. Cisco Systems® consultants can support your organization throughout the deployment of new security solutions. Bringing sound security design principles and network integration expertise, Cisco consultants can help your organization meet aggressive deployment schedules, decrease costly disruptions to your existing network infrastructure, and accelerate the successful implementation of security solutions needed to protect your critical business assets.

Cisco Security Implementation services include the following two components:

- **Security Implementation Plan Review** – Analyzes your organization's implementation plan for deploying a new security solution to help ensure that it meets all your business and technical requirements
- **Security Implementation Engineering** – Provides assistance throughout all aspects of deploying a new security solution

SECURITY IMPLEMENTATION PLAN REVIEW

Sound Planning to Successfully Deploy Security Solutions

For any deployment of a new security solution to be successful, your organization must begin with a sound implementation plan – one that incorporates business objectives as well as technology requirements. A Security Implementation Plan Review helps your organization develop more detailed, step-by-step plans for deploying new security solutions.

Beginning with a thorough understanding of your objectives and scope of your deployment project, Cisco security integration experts review the implementation plan to analyze the technical requirements, procedures, and resources needed to deploy, integrate, and manage your security solution (Table 1). This review highlights potential problems that might arise during the implementation and makes recommendations for hardware and software changes to ease network staging, migration, and integration. Cisco experts also assist with testing and installation plans and work with staff engineers to validate test results helping to ensure that objectives are met.

Table 1. Security Implementation Plan Review Activities, Methodology, and Deliverable

Activities	Methodology and Deliverable
<ul style="list-style-type: none">● Develop an understanding of the objectives, scope, and constraints of the deployment● Analyze and understand the potential effects of integrating the new solution with existing IT infrastructure, software operations, and security management procedures● Review and analyze implementation plans, including the technical and procedural requirements for solution deployment, integration, and management● Review implementation action plans, including tasks, milestones, resources, and schedule● Develop requirements for security architecture and topology, network devices, and hardware and software installation and configuration● Analyze the network staging, test, and installation plans, including topology, configurations, test scripts, and acceptance criteria● Analyze and recommend hardware and software changes	<div>Methodology<ul style="list-style-type: none">● Conduct a collaborative planning session to understand requirements; identify interdependencies; and define project scope, roles, and responsibilities● Review and make recommendations about implementation strategy and tasks.● Develop requirements for the security architecture, network staging, test, and installation plans● Provide recommendations for the successful implementation of the solution</div> <div>Deliverable<ul style="list-style-type: none">● A Security Implementation Plan that provides recommendations for the successful implementation and management of the security solution, including security architecture, hardware and software installation, device configuration, and testing</div>

Benefits

With a Security Implementation Plan Review, your organization can:

- More effectively mitigate network security threats by using a sound implementation methodology to deploy a new security solution
- Better defend your network by planning the most strategic, effective placement and configuration of new security solutions
- Strengthen your network staff and their ability to meet deployment schedules with integration expertise from Cisco network security engineers
- Enhance solution performance, resiliency, and availability by using the correct set of hardware, software releases, features, and functionality
- Decrease the need for expensive reworking of the network infrastructure to support new security solutions

SECURITY IMPLEMENTATION ENGINEERING

Providing Expert Assistance Deploying Security Solutions

To be fully effective, security solutions must be not only strategically planned but also carefully deployed, configured, tuned, and integrated into your network infrastructure. With Security Implementation Engineering, your organization can make use of Cisco network security implementation expertise throughout all aspects of deploying a security solution.

Applying extensive practical experience, knowledge of the latest risk mitigation techniques, and specialized tools and methodologies, Cisco security experts can help your organization deploy effective network security defenses. By helping to rapidly deploy security solutions that protect against a broad class of attacks, Security Implementation Engineering assists your organization in reducing the operational costs of identifying and preventing malicious behavior by removing potential known and unknown security risks that threaten business operations.

During the critical planning stage, Cisco network security experts help you develop a detailed deployment plan, including strategy, objectives, and criteria for measuring success. The service also includes detailed plans for the deployment, including installation, configuration, integration, and management. After the strategy and plans are completed, Cisco engineers work with your organization's staff to install, configure, test, and tune the solution to help ensure a smooth integration into your production environment.

A Detailed Process

After your organization has decided to deploy a new security solution, expert Cisco security consultants can work with your internal network team to plan, design, and deploy the solution. (See Table 2.) This process incorporates:

- **Requirements analysis** – Analyzing and documenting the business, technical, and operational requirements for your implementation
- **Readiness assessment** – Performing a detailed assessment of your network's readiness to deploy the solution
- **Design development** – Working closely with your internal team to develop a detailed design specification for implementing the solution
- **Implementation planning and staging** – Performing customized implementation planning and staging of the solution, including installation in a controlled environment and custom policy implementation
- **Product deployment and system tuning** – Assisting your organization in deploying the new solution in the full production environment with customized policies and optimization of your solution
- **Deployment documentation** – Documenting all policy rules and deployment procedures
- **Summary presentation** – Executive presentation of the implementation methodology and production deployment

Table 2. Security Implementation Engineering Activities, Methodology, and Deliverables

Activities	Methodology and Deliverables
<ul style="list-style-type: none"> • Analyze the objectives, scope, requirements, resources, and constraints of the security deployment project • Assess your network's readiness to deploy the solution • Jointly define the architectural, topological, and functional requirements for the solution • Develop a detailed design of the system, including network diagrams and sample software configurations for protocols, policies, and features • Develop the implementation plan detailing the technical and procedural requirements for solution deployment, integration, and management • Develop the solution testing, installation, configuration, integration, management, and maintenance plans • Develop the solution deployment action plan, including tasks, milestones, and schedule • Develop the network staging plan, including physical and logical topology, configurations, test scripts, and acceptance criteria • Provide custom installation, configuration, testing, tuning, and integration of the solution • Provide onsite support during integration with the production network • Provide practical education with staff about the operation and management of the solution 	<p>Methodology</p> <ul style="list-style-type: none"> • Conduct a kick-off meeting to identify the business objectives for the project, introduce the implementation team, and review major implementation tasks and milestones • Conduct an implementation workshop to gather business, technical, and operational requirements • Develop a security solution design specification • Develop a security implementation deployment plan • Assist staff engineers in performing network site surveys • Travel on site to perform custom installation, configuration, tuning, and integration of the security solution • Provide onsite support during integration with the production network • Document solution policies, tuning and operational procedures • Deliver maintenance and support documentation • Team with your engineers to perform post-implementation verification testing • Present an executive summary of the solution implementation methodology and production deployment <p>Deliverables</p> <ul style="list-style-type: none"> • A Security Solution Design Specification detailing the solution design topology, feature configuration, and policy implementation • A Security Rules Reference Guide that details the customized installation, configuration, and tuning activities and outlines recommendations for the ongoing operation and management of the solution • An optimized security solution installation in a production environment

Benefits

With Security Implementation Engineering, your organization can:

- More effectively mitigate network security threats by using a sound implementation methodology to deploy a new solution
- Apply expert assistance to plan the most strategic, effective placement and configuration for the solution
- Accelerate the successful implementation of a solution through installation, configuration, policy tuning, and testing in a controlled environment
- Enhance solution performance, resiliency, and availability by using the correct set of hardware, software releases, features, and functionality
- More rapidly and effectively secure your business environment by sharing the deployment workload
- Improve staff proficiency of managing and operating the solution through continuous knowledge exchange with Cisco experts
- Reduce operating costs and total cost of ownership of your network by helping to ensure consistent deployment of security policies

WHY CISCO

Your organization might have the most effective security solutions in the world, but if they are not properly integrated into the network infrastructure, they cannot protect your business. With a sound implementation plan and expert Cisco deployment and integration assistance, your organization can more quickly secure the network environment, avoid costly delays and service disruptions, and increase the use of internal staff resources.

AVAILABILITY AND ORDERING

Cisco Security Implementation services are available through Cisco and Cisco partners globally. Details may vary by region.

FOR MORE INFORMATION

For more information about Cisco Security Implementation services or the Cisco Lifecycle Services approach, contact your Cisco representative.

**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

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