Cisco Wide Area Application Services Planning and Design Service

Consolidate, optimize, and improve application responsiveness.

Accelerate deployment of Cisco Wide Area Application Services (WAAS) and improve application responsiveness across your wide area network with Cisco Wide Area Application Services Planning and Design Service.

Businesses continually face the challenge of consolidating remote offices while keeping the pulse of the current state infrastructure, tracking the optimization of Wide Area Network (WAN) use, and improving application responsiveness. All are critical to remain competitive. Migrating branch-office servers and data-protection functions to the data center using WAAS is a manageable and cost effective approach, however it requires careful integration and migration planning.

Plan and Deploy an Efficient WAAS Solution

The Cisco® WAAS solution features WAN optimization and application-specific acceleration to help enterprises analyze the current state of their WAAS infrastructure, consolidate remote-office infrastructure, optimize WAN use, and improve application responsiveness. Migrating branch-office servers and data-protection functions to the data center using WAAS requires careful integration and migration planning. The results of a successful WAAS deployment are reduced costs and improved manageability.

The Cisco WAAS Planning and Design Service is designed to help you in two ways: identify gaps in your current WAAS infrastructure and accelerate your deployment of the Cisco WAAS solution. This service helps you reduce risk and get into production quickly while delivering the application performance and reliability that you require to stay competitive.

The Cisco WAAS Planning and Design Service is a project-based service that helps you speed the identification and resolution of planning, design, and implementation issues by addressing your requirements for migrating branch-office servers and data-protection functions to your data center. Service options include remote-office assessment, detailed design development and reviews, and WAAS application analysis. You can select the activities and deliverables you need to address your remote office requirements.

The activities available with the Cisco WAAS Planning and Design Service are separated

into three areas:

- Plan
  - WAAS network assessment
  - WAAS application analysis
  - Implementation and migration plan
- Design
  - High-level design review
  - Low-level design review
- Learn
  - Remote knowledge transfer sessions

Table 2. Cisco WAAS Planning and Design Service Design Activities, Deliverables, and Benefits

Plan

Cisco and Cisco Certified Partners can help you plan effectively, helping to mitigate the risk involved with designing a WAAS infrastructure. Our data center experts can evaluate your network's strengths and limitations, services, and solution requirements and validate that planned changes are in alignment with your business goals. We can examine critical readiness factors such as infrastructure design, environmental issues, and security and make recommendations to help you proactively resolve gaps. The activities and deliverables scoped for the plan phase are outlined in Table 1.

Table 1. Cisco WAAS Planning and Design Service Plan Activities, Deliverables, and Benefits

Activities and Deliverables	Benefits
WAAS network assessment • Executive summary containing an overview, definitions, and assessment scope as well as collected data and general findings • Overview of the current WAAS infrastructure, including the branch office environment and a WAAS design • An analysis of the current environment, including change management and issue handling, security, challenges, and issues • Integrates technical requirements and design goals into your Cisco WAAS infrastructure design with the leadership of Cisco experts using proven designs • Operating environment findings and suggestions applicable to management and monitoring, security, and change management	• Provides a detailed project plan that can be used for future WAAS deployments • Collaborative approach provides best-in-class solution • Accelerates the adoption of Cisco WAAS technology • Minimized expensive, time-consuming, and intrusive redesign by facilitating proper design early in the lifecycle • Provides a prioritized list of recommendations based on identified and documented Cisco leading practices

Activities and Deliverables	Benefits
WAAS application analysis · Includes a customer-specific application and WAAS optimization policy map (including most nonstandard TCP/IP ports) · Provides a list of chatty applications (high protocol overhead) that should be considered for QoS engineering · WAAS capacity planning recommendations · WAN bandwidth utilization by remote sites · Identification of top talker applications and destination servers along with average response time (application server to edge of the data center)	· Provides a list of applications to help your WAAS infrastructure run better · Improves capacity planning with the knowledge of volume of data exchanged and projected growth · Helps determine the correct WAAS device models and number to include in design
Implementation and migration plan Typically includes the following: · Review Cisco WAAS deployment plan and strategy to help minimize deployment time and service disruption · Analyze and integrate Cisco WAAS deployment plan into the existing infrastructure · Review installation and commissioning test plans · Analyze any changes affecting operations · Provide an implementation plan review report · Step-by-step procedures required for successful migration from Cisco Wide Area File Services (WAFS) software or Cisco Application and Content Networking System (ACNS) software to Cisco WAAS · Hardware resource assessments and recommendations	· Accelerates successful Cisco WAAS implementation by taking advantage of Cisco leading practices that help you avoid potential problems · Improves your ability to meet an aggressive deployment schedule · Proactively identifies potential risks to help minimize disruption to the existing infrastructure during deployment · Potentially reduces the duration of maintenance windows · Helps ensure that your Cisco WAAS implementation plan is complete and that it contains the critical elements required for a predictable, successful deployment

Design

Developing a detailed design is essential to reducing risk, delays, and the total cost of network deployments. Cisco and Cisco Certified Partners can provide an implementation-ready design that you can use to engineer your network. We consider your technical requirements and network design goals to create an architecture optimized for your organization that can reduce the need for costly redesign, improve performance, and scale to support future changes. The activities and deliverables scoped for the design phase are outlined in Table 2.

Activities and Deliverables	Benefits
High-level design · Existing storage topology diagrams · Functional requirements · Feature recommendations · Scalability design considerations	· Provides architecture that validates your specific goals are integrated into your Cisco WAAS design · Improves the performance, resiliency, and availability of your Cisco WAAS infrastructure · WAAS strategy and roadmap aligned with assessment recommendations

Activities and Deliverables	Benefits
Low-level design review Typically includes the following: · Review existing Cisco WAAS deployments or provide a detailed review of a customer-provided Cisco WAAS design · Verify that the chosen platform, features, and functions meet the design objectives · Review the customer-provided LLD to verify that it integrates the technical requirements and design goals · Review the configuration to verify conformance or compliance with Cisco best practices · Assess and validate the scalability and design limitations of the LLD · Identify opportunities to improve design performance, security, and availability	· Verifies that your technical requirements and design goals are integrated into your Cisco WAAS design through the use of proven design principles · Minimizes expensive, time-consuming, and intrusive redesign by facilitating proper design early in the lifecycle · Improves the performance, resiliency, and availability of your Cisco WAAS infrastructure · Provides a detailed reference, or blueprint, for the proposed WAAS architecture · Design details support a successful deployment
Implementation support · Onsite or remote support for implementation of the recommended solutions · Provide leading practices recommendations and assistance in loading configurations	· Assistance to help you install, configure, and manage your network · Mitigate risks and rapidly address any issues that may arise
Migration support · Provides help transitioning of existing environment to a Cisco family-based architecture · Support for incident management	· Assistance to help ensure a smooth and successful transition event with problems addressed quickly

Learn

Help increase your team's self-sufficiency by sharing knowledge and leading practices. The activities and deliverables scoped for the learn phase are outlined in Table 3.

Table 3. Cisco WAAS Planning and Design Service Learn Activities, Deliverables, and Benefits

Activities and Deliverables	Benefits
Remote knowledge transfer sessions · Deliver remote knowledge transfer sessions about Cisco products and technologies you use. This activity typically includes the following: – Provide informal educational sessions – Conduct chalk talks – Regular communication by conference calls and email	· Provides anytime access to our industry-leading expertise and intellectual property · Helps train your operations staff on leading practices for deploying and integrating WAAS solutions · Increases the self-sufficiency of your network support team · Improves staff proficiency through knowledge exchange with Cisco experts

Benefits

The Cisco WAAS Planning and Design Service helps you accelerate deployment of Cisco WAAS solutions and improve application responsiveness across your wide area network.

The Cisco WAAS Planning and Design Service helps you to:

- Integrate your technical and design goals to create a customized Cisco WAAS design to improve remote office access to applications over your WAN
- Quickly identify and resolve planning and design issues so you can reduce the inherent risks in changing your IT infrastructure
- Deploy a Cisco WAAS solution that delivers the features and functions you expect on time and on budget
- Expand your IT staff's knowledge of Cisco WAAS solutions through access to Cisco experts and resources

Prerequisite Services

Before you implement the Cisco WAAS solution, Cisco recommends the Cisco Architecture Value Analysis Service. This service identifies the operational and financial commitments required to build a new infrastructure. For larger businesses, Cisco recommends the Cisco Virtualization Operations Management Assessment Service. This service identifies the barriers and risks limiting the ability to efficiently operate a virtualized data center and transforms operating models and management silos.

Follow-on Services

To realize the value of the architecture, network devices and applications need to be secure, available, and operating reliably. Cisco recommends the Cisco Data Center Optimization Service as a next step after the Cisco WAAS Planning and Design Service. The Cisco Data Center Optimization Service provides optimization services specific to WAAS in addition to ACE, unified fabric (Cisco Nexus™), SAN, unified computing, end-to-end architecture, and virtualization.

Why Cisco Data Center Services

Today, the data center is a strategic asset in a world that demands better integration among people, information, and ideas. Your business and your data center work better when technology products and services are aligned with your business needs and opportunities. Using a unique, unified view of data center assets, Cisco and our industry-leading partners deliver services that accelerate the transformation of your data center. Cisco takes an architectural approach to help you efficiently integrate and manage data center resources. Cisco Data Center Services help you reduce costs and deliver high availability and application performance.

Cisco and Partner Expertise

Cisco and our partners use leading practices and proven methodologies to help you quickly and efficiently plan and deploy a high-performance, resilient, and scalable architecture. The Cisco WAAS Planning and Design Service is delivered by Cisco Advanced Services and partners who hold a wide array of industry certifications and are subject matter experts in business and technology architectures and data center technologies. They have direct experience in planning, designing, and supporting WAAS infrastructures. Our product and technology expertise is continually enhanced by hands-on experience with real-life networks and broad exposure to the latest technology and implementations.

Availability and Ordering Information

The Cisco WAAS Planning and Design Service is a statement of work (SOW)-based service and is widely available. Contact your local service account manager about availability in your area.

For More Information

For more information about services for Cisco WAAS solutions or Cisco Data Center Services, go to www.cisco.com/go/dcservices.

Cisco Services.
Making Networks Work.
Better Together.

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV
Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at **www.cisco.com/go/offices.**

Printed in the USA

C78-565180-01   10/09