



## Cisco Unified Computing Migration and Transition Service

### Smooth Migration, Achieve Greater Application Availability and Agility, and Reduce Total Cost of Ownership

The Cisco Unified Computing Migration and Transition Service helps you smoothly migrate applications to the Cisco Unified Computing System platform, modernize them, and enhance application manageability through orchestration and process automation.

Migrating enterprise applications to a virtualized data center infrastructure can help businesses improve competitiveness, responsiveness, productivity, and profitability. Many businesses are evaluating initiatives to virtualize their enterprise application environments on an industry-standard x86 platform. However, management complexity and insufficient memory and I/O have been barriers to adoption. The Cisco Unified Computing System™ (Cisco® UCS) platform provides an innovative architecture that addresses those barriers.

This standards-based platform simplifies management by integrating computing, networking, and storage access. This approach decouples scale from complexity, providing a unified management domain designed to reduce total cost of ownership (TCO) and increase IT staff productivity and business agility through just-in-time provisioning. The Cisco Unified Computing System incorporates Cisco extended memory and virtualization-aware networking technology to provide a superior platform to support enterprise applications. This platform is the logical choice to help improve application agility and operational efficiency for any workload, virtual or physical.

Migrating applications from one platform to a next-generation platform requires a comprehensive migration strategy, plan, and domain experts who understand how to mitigate risks and preserve business continuity. Preserving the business environment can be especially challenging for a complex architecture with custom applications on proprietary platforms. Many IT organizations will benefit from working with a team of migration experts who have specialized tools and domain expertise. Cisco and our partners use proven methodologies, best practices, and tools to help assure a smooth transition and mitigate migration risk.

## Accelerate Your Transition to a New Level of Application Agility

The Cisco Unified Computing Migration and Transition Service helps you accelerate the adoption and optimal implementation for your business applications on a Cisco Unified Computing System platform. The service can help you migrate existing applications, modernize them to a new version, and automate them using features of the Cisco Unified Computing System platform and other management applications. Cisco and our partners work with you throughout this process to assess your current application infrastructure, determine and implement an efficient migration strategy while helping to minimize risk, and integrate the Cisco Unified Computing System with your existing IT architecture to increase manageability and simplify application provisioning.

The Cisco Unified Computing Migration and Transition Service has three components:

- **Migration:** Migrates your existing applications to the Cisco Unified Computing System platform.
- **Modernization:** Optimizes the architectural design and deployment of packaged applications while upgrading to newer versions.
- **Management and automation:** Assesses current application-management processes and tools and helps you enhance application manageability through orchestration and process automation.

These components are designed to address the following client challenges and concerns:

- High infrastructure and operations costs
- Complexity of ERP environments and applications that are reaching capacity limits
- Cost management of infrastructure modernization and expansion
- Application availability and business continuity
- Reliability and responsiveness as number of users increases

**Custom migration:** Migrates your existing applications to the Cisco Unified Computing System platform. Cisco Advanced Services has developed a proven offering to help you transition ERP infrastructures from legacy, proprietary processing platforms to today's open architectures coupled with pervasive virtualization securely and cost-effectively, to address your business challenges.



- **Oracle migration to Cisco UCS:** Our services help you with consolidating, upgrading, and migrating existing Oracle applications such as E-Business Suite, Siebel, PeopleSoft, and databases onto Cisco UCS infrastructure. We help design and optimize comprehensive solutions using Oracle RAC environment on Cisco UCS while exploiting Cisco Unified Computing System features to enhance overall application performance, scale, and resiliency of your application environment.
- **SAP migration:** We help you transform your mission-critical business processes and applications by migrating and optimizing your SAP application suites such as ECC/ERP, CRM, SCM, and PLM to the Cisco Unified Computing System platform, while exploiting Cisco Unified Computing System features to enhance overall application performance, scale, and resilience.
- **Exchange migration:** Migrates and optimizes your Microsoft Exchange deployment to the Cisco Unified Computing System platform, while exploiting Cisco Unified Computing System features to enhance Exchange performance, scale, and resilience.
- **Modernization:** Optimizes the architectural design and deployment of packaged applications while upgrading to newer versions.
- **Management and automation:** Assesses current application-management processes and tools and helps you enhance application manageability through orchestration and process automation.

## Custom Migration

Migration is the process of moving applications, be they custom-developed or third-party packaged, from their current platform to a Cisco Unified Computing System platform. Applications can be moved between physical platforms, between virtual platforms, or from a physical platform to a virtual platform.

Cisco Services have successfully delivered end-to-end physical and virtual migration services to a wide range of global customers. We use leading practices, processes, tools, and proven methodologies. Our migration methodology covers the entire IT stack: business consulting, applications, infrastructure design and migration, and operations management.

As part of a Cisco Unified Computing System migration services engagement, Cisco assesses applications for virtualization readiness and recommends an architecture with integrated physical and virtual servers that is network and storage optimized for your specific application and business requirements. These requirements might include security, client service-level agreements, capacity on demand, increased application availability and performance, and disaster recovery. Our methodology is also capable of handling large, complex migrations of packaged and customer application code using a migration factory approach. Because we understand your application requirements, the Cisco Unified Computing System architecture, and how to optimize your design to take advantage of migration best practices, Cisco and our partners can help you realize the full value of your unified computing investment.

## Enterprise Application and Database Migration

Migrating ERP applications and database, including Oracle and SAP-based environments, from legacy platforms to the Cisco Unified Computing System gives you and your end users the opportunity to benefit from new features and benefits of the unified architecture, such as extended memory and service profiles, which will increase the overall performance, service-level agreements, scalability, security, and resiliency of your ERP applications.

Cisco Services have successfully delivered, to a wide range of global customers, services to help them exploit these features and benefits of Cisco Unified Computing System, in database application migration projects. We use leading practices, processes, tools, and proven methodologies. Our migration methodology covers the entire IT stack: business consulting, applications, infrastructure design and migration, and operations management. Cisco Services solutions architects, with their unique and in-depth knowledge of Cisco Unified Computing System, coupled with deep understanding of the behavior of Oracle and SAP-based applications, bring this expertise to accelerate your migration projects, delivering a faster return on your migration investment.

As part of a Cisco Unified Computing System migration services engagement, Cisco assesses your database applications and make recommendations on what and how should or could be migrated to a Cisco Unified Computing System. These requirements might include security, client service-level agreements, capacity on demand, increased application availability and performance, and disaster recovery. Our methodology is also capable of handling large, complex migrations of packaged and customer application code using a migration factory approach. Because we understand your application requirements, business and technical architecture, the Cisco Unified Computing System architecture, and how to optimize your design to take advantage of migration best practices, Cisco and our partners can help you realize the full value of your unified computing investment. Our service offering makes sure that your applications architecture is aligned to your business, operational, and budget needs by reducing TCO, improving IT productivity, and increasing scalability of your application environment.

## Enterprise Productivity Application Migration (Microsoft)

Migrating business productivity applications such as Microsoft Exchange and SharePoint from legacy platforms to the Cisco Unified Computing System gives you and your end users the opportunity to benefit from new features and benefits of the unified architecture, to increase the overall end user experience, performance, scalability, and resilience of your new environment.

Cisco Services solutions architects, with their unique and in-depth knowledge of Cisco Unified Computing System, coupled with deep understanding of Microsoft Exchange, SharePoint, and Active Directory applications, bring this expertise to accelerate your deployment and migration projects, delivering a faster return on your investment.

As part of a Cisco Unified Computing System migration services engagement, Cisco assesses your Microsoft Exchange deployment, making recommendations, including compute, network, and storage best practices, optimized for your specific Microsoft Exchange deployment requirements. These requirements might include performance, high availability, security, client service-level agreements, and disaster recovery.

## Modernization

Upgrading your application software during the migration process can often enhance the benefits that you realize from a transition to the Cisco Unified Computing System platform. Addressing the challenge of inflexible applications requires application modernization. Application modernization encompasses a range of IT activities that realign application portfolios with business requirements.

The modernization service component helps you assess your application infrastructure to determine where upgrades can simplify application management, reduce costs, and add features. Cisco experts will recommend upgrades based on return on investment (ROI) and total cost of ownership (TCO) analyses for the features and functions that help ensure your applications stay business ready and agile. In the case of proprietary applications or applications running on nonstandard platforms that cannot be easily modernized, Cisco partners may be engaged to develop a new version based on the standard architecture.

## Management and Automation

Despite its many benefits, virtualization can bring management challenges. To address these challenges, enterprises need a solution that can be easily automated, managed, and monitored. Cisco Services can help you assess the affect of management and automation on a virtualized applications environment and help you implement an optimal solution for the Cisco Unified Computing System platform. Cisco Services can help you improve application efficiency and manageability and address the following:

- Systems orchestration
- Workflow automation
- Monitoring
- API integration

The management and automation service component integrates all aspects of deployment, change control, monitoring, and reporting for an application infrastructure. Using both unique Cisco and industry-leading management and automation tools, Cisco Services help provide a smooth operational process. For example, Cisco Tidal software tools may be used to implement application-level workflow automation. Standard systems orchestration tools and the Cisco Unified Computing System API are used to provide a fully integrated solution from infrastructure through applications. Implementing automated processes helps reduce the need for manual labor, which is typically more costly and error prone.

Table 1 lists service activities, deliverables, and benefits.

**Table 1.** Cisco Unified Computing Migration and Transition Service Activities, Deliverables, and Benefits

Activities and Deliverables	Benefits
<p><b>Custom Migration:</b></p> <ul style="list-style-type: none"> <li>• Perform discovery and dependency mapping</li> <li>• Perform application workload analysis across environments</li> <li>• Develop optimized architectural design and layout for new unified computing environment</li> <li>• Construct implementation and migration plan based on ranked priorities, SLA, optimal benefit, and so on</li> <li>• Migrate ISV and custom legacy applications</li> <li>• Develop operational runbook and configuration guide</li> <li>• Develop migration test plan and provide implementation support</li> </ul> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"> <li>• Customer requirements document</li> <li>• Application dependency map</li> <li>• Workload performance document</li> <li>• High-level design</li> <li>• Low-level design</li> <li>• Migration plan</li> <li>• Implementation plan</li> <li>• Test plan</li> </ul>	<ul style="list-style-type: none"> <li>• Solutions-driven approach to migrate to an optimized architecture designed to use strategic, business, and technical benefits</li> <li>• Safely and effectively migrate client applications to a unified computing platform</li> <li>• Provide migration and implementation planning and support to mitigate risk and provide accurate target environment and deployment timelines</li> <li>• Help ensure minimal deployment and migration time for greatly reduced service disruptions</li> </ul>
<p><b>Oracle/SAP Migration:</b></p> <ul style="list-style-type: none"> <li>• Establish and identify a baseline inventory of all Oracle/SAP critical components including infrastructure layout (servers, storage, database, network, and so on). Work directly with the technical and business owners to review all existing documentation of the Oracle/SAP environment.</li> <li>• Identify gaps within the documentation and conduct interviews and/or workshops to collect the missing information.</li> <li>• Assess infrastructure relationships for Oracle/SAP components and interdependencies including user authentication infrastructure</li> <li>• Identify current Oracle/SAP integration points and components, current user security policies and procedures</li> <li>• Workload rationalization—Conduct application migration workshop to classify processes and application environments. Identify customer migration requirements, from legacy to Cisco Unified Computing System</li> <li>• Application sizing based on each product family and number of users.</li> <li>• Identify Cisco UCS features that could benefit the migrated application including investigate feasibility of virtualization of application</li> <li>• Architect, build, and integrate: Create high-level architecture design to adapt and exploit Cisco UCS to experience superior Oracle/SAP-based application performance and end user experience</li> <li>• Develop migration strategy: Assess migration complexity and process; migrate processes and applications to Cisco UCS.</li> </ul> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"> <li>• Customer requirements document</li> <li>• High-level design</li> <li>• Low-level design</li> <li>• Consolidation and migration plan</li> <li>• Implementation plan</li> <li>• Test plan</li> <li>• Operational runbook</li> </ul>	<ul style="list-style-type: none"> <li>• Provides an end-to-end lower-cost infrastructure with virtualization capabilities that enable ERP and other enterprise applications to transition easily from big computers (such as mainframes and UNIX systems) to the Cisco Unified Computing System.</li> <li>• Develop the ability to create new ERP instances quickly and efficiently (from request to provisioning).</li> <li>• Make sure of optimal deployment of ERP-based applications onto unified architecture, exploiting unique features of the Cisco Unified Computing System architecture—including stateless computing, service profiles, and extended memory—to increase performance, scalability and resilience of your applications—duplicating and provisioning ERP systems with large databases within hours.</li> <li>• Investigate potential for virtualization</li> <li>• Ease of management, scalability, sustainable performance, growth, and recoverability.</li> <li>• Reducing the overall operational and environment cost structure with no effect to the application</li> <li>• Investigate use cases for increased resilience—for example, capacity on demand, predictive maintenance scheduling</li> <li>• Through detailed planning and project management expertise, reduce migration risk and complexity</li> <li>• Help ensure application is functional and running with proper configurations for an integrated network, compute, and storage environment</li> </ul>

Activities and Deliverables	Benefits
<p><b>Microsoft Migration:</b></p> <ul style="list-style-type: none"> <li>• Conduct application migration workshop to identify customer migration requirements, from legacy to Cisco Unified Computing System</li> <li>• Discover Exchange/SharePoint-related application inventory</li> <li>• Develop migration strategy</li> <li>• Assess infrastructure relationships, migration complexity and process</li> <li>• Identify Cisco UCS features that could benefit Exchange end user experience</li> <li>• Investigate feasibility of virtualization of application components</li> <li>• Investigate any storage constraints on Exchange performance</li> <li>• Design Cisco UCS, network, and storage integration to support Exchange implementation for Clustering and High Availability</li> <li>• Produce design to adapt and exploit Cisco UCS to experience superior Exchange performance and end user experience, for example, design of service profiles to support the various types of exchange servers used in the deployment</li> </ul> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"> <li>• Customer requirements document</li> <li>• High-level design</li> <li>• Low-level design</li> <li>• Migration plan</li> <li>• Implementation plan</li> <li>• Test plan</li> <li>• Operational runbook</li> </ul>	<ul style="list-style-type: none"> <li>• Make sure of optimal deployment of Microsoft Exchange onto unified architecture, exploiting unique features of the Cisco Unified Computing System architecture—including stateless computing, service profiles, and extended memory—to increase end user experience, performance, scalability and resilience of your Exchange deployment</li> <li>• Investigate potential for virtualization</li> <li>• Investigate solutions for complex Exchange processes—for example, mailbox archiving and mailbox synchronization</li> <li>• Investigate use cases for increased resilience—for example capacity on demand, predictive maintenance scheduling</li> <li>• Though detailed planning and project management expertise, reduce migration risk and complexity</li> <li>• Help ensure application is functional and running with proper configurations for an integrated network, compute, and storage environment</li> </ul>
<p><b>Modernization:</b></p> <ul style="list-style-type: none"> <li>• Design a unified computing architecture based on proven practices for application environments</li> <li>• Assess and determine optimal modernization method</li> <li>• Develop modernization plan: <ul style="list-style-type: none"> <li>– ISV application installation and upgrade</li> <li>– OS installation and upgrade</li> <li>– Custom application upgrade procedure</li> <li>– Infrastructure upgrade (compute, memory, I/O)</li> </ul> </li> <li>• Implement updates, patches, or reinstall to newer version of application/OS/HW</li> <li>• Integrate to migration plan to determine accelerated deployment time</li> </ul> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"> <li>• Customer requirements document</li> <li>• High-level architecture design</li> <li>• Low-level architecture detail design</li> <li>• Modernization plan (installation and update) <ul style="list-style-type: none"> <li>– Integrated to migration plan</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Optimal deployment of client applications onto unified architecture to use best practice virtualization strategies and capabilities</li> <li>• Help ensure application is refreshed and architecture is designed to maximize the new unified computing platform</li> <li>• Help ensure application is functional and running with proper configurations for an integrated virtual and physical environment</li> </ul>
<p><b>Management and Automation:</b></p> <ul style="list-style-type: none"> <li>• Implement and integrate systems orchestration tools to unified computing system and unified fabric environments</li> <li>• Cisco UCS Manager API integration <ul style="list-style-type: none"> <li>– Server, network, and storage provisioning</li> <li>– Automated infrastructure deployment process development</li> <li>– Reporting, monitoring, and chargeback</li> </ul> </li> <li>• Implement and configure runbook and workflow automation tools</li> <li>• Design and implement automated workflows for application and OS installation, configuration, and change control</li> </ul> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"> <li>– Systems orchestration installation guide</li> <li>– API design guide</li> <li>– Application workflow guide</li> <li>– SMA operations runbook</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify systems management integration</li> <li>• Automate deployment of end-to-end stack for your applications down through the supporting hardware infrastructure</li> <li>• Reduce time to deploy</li> <li>• Increase operational efficiency, application availability, and agility</li> </ul>

## Benefits

The Cisco Unified Computing Migration and Transition Service helps your business quickly and cost-effectively realize the full benefits of migrating business applications to the Cisco Unified Computing System platform. The expertise of Cisco and our industry-leading partners reduces the risk of migration and helps the data center achieve greater efficiency, agility, and time to revenue through properly implemented application solutions.

The Cisco Unified Computing Migration and Transition Service gives you:

- An optimized methodology designed to help you move your application infrastructure to a more flexible, virtual data center solution
- Migration best practices
- Global engagement experience
- Workload-centric design principles
- Migration processes with profile-based provisioning and orchestration
- Reduced dependency on complex and proprietary systems
- Increased flexibility and serviceability as your business requirements change
- Rapid ROI through the use of an optimized and repeatable service methodology that takes advantage of innovative technologies such as virtualization
- Improved operational processes

## Cisco and Partner Expertise

Cisco's product and technology expertise is continually enhanced by hands-on experience with real-life networks and broad exposure to the latest technology and implementations. The Cisco Unified Computing Migration and Transition Service is delivered by consultants from Cisco and our partners. These consultants have direct experience in planning, designing, and supporting application solutions, and they hold a wide array of industry certifications and are subject matter experts in business and technology architecture, including:

- SAP certified Netweaver
- Oracle eBiz certified admin and certified Oracle RAC DBA
- Microsoft certified SQL Server, Exchange, SharePoint
- Custom application porting experts
- Data center solution architects
- Layer 2 and Layer 3 infrastructure architects
- SAN architects
- Layer 4 to Layer 7 architects
- VMware certified professional consultants
- Information security experts
- Network management architects
- Customer system architects and administrators
- Application porting and coding experts
- Runbook automation experts
- API design and development experts
- PMP certification

## 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. Cisco and our industry-leading partners deliver intelligent, personalized services that accelerate the transformation of your data center. Using a unified view of data center assets, Cisco takes an architectural approach to help you efficiently consolidate, virtualize, and manage data center resources. Cisco Data Center Services help transform, optimize, and protect your data center to reduce costs, deliver high availability, and improve application performance.

## Availability

The Cisco Unified Computing Migration and Transition Service is widely available as an SOW-based service. Contact your local Cisco account manager about availability in your area.

## For More Information

For more information about Cisco Unified Computing Migration and Transition Service, as well as the broad array of Cisco Services for the data center, contact your local Cisco account manager or visit [www.cisco.com/go/unifiedcomputingservices](http://www.cisco.com/go/unifiedcomputingservices).



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