

# HP Consolidated Client Infrastructure (CCI)



Centralized end user computing solution enhances manageability, security, and agility

The Consolidated Client Infrastructure (CCI) solution from HP centralizes desktop compute and storage resources into easily managed, highly secure data centers while providing end users with the convenient, familiar desktop experience they have come to expect. By taking processing power from the desktop and shifting it to a blade PC, CCI offers increased manageability, security, and agility that deliver TCO savings.

## Centralized management is key

In a CCI environment, desktop management is performed in a data center, where IT professionals can efficiently and cost effectively ensure that computing resources are up to date and available. Devices inside and outside the data center can be managed from a central console, significantly reducing the need for desk-side system support and speeding problem resolution. The result is increased reliability, which greatly improves service level agreements (SLAs).

## Security is enhanced

By removing sensitive data from the desktop and relieving end users of the responsibility for many desktop administration tasks, CCI reduces many of the risks associated with traditional distributed desktop



environments. Accountability for anti-virus and data protection is moved to the data center, and, as a result, theft, data loss, malfeasance, and noncompliance with software licensing terms can decrease. Users no longer carry the administrative burden of ensuring that software is properly licensed and deployed at the correct version level. Instead, IT professionals are empowered to make timely backups and perform patch management.

In addition, with data stored centrally, CCI helps eliminate the risks posed when sensitive data is housed insecurely in user areas or not backed up properly. This approach enables better privacy controls on both customer and corporate data.

## Dramatically lower desktop TCO

Collectively the following benefits of CCI have the potential to deliver a return on initial investment within the first year of implementation:

- Consolidation of PCs, user data, and software into a single or limited set of data centers to allow a smaller support staff to manage and support more users.
- Dramatically reduced need for desk-side support through use of a thin client with a solid-state design that

“Companies struggling to make desktop PC administration more manageable and less expensive should consider HP's CCI ...I was able to move from one thin client to another while maintaining my files and applications...After simulating a blade failure while editing a Word document, I was able to restart on another blade in minutes, having lost only the changes made since the last autosave.”

Product Review, *InfoWorld*  
Mario Apicella  
June 1, 2004

has no moving parts, resulting in a longer product lifecycle and fewer repairs.

- Lower power requirements for the total CCI solution than for the typical PC computing environment – the result of power efficient blade PCs and thin clients.

Even companies that have adopted the Gartner best practices for desktop management could realize additional cost savings by switching to CCI.

### Improved agility

CCI lets you quickly respond to changing business demands. In a CCI environment:

- Dedicated resources can be allocated transparently when an end user accesses the network. If a blade crashes, the user merely logs on again and is automatically assigned to another blade PC.
- Capacity planning can be simpler and more efficient.

End users enjoy a scalable, self-healing, fault-tolerant desktop environment that gives them continuous access to the data and applications they need. Users can leave their desks without closing applications, connect from another location, and continue working, without losing time re-establishing their work environment.

### CCI consolidates the desktop environment

CCI is a three-tiered architecture that includes:

- An access tier using thin clients
- A compute tier with racks of blade PCs inside a data center
- A resource tier made up of a storage pool, network printers, application servers, and other networked resources that reside inside or outside the data center

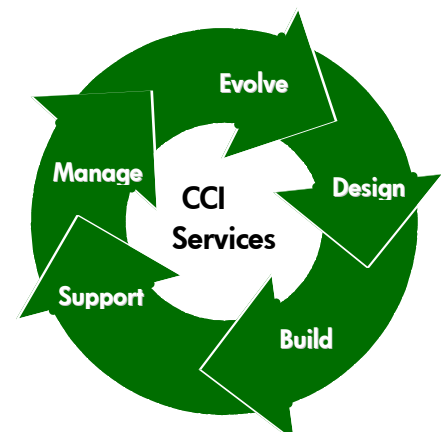
The advantages of CCI come from the one-to-one connection users establish with dynamically allocated blade PCs, and centralized storage. Individual desktop applications and data are stored and controlled in the data center. The use of storage array technologies and centralized system management, that includes periodic backups, helps to eliminate the risk of losing valuable corporate data.

The blade PCs used in CCI support Microsoft Windows XP Pro with a complete suite of standard or custom applications. Almost all applications that run on a PC will run also in the CCI environment.

The CCI solution includes a proven suite of management tools that allows IT professionals to manage devices inside and outside the data center, all from a single console.

### HP Services for CCI

To ensure that CCI is successfully integrated into your enterprise and delivers the maximum value, HP Services provides critical expertise for every step of the CCI lifecycle: Design, Build, Support, Manage, and Evolve.



" Many of CCI's components are individually quite evolved and mature, having been developed and battle-tested for years. What is most notable about CCI is not any particular technology, but rather the relatively effortless ways the products and infrastructure that CCI needs flow from pieces already in place."

Illuminata, December 2003

### Designing the CCI solution to fit your unique end user computing requirements

Highly experienced HP Services consultants recommend steps for achieving a successful full-scale deployment, minimizing unforeseen risks and disruptions. These services include:

- Vision to Value Service – an interactive workshop is used to build a technology vision and framework for your environment
- Architectural Design and Planning Services
- Ongoing Reviews and Future Design Services

### Building CCI into your IT environment

- CCI Implementation Service

Enables you to transition easily to this new architecture and includes:

- Project Management – HP will designate a project manager who will be your primary point of contact and have responsibility for managing HP resources and a CCI implementation project plan designed in cooperation with you.
- Pre-Installation and Planning
- Solution Deployment
- Solution Testing and Orientation

### Supporting your new desktop environment

- CCI Solution Support Services
  - Support for all solution components as well as solution interoperability
  - 24 x 7 access to technical support resources

- End User Orientation Services

- On-site or web-based training and materials to assist customers in managing change as end users migrate from desktop PCs to a CCI environment

### Managing all or any part of your end user environment

While end users are looking for a reliable, hassle-free environment, management is looking to control support costs and maintain a competitive edge. IT departments are often caught in the middle – trying to manage this environment with stretched-to-the-limit resources. Outsourcing enables you to leverage HP's resources and utilize new technology in an area of IT that is undergoing rapid change. This can reduce the complexity of managing and supporting the end user environment and thus help to reduce overall costs.

### Evolving your infrastructure as your business needs change

- TCO Assessment Service – HP can determine how and by how much CCI can most effectively cut your PC total cost of ownership.
- HP Financial Services Options – Leasing, desktop removal, and buy-back/credit services can maximize asset value and total cost of ownership throughout the IT lifecycle. Learn more at <http://h10016.www1.hp.com/hpfinancialservices/>

### Are you ready to consolidate your desktop environment with CCI Infrastructure?

- Do you need to substantially reduce operating expenses?
- Are you refreshing or adding over 1,000 desktops?
- Are you facing PC hardware and software upgrades?

- Are you planning or have you completed Microsoft Windows XP and Active Directory implementations?
- Are you evaluating technology based on TCO, rather than solely on acquisition costs?
- Do you need support for applications that are not well suited for server-based computing?
- Are you planning to consolidate your IT infrastructure?
- Do you want better management of change control for your end user infrastructure?

**If you answered yes to most of these questions, this may be the perfect time to transition to CCI.**

## Why HP?

HP is the only vendor that offers an architecture or solution like CCI. This patent-pending solution relies on existing, proven industry-standard products and services from HP and our partners.

HP is:

- #1 WW in blade server market<sup>1</sup>
- A market leader in Thin Clients<sup>2</sup>
- The leader in desktop services with over 1 million seats supported<sup>3</sup>
- A leader in server and storage consolidation<sup>4</sup>
- An experienced provider of Global Business Continuity and Availability with 105 response and operations centers, 56 recovery centers, and over 13,000 seats of office recovery spread over 6 continents

## Related HP Services and Solutions

- End User Workplace Management Services

HP Services' End User Workplace Management Services include a portfolio of the essential services required to deliver an efficient, reliable productivity environment that meets the demands of end users, management, and IT.

<http://www.hp.com/hps/enduser/>

- Global Service Desk

<http://www.hp.com/hps/global/>

- Business Continuity and Availability

<http://www.hp.com/hps/continuity/>

- IT Consolidation

<http://www.hp.com/hps/consolidation/>

To learn more about how CCI can help you consolidate your desktop environment to support your business goals, go to [www.hp.com/go/cci](http://www.hp.com/go/cci)

<sup>1</sup>Gartner's Worldwide Quarterly Server Tracker, May 2004.

<sup>2</sup>IDC Enterprise Client Q-View, Q1 2004. HP is #3 WW and #2 in EMEA.

<sup>3</sup>Gartner Group 2003 Desktop Outsourcing Magic Quadrant, and Desktop and Help Desk Services, METAspectrum Market Summary, October 6, 2003.

<sup>4</sup>IDC Server and Storage Consolidation Multi-Client Study, 12/03, Matt Eastwood, Research Director, Global Enterprise Server Solutions.

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