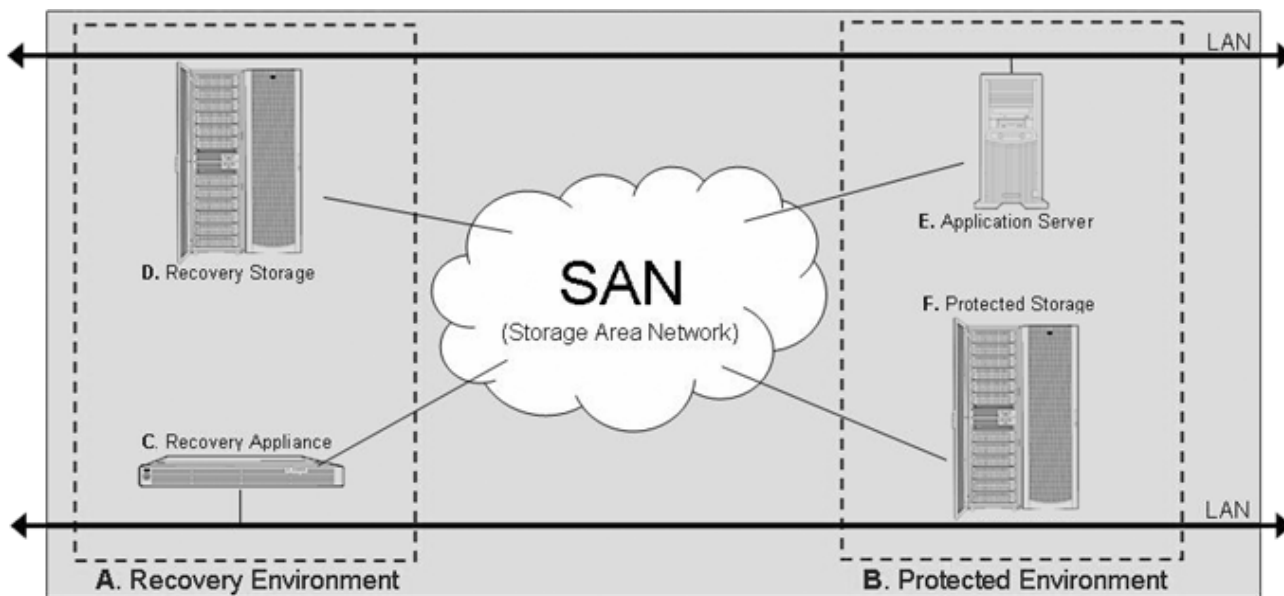


QuickSpecs

HP Continuous Information Capture 1.4

Overview

HP Continuous Information Capture Solution (CIC), part of HP's Information Management (IM) portfolio, optimizes information roll-back for both databases and applications. A local solution, CIC continuously mirrors changes, offering a timeline represented by the widest range of available roll-back points. Important application or business events may be tracked in the timeline to help improve optimal roll-back point identification. CIC also helps shorten overall roll-back time. Historical views (virtual snapshots) are created quickly - a process not slowed by a need to layer incremental backups or replay archive logs. And, with the views created away from application servers, CIC enables off-host processing tasks, such as backup or testing, without impacting production systems.



HP Continuous Information Capture - DEFINITIONS

- | | |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. Recovery Environment | All CIC recovery appliances and associated recovery storage |
| B. Protected Environment | All application servers and associated protected storage that will leverage CIC for information extraction and/or roll-back |
| C. Recovery Appliance | The hardware platform on which the CIC recovery server software resides; the CIC 1.4 recovery appliance is based on the HP ProLiant DL585 G2 server. The CIC recovery appliance may also be referred to as CIC recovery server. |
| D. Recovery Storage | The (disk) storage platform that hosts the block writes captured from the protected database or application |
| E. Application Server | The server that runs the protected database (e.g. Oracle) or application (e.g. Microsoft Exchange Server). The application server also hosts the CIC Data Tap software, which monitors and captures database or application writes, and sends (1) a copy of the writes to recovery storage and (2) associated metadata to the recovery appliance. An application server may also be called a protected server or a production server. |
| F. Protected Storage | The (disk) storage platform that hosts the protected database or application |

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HP Continuous Information Capture 1.4

Overview

What's New

- Leverages HP DL585 G2 as the new CIC recovery server platform
- Offers ability to add incremental protected (application) servers, with support for up to six active protected servers per single CIC recovery server configuration
- New CIC option to simplify and speed Exchange object-level recovery. HP Continuous Information Capture Object Recovery for Microsoft Exchange enables drag-and-drop recovery of Exchange objects, such as e-mail, folders, attachments, calendar items, and tasks.

Product Highlights

Key Features

- Transparent, continuous data capture
- Unique support for event-addressable storage
- Retroactive creation of historical views
- Configurable priority for roll-back window time line
- Off-host processing
- Production Roll-back
- Network-based, out-of-band architecture

Customer Benefits

- **Information access:**
 - Helps minimize downtime and increase information access by speeding roll-back through rapid creation and application of virtual snapshots
 - Annotates the conventional CDP timeline with information about relevant business and application processes to speed the selection of the optimal roll-back point for any given failure scenario, such as data corruption, viruses, or user errors
 - Enables production data to be "undone" - in the event of data corruption - to the point before corruption occurred, helping deliver rapid, optimized roll-back of applications
- **Non-Disruptive Operations:**
 - Protects applications without imposing any backup window, allowing mission-critical applications to run 7x24 without data protection-related downtime
 - Historical views may be used for off-host processing tasks, such as backup/recovery, testing, development, analysis, reporting, etc., thereby removing impact to production systems
 - Helps provide the performance and scalability necessary to simultaneously protect and/or recover multiple heterogeneous application servers, without impacting production systems

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HP Continuous Information Capture 1.4

Software Components

Mendocino Software The HP Continuous Information Capture solution is powered by Mendocino Software RecoveryONE v1.4 software as the underlying CDP technology.

Red Hat Enterprise Linux, AP CIC 1.4 ships with a pre-installed copy of Red Hat Enterprise Linux (RHEL) Advanced Platform (AP). The Linux distribution version is Red Hat Linux Enterprise Linux AP, version 4.0, Update 3, kernel 2.6.9-34.ELsmp x86_64

Hardware Components

CIC Recovery Appliance HP ProLiant DL585 G2, including the following components -

- Processors: (2) AMD Opteron Processor, Dual-Core (2.8 GHz)
- Memory: 32 GB (8 x 4 GB)
- Hard Drive: (2) 72.8-GB 10,000 rpm, SAS Hard Drives
- Optical Drive: (1) Slimline CD-RW/DVD-ROM 24x Combo Drive
- Communications: (2) QLogic Dual Port 4GB FC HBA
- Mounting Hardware: (1) DL585 mounting hardware kit
- Cabling: (1) Cable assembly, CAT5e UTP, 12FT

NOTE: The HP CIC solution does not include a rack for the recovery appliance or recovery storage. If a rack is required, you must purchase one separately.

QuickSpecs

HP Continuous Information Capture 1.4

Ordering Information

40-Character Description	Descriptions & Part Numbers Detailed Description	HP Part Number
HP Cont Information Capture Solution	The CIC 1.4 solution bundle includes the CIC recovery appliance, Mendocino Software RecoveryOne 1.4, and the following licensing: <ul style="list-style-type: none"> License to use one (1) Mendocino Software recovery server installed on one (1) HP CIC recovery appliance License to protect two (2) application servers per CIC recovery appliance License to use up to one (1) terabyte of recovery storage per CIC recovery appliance <p>NOTE: Recovery storage must be part of the existing customer environment or must be purchased separately.</p>	AE455B
HP Con Inf Cap Upg Clus Data Tap Win LTU	License to upgrade from a license for a protected server (Data Tap) to a license for a protected server (Data Tap) configured as a node, active or passive, within a Windows (MSCS) cluster, per single CIC recovery server configuration <p>NOTE: Up to 6 active protected servers (Data Taps) are supported on a single CIC recovery server.</p>	T4322A
HP Con Info Cap Add 1 TB Rec Storage LTU	License to use up to one (1) additional terabyte of recovery storage per CIC recovery appliance. Up to 16 terabytes of recovery storage is supported per CIC recovery appliance. <p>NOTE: Recovery storage must be part of the existing customer environment or must be purchased separately.</p>	T4324A
HP Cont Info Capture Add 1 Data Tap LTU	License to add one (1) incremental Data Tap to a single CIC recovery server environment. Up to 6 active protected servers (Data Taps) are supported on a single CIC recovery server. <p>NOTE: One part number T4320A must be ordered for each protected server (Data Tap) to be configured, above the two Data Taps that already are included in the base CIC licensing, for a single CIC recovery server.</p>	T4320A
HP CIC Obj Rec for Msft Exch 500 Mbx LTU	License to use HP Continuous Information Capture Object Recovery for Microsoft Exchange option to support up to 500 mailboxes. <p>NOTE: To support more than 500 mailboxes, order additional T5409A licenses. For example, for CIC Object Recovery for Exchange to support 1,600 mailboxes, you must order four (4) T5409A licenses.</p>	T5409A
HP Cont Info Cap Sol Software Media Kit	HP CIC software media kit. <p>NOTE: One part number T5317A must be ordered with each part number AE455B; part number T5317A may not be ordered by itself (without part number AE455B).</p>	T5317A
HP CIC Obj Rec for Msft Exch Media Kit	HP CIC Object Recovery for Microsoft Exchange software media kit. <p>NOTE: This software is not standalone. It must accompany a new order for CIC (part number AE455B) or support an existing CIC installation. Also, a minimum of one part number T5409A is typically ordered with each part number T5408A.</p>	T5408A

Red Hat Enterprise Linux (RHEL) Subscriptions

40-Character Description	Detailed Description	HP Part Number
RHELAP Ult'd SKT STD 1 Year RHN Nm SW	One-year RHEL Advanced Platform (AP) subscription, with one year of software updates. Choose when the CIC support level selected is one year standard business hours.	393328-B21
RHELAP Ult'd SKT PRM 1 Year RHN Nm SW	One-year RHEL Advanced Platform (AP) subscription, with one year of software updates. Choose when the CIC support level selected is one year 24x7	393330-B21
RHELAP Ult'd SKT STD 3 Year RHN Nm SW	Three-year RHEL Advanced Platform (AP) subscription, with three years of software updates. Choose when the CIC support level selected is three years standard business hours.	393329-B21



Ordering Information

RHELAP Ult'd SKT PRM 3 Three-year RHEL Advanced Platform (AP) subscription, with three years of software 393331-B21
Year RHN Nm SW updates. Choose when the CIC support level selected is three years 24x7.

NOTE 1: To ensure that the CIC support term and RHEL support term for CIC are aligned, you must select and specify one RHEL subscription AND support type from the four choices above for each CIC sales quotation or order.

NOTE 2: An HP Care Pack Service must be ordered to entitle phone support for the RHEL subscription. At a minimum, specifying the service level and duration as 1 Year Standard Business Hours support will enable one year of phone support for the RHEL subscription.

NOTE 3: The above-mentioned RHEL AP subscriptions do not include RHEL software media.

QuickSpecs

Configuration Information

HP Continuous Information Capture combines hardware, software, and services to offer a compelling alternative to rolling-back databases or applications for the purposes of recovery or information extraction. CIC captures writes at the block level, and is able to create a snapshot of the database or application to virtually any point in time.

QuickSpecs

HP Continuous Information Capture 1.4

Compatibility

Protected Server

CIC 1.4 supports protected (application) servers running on the following platforms:

- Sun SPARC / Solaris 8, 9 (64-bit)
- Intel x86 / Microsoft Windows 2000, SP4
- Intel x86 / Microsoft Windows Server 2003, SP1 or R2
- PA-RISC / HP-UX 11i, V1 & V2
- POWER / IBM AIX 5.2, 5.3

Protected Storage

CIC 1.4 supports any disk storage that is supported on the protected server platforms.

Recovery Storage

CIC 1.4 supports the following disk arrays as recovery storage:

- HP StorageWorks XP12000, XP10000
- HP StorageWorks 3000, 5000 Enterprise Virtual Array (EVA)
- HP StorageWorks 4000, 6000, 8000 Enterprise Virtual Array (EVA)
- HP StorageWorks 1000, 1500cs, 1500i Modular Smart Array (MSA)

CIC Recovery Appliance

With CIC 1.4, the recovery appliance ships as a HP ProLiant DL585 G2 server running Red Hat Enterprise Linux AP 4.0, Update 3. No other platforms or operating systems are supported. Future CIC versions may include options for enhanced recovery appliances and/or support for additional platforms.

CIC Object Recovery for Microsoft Exchange

The management interface for the optional CIC Object Recovery for Microsoft Exchange software runs on the following platforms:

- Intel x86 / Microsoft Windows XP
- Intel x86 / Microsoft Windows Server 2003, SP1 or R2

NOTE: For the latest compatibility information, please refer to the [CIC Connectivity Stream](#) document.

NOTE: For an explanation on the various CIC components, please refer to the [Definitions](#) section

Service and Support, HP Care Pack, and Warranty Information

HP Care Pack Services

HP Care Pack Services offer upgraded service levels to extend and expand your standard product warranty with easy to buy, easy to use support packages that help you make the most of your hardware and software investments. They let you choose the support levels that meet your business requirements, from basic to mission-critical. They help you contain total cost of ownership.

HP Care Pack warranty extensions can be purchased along with HP products to cost-effectively upgrade or extend your warranty. For many products, post-warranty HP Care Pack Services are available when your original warranty has expired.

Why purchase an HP Care Pack service?

Your standard warranty protects against product defects. HP Care Pack Services help you guard against unplanned downtime, which can reduce your productivity and profitability. These convenient service packages:

- Protect your investment in HP products
- Provide consistent, predictable levels of support across your entire department or business
- Ease budget planning with fixed-cost support that includes parts and labor
- Give you direct access to proven technical and problem-solving expertise
- Offer a choice of response-time and repair-time commitments
- Deliver prompt, measurable results
- Are available whenever and wherever you do business

HP Care Pack availability may vary by country and product.

Supporting your Adaptive Enterprise journey

HP Services helps you make the Adaptive Enterprise real for your organization. The breadth, depth, and quality of HP hardware and software support services can help you improve the performance of your IT support processes and resolve the complex software and hardware problems that tax user productivity. HP Care Pack services help you increase IT environment stability, efficiency, and agility from the desktop to the data center, and improve the productivity of your employees.

Warranty and Services Included with the Product

Includes one year of HP Standard Business Hours HP Software Support (software technical support and software product and documentation updates)
HP warrants only that the Software media will be free of physical defects for a period of ninety (90) days from delivery.

For more information about HP's Global Limited Warranty and Technical Support, visit ftp://ftp.compaq.com/pub/products/storageworks/warranty/EN_321708-008.pdf

Service and Support, HP Care Pack, and Warranty Information

Recommended Services HP Continuous Information Capture Installation & Start Up Service:

- Enjoy top performance right from the start
- Shorten your time-to-ROI

Three years HP Support Plus 24 Service:

- Provides hardware and software support
- Improve the productivity of system managers and operators
- Improve system performance and reduce downtime due to software defects
- Expedite problem resolution through expert-level technical resources
- Enjoy consistent service coverage across geographically dispersed sites
- Update HP and selected third-party software at a predictable cost
- Take advantage of subscription savings on software updates
- Keep your license compliancy up-to-date

Available HP Care Pack Services Extend your product warranty with a wide choice of cost-saving support packages.

HP Care Pack Services are sold by HP and HP authorized enterprise and commercial resellers. Services for customers purchasing via direct and enterprise resellers are quoted using HP order configuration tools. Additional information about HP Care Pack Service features and benefits is available at: <http://www.hp.com/hps/carepack/services/>.

Key for HP Care Pack Service availability in the table below:

E = Service available for customers purchasing direct and via enterprise resellers

C = Service available for customers purchasing via commercial resellers

N/A = Service not applicable

HP Care Pack Services Deployment and Per Event Services	Service Available
HP Continuous Information Capture Installation & Start Up Service	E

For more information about Deployment and Per Event Services for HP Storage, visit: <http://www.hp.com/hps/storage/>.

HP Care Pack Services Availability Services	1 yr	3 yr	4 yr	5 yr
HP Support Plus	Included	E	N/A	N/A
HP Support Plus 24	E	E	N/A	N/A

Deployment and Per Event Service Descriptions The HP Installation and Startup Service ensures a smooth implementation of HP StorageWorks Continuous Information Capture software into your IT infrastructure. The service provides a documented implementation designed to help meet the needs of your business providing:

- Greater ability for your IT resources to stay focused on their core tasks and priorities
- Reduced implementation time and impact to your storage environment

Deployment of HP CIC Object Recovery for Microsoft Exchange option is based on a statement of work (SOW) HA115A1 #5EC. For more information, please contact your HP sales representative or authorized HP reseller.

Service and Support, HP Care Pack, and Warranty Information

eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal: The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit <http://www.hp.com/support>

HP Education Services

For more information about HP Education Services for Storage, visit <http://education.hp.com/curr-storsan.htm>

Additional Services Information

For more information about Deployment, Per Event, Consulting and Education services for HP Storage, visit: <http://www.hp.com/hps/storage/>

For more information about HP Care Pack Services for Storage, visit: http://www.hp.com/hps/carepack/storage/cp_networked.html

For more information about HP Storage Software, services and updates, visit: <http://h18006.www1.hp.com/storage/software.html>

If you have specific questions, contact your local HP representative. Contact information for a representative in your area can be found at "Contact HP" <http://www.hp.com>

QuickSpecs

HP Continuous Information Capture 1.4

Technical Specifications

CIC Recovery Appliance For the technical specifications of the HP DL585 G2 server that is the foundation of the CIC 1.4 recovery appliance, please refer to the HP ProLiant DL585 Generation 2 (G2) QuickSpecs - http://h18004.www1.hp.com/products/quickspecs/12575_div/12575_div.html

Maximum Number of Active Application (Protected) Servers per CIC 1.4 Recovery Appliance	6
Maximum Number of Protected Volumes (PVs) per Application (Protected) Server	400
NOTE: PVs are LUNs or partitions that reside on protected storage and are protected by CIC.	
Maximum Number of Protected Volumes per CIC 1.4 Recovery Appliance	800
Maximum Number of Active (active I/O) Snapshots per Recovery Server	6
Maximum Number of Passive (no I/O) Snapshots per Recovery Server	100
Maximum Number of Recovery Storage LUNs per CIC 1.4 Recovery Appliance	36
Maximum Aggregate Size of Protected Storage per CIC 1.4 Recovery Appliance	10 Terabytes
Maximum Aggregate Size of Recovery Storage per CIC 1.4 Recovery Appliance	Up to 16 Terabytes

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