

Overview

The HP Integrated Archive Platform (IAP) is an integrated software and hardware solution for the archival and disposition of information to lower costs and mitigate risks associated with information management. It is one of the industry's most scalable grid-based enterprise platform designed for large scale data ingestion along with high-speed search and retrieval. The IAP provides access control, full-text indexing, legal hold, managed retention, and defensible disposition of archived information for e-Discovery early case assessment, audit response, and regulatory compliance.

Scalability and Performance. The HP Integrated Archive Platform (IAP) is developed for extreme data volumes and is the foundation for rapidly evolving e-Discovery, compliance and archiving strategies. The unique IAP grid storage architecture enables a flexible, multi-dimensional scaling capability which can be configured with a wide range of performance and capacity upgrade options to meet the most demanding service level agreements (SLAs) of large enterprise environments. The IAP automatically indexes and archives billions of objects across a grid of smart storage cells, referred to as Smartcells. Managing the explosive growth in information is now possible by consolidating and centralizing archival, retrieval, retention, and administration of information throughout the enterprise with minimal resources required for scalability and no noticeable degradation in performance.

Accessibility and Discovery. Comprehensive integrated search capabilities which leverage IAP's unique distributed indexing and grid architecture technologies ensure fast access to consolidated and centralized multi-content information such as emails and files for hundreds of thousands of users across hundreds of terabytes, and billions of objects. Providing unprecedented and high performance access to information can significantly reduce litigation costs and risk and help businesses enable timely response to the growing number of simultaneous litigation and e-Discovery requests.

Retention Management. Preservation of information through flexible retention policies ensures proper disposition of data at the end of its retention period helping customers meet information governance, compliance, or internal legal department requirements. This allows organizations to "Stop Retaining Forever", a practice that has become cost and risk prohibitive.

Data Protection. Every object is archived with its own unique digital signature along with a date and time stamp. There are two (2) copies of data stored on each RAID-6 (ADG) protected and mirrored Universal Smart Storage Cell (Smartcell). This ensures secure tamper-resistant storage and high availability of continuously protected information. Additionally, the IAP supports the options for replication (Primary and Replica IAP systems) and integrated backup (using HP's Data Protector product).

Legal Holds. The IAP supports the capability to provide legal holds on information in particular user accounts, referred to as user's repositories. Search results of potentially relevant information in a user's repository can be placed on hold for an indefinite period of time to ensure preservation of information for compliance audits, corporate governance, or litigation requests. This allows audit or legal teams to "suspend" the information in a user's repository, to ensure the data is not tampered with or automatically disposed of after retention policies are met.

Fast Time to Access and ROI. The flexibility and scalability of the IAP are paramount to streamlined on-site deployment. Prior to shipment, HP builds the solution according to your business needs and service level agreements (SLAs), enabling immediate and rapid seamless integration on-site. With the escalating costs in litigation and compliance, HP customers have begun realizing ROI in as little as a few days or weeks.

What's New

The features listed below are ONLY the new features introduced since the previous IAP 2.0 version. Please see, "Key Features" section, for more details.

Hardware

- Upgraded to Serial Attached SCSI (SAS) hard disks for increased performance while reducing risks of hardware failures associated with low-end hard drives (i.e. SATA)

Overview

- Added redundant power supply for all servers to eliminate single point of failure
- Upgraded Universal Smart Storage Cells (Smartcells) servers to HP ProLiant DL180 G6 Servers
- Upgraded all infrastructure (database, firewall, store and query portals, etc...) servers to HP ProLiant DL360 G7 Servers
- New performance hardware upgrades options (new SKUs) are available for database, store portal, and query portal servers, along with replication

Scalability

- More than doubled Universal Smart Storage Cells (Smartcells) capacity from 2.1 to 5 Terabytes
- Scalability metrics increased to accommodate deployments with more than 300,000 users
- Proven enterprise-class scalability to support more than 20 million messages ingested daily

Management

- Upgraded to industry-wide standard and supported Linux 64-bit OS
- Integrated HP Systems Insight Manager (SIM) for hardware monitoring and management with SNMP trap forwarding to management systems available within the organization and monitoring applications.
- Enabled remote management of the IAP system servers with integrated Lights Out (iLO)
- Improved system wide alerts and notifications for enhanced system management
- Increased and enhanced logging for improved administrative and auditing purposes

User Experience

- WebUI improvements to provide an "address" search field for increased granularity of searches, allowing for more advanced Boolean queries
- New file export engine to streamline export of documents stored via File Archiving software to Windows based clients

Performance

- Fast search query results containing more than 5M messages in a query
- Complex results delivered to reviewers and operators with little or no waiting
- Performance database server option for increased ingestion rates for high volume environments
- Improved performance for replication services
- Enhanced efficiency of applying system-wide retention policies
- Substantially increased data indexing and query performance for archived data

Backup and Recovery

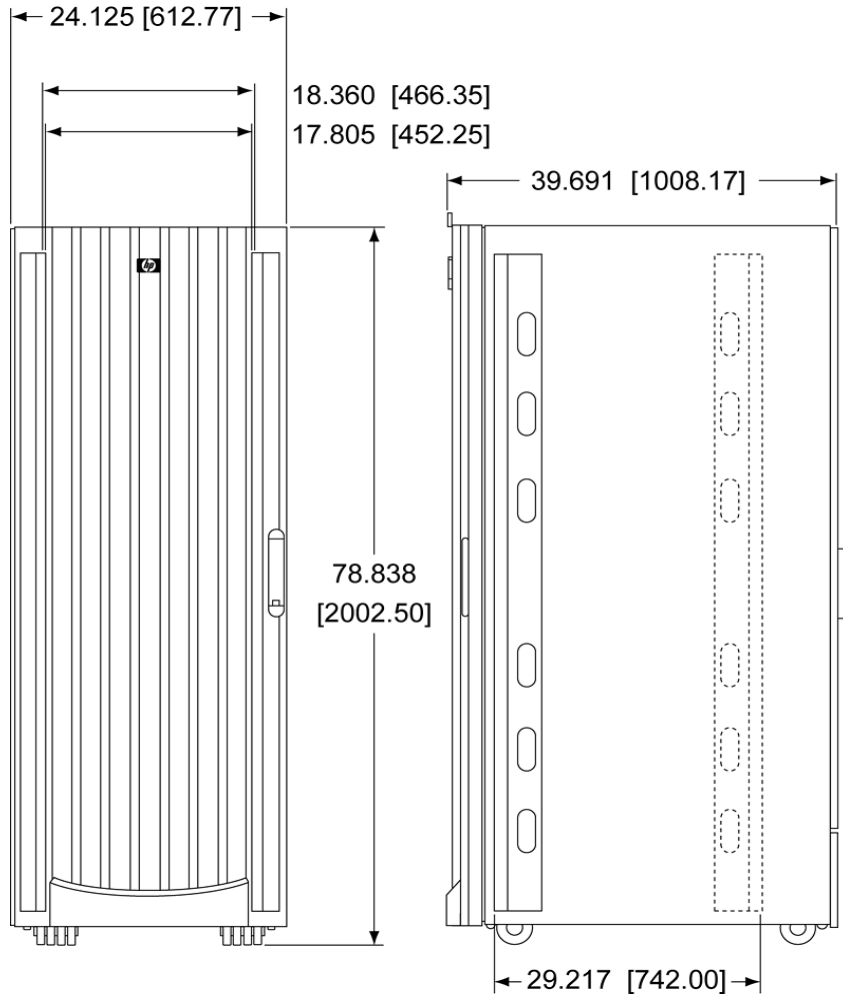
- Replaced backup software with industry acclaimed HP Data Protector Software which automates high performance backups, 24/7 business continuity, and provides disaster recovery
- Enhanced performance of full backups, can now be performed in hours versus days
- Faster recovery by backing up both data and associated indexes
- Full support for off-site tape vaulting

Support

- Expanded support of Non-English languages to support Multi-byte character and localization for i18N
- Added Support for Microsoft Exchange 2010 SMTP Journaling with the addition of HP Email Archiving software for Microsoft Exchange (HP EASE)
- Fully supported upgrade procedures from earlier versions (IAP 1.6.x and IAP 2.0.x)

Overview

HP Integrated Archive Platform Base System and Expansion Racks Diagram



Rack for HP IAP Base Hardware (PN:A7970G)
and HP IAP Expansion Rack (PN:A5660F)

Features and Benefits

Key Features

Hardware

- Serial Attached SCSI (SAS) hard disks for increased performance while reducing risks of hardware failures associated with low-end hard drives (i.e. SATA)
- Redundant power supply for all servers to eliminate single point of failure
- [HP ProLiant DL180 G6 Servers](#) for all Universal Smart Storage Cells (Smartcells) servers
- [HP ProLiant DL360 G7 Servers](#) for all infrastructure (database, firewall, store and query portals, etc...) servers
- Performance hardware upgrades are available for database, store portal, and query portal servers, along with replication

Scalability

- Universal Smart Storage Cells (Smartcells) 5 TB capacity with RAID-6(ADG) protection
- Accommodates deployments with more than 300,000 users
- Proven enterprise-class scalability to support more than 10 million messages ingested daily
- Background duplicate object removal engine for better storage efficiency

Management

- Industry-wide standard and supported Linux 64-bit OS
- Integrated with HP Systems Insight Manager (HP SIM) for hardware monitoring and management with SNMP trap forwarding
- Remote management of the IAP system servers with integrated Lights Out (iLO)
- Improved system wide alerts, notifications, and logging for enhanced management
- Centralized management of the storage, indexes, databases, data, metadata, and all retention/routing policies
- Remote replication for both active-active (2-way) and active-passive (1-way) capabilities
- Search the enterprise-wide repository of all archived content with one search
- Ability for administrators to create Access Only (audit) repositories, to enable the ability to perform audit while maintaining retention policies for disposition of information
- Powerful integrated distributed content indexing and search tools
- Reduced administration overhead for managed applications such as Microsoft Exchange servers

Performance

- Fast search query results containing more than 5M messages
- Performance database server option for increased ingestion rates for high volume environments

Backup and Recovery

- Integrated with industry acclaimed HP Data Protector Software
- Supports both full and incremental backups with automated incremental backups of the IAP archived data and associated indexes
- Enhanced performance of full backups, can now be performed in hours versus days
- Fast recovery of the IAP since archived data and indexes are both backed up
- Full support for off-site tape vaulting

Application Support

- Supports multi-byte characters and localization support for both I18N and L10N
- Supports archival of unstructured, semi-structured, structured data (files, email with attachments, images, Microsoft Office, Windows-based file, and database data types)
- Integrates with Microsoft Exchange Server, IBM Lotus Domino, and Microsoft Windows-based files with software:

Features and Benefits

- HP Email Archiving software for Microsoft Exchange (HP EAsE)
- HP Email Archiving software for IBM Lotus Domino (HP EAsD)
- HP File Archiving software (HP FAs)
- Supports Microsoft Exchange 2007 and 2010 SMTP Journaling
- Software upgrade available (with required G6 Hotfix) for IAP 1.6.1 and 2.0.3
- File export engine to streamline export of documents stored File Archiving software to Windows based clients
- Tightly integrated business policy-driven solutions to support automated archiving applications
- Supports Single-Sign On with Web Query User Interface (WebUI)

Security and Data Protection

- All IAP components including storage, staging cache, OS, servers, indexes, databases, object data, and metadata sit behind firewall creating a secure and private network
 - Data is protected by a tamper-resistant environment; data is digitally signed and time stamped
 - Data is mirrored synchronously across a pair of two Universal Smart Storage Cells (Smartcells) for increased data availability and protection
 - Microsoft-trusted certification to acknowledge Hewlett Packard as a trusted publisher when installing the IAP product
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Customer Benefits

Information Access

- Turns data into information by providing fast retrieval of archived content
- Information discovery, compliance audits and legal discovery are accomplished by searching billions of documents or records in seconds significantly reducing cost of e-Discovery
- Ability to conduct a single search across the entire enterprise "audit" repository
- Web Interface is provided for search, forward, download, export, and/or legal holds of data, enabling IAP users to quickly locate information in the archive
- File export tool allows for data be to easily accessible and available to review and distribute as needed
- Data retrieval from the archival system is accelerated using storage grid architecture that evenly distributes full text indexes and original content across many Universal Smart Storage Cells (Smartcells)
- Searches are executed across all Universal Smart Storage Cells (Smartcells) in parallel providing unrivalled performance
- End-user access to archived documents via intuitive Web User Interface (WebUI) search tool, Outlook or Lotus Notes email client plug-in, or native file system with HP's email and file archiving connectors (HP EAsE, HP EAsD, or HP FAs), thus allowing for easy and reliable access to maximize end user productivity
- Flexible retention policies that manage and dispose of data based on its business value

Cost Management

- Integration with HP Systems Insight Manager (SIM) enables comprehensive hardware monitoring to eliminate costly administration and provide for proactive resolution
- Configured iLO ports enables access to and management of the IAP from remote locations, serving to reduce management overhead by eliminating manual intervention requirements in data centers
- Off -loads and minimizes email server or file system storage requirements for growing user environment improving overall performance of production systems
- Reduces IT support and administrative costs by providing automated method of data migration to lower cost storage based on the value of the data
- Helps to better manage and control the growing costs associated with expensive primary storage and application environments by archiving data to a secure and searchable archive system
- Reduces backup and recovery windows
- Ability to backup content using HP Data Protector provides 24x7 business continuity and the ability to store tape copies off-site,

Features and Benefits

- known as vaulting
- Maximizes time to access, minimizes cost of ownership

Risk Mitigation

- Assists customers to meet requirements of data retention regulations by protecting content from change or deletion for a pre-defined retention period
- Consolidate and centralize email, files, and documents into a highly scalable, easily searchable integrated content archive platform, thus providing a manageable interface and increased productivity
- Fast search and retrieval and legal hold capabilities across the IAP can accelerate early case assessments and reduce the exposure and risk of fines and penalties for non-compliance
- Facilitate compliance with various regulations like SOX (Sarbanes-Oxley Act), SEC 17a-4, Basel II, and many other US and international regulations

Availability

- Content is synchronously mirrored at the data object level on separate Smartcells with RAID-6 (ADG) configuration providing for added data security and data leak protection
- Data retention periods are enforced to ensure data availability for a pre-defined period, providing adherence to both regulatory and company policies
- Legal holds can be applied to specific user accounts (repositories) based on relevance or business value, in order to meet and assure specific requirement for all corporate requirements
- Automated remote replication option enables enterprise-wide disaster recovery strategies and solutions
- Data can be retrieved from the Replicated IAP system during Primary IAP planned (e.g. maintenance, upgrades) or unplanned (e.g. geographically localized power outage) downtime, thus minimizing risk and maximizing uptime.

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 and 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, while also helping you reduce the Total Cost of Ownership (TOC).

HP provides the following Care Pack Services for Premium Hardware and Software Support Services listed below:

- **Proactive 24**
1 or 3 years of proactive advice assistance, 24x7 4-hr onsite response hardware support, plus software support (phone-in assistance) and software updates.
- **HP Foundation Care 24x7 Service**
HP Foundation Care 24x7 connects you to HP 24 hours a day, seven days a week for assistance on resolving issues - hardware onsite response within four hours and software call back within two hours after opening your case. Make HP your first call for hardware or software questions; Collaborative Support is included in all Foundation Care Services for this product and provides troubleshooting assistance on software such as Microsoft Server, Red Hat Linux, VMware and more. Three years' coverage recommended with HP Care Pack

Additional options are available for support above 3 years on an exception basis.

HP Care Pack availability may vary by country and product. 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
- Deliver prompt, measurable results
- Are available whenever and wherever you do business

HP Care Pack 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.

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 are available at:

<http://www.hp.com/hps/carepack/services/>

Service and Support, HP Care Pack, and Warranty Information

Warranty and Technical Support

The following services are included with the purchase of your HP Integrated Archive Platform Hardware components:

- 1 year 9 x 5, 4-hr Response Hardware Support
- 1 year 9 x 5, Hardware Telephone Assistance
- 1 year 24x7, Internet Knowledge-Based Self-Solve Service

The following services are included with the purchase of your HP Integrated Archive Platform Software components:

- 1 year 24x7, Internet Knowledge-Based Self-Solve Service

For more information about HP's Global Limited HP Warranty & Technical Support, visit: <http://www.hp.com/products/storageworks/warranty>

Deployment Service Descriptions

HP Software Professional Services Organization (PSO) provides installation and startup services for the HP Integrated Archive Platform Base and Expansion Rack Hardware/Software, as well a comprehensive suite of custom services.

Custom services may include installation, configuration, and startup of additional HP IAP Archiving software, including File Archiving software (FAs), Email Archiving software for Exchange (EAsE) and Domino (EAsD), and also Replication and Backup options. Additionally, PSO provides upgrade services including data migration for the products and services mentioned above.

PSO provides estimated costs associated with all the services via a custom statement of work (SOW) in order to meet the exact needs of our customers.

For more information, contact your HP representative or consult with your HP Software IM Account Team to determine the most appropriate service for specific requirements.

You can email HP Software Professional Services Organization in your region for more information or for custom services quotes at:

IMServices.EMEA@hp.com

IMServices.Americas@hp.com

IMServices.APJ@hp.com

Service and Support, HP Care Pack, and Warranty Information

HP Software Support Online

HP Software Support Online (SSO) 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 software updates and patches
- Access to diagnostic tools
- Proactive notification of relevant information

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

HP Software Education Services

For more information about training available from HP Software Education Services for IAP, EASE, and EASD, visit: <http://www.hp.com/learn/hpsw>

Additional Services Information

For more information about Solutions, Products, Demos, News, BTO Software, Partners, Education and Training for HP Software, visit: <http://www.hp.com/go/hpsupport>

For more information about HP Care Pack Services for Software, visit: <http://www.hp.com/hps/carepack/services>

For more information about HP Information Management Products, visit: <http://www.hp.com/go/imhub>

For more information about the IAP or if you have specific questions, contact your local HP representative, visit and click on "Have a sales expert contact me" at: <http://www.hp.com/go/hpiap>

Configuration Information

Step 1 - Base Configuration

Model Name	Model Description	Part Number
HP IAP Base Hardware	<p>The HP IAP Base Hardware provides the highly scalable, core management infrastructure which includes a base rack, one group of Universal Smart Cell Storage, the management servers, switches, hardware, and services required for archiving reference information.</p> <p>Its standard configuration includes HP unique features such as full-text indexing and search capability, a grid computing architecture that supports multi-dimensional scaling and content protection, load balancing, access management and security.</p> <p>NOTE: Up to three (3) Universal Smart Storage Cells (Smartcells) can be supported in the standard HP IAP Base Hardware rack and can be either factory or field Installed. The base rack doesn't include database server.</p>	A7970G
HP IAP Database Server	<p>The HP IAP Database Server, one of two (1 of 2) database server options for the IAP, provides an operational database needs for deployments where there are less than 100K users, or ingestion of less than 8M messages per day. In prior IAP releases, a standard database server was included in the HP IAP Base System. Starting with IAP 2.1, greater flexibility is given to select a standard or performance database server based on the needs of customer environment.</p> <p>NOTE: The HP IAP Database Performance Upgrade (BK848G) can be ordered instead of the HP IAP Database Server (BK847G) for high ingestion-rate or large user count (> 100K) environments. Please consult your HP Software Information Management (IM) account team for further information.</p>	BK847GF
HP IAP Database Performance Upgrade	<p>The HP IAP Database Performance Server, one of two (1 of 2) database server options for the IAP, provides an operational database needs for deployments where there are more than 100K users, or ingestion of more than 8M messages per day. In prior IAP releases, a standard database server was included in the Base System. Starting with IAP 2.1, greater flexibility is given to select a standard or performance database server based on the needs of customer environment.</p> <p>NOTE: The HP IAP Database Performance Upgrade (BK848G) can be ordered instead of the HP IAP Database Server (BK847G), for low ingestion-rate or small user count (< 100K) environments. Please consult your HP Software Information Management (IM) account team for further information.</p>	BK848G

Step 2 - Required Software

HP IAP 2.10 Media	The HP IAP 2.10 Media kit consists of a physical DVD set required for each installation of the IAP software.	TB751AA
HP IAP 2.10 E-Media	The electronic download of the HP IAP 2.10 Media kit required for each installation of the IAP software.	TB751AAE
HP IAP	The HP IAP Base Software LTU is a software license that allows the end-user the right to	TB748AA

Configuration Information

Base Software LTU

use the HP IAP Base Software on HP IAP Base Hardware and related options. Its standard configuration includes HP unique features such as full-text indexing and search capability, a grid computing architecture that supports multi-dimensional scaling and content protection, load balancing, access management and security. This LTU also includes a license-to-use for 5 TB of smart cell storage that's included with the HP IAP Base Hardware (A7970G), by default.

HP IAP Base Software LTU

The HP IAP Base Software LTU is a software license that allows the end-user the right to use the HP IAP Base Software on HP IAP Base Hardware and related options. Its standard configuration includes HP unique features such as full-text indexing and search capability, a grid computing architecture that supports multi-dimensional scaling and content protection, load balancing, access management and security. This LTU also includes a license-to-use for 5 TB of smart cell storage that's included with the HP IAP Base Hardware (A7970G), by default.

TB748AA

HP IAP Base Software E-LTU

The electronic download of the HP IAP Base Software license that allows the end-user the right to use HP IAP Base Software on the HP IAP Base Hardware and related options. Its standard configuration includes HP unique features such as full-text indexing and search capability, a grid computing architecture that supports multi-dimensional scaling and content protection, load balancing, access management and security. This E-LTU also includes a license-to-use for 5 TB of smart cell storage that's included with the HP IAP Base Hardware (A7970F), by default.

TB748AAE

NOTE: This product requires HP installation and startup services. Please refer to the Required Services section for additional information. If customer requirements go beyond the scope of basic services, a custom quote statement of work is required to fulfill those needs see "Deployment and Per Event Services" section.

HP IAP Archiving Software

The HP IAP Base Software LTU or E-LTU includes the "back-end" management software installed on a HP IAP Base Hardware system and includes archive management, distributed index, and grid-management software.

A separate "front-end" application archiving connector must be added and purchased separately to archive content from Microsoft Exchange, IBM Lotus Domino, and/or Windows-based files, which is ordered separately from the HP IAP Base Hardware and HP IAP Base Software LTU or E-LTU.

Details of each HP software application archiving connector are available in their respective QuickSpecs and Data Sheet are available via the following websites:

HP Email Archiving software for Microsoft Exchange (EAsE)
www.hp.com/go/exchangearchive

HP Email Archiving software for IBM Lotus Domino (EAsD)
www.hp.com/go/dominoarchive

HP File Archiving software (FAs)
www.hp.com/go/filearchive

Additionally, there are 3rd applications from our ISV partners, such as Clearwell Systems' E-discovery Platform.

Configuration Information

NOTE: For more information regarding Archiving Gateways Software, go to Step #3 - "Additional Options".

Step 3 - Additional Options

HP Exchange Archiving Gateway

The HP Exchange Archiving Gateway server is needed to retrieve Microsoft Exchange messages from Exchange Server and archives into the IAP.

A7977G

AT LEAST ONE (1) Archiving Gateway is required if HP Email Archiving software for Microsoft Exchange (EAsE) is ordered. The IAP is designed to scale multiple Archiving Gateways for increased performance in larger Exchange environments and the HP IAP Base Hardware rack can scale up to a total of three (3) Archiving Gateways in a standard configuration.

The HP IAP Base Hardware can support more than three (3) Archiving Gateways but will require a separate statement of work (SOW) to ensure proper configuration and deployment. Please consult your HP Software Information Management (IM) account team for further information.

NOTES:

This product includes warranty and support as described under "HP Warranty and Technical Support" section.

This product requires HP installation and startup services. Please refer to the Required Services section for additional info. If customer requirements go beyond the scope of basic services, a custom quote statement of work is required to fulfill those needs see "Deployment Services Descriptions".

HP Exchange Archiving Gateway Factory Integrated Option

The HP Exchange Archiving Gateway product can be racked at the factory in the HP IAP Base Hardware rack by specifying the actual product number above followed by the "#0D1" code.

A7977G #0D1

HP Domino Archiving Gateway

The HP Domino Archiving Gateway server for storing Lotus Domino messages into the IAP.

A7978G

AT LEAST ONE (1) Domino Archiving Gateway is required if HP Email Archiving software for IBM Lotus Domino (EAsD) is ordered. For performance reasons customers may need multiple Archiving Gateways per base unit. Please consult your HP Software IM account team for further information.

NOTES:

The HP Domino Archiving Gateway is required if HP Email Archiving software for IBM Lotus Domino is ordered.

This product includes warranty and support as described under "HP Warranty and Technical Support" section.

This product requires HP installation and startup services. Please refer to the Required Services section for additional info. A custom quote statement of work is required, see

Configuration Information

"Deployment Service Descriptions" section.

HP Domino Archiving Gateway Factory Integrated Option	The HP Domino Archiving Gateway product can be racked at the factory in the HP IAP Base Hardware rack by specifying the actual product number above followed by the "#0D1" code.	A7978G #0D1
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Step 4 - Upgrade Options

HP IAP Expansion Rack	Additional (42U) rack required for capacity or performance upgrades beyond what can be supported in the Base System rack. The HP IAP Expansion Rack can support up to a maximum of ten (10) Universal Smart Cell groups or a combination of Universal Smart Storage Cells (Smartcells) and performance upgrades as determined by a SOW.	A5660F
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HP IAP Smart Cell Hardware (Pair)	The HP IAP Base Hardware comes standard with a pair of Universal Smart Storage Cells (Smartcells), which is one (1) Universal Smart Storage Cell group (USC) and can be racked at the factory in either the HP IAP Base Hardware rack or the HP IAP Expansion Rack by specifying the actual product number above followed by the "#0D1" code.	AG442G
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NOTES:

Smart Cell server group includes two (2) redundant storage servers, cables, warranty and support as described under "HP Warranty and Technical Support".

Each Smart Cell server group requires the purchase of a minimum 5x TB749AA, or 5x TB749AAE. See "HP IAP Smart Cell 1TB Capacity LTU & E-LTU" below.

HP IAP Smart Cell Hardware Factory Integrated Option (Pair)	The HP IAP Base Hardware comes standard with a pair of Universal Smart Storage Cells (Smartcells), which is one (1) Universal Smart Storage Cell group (USC) and can be racked at the factory in either the HP IAP Base Hardware rack or the HP IAP Expansion Rack by specifying the actual product number above followed by the "#0D1" code.	AG442G #0D1
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HP IAP Smart Cell 1TB Capacity LTU	The HP IAP Smart Cell Hardware requires this software license-to-use to be purchased to provide user licensing of Smart Cell storage space, in 1 Terabyte increments. The HP IAP Base Hardware (A7970G) includes 5TB of smart cell storage by default but the license to use is included with the HP IAP Base Software LTU or E-LTU and must be purchased separately.	TB749AA
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HP IAP Smart Cell 1TB Capacity E-LTU	The electronic download of the required license-to-use purchased to provide user licensing of Smart Cell storage space, in 1 Terabyte increments. The HP IAP Base Hardware (A7970G) includes 5TB of smart cell storage by default but the license to use is included with the HP IAP Base Software LTU or E-LTU and must be purchased separately.	TB749AAE
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HP IAP Database Performance Upgrade	The HP IAP Database Performance Server is the second database server option for the HP IAP which provides HP IAP operational database needs for deployments where there are more than 100K users, or ingestion of more than 8M messages per day. In prior IAP releases, a standard database server was included in the Base System. Starting with IAP 2.1, greater flexibility is given to select a database server based on the needs of customer environment.	BK848G
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Configuration Information

HP IAP Query Portal Performance Upgrade	<p>The HP IAP Base Hardware comes standard with one (1) the IAP Query Portal (also known as an HTTP portal) and can support up to three (3) Query Portals in a standard HP IAP Base Hardware rack configuration. Multiple IAP Query Portals Performance Upgrades can be ordered to scale Query/Search performance to meet the search demands of many varying environments.</p> <p>The HP IAP Base Hardware configuration can support more than three (3) Query Portals but will require a separate statement of work (SOW) to ensure proper configuration. Please consult your HP Software IM account team for further information.</p> <p>NOTE: This SKU provides one (1) additional Query Portal server, cables, warranty and support as described under HP Warranty and Technical Support section.</p>	A5662GQ
HP IAP Query Portal Performance Upgrade Factory Integrated Option	<p>The HP IAP Query Portal Performance Upgrade can be racked at the factory in the HP IAP Base Hardware rack by specifying the actual product number above followed by the "#0D1" code.</p>	A5662GQ #0D1
HP IAP Store Portal Performance Upgrade	<p>The HP IAP Base Hardware comes standard with one (1) IAP Store Portal (also known as an SMTP portal) and can support up to three (3) Store Portals in a standard HP IAP Base Hardware rack configuration. Multiple IAP Store Portal Performance Upgrades can be ordered to scale store performance to meet the SLA demands of many varying environments.</p> <p>The HP IAP Base Hardware configuration can support more than three (3) Store Portals but will require a separate statement of work (SOW) to ensure proper configuration. Please consult your HP Software IM account team for further information.</p> <p>NOTE: This SKU provides one (1) additional Store Portal server, cables, warranty and support as described under HP Warranty and Technical support section.</p>	A5662GS
HP IAP Store Portal Performance Upgrade Factory Integrated Option	<p>The HP IAP Store Portal Performance Upgrade can be racked at the factory in the HP IAP Base Hardware rack by specifying the actual product number above followed by the "#0D1" code.</p>	A5662GS #0D1
HP IAP Replication Performance Upgrade	<p>The HP IAP Base Hardware comes standard with one (1) HP IAP Replication Performance Upgrade, which provides a separate Firewall and one (1) Load Balancer to separate replication traffic from ingestion traffic.</p> <p>The HP IAP Base Hardware configuration can support up to one (1) additional HP IAP Firewall & Load Balancer Replication Performance Upgrade in a standard HP IAP Base configuration. This performance upgrade is used to provide a dedicated Firewall and Load Balancer to improve replication performance in a replicated HP IAP configuration. Please consult your HP Software IM account team for further information along with the</p>	A6580G

Configuration Information

SWD Sizing Tool for recommendations.

NOTE: This SKU provides one (1) additional Firewall server, one (1) additional Load Balancer server, cables, warranty and support as described under "HP Warranty & Technical Support" section.

HP IAP Replication Performance Upgrade Factory Integrated Option The HP IAP Replication Performance Upgrade can be racked at the factory in HP IAP Base Hardware rack by specifying the actual product number above followed by the "#0D1" code. A6580G #0D1

HP IAP Expansion Capacity Performance Upgrade A one-time HP IAP Expansion Capacity Performance Upgrade option that is recommended when adding one (1) or more Expansion Racks for additional capacity upgrades. AG770G

NOTE: This SKU provides one (1) additional Meta server, one (1) additional Cloud Router server, cables, warranty and support as described under "Warranty and Services "HP Warranty and Technical Support" section.

HP IAP Expansion Capacity Performance Upgrade Factory Integrated Option The HP IAP Expansion Capacity Performance Upgrade can be racked at the factory in the HP IAP Base Hardware rack by specifying the actual product number above followed by the "#0D1" code. AG770G #0D1

HP IAP Backup Option Hardware A dedicated tape backup solution using HP Data Protector for HP IAP that incrementally backs up application and Smartcell data and is equipped with an integrated SCSI controller and software that supports a wide range of HP tape libraries and backup systems. A7979G

NOTES:

A license-to-use must also be purchased for the Backup Option. The two (2) choices are the standard LTU and E-LTU (electronic download):

HP IAP Backup Option Software LTU	TB750AA
HP IAP Backup Option Software E-LTU	TB750AAE

This SKU includes one (1) Backup server with SCSI Card, warranty and support as described under "HP Warranty and Technical Support" section.

This SKU does NOT include tape library, tape drives, SCSI cables, Host Bus Adapter, or media (supplied separately).

One of the following Host Bus Adapters must be purchased in conjunction with A7979G:

HP Dual Channel 4Gb PCI-e Fibre Channel	AE312A
HP PCI-e Ultra320 SCSI	AH627A

Configuration Information

HP Single Channel Ultra320 PCI-E SC11Xe 412911-B21

This product requires installation and startup services. Please refer to the "Required Services" section for additional info. If customer requirements go beyond the scope of basic services, a custom quote statement of work is required to fulfill those needs, see "Deployment Service Descriptions section".

HP IAP Backup Option Hardware

This product can be racked at the factory in the HP IAP Base unit by specifying the actual product number above followed by the "#0D1" code.

A7979G #0D1

HP IAP Backup Option Software LTU

This provides a license-to-use for the Backup software to be installed on the HP IAP Backup Option Hardware (A7979G).

TB750AA

HP IAP Backup Option Software E-LTU

This is an electronic download of the license-to-use for the Backup software to be installed on the HP IAP Backup Option Hardware (A7979G).

TB750AAE

HP IAP Replication Option LTU

The HP IAP Replication Option is a software license that supports the replication of a HP IAP Base System to a secondary HP IAP Base System, either locally or remotely over IP. This option allows the HP IAP Base Hardware to be configured either in an "active-active" or "active-passive" mode. An LTU is required per replicated system, so one (1) LTU is required for "active-passive" mode, and two (2) LTUs are required for "active-active" mode. An E-LTU or LTU is required per replicated system.

T3566E

NOTES:

Software license to use (LTU) for IAP Replication Option is for one (1) protected system. Warranty and support options as described under "HP Warranty & Technical Support" section.

This product requires installation and startup services. Please refer to the Required Services section for additional info. If customer requirements go beyond the scope of basic services, a custom quote statement of work is required to fulfill those needs (see "Deployment Service Description" section).

HP IAP Replication Option E-LTU

This is an electronic download of the IAP Replication Option software license that supports the replication of a HP IAP Base System to a secondary HP IAP Base System, either locally or remotely over IP. This option allows the HP IAP Base Hardware to be configured either in an "active-active" or "active-passive" mode. An E-LTU or LTU is required per replicated system.

T3566EAE

HP Warranty and Technical Support

Service and Support Included

HP IAP Base Hardware	A7970G
IAP Universal Smart Cell Hardware (Pair)	AG442G
HP IAP Backup Option Hardware	A7979G
HP IAP Expansion Rack	A5660F
HP IAP Query Portal Performance Upgrade	A5662GQ
HP IAP Store Portal Performance Upgrade	A5662GS
HP IAP Replication Performance Upgrade	A6580G
HP IAP Expansion Capacity Performance Upgrade	AG770G
HP Exchange Archiving Gateway	A7977G
HP Domino Archiving Gateway	A7978G

Description of included service and support for above:

- 1 year 9 x 5, standard business hours, 4-hr Response Hardware Support
- 1 year 9 x 5, Hardware Telephone Assistance
- 1 year 24x7, Internet Knowledge-Based Self-Solve Service

Service and Support Required

HP IAP Replication Option LTU	T3566E
HP IAP Replication Option E-LTU	T3566EAE

Description of service and support options for above: (one is required)

- 1 or 3 years 24x7 HP SW Support, phone-in support, software updates and 24x7 Internet Knowledge-Based Self-Solve Service
- 1 or 3 years 9x5 HP SW Support, phone-in support, software updates and 24x7 Internet Knowledge-Based Self-Solve Service
- 1 or 3 years of Proactive 24 - proactive advice assistance, 24x7 HP SW Support, phone-in support, software updates and 24x7 Internet Knowledge-Based Self-Solve Service
- Additional options are available for support above 3 years on an exception basis.

HP Warranty and Technical Support

Service and Support	HP IAP Base Hardware	A7970G
Upgrade Options	HP IAP Universal Smart Storage Cell capacity upgrade (pair)	AG442G
	HP IAP Backup Option Hardware	A7979G
	HP IAP Expansion Rack	A5660F
	HP IAP Database Server	BK847G
	HP IAP Database Performance Upgrade	BK848G
	HP IAP Query Portal Performance Upgrade	A5662GQ
	HP IAP Store Portal Performance Upgrade	A5662GS
	HP IAP Replication Performance Upgrade	A6580G
	HP IAP Expansion Capacity Performance Upgrade	AG770G
	HP Exchange Archiving Gateway	A7977G
	HP Domino Archiving Gateway	A7978G

Description of service and support upgrade options for above:

- 3 years of Support Plus - standard business hours, 4-hr onsite response hardware support, 9x5 software phone-in assistance, access to software updates and 24x7 Internet Knowledge-Based Self-Solve Service
- 1 and 3 years of Support Plus 24 - 24x7, 4-hr onsite response hardware support, 24x7 software phone-in assistance, access to software updates and 24x7 Internet Knowledge-Based Self-Solve Service
- 1 and 3 years of Proactive 24 - proactive advice assistance, 24x7 4-hr onsite response hardware support, 24x7 software phone-in assistance, access to software updates and 24x7 Internet Knowledge-Based Self-Solve Service
- Additional options are available for support above 3 years on an exception basis

Related Options	HP ProCurve Switch XL 100/1000-T Module	J4821B
	NOTE: This option is available for customers with A7970B and prior HP IAP Base units.	
	HP ProCurve 100/100-T transceiver	J4834A
	NOTE: This option is available for customers with A7970B and prior HP IAP Base units.	
	HP XP ProCurve Switch XL16 10/100/1000 Module	J4907A
	NOTE: This option is available for customers with IAP 2.8TB base unit A7970C.	
	HP ProCurve Switch 5400zl 24p 10/100/1000 module	J8702A
	NOTE: This option is available for customers with HP IAP Base Hardware A7970D, A7970E and A7970G only.	

Please note that all the above products may be required for HP IAP Expansion Racks.

Form Factor	42U rack configuration	
Dimensions	Out of Box (each rack)	78.70 x 24.00 x 39.37 in (2000.00 x 610.00 x 1000.00 mm)
	Shipping (each rack)	85.40 x 32.00 x 48.00 in (2169.20 x 812.80 x 1219.20 mm)
Weight	Out of Box (each rack)	Base System (A7970G) 800 lbs (362 kg)
	Shipping (each rack)	Base System (A7970G) 831 lbs (377 kg)
Internal Cables	Required/Supported	All power and interconnect cables included in base rack configuration and upgrade options.

HP Warranty and Technical Support

External Cables	Required/Supported	Two (2) NEMA L6-30 power plugs are included. Various countries require different plug configurations and require customization.				
Input Requirements	Nominal Line Voltage	220 to 240 VAC				
	Range Line Voltage	180 to 265 VAC				
	Line Frequency	50 to 60Hz				
	Rated Input Current	118.6A (220V)				
Power Cord Receptacle	Country dependent - contact HP for details					
Power Requirement	Connected to the facility input or to a high voltage UPS. Must be installed by a certified on-site electrician in accordance with the local electrical installation codes. System includes 2ea rack mounted PDU HV units (24A US/Japan and 32A International).					
Power Consumption and BTU Rating/Heat Dissipation	Description	Part Number	Total System VA Rating	Total System BTU/HR	Total Input System Current AMPS	Total Wattage
	HP IAP Base Hardware	A7970G	3330	8761	15.1	2569
	HP IAP Universal Smart Storage Cell Capacity Upgrade (pair)	AG442G	581	1864	2.6	547
	HP IAP Backup Option Hardware	A7979G	151	468	0.7	137
	HP IAP Expansion Rack	A5660F	484	712	2.2	210
	HP IAP Database Server	BK847G	165	523	0.8	153
	HP IAP Database Performance Upgrade	BK848G	211	685	1.0	201
	HP IAP Query Portal Performance Upgrade	A5662GQ	158	493	0.7	145
	HP IAP Store Portal Performance Upgrade	A5662GS	154	481	0.7	141
	HP IAP Replication Performance Upgrade	A6580G	309	963	1.4	282
	HP IAP Expansion Capacity Performance Upgrade	AG770G	312	975	1.4	286
	HP IAP Exchange Archiving Gateway	A7977G	154	481	0.7	141

HP Warranty and Technical Support

	HP IAP Domino Archiving Gateway	A7978G	196	631	0.9	185
Network Interfaces	1 x iLO configured for all servers (proxy or direct) 2 x 1 Gigabit Ethernet for all servers 3 x 1 Gigabit Ethernet for HP IAP Replication Performance Upgrade Option					
Network Protocol Support	HTTP, SNMP, SMTP, TCP/IP					
Maximum capacity per IAP	Maximum capacity of 1065 TB with 21 fully populated expansion racks.					
Maximum Performance incoming messages	Up to 2 million messages per day at 50KB average message size for the standard HP Base Hardware (A7970G) configuration: Additional message throughput performance can be configured by adding Universal Smart Storage Cells (AG442G) and HP IAP Store Portal Performance Upgrades (A5662GS).					
Maximum Performance message retrievals	Up to 240 simultaneous messages per standard HP IAP Base Hardware configuration (A7970G). The number of simultaneous message retrievals can be increased by adding HP IAP Query Portal Performance Upgrades (A5662GQ).					
Reliability Features	Each Universal Smart Storage Cell in a group is synchronously mirrored and is RAID-6 (ADG). Additional copies of the data are available with the HP IAP Backup Option (A7979G) or locally or remotely with the HP IAP Replication Option (T3566E).					
Environment	Relative Humidity (non-condensing)	Operating	10% to 90%			
		Shipping	5% to 95%			
	Nominal Airflow	2474 cfm				
	Altitude	The maximum operating temperature should be decreased by 0.5°C for each 300-meter increase in altitude, up to 3,000 meters.				
	Air Quality	Data center Controlled environment				
Temperature	Operating	50° to 90° F (10° to 35° C)				
	Shipping	-22° to 122° F (-30° to 50° C)				
Standards Compliance	Safety	UL 60950:2000 CSA 22.2 No. 60950-00 IEC 60950-1: 2001 EN 60950-1: 2000 IEC 60825-1: 1993 / EN 60825-1 : 1994 - Class 1				
	EMC	CISPR 22:1997/EN 55022:1998 FCC Title 47 CFR, Part 15 20780 Supplement B IEC 61000-3-2:1995 / A1:1997 / A2:1998 / EN 61000-3-2:1995 / A1:1998 / A2:1998 IEC 61000-3-3:1994 / EN 61000-3-3:1995 CISPR 24:1997/EN 55024:1998				

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