

# HP Integrated Archive Platform

## Release 2.0

# Support Matrix

Part number: PDF  
First edition: July 1, 2008





## Support matrix release history

Revision	Date	Edited By	Change description
D	4/18/2008	Ronald Brown	Updated for IAP 2.0
C	9/17/2007	Josline Ferguson	Updated for Release 1.5.0.4 (Document indexing support for Microsoft Office 2007)
B	7/31/2007	Ronald Brown	Updated for Release 1.6
A	7/26/2006	R. Serafini	Updated to reflect Release 1.5

This support matrix provides the following information:

- [IAP release history](#)
- [IAP hardware/software platform](#)
- [IAP/EAs applications](#)
- [IAP platform: Infrastructure services](#)
  - [Dynamic Account Synchronization \(DAS\)](#)
  - [Web browser support](#)
  - [IAP backup options](#)
  - [Miscellaneous notes](#)
    - [Network](#)
    - [Localization and supported character sets](#)
    - [IAP indexing support](#)
    - [Additional indexing detail/limitations for Microsoft Office](#)
    - [Saved query limitations](#)

## IAP release history

Release	Date	Major features
2.0	CTS July 1, 2008	<ul style="list-style-type: none"> <li>• New name (IAP) formally changed in product</li> <li>• Universal SmartCell size increased to 2.1 TB</li> <li>• Folder capture support for Email Archiving software for Exchange 2.0</li> <li>• Retention Manager flexibility</li> <li>• All storage capacities in PCC shown in Base10</li> <li>• Background Duplicate Manager</li> <li>• Support for new DL320G5 servers</li> <li>• TSM upgrade to version 5.5 (backup option)</li> <li>• Support for EAsE Outlook Integrated Archive Search</li> </ul>
1.5.0.4	September 2007	Document indexing support for Microsoft Office 2007 introduced in IAP 1.5.0.4 software patch. (See <a href="#">IAP indexing support</a> for details.) Users moving to IAP 1.6 need upcoming IAP 1.6.1 patch for similar support.
1.6	July 2007	<ul style="list-style-type: none"> <li>• New Universal SmartCell –1.4 TB (useable). Can be used where 850 GB and 1.4 TB SmartCells are required.</li> <li>• RAID-6 (ADG) protection per SmartCell.</li> <li>• New DL320 and DL320s platform to ease supportability and spare availability. Management servers all have redundant disks.</li> <li>• Low-cost Base system provides a platform which can be scaled multi-dimensionally.</li> <li>• Increase in performance over previous generation hardware – new dual-core Intel processors.</li> <li>• Localization framework. Initially supports the following translations: Spanish, German, French, Portuguese, Chinese (Mainland), Chinese (Taiwan), Japanese, Korean</li> <li>• Internationalization framework: Supports multi-byte character sets. (See below for a full list.)</li> </ul>
1.5	July 2006	<ul style="list-style-type: none"> <li>• SmartCell capacity upgrade to 1.4 TB (useable)</li> <li>• RAID-5 protection per SmartCell</li> <li>• Enhanced PCC UI (meets HP GUIDO specifications)</li> <li>• Upgrade to 10/100/1000 ProCurve switch</li> <li>• Enhanced SNMP management</li> <li>• PAM replaced with AM (Account Manager) and integrated into the PCC (Platform Control Center)</li> </ul>
1.4	March 2006	<ul style="list-style-type: none"> <li>• Object-delete API</li> <li>• Refresh of IAP server components</li> <li>• OWA (tombstone/stubbing support)</li> </ul>
1.2	June 2005	<ul style="list-style-type: none"> <li>• Repository-based retention</li> <li>• Quarantine repository</li> <li>• Record reprocessing</li> <li>• Audit Log for IAP Web UI</li> </ul>
1.1	February 2005	<ul style="list-style-type: none"> <li>• SmartCell capacity upgrade to 850 GB (useable)</li> <li>• Indexing support for Asian language (double-byte) character sets</li> </ul>
1.0	May 2004	Product launch

# IAP hardware/software platform

**Table 1 IAP hardware/software**

Hardware version	IAP software version supported	Hardware SKU	General description SmartCell/ Base (#SC)
1.0	1.4, 1.5.0.3+, 1.6.1, 2.0	A5659A/ A7524A	400 GB/1.2 TB (3x)
1.1	1.4, 1.5.0.3+, 1.6.1, 2.0	A5659A/ A7524A	400 GB/1.2 TB (3x)
1.2	1.4, 1.5.0.3+, 1.6.1, 2.0	A7970A	850 GB/1.7 TB (2x)
1.4	1.4, 1.5.0.3+, 1.6.1, 2.0	A7970B	850 GB/1.7 TB (2x)
1.5	1.4, 1.5.0.3+, 1.6.1, 2.0	A7970C	1.4 TB/2.8 TB (2x)
1.6	1.4, 1.5.0.3+, 1.6.1, 2.0	A7970D	1.4 TB/1.4 TB (1x) Base rack supports up to 4.2 TB (3x) SmartCells
2.0	1.4, 1.5.0.3+, 1.6.1, 2.0	A7970E	2.1 TB/2.1 TB (1x) Base rack supports up to 6.3 TB (3x) SmartCells

## IAP/EAs applications

See appropriate Email Archiving software support matrices for additional EAs details such as client compatibility and Exchange and Domino server compatibility.

**Table 2 IAP Software compatibility with HP IAP connector products**

IAP software version	EAs Exchange	EAs Domino	FMA
2.0	2.0	See Note 1	FMA 2.1 or higher 1.47 GB file size limitation See Note 2
1.6	1.5.0100	See Note 1	FMA 2.0.3 or higher 1.47 GB file size limitation See Note 2
1.5	1.5.x	1.5	FMA 2.0.3 or higher 1.47 GB file size limitation See Note 2.
1.4	1.4	1.4	FMA 2.0.3 or higher 1.47 GB file size limitation See Note 2

**Note 1** See the HP EAs Domino support matrix and release notes for details on EAs Domino support.

**Note 2** See the FMA compatibility matrix for more details on supported FMA configurations.

# IAP platform: Infrastructure services

## Dynamic Account Synchronization (DAS)

IAP Dynamic Account Synchronization (DAS) creates user repositories in IAP dynamically by synchronizing with the Lightweight Directory Access Protocol (LDAP).

- Synchronization of user accounts (and their associated email aliases) is supported in Microsoft Exchange and Lotus Domino environments.
- Group objects are **not** supported for Microsoft Active Directory or Domino Directory.
- Simple (clear text) LDAP authentication is supported for Microsoft Active Directory running on Windows 2000 and 2003 servers.
- Simple (clear text) LDAP authentication is supported for Domino Directory running on the HP Domino Archive Gateway.
- Simple over SSL (secure) authentication is supported for Microsoft Active Directory running on Windows 2000 and 2003 servers.

## Domino support

See the HP EAs Domino support matrix and release notes for more details on EAs Domino support.

## Support for NTLM v2

Support for NTLM v2 authentication is by special arrangement only. Contact your HP account representative for details.

## Web browser support

The following table shows tested browser support for the IAP Web Interface and the Platform Control Center.

For OWA (Outlook Web Access) Extension support, see the HP EAs Exchange support matrix.

**Table 3 Browser support**

Browser	Version	Service pack	Supported client OS	Browser requirements	Display requirement
Microsoft Internet Explorer (IE) (Recommended)	6.0, 7.0	1	Microsoft Windows 2000, Windows Server 2003, Windows XP, and Windows Vista	Browser: Cipher length 128 bits (minimum) Internet option: Javascript v 1.0 or v 1.1 enabled	Minimum requirement: 1024 x 768 @ 16 bit color depth
Firefox	1.5.1, 2.0	N/A			

## IAP backup options

### Overview

The IAP supports two backup options:

- A7979ES: HP IAP Backup Solution SCSI (single-channel and dual-channel LVD SCSI card)
- A7979EF: HP IAP Backup Solution Fibre Channel (dual-channel 4 GB Fibre Channel card)

These options currently use the Tivoli Storage Manager (TSM) version 5.5 backup application. The tables in [LTO tape libraries and tape drives](#) list the HP LTO Ultrium drives and libraries that are supported by this specific version of TSM. For a complete list of other vendors and other HP devices supported, check the official TSM support matrix (which includes library sharing and virtual tape libraries): [www-306.ibm.com/software/sysmgmt/products/support/IBM\\_TSM\\_Supported\\_Devices\\_for\\_AIXH\\_PSUNWIN.html](http://www-306.ibm.com/software/sysmgmt/products/support/IBM_TSM_Supported_Devices_for_AIXH_PSUNWIN.html)



**NOTE:**

Vaulting (off-site tape copies) is no longer supported. All tapes must remain in the library and the library must be sized according to the expected volume of data ingested over the life of the library.

Hardware compression is not supported or needed, as the IAP already performs software data compression on disk.

**Table 4 Tape drive and technology support matrix**

Tape drive	Using an HP device	Using a non-HP device
DAT, DLT, Super-DLT, VTL, LTO1, LTO2, LTO3, LTO4 single-drive	Use single-channel SCSI card option	Use single-channel SCSI card option
LTO3, LTO4 multi-drive	Order Fibre Channel instead OR install and use dual-channel SCSI card option	Order Fibre Channel instead (libraries that don't support FC are unsupported) See Note 1

**Note 1** If using more than one LTO3 or LTO4 drive with SCSI interface, only HP MSL libraries are supported.

**Examples: Sizing tape library**

The library must be sized according to the amount of data that the archive is expected to ingest during the life of the library.

- Customer has library for 3 years. During those 3 years, it ingests 6 TB of data. Customer needs to purchase a library with 6 TB capacity.  
Ingested data volume = 6 TB; customer must have library capacity for 6 TB (in-library)  
If using LTO3 technology, customer needs 6 TB (6,000 GB/400 GB) = Library with 15 Slots (for data backup + 2 slots for application backup) = 17 slots minimum
- Ingested data volume = 12 TB; customer must have enough library capacity for 12 TB (in-library)  
If using LTO3 technology, customer needs 12 TB (12,000 GB/400 GB) = Library with 30 Slots (for data backup + 2 slots for application backup) = 32 slots minimum

**Table 5 Tape technology sizes**

Uncompressed	
LTO2	200 GB
LTO3	400 GB
LTO4	800 GB

Note on backup methodology: A full backup is taken when backups are first initialized (typically, at install time). After that, incremental backups are then run indefinitely. (All tapes must remain in the library at all times.)

## LTO tape libraries and tape drives

Library Sharing and LAN-Free Client Data Transfer are compatible with these library changers.

The IAP backup option does not currently support standalone tape drives.

**Table 6 LTO tape libraries**

Device	Capacity	Support
HP EML E-Series	16 Drives 505 Slots	Supported
HP ESL 9322 Multi-unit scalability is supported up to 5 modules.	8 Drives 322 Slots	Supported
HP ESL 9595 (Ultrium 230) Multi-unit scalability is supported up to 4 modules.	16 Drives 595 Slots	Supported
HP ESL E-Series 322e	24 Drives 322 Slots	Supported
HP ESL E-Series 712e	24 Drives 712 Slots	Supported
HP MSL 2024	2 Drives 24 Slots	Supported
HP MSL 4048	2 Drives 48 Slots	Supported
HP MSL 5030	2 Drives 29 Slots	Supported
HP MSL 5060	4 Drives 59 Slots	Supported
HP MSL 6030	2 Drives 30 Slots	Supported
HP MSL 6060	4 Drives 60 Slots	Supported
HP MSL 8096	4 Drives 96 Slots	Supported
HP 1/8 G2 Autoloader	1 Drive 8 Slots	Supported
HP StorageWorks 1/8 Ultrium 230	1 Drive 8 Slots	Supported
HP StorageWorks 1/8 Ultrium 460	1 Drive 8 Slots	Supported
HP StorageWorks 1/8 Ultrium 960	1 Drive 8 Slots	Supported
HP StorageWorks SSL1016	1 Drive 16 Slots	Supported
HP SureStore 1/9	1 Drive 9 Slots	Supported
HP SureStore 10/100	10 Drives 100 Slots	Supported
HP Surestore 2/20	2 Drives 20 Slots	Supported
HP Surestore 4/40	4 Drives 40 Slots	Supported
HP Surestore 6/100	6 Drives 100 Slots	Supported
HP Surestore 6/120	6 Drives 120 Slots	Supported
HP Surestore 6/140	6 Drives 140 Slots	Supported
HP Surestore 6/60	6 Drives 60 Slots	Supported
HP Surestore 8/80	8 Drives 80 Slots	Supported
HP Surestore E 10/180	10 Drives 174 Slots	Supported
HP Surestore E 20/700	20 Drives 678 Slots	Supported



**Table 7 LTO tape drives**

Device	Capacity	Support
HP Ultrium 215	100 GB	Supported
HP Ultrium 230	100 GB	Supported
HP Ultrium 232	100 GB	Supported
HP Ultrium 448	200 GB	Supported
HP Ultrium 460	200 GB	Supported
HP Ultrium 920	400 GB	Supported
HP Ultrium 920 WORM	400 GB	Supported
HP Ultrium 960	400 GB	Supported
HP Ultrium 960 WORM	400 GB	Supported
HP Ultrium 1840	800 GB	Supported

## Miscellaneous notes

### Network

Internally, the IAP uses subnet 10.0.0.0/16 (10.0.0.0 through 10.0.255.255), which causes a conflict when connected to a customer network using the same subnet. An external NAT device is required for the IAP to function properly in these environments. This NAT device is not supplied with the IAP.

### Localization and supported character sets

The table below lists the languages in which the IAP components and documentation are localized.

**Table 8 Localization**

Component/document	Languages
IAP Web Interface	English, French, German, Spanish, Portuguese (Portugal), Japanese, Korean, Simplified Chinese, Traditional Chinese
IAP PCC administration user interface	English
IAP User Guide and IAP Web Interface online help	English, French, German, Spanish, Portuguese (Portugal), Japanese
IAP Administrator Guide	English, Japanese
IAP Installation Guide	English

The table below lists the character sets that are supported for messages archived by the IAP.

**Table 9 IAP character set support**

Supported character set	Description
ISO-8859-1	Western European, extended ASCII
ISO-8859-15	Western European, variant of ISO-8859-1
WINDOWS-1252	Western European (Windows variant of ISO-8859-1)
US-ASCII	7-bit American Standard Code for Information Interchange
UTF-8	Unicode/Universal Character Set (all modern languages)
ISO-8859-2	Eastern European
KOI8-R	Cyrillic (Russian and Bulgarian)
ISO-8859-5	Cyrillic (Bulgarian, Belarusian, Russian)
WINDOWS-1251	Cyrillic
WINDOWS-1254	Turkish (Windows variant of ISO-8859-9)
ISO-8859-9	Turkish
GB18030	Chinese (Mainland)
BIG5	Chinese (Taiwan)
GB2312	Chinese (Mainland)
GBK	Chinese, simplified extension of GB2312 (Mainland)
ISO-2022-KR	Korean
EUC-KR	Korean
KS_C-5601-1987	Korean
ISO-2022-JP	Japanese
EUC-JP	Japanese
SHIFT-JIS	Japanese

## IAP indexing support

The IAP provides full-content indexing for a specific range of document types (MIME types), which are listed in the table below. It can index documents and email attachments. An email message can be simple and comprise a single part, or it can contain multiple parts. Each of these parts can be plain text or some richer file format. The sender's email client is expected to correctly provide the MIME content type for each such part as it is created/attached. File-based agents such as FMA also provide similar identification.

The IAP expects that the provided MIME content type is correct, and selects the appropriate file format extractor based on the content type. Note that while parts can also have names, and the names can have extensions, the extensions are ignored for the purposes of selecting an appropriate extractor for the file format.

An email message that is entirely plain text, not MIME, is also indexed.

**Limitation:** If an email message is attached to another email message, the attached email message is not indexed.

**Table 10 IAP indexed file types**

<b>File extension</b>	<b>File type</b>	<b>MIME type</b>
.xml	XML document	text/xml
.txt	Plain text file; treated as ISO-8859-1 unless otherwise specified	text/plain
.htm, .html, .stm	HTML document	text/html, rtf/html
.rtf	Rich text format	rtf/text, application/rtf
.mht, .mhtml, .nws, .eml	Email message	message/rfc822
.doc, .dot	Microsoft Word 97-2003 document	application/msword
.xla, .xlc, .xlm, .xls, .xlt, .xlw	Microsoft Excel 97-2003 document	application/vnd.ms-excel, application/ms-excel
.pot, .pps, .ppt	Microsoft PowerPoint 97-2003 document	application/vnd.ms-powerpoint, application/vnd.mspppt
.pdf	Adobe Portable Document format	application/pdf
.zip	ZIP archive	application/zip
.docx	Microsoft Word 2007 document	application/vnd.openxmlformats-officedocument.wordprocessingml.document
.docm	Microsoft Word 2007 macro-enabled document	application/vnd.ms-word.document.macroEnabled.12
.dotx	Microsoft Word 2007 template	application/vnd.openxmlformats-officedocument.wordprocessingml.template
.dotm	Microsoft Word 2007 macro-enabled document template	application/vnd.ms-word.template.macroEnabled.12
.xlsx	Microsoft Excel 2007 workbook	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
.xlsm	Microsoft Excel 2007 macro-enabled workbook	application/vnd.ms-excel.sheet.macroEnabled.12
.xltx	Microsoft Excel 2007 template	application/vnd.openxmlformats-officedocument.spreadsheetml.template
.xltm	Microsoft Excel 2007 macro-enabled workbook template	application/vnd.ms-excel.template.macroEnabled.12
.xlam	Microsoft Excel 2007 add-in	application/vnd.ms-excel.addin.macroEnabled.12
.pptx	Microsoft PowerPoint 2007 presentation	application/vnd.openxmlformats-officedocument.presentationml.presentation
.pptm	Microsoft PowerPoint 2007 macro-enabled presentation	application/vnd.ms-powerpoint.presentation.macroEnabled.12
.ppsx	Microsoft PowerPoint 2007 slide show	application/vnd.openxmlformats-officedocument.presentationml.slideshow

<b>File extension</b>	<b>File type</b>	<b>MIME type</b>
.ppsm	Microsoft PowerPoint 2007 macro-enabled slide show	application/vnd.ms-powerpoint.slideshow.macroEnabled.12
.potx	Microsoft PowerPoint 2007 template	application/vnd.openxmlformats-officedocument.presentationml.template
.potm	Microsoft PowerPoint 2007 macro-enabled presentation template	application/vnd.ms-powerpoint.template.macroEnabled.12

## Additional indexing detail/limitations for Microsoft Office

**Table 11 Microsoft Office supported features**

<b>Type</b>	<b>Feature</b>	<b>Office 97–2003</b>	<b>Office 2007</b>
<b>Microsoft Word</b>	Contents	Yes	Yes
	Table	Yes	Yes
	Textbox	Yes	Yes
	Header/Footer	Yes	Yes
	FootNote/EndNote	Yes	No
	Comment	Yes	No
	Signature	No	No
	Chart	No	Yes
	Object (Microsoft Office, WordPad)	No	No
	OLE	Yes	Yes
	WordArt	No	No
<b>Microsoft PowerPoint</b>	Contents	Yes	Yes
	Table	Yes	Yes
	Textbox	Yes	Yes
	Header/Footer	Yes	Yes
	Comment	No	No
	Signature	No	No
	Chart	No	No
	Object (Microsoft Office, WordPad)	No	No
	OLE	Yes	Yes
	Notes	No	No
	WordArt	No	No

Type	Feature	Office 97–2003	Office 2007
Microsoft Excel	Contents	Yes	Yes
	Table	Yes	Yes
	Textbox	No	Yes
	Header/Footer	No	No
	Comment	No	No
	Signature	No	No
	Chart	No	No
	Object (Microsoft Office, WordPad)	No	No
	OLE	Yes	Yes
	WordArt	No	No
	Sheet's name	No	No

**Table 12 Microsoft Office supported properties**

Type	Property	Microsoft Word, PowerPoint, and Excel
Document Properties	Author	Yes
	Title	Yes
	Subject	Yes
	Keywords	Yes
	Category	Yes
	Status	Yes
	Comments	Yes
	Location	No
Advanced Properties: General	Type	No
	Location	No
	Size	No
	MS-DOS name	No
	Created	No
	Modified	No
	Accessed	No
Attributes	No	

<b>Type</b>	<b>Property</b>	<b>Microsoft Word, PowerPoint, and Excel</b>
Advanced Properties: Summary	Title	Yes
	Subject	Yes
	Author	Yes
	Manager	No
	Company	No
	Category	Yes
	Keywords	Yes
	Comments	Yes
	Hyperlink base	No
	Template	No
Advanced Properties: Statistics	Created	No
	Modified	No
	Accessed	No
	Printed	No
	Last saved by	Yes
	Revision number	Yes
	Total Editing Time	No
	Statistics	Word, PowerPoint: No Excel: N/A
Advanced Properties: Contents	Document Contents	No
Advanced Properties: Custom	Checked by	Yes
	Client	Yes
	Date completed	Yes
	Department	Yes
	Destination	Yes
	Disposition	Yes
	Division	Yes
	Document number	Yes
	Editor	Yes
	Forward to	Yes

Type	Property	Microsoft Word, PowerPoint, and Excel
Advanced Properties: Custom (continued)	Group	Yes
	Language	Yes
	Mailstop	Yes
	Office	Yes
	Owner	Yes
	Project	Yes
	Publisher	Yes
	Purpose	Yes
	Received from	Yes
	Recorded by	Yes
	Recorded date	Yes
	Reference	Yes
	Source	Yes
	Status	Yes
	Telephone number	Yes
Typist	Yes	

### Saved query limitations

The IAP can save query results for subsequent reload, legal hold, and/or export. In IAP 2.0, the maximum number of result entries that can be saved at any one time, for all queries for all users, is approximately 5 million. If this limit is reached, some queries must be deleted before new query results can be saved.