

HP Integrated Archive Platform

Support Matrix

HP Virtual Integrated Archive Platform (VIAP)



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Support matrix release history

Date	Description
8/29/2011	Virtual Integrated Archive Platform (VIAP) 2.1.3 release
3/15/2011	Virtual Integrated Archive Platform (VIAP) 2.1.2 release

This support matrix provides the following information:

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VIAP release history

Release	Date	Major features
VIAP 2.1.3	August 2011	Support for replication
VIAP 2.1.2	March 2011	<ul style="list-style-type: none">• Support for ESXi server deployments• Support for IAP 2.1.2 and EAsE 2.2.x hosts running in virtual machines• Qualification of virtualized SAN/DAS Smartcell storage

Hardware requirements

A base virtual VIAP is comprised of 11 systems: a Smartcell group, Archive Gateway server, firewall, load balancer, HTTP portal, SMTP portal, metaserver, cloud router, database server, PCC, and kickstart server. The base system can be expanded to include additional servers/virtual machines; for example, additional gateways and portal servers. The VIAP does not include a customer's email servers, clients, or servers running Active Directory.

A base VIAP system can be deployed on servers or blade systems. Hardware configurations, such as multiple physical hosts, can be used. The actual physical infrastructure that is used to deploy a VIAP will vary between customer environments and depends on the existing hardware in those environments. The fundamentals of running a virtual environment remain the same for each type of configuration.

The base VIAP system must be deployed on hardware with the following minimum resources:

- Dual quad core processor (2.9 GHz or more)
- 32 GB RAM (one Smartcell group) or an additional 8 GB for each additional Smartcell group (4 GB per Smartcell)
- 5 TB disk space (one Smartcell group) or an additional 4 TB for each additional Smartcell group
- One Network Interface Card (NIC) for users to access the VIAP
(Two NICs can be used if users and administrator are on separate networks)
- If SAN/DAS storage is used, SAN/DAS speed of 2 Gbps

The hardware configuration above supports a maximum of three Smartcell groups. The maximum number of Smartcells, portals and Archive Gateway virtual machines that can be supported depends on the specific hardware configuration used for VIAP deployment.

 **NOTE:**

VIAP software should not be installed in non-virtual IAP environments.

Storage requirements

- **Smartcells** — It is mandatory to use two separate datastores for a Smartcell group to keep the primary and secondary Smartcell data in separate physical storage. Additionally, the logical units (LUNs) created for these datastores must be allocated on different physical disks to accomplish storage redundancy.
- **Replication** — It is mandatory to have the primary and replica VIAPs on different ESXi hosts, with the VIAP internal networks isolated from each other. Additionally, the primary and replica VIAPs should use different VMware datastores provisioned on separate storage devices.

VMware requirements

VMware requirements are:

- VMware vCenter v4.1
- VMware ESXi v4.1
- VMware vSphere Client v4.1
- VMware vSphere PowerCLI v4.1
- Microsoft PowerShell 2.0

VIAP/EAs/FAs applications

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

Table 1 IAP Software compatibility with HP IAP connector products

VIAP software version	EAs Exchange	EAs Domino	FAs
2.1.3, 2.1.2	2.2	EAsD 2.1, also see Note 1	File Archiving software (FAs) 2.5.2, also 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 HP FAs compatibility matrix for more details on supported FAs configurations.

IAP platform: Infrastructure services

Dynamic Account Synchronization (DAS)

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

- Synchronization of user accounts (and their associated email aliases) is supported in Microsoft Exchange.
- Groups are not supported for Microsoft Active Directory.
- Simple (clear text) LDAP authentication is supported for Microsoft Active Directory running on Windows 2000, 2003, and 2008 servers.
- Simple over SSL (secure) authentication is supported for Microsoft Active Directory running on Windows 2000, 2003, and 2008 servers.

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 2 Browser support

Browser/Version	Supported client OS	Browser requirements	Display requirement
Microsoft Internet Explorer (IE) 7.0	Microsoft Windows XP Professional - SP 2	Cipher strength 128-bit Internet option: JavaScript v 1.0 or v 1.1 enabled	Minimum requirement: 1024 x 768 @ 16 bit color
Microsoft Internet Explorer (IE) 7.0	Microsoft Windows XP Professional - SP 3	Cipher strength 128-bit Internet option: JavaScript v 1.0 or v 1.1 enabled	Minimum requirement: 1024 x 768 @ 16 bit color

Browser/Version	Supported client OS	Browser requirements	Display requirement
Microsoft Internet Explorer (IE) 8.0	Microsoft Windows XP Professional - SP 2	Cipher strength 128-bit Internet option: JavaScript v 1.0 or v 1.1 enabled	Minimum requirement: 1024 x 768 @ 16 bit color
Mozilla Firefox 3.58	Microsoft Windows XP Professional - SP 2	Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.1.8) Gecko/20100202 Firefox/3.5.8 (.NET CLR 2.0.50727) Internet option: JavaScript v 1.0 or v 1.1 enabled	Minimum requirement: 1024 x 768 @ 16 bit color

IAP features disabled for VIAP

The following IAP features have been disabled or will not work in VIAP.

- **iLO** – Since the IAP is operating in a virtual environment, there is no physical iLO interface and iLO scripts should not be used. The VMware vSphere Client provides console KVM access and virtual CD/DVD features that you can use instead of the similar features provided by iLO.
- **Hardware monitoring** – Built-in IAP hardware monitoring features do not apply in a virtual environment. Use VMware monitoring functions instead.
- **PCC UI Hardware Management page** – The Hardware Management page on the PCC UI is not available since hardware specific features like iLO and access to the System Management homepage do not work in the virtual environment.
- **Backup server** – Any attempt to configure an IAP backup server in the VIAP `BlackBoxConfig.bct` file will result in converter/regloader errors. To backup the IAP virtual machine disks, choose backup enterprise storage processes and solutions. We recommend that customers plan for sufficient backup as the VIAP does not include a backup option as part of the product.

Miscellaneous notes

Localization and supported character sets

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

Table 3 Localization

Component/document	Languages
IAP Web Interface	English, French, German, Spanish, Portuguese (Portugal and Brazil), Japanese, Korean, Simplified Chinese, Traditional Chinese
IAP PCC administration user interface	English
IAP User Guide and IAP Web Interface online help	English (Online help and French, German, Spanish, Portuguese for Portugal, Portuguese for Brazil, and Japanese User Guides not updated for VIAP currently)

Component/document	Languages
IAP Administrator Guide	English (Japanese not updated for VIAP currently)
IAP Installation Guide	English

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

Table 4 VIAP 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.

Table 5 IAP indexed file types

File extension	File type	MIME type
.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/RFC 822
.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

File extension	File type	MIME type
.xltx	Microsoft Excel 2007 template	application/vnd.openxmlformats-officedocument.spreadsheetml.template
.xltn	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
.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
.tnef	Microsoft Exchange Specific	ms/tnef
.wpd	WordPerfect	application/wordperfect
.qpw	Quattro Pro for Windows	application/x-quattro-pro
.shw	Novell/Corel Presentations	application/presentations

 **NOTE:**

IAP does not currently support indexing of embedded TNEF attachments such as a TNEF embedded within another TNEF, an attached mime multipart email, or a zip archive.

Additional indexing detail/limitations for Microsoft Office

The tables below list the Microsoft Office features and document properties that are indexed (and not indexed) by IAP 2.1. Indexed features and properties can be used in Web Interface searches.

The tables cover Microsoft Office versions 97–2003 and 2007.

Table 6 Microsoft Office supported features

Feature	Microsoft Word	Microsoft PowerPoint	Microsoft Excel
Contents	Yes	Yes	Yes
Table	Yes	Yes	Yes

Feature	Microsoft Word	Microsoft PowerPoint	Microsoft Excel
Textbox	Yes	Yes	Yes
Header/Footer	Yes	Yes	Yes
Comment	Yes	PowerPoint 97-2003: Yes PowerPoint 2007: No	Excel 97-2003: Yes Excel 2007: No
FootNote/EndNote	Yes	N/A	N/A
Signature	Yes	No	Excel 97-2003: Yes Excel 2007: No
Chart	Yes	Yes	Yes
Object (Microsoft Office, WordPad ...)	Yes	Yes	Yes
Embedded Objects (OLE)	Yes	Yes	Yes
Notes	N/A	Yes	N/A
WordArt	Yes	PowerPoint 97-2003: No PowerPoint 2007: Yes	Yes
SmartArt	Word 97-2003: No Word 2007: Yes	PowerPoint 97-2003: No PowerPoint 2007: Yes	Excel 97-2003: No Excel 2007: Yes
Sheet's name	N/A	N/A	Excel 97-2003: Yes Excel 2007: No

Table 7 Microsoft Office supported properties

Type	Property	Microsoft Word	Microsoft PowerPoint	Microsoft Excel
Document Properties	Author	Yes	Yes	Yes
	Title	Yes	Yes	Yes
	Subject	Yes	Yes	Yes
	Keywords	Yes	Yes	Yes
	Category	Yes	Yes	Yes
	Status	Yes	Yes	Yes
	Comments	Yes	Yes	Yes
	Location	No	No	No

Type	Property	Microsoft Word	Microsoft PowerPoint	Microsoft Excel
Advanced Properties: General	Type	No	No	No
	Location	No	No	No
	Size	No	No	No
	MS-DOS name	No	No	No
	Created	No	No	No
	Modified	No	No	No
	Accessed	No	No	No
	Attributes	No	No	No
Advanced Properties: Statistics	Created	No	No	No
	Modified	No	No	No
	Accessed	No	No	No
	Printed	Yes	Yes	Yes
	Last saved by	Yes	Yes	Yes
	Revision number	Word 97-2003: No Word 2007: Yes	PowerPoint 97-2003: No PowerPoint 2007: Yes	Excel 97-2003: No Excelt 2007: Yes
	Statistics	No	No	No
Advanced Properties: Custom	Checked by	Yes	Yes	Yes
	Client	Yes	Yes	Yes
	Date completed	Yes	Yes	Yes
	Department	Yes	Yes	Yes
	Destination	Yes	Yes	Yes
	Disposition	Yes	Yes	Yes
	Division	Yes	Yes	Yes
	Document number	Yes	Yes	Yes
	Editor	Yes	Yes	Yes

Type	Property	Microsoft Word	Microsoft PowerPoint	Microsoft Excel
	Forward to	Yes	Yes	Yes
	Group	Yes	Yes	Yes
	Language	Yes	Yes	Yes
	Mailstop	Yes	Yes	Yes
	Office	Yes	Yes	Yes
	Owner	Yes	Yes	Yes
	Project	Yes	Yes	Yes
	Publisher	Yes	Yes	Yes
	Purpose	Yes	Yes	Yes
	Received from	Yes	Yes	Yes
	Recorded by	Yes	Yes	Yes
	Recorded date	Yes	Yes	Yes
	Reference	Yes	Yes	Yes
	Source	Yes	Yes	Yes
	Status	Yes	Yes	Yes
	Telephone number	Yes	Yes	Yes
	Typist	Yes	Yes	Yes
Advanced Properties: Contents	Document Contents	No	No	No
Advanced Properties: Summary	Title	Yes	Yes	Yes
	Subject	Yes	Yes	Yes
	Author	Yes	Yes	Yes
	Manager	Yes	No	Yes
	Company	Yes	No	Yes
	Category	Yes	Yes	Yes
	Keywords	Yes	Yes	Yes

Type	Property	Microsoft Word	Microsoft PowerPoint	Microsoft Excel
	Comments	Yes	Yes	Yes
	Hyperlink base	Word 2007: Yes Word 97–2003: No	PowerPoint 97-2003: No PowerPoint 2007: Yes	Excel 97–2003: No Excel 2007: Yes
	Template	Word 2007: Yes Word 97–2003: No	No	No

Saved query limitations

The IAP can save query results for subsequent reload, legal hold, and/or export. 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.

