FAs Compatibility Matrix

Platform Supported 2
Operating System Supported [4] 3
Virtualization Support 4
System Configuration Support 5
Supported File Systems 5
Supported Target Devices 5
Backup Software Support 7
Anti-Virus Support 8
Defragmentation Support 8
Multi-pathing Software Support 9
Quota Management Support 9
Network File System (NFS) Support 9
Microsoft 2003 Volume Shadow Copy Service (VSS) 10
FAs Size Limitations 10
Unsupported Software 12

HP File Archiving software (FAs)

(Formerly known as File Migration Agent or FMA)

(HP File Archiving software 2.2.7 Build 1545)

Platform Supported

HP File Archiving software version 2.2.7 runs on Windows 32-bit and 64-bit operating system on the following server platform:

- 32-bit Intel Based Processor
- 32-bit AMD Based Processor
- 64-bit Intel Based Processor [1 & 2]
- 64-bit AMD Based Processor [1]

Note 1: FAs 2.2 runs on WOW64 for 64-bit systems. As Microsoft states, "WOW64 is the x86 emulator that allows 32-bit Windows-based applications to run on 64-bit Windows." HP File Archiving software is a 32-bit application.
Note 2: Itanium-based servers are not support by FAs.

Minimum System Requirements for 32-bit systems:

- Intel Xeon ™ 3.60 GHz 32-bit processor (or) AMD-Athlon ™ 1000 32-bit processor
- 1 GB of Total RAM
- Microsoft Windows Server 2003 SP2
- At least 10% of your hard drive disk space needs to be free in order for HP File Archiving software to operate properly.

Minimum System Requirement: for x64 bit systems:

- Intel Xeon® processor 5000 sequence (or) AMD-Athlon ™ 64 processors
- 1 GB of Total RAM
- Microsoft Windows Server 2003 SP2
- At least 10% of your hard drive disk space needs to be free in order for HP File Archiving software to operate properly.

Recommended System Requirement 32-bit system:

- Dual Core Intel Xeon 5000 sequence 32-bit processor (or) AMD K6 ™ 2E+ series 32-bit processor
- 4.00 GB of Total RAM or greater
- Microsoft Windows Server 2003 R2 SP2
- At least 10% of your hard drive disk space needs to be free in order for HP File Archiving software to operate properly.

Recommended System Requirement 64-bit system:

- Dual-Core Intel Xeon 5140 2.33 GHz 64-bit Processor (or) AMD Opteron model 2214 HE 2.2 GHz – 2MB L2 dual-core – 64-bit processor
- 4.00 GB of Total RAM or greater
- Microsoft Windows Server 2003 R2 SP2[3]
- At least 10% of your hard drive disk space needs to be free in order for HP File Archiving software to operate properly.

Note 3: FAs 2.2 runs on WOW64 for 64-bit systems. As Microsoft states, "WOW64 is the x86 emulator that allows 32-bit Windows-based applications to run on 64-bit Windows." HP File Archiving software is a 32-bit application.

Operating System Supported [4]

- Microsoft Windows Server 2003 SP2 – 32-bit Standard & Enterprise Edition
- Microsoft Windows Server 2003 SP2 – 64-bit Standard & Enterprise Edition
- Microsoft Windows Server 2003 R2 SP2 – 32-bit Standard & Enterprise Edition [5]
- Microsoft Windows Server 2003 R2 SP2 – 64-bit Standard & Enterprise Edition [5]
- Microsoft Windows Storage Server 2003 R2 SP1 – 32-bit Standard & Enterprise Edition [5 & 6]
- Microsoft Windows Storage Server 2003 R2 SP1 – 64-bit Standard & Enterprise Edition [5 & 6]

Note 4: Microsoft Windows 2000 Server SP 4 will no longer be supported in this or future versions of FAs. Customers using Microsoft Windows 2000 should only upgrade to version 2.1.11.
Note 5: The following Windows features or add-ons are NOT supported by FAs:

- Single Instance Storage (SIS)
- DFS Replication (FRS2)
- DFS Namespaces

Note 6: Windows Unified Data Storage Server (WUDSS) is not supported.
Note 7: Viewing files remotely from a FAs server via Window Vista Explorer using the "Thumbnails" view is not supported. The Windows Vista Explorer ignores the OFFLINE attributes of some files, and this may cause unintentional recalls of files when being viewed as thumbnails.

VMWare Support

FAs and VMWare Environment

While FAs is not specifically tested running in a Guest OS on VMWare products, it should be able to operate in those environments provided that the guest OS meets the criteria of the supported Operating Systems in the FAs Support Matrix. Additionally, FAs only supports NTFS volumes that are locally attached to the host. If issues are encountered running FAs in a supported gest OS, then HP support and our vendor will make an effort to troubleshoot the problem to root cause. If it is determined that FAs is not the cause of the issue, then HP support will inform the customer of their findings and the HP case will be closed.

When using VMWare in production environment, the customer should consider their hardware specification very carefully. The VMWare host server should meet, at a minimum, the Recommended FAs server system requirement. The virtual FMA server should meet, at a minimum, the Minimum FMA server system requirements. Both of these requirements are documented in this matrix.

System Configuration Support

1) Stand-alone configuration (Non-Cluster Support)[9]
2) Microsoft Cluster configuration (using the above supported operating system)[10]

NOTE 9: HP File Archiving software can run in an independent, stand-alone server environment.
NOTE 10: HP File Archiving software supports failover of resources from one node to another node, within active/passive and active/active configurations. Each node has its own FAs-managed volume(s).

Supported File Systems

- HP File Archiving software supports archiving files hosted only within Windows NTFS file systems. FAs does not support file system solutions that ship as part of Symantec Storage Foundation or HP StorageWorks Enterprise File Services Clustered Gateway.

Supported Target Devices

HP Integrated Archive Platform (IAP)[11]

- FAs 2.2 currently supports IAP versions 1.6.x & 2.0.
- The BIBO library version supported with FAs 2.2.7 is 1.0.0.16.
- The maximum file size transfer limitation supported by FAs to RISS is 1.4 GB.

NOTE 11: HP IAP was formerly known as HP Reference Information Storage System, or RISS.

Disk Storage via Common Internet File System (CIFS)

- HP File Archiving software supports archiving files to disk storage via CIFS. Although FAs is storage agnostic, the target disk storage must be attached to a server running on a supported FAs hardware platform and Operating System stated in this document
- HP supports FAs migrating files from a FAs-managed volume to a CIFS share configured on the same system as the FAs-managed volume. It is recommended that backups be done regularly if you choose to configure a local CIFS shared.
- Migration of Macintosh files hosted on FAs managed volumes to any archive is not supported

HP File System Extender (FSE) via File Transfer Protocol (FTP)

- HP File Archiving software supports using FTP to archive files to HP File System Extender. Note that FAs only supports Windows-based FTP servers which contain the supported Windows operating system and the following FTP server:

1) GDS FTP-Server Version 2.0.3 *
2) vsFTPD Version 1.1.x & 1.2.x
3) ProFTPD Version 1.2

* GDS FTP-server is used in parallel with HP File System Extender 3.4.

Backup Software Support

32-bit Backup Software

- BakBone NetVault 7.11
- CA ARCserve Backup 11.1 & 11.5
- CommVault Galaxy Backup & Recovery 6.1
- EMC (Legato) NetWorker 7.2 & 7.4
- HP Data Protector 5.5.0 & 6.0
- IBM Tivoli Storage Manager 5.3.x & 5.4.x
- Symantec Backup Exec 10.0, 11.1d
- Symantec NetBackup 5.1, 6.0, & 6.5
- Windows Server 2003 Resource Kit Tools – Robocopy.exe Only (Robust File Copy Utility)

64-bit Backup Software

- CA ARCserve Backup 11.5
- EMC (Legato) NetWorker 7.4
- HP Data Protector 6.0
- IBM Tivoli Storage Manager 5.4.x
- Symantec NetBackup Enterprise Server 6.5
- Symantec Backup Exec 11.1d

Note: FAs does not support software not listed on this matrix. FAs does not support HP Storage Mirroring or Double-Take.

Anti-Virus Support

32-bit Anti-Virus Software

- Computer Associates eTrust Anti-Virus 7.0, 8.0 & 8.1
- McAfee Virus Scan Enterprise Edition 8.0i & 8.5
- Symantec Anti-Virus Corporate Edition 9.0, 10.0 & 10.1
- Sophos Anti-Virus 5.01, 5.1 & 6.5
- TrendMicro ServerProtect 5.58
- TrendMicro OfficeScan 7.0

64-bit Anti-Virus Software

- Computer Associate eTrust Anti-Virus 8.0 & 8.1
- McAfee Virus Scan Enterprise Edition 8.5
- Symantec Anti-Virus Corporate Edition 10.1
- TrendMicro Server Protect 5.7
- TrendMicro OfficeScan 8.0

Defragmentation Support

- Microsoft Defragmenter 1.0 (32-bit and 64bit)
- O & O Defragmenter 8.0 (32-bit and 64bit)

Managed Storage and Multipathing Software

FAs can manage disk volumes that have been assigned to it by external disk arrays. These disk arrays may utilize multi-pathing software that allows backend features such as load balancing and failover/failback. FAs is storage agnositic, with the condition that the managed volume meets the following criteria:

- The disk must be locally attached to the FAs server. Locally attached implies direct connection, Storage Area Network (SAN), or iSCSI.

- The volumes must be formatted by the supported Windows Operating System using NTFS. Non-standard NTFS volumes are not supported.

Quota Management Support

- Symantec Storage Exec 5.5 [13]
- Microsoft Windows 2003 R2 – File Server Resource Manager – Quota Management [13]

Note 13: HP File Archiving software can co-exist with the above quota management tools. Folder or volume quotas can be set on FAs managed volumes. When setting hard quotas on your folder or manage volumes, be careful not to allow the managed resources to reach a 100% capacity. A 5% disk quota space is needed to perform basic FAs operations such as migration, release, and recall. FMA enforces quotas during file recalls at the volume level, not at the folder or user level.

Network File System (NFS) Support

FAs can manage and support the attachment of network drive by Windows Operating system shown in Section: Operating System Supported.

- Currently we only support connection of NFS Clients to the FMA server using the Microsoft Windows NFS server.
- Connection of non-Windows drive(s) to FAs server using CIFS and/or Samba is not currently supported. (Non locally attached

NTFS volumes(s) are not supported. Macintosh File Systems are not supported)

Microsoft 2003 Volume Shadow Copy Service (VSS)

Volume snapshots can be taken on FAs managed volumes; there is no negative interference between VSS and FAs. Taking volume shadow copies will not initiate recalls of already released files. Since shadow copies are read only, it is not possible for FAs to recall a file using a stub file in a shadow copy. Users are encouraged to consider this limitation when deploying both VSS and FAs.

- FAs supports VSS when used by a qualified backup application. It does not support the use of VSS-Client.
- FAs does not support file activation for files that have been restored to a new location. Restoring files is only supported to their original location.
  (a) Restoring previous versions from VSS to original location – No restrictions exist to the restore of online files.
  (b) Viewing previous versions from VSS – Viewing a previous versions of files that were offline during the volume snapshot is not supported.
  (c) Copying previous versions from VSS to a different location – Copy previous versions from VSS to a different location is not supported by FAs.

FAs Size Limitations

Below describes the maximum limitation supported by a single FAs server or a cluster configuration

Description	Limit
Maximum number of volumes (display)	128
Maximum number of FAs-managed volumes	80
Maximum number of archives	255

Maximum path length (characters)	1024
Maximum file size (NTFS)	~16 terabytes
Maximum volume size (NTFS)	~256 terabytes
Files/Directories per volume (NTFS)	4,294,967,295
Maximum number of FAs policies	Unlimited (Less than 1000 active policies recommended)
Maximum number of nodes per cluster	8 homogeneous nodes per cluster configuration

Unsupported Software and Configuration

FAs does not support the following software. There are known issues when installing FAs with the below software:

- Veritas Storage Foundation and all of its features:
  - Volume Manager and File System
  - Storage Foundation Manager
  - Dynamic Multi-pathing (DMP)
  - FlashSnap
  - Veritas Cluster Server
  - Online Administration

- Migration of Macintosh files hosted on FAs managed volumes to any archive is not supported
- Virtual Memory is not supported on FAs managed volume(s). Windows uses a swap file called pagefile.sys for virtual memory. A crash will occur if a pagefile.sys is detected on a managed volume during system bootup.

- We do not recommend the use of Microsoft offline synchronization to volumes that are managed by FAs.
  - Synchronizing files between a remote client and the server - In this case the client has a local copy of files from a server that FAs is managing. FMA is not involved on the client. In this case the term "offline" refers to the fact that the user has a local copy of the file that normally lives on a server. If the user modifies the local copy and then reconnects, Microsoft offline file synchronization works as expected and updates the server copy.
  - Migration of files on the server after they have been re-sychronized from a remote client - The issue in 2.2.7 causes a synchronized file on the server to retain its original modified date instead of allowing it to be updated to the date of synchronization. This results in the updated file to not be migrated again to the archive. Thus, the updated file must be opened and saved again while the client is connected to the server, or the files need to be manually copied from the client to the server for the file to be qualified to be migrated again by FAs.