AP ENPS

System Requirements

Requirements vary based on the number of users at your site and other factors. Performance and speed will be enhanced if processor, memory, and available disk space exceed the minimum requirements. You may also need additional servers as your organization grows.

Server Requirements

Hardware

Component	Minimum	Recommended	Notes
CPU	8 cores	8+ cores	
RAM	32GB	32GB+	32GB+ is sufficient for many sites, but more may be needed to ensure optimal performance at sites with larger archives. 💡 As a rule of thumb, have as least as much physical RAM as the size of your index.
Hark Disk	300GB	500GB	RAID array, level 1, 5 or 10. SSD drives are preferred.
Network	100 Megabit	100+ Megabit	

All hardware must have the appropriate drivers.

Hard drives

A minimum of 6 hard drives (SCSI, SAS, SSD or similar enterprise-level storage devices) are required for best performance; 8 drives allow for highest availability. 3.5" platter hard drives are preferred as they have been found to provide slightly better performance compared to 2.5" drives. Sites using virtual servers should maintain the same drive configurations, swapping a virtual hard drive (VHD) for each physical RAID listed below.

A second RAID array has potential benefits but is not required.

ⓘ Software RAID is not supported or recommended.

A network-based or local backup system is strongly recommended.

Best Performance Configuration – 3 RAIDS (min. 6 drives)

1st RAID (level 1)	2nd RAID (level 1)	3rd RAID (level 1, 5 or 10)
Operating System (C:\)	Index (E:\)	ENPS Work (F:, G:, H:\)

Normal Performance Configuration for 64-bit systems – 2 RAIDS (min. 4 drives):

1st RAID (level 1)		2nd RAID (level 1, 5 or 10)
Operating System (C:\)	Index (E:\)	ENPS Work (F:, G:, H:\)

Software

Component	Required	Notes
Windows Server	2016 / 2019 / 2022	64-bit only. Ensure that Windows Server is up-to-date with Microsoft service packs and security patches.
.NET Framework	4.8 🔗	
Amazon Corretto	11 🔗	The Platform Installer prompts to upgrade if not already on this version. Remove old versions of Corretto from the server.
Solr	9.2.1 🔗	The Platform Installer automatically installs this version if not already installed.
Chromium	103.0.12 🔗	The Platform Installer automatically installs this version if not already installed.
Google Chrome	Latest version 🔗	Install on all servers.
Adobe Reader	Recent versions 🔗	Required to index PDF files.

Virtual Server Requirements

Hardware

Component	Minimum	Recommended	Notes
CPU	8 cores	8+ cores	
RAM	32GB	32GB+	32GB+ is sufficient for many sites, but more may be needed to ensure optimal performance at sites with larger archives. As a rule of thumb, have as least as much physical RAM as the size of your index.
Hark Disk	300GB	500GB	
Network	100 Megabit	100+ Megabit	

Keep the following requirements in mind before you install an ENPS Server on a virtual machine:

- The Associated Press does not support third party software such as VMWare. You should contact the virtual machine vendor for support issues related to their software.
- You are solely responsible for meeting the virtual machine's requirements for hardware, networking, wire ingestion, and integration.
- There should be a minimum of 2 GB of RAM available to the host machine after the virtual machine is mounted.
- Make sure that anti-virus software on the host machine does not scan virtual machine files. Just like a physical ENPS Server, an ENPS Server in a virtual machine environment should not run anti-virus software with real-time scanning.
- Do not run an ENPS Primary server and its corresponding Buddy server as virtual ENPS Servers on the same machine simultaneously.

Software

	Windows Server	.NET Framework	Google Chrome
Required	2022 / 2019 / 2016	4.8	Latest version

ENPS Mobile and Apps Servers (Physical or Virtual)

- CPU: 8+ core

- RAM: 32GB

- Disk: 120GB

- If running as a virtual machine, all storage can be on one VHD file.

For maximum redundancy, the Mobile/Apps servers may be configured behind a load balancer.

Client Requirements

These requirements apply to all workstations running the ENPS client.

Hardware

Component	Minimum Client Requirements	Recommended Client Specs
CPU	Intel Core i3	Intel Core i5 or better Faster workstations are recommended for optimal plugin usage.
RAM	8GB	16GB for improved performance on workstations running other components.
Hard Disk	25GB	80GB or more
Network	100 megabit or greater bandwidth in a Windows networking environment. For multimedia plugin optimization and configuration, please consult with the vendor for their networking requirements.	
Video Display	1024x768	1366x768 and higher
Additional Hardware	Audio card and speakers	

Software

Component	Minimum Client Requirements
Operating System	10 Professional/Enterprise, 11 Professional/Enterprise editions. Home editions of any Windows operating system are <u>not</u> supported. The operating system must have the latest Windows updates from Microsoft installed. Workstations must have a Server Client Access License and it must be a member of your site's Windows domain.
.NET Framework	4.8. 🔗
Browser	The most current version of Chrome.
Media Player	VLC Media Player 🔗.

iOS-based Computers

The full ENPS Client application runs on iOS when combined with the following third-party applications:

- Parallels
- Fusion
- Hosted Environments (ex: Remote Desktop, Microsoft RemoteApp, AWS AppStream)
- VNC
- Boot Camp
- Windows on Apple Hardware

In these cases, support is provided for the ENPS Client as it is run within the Microsoft Windows Operating System. Specific technologies required to bring the Windows Operating System and ENPS Client UI to the iOS desktop are provided by third parties. Third-party technologies bring with them specific feature sets. As with Windows System Administrators, Apple System Administrators should be familiar with the iOS as well as specific third-party applications and features.

A list of recommendations can be provided on how to best configure many of these third-party technologies to work with the ENPS Client, but direct support is not provided for third-party software.

Any iOS-based workstation that is to be used to host an ENPS Client should not only meet the minimum specifications of the software being used to host the environment in which the ENPS Client is run, but the resources allocated to that environment should meet or exceed the normal ENPS Client minimum specifications.