There are basically three licensing modes for the A+LS Software.

The first is the Local Area Network (**LAN**) Client/Server application model. This is hosted within the district using a local server and workstations (client installs). This has an unlimited number of concurrent connections (that the network/server can support). This can also be configured as a **WAN**. This mode does not include browser-based client access or access from outside the district LAN/WAN.

The second is an off-site hosted or **online** browser version. Its licensing cost is based on the number of concurrent users per year. It is hosted at our Tier 1 Data Center. This is typically a hybrid mode that can also connect using the client installation. This can be accessed anywhere there is an internet connection.

The last is a combination of the first and second models called, **WBA+**. It consists of LAN (or WAN) and browser components installed on a local campus or district server. The district must be able to configure public IP and DNS and route http traffic to the WBA+ hosted server. This can be accessed anywhere there is an internet connection.

If you have any questions, please call our offices at:

Educational Technology Learning
1256 Main St., Suite 263
Southlake, Texas 76092
888-919-6100

A+LS LAN AND WAN VERSIONS:

In LAN/WAN versions, the *A+LS* **Client application** must be installed on all workstations accessing the system. For WBA+ and online (off-site hosted) versions, the workstation client application installation is optional since access to the program is supported via a web browser. Server-side applications and databases are installed on the campus/district server. Obviously, the online (off-site hosted) version does not require a local server.

The platform of the workstations and the platform of the server do not have to match, *provided* the network operating system can support the configuration deployed. For example, *A+LS* server applications running on a Macintosh server can host *A+LS* client applications running on Windows workstations, *A+LS* server applications running on a Windows server can host *A+LS* client applications running on Macintosh workstations, etc.

Additional notes for all platforms:

Be aware that service packs issued to operating systems can change the way programs behave on their systems. This can result in loss of functionality of some programs, including A+LS and the programs it relies on to function (java, mysql, etc).

Backups: be sure to add the A+LS data folders to your regularly scheduled server backups. In most cases, disaster recovery is a matter of reinstalling the A+LS server application and applying the most current data backup. Please contact us for information on which folders within A+LS to add.

Minimum A+LS Workstation Requirements:

for **Windows Workstations**:
- Operating Systems
  - Windows 2000 and the latest service pack
  - XP Professional
  - Windows Vista (Home Basic, Premium, Business, Ultimate)
- 512 MB RAM (or minimum OS requirements)
- Java 1.4.1, 1.5.0

for **Macintosh® Workstations**:
- Mac OS X:
  - version 10.5.4 (Intel & PPC)) – recommended specs for OS.
  - version 10.4.9 (Intel & PPC)) – recommended specs for OS.
  - version 10.2.6 or higher - 1 GHz Power Macintosh G4 processor & 512 MB RAM
- Latest service packs that includes java installation

Additional Workstation requirements:

** A default Printer installed.
** Java 1.4.1 or 1.5.0 versions
** Acrobat Reader to view and print electronic manuals.
** QuickTime is needed to view video clips in some content areas.
** 256 or better color display monitor with a video card capable of at least 800x600 resolution
** Compatible mouse or other pointing device
** Compatible sound card and speakers or headphones (headphones recommended)
** 40 – 60 MB HD space; user Modify permissions.

Minimum A+LS Server Requirements:

Minimum specs follow for less than 100 concurrent users. Recommended specs higher and vary depending on the number of concurrent users and/or for multiple A+LS installations hosted on the same Server.

As always, application performance will depend on the workload the server has. Servers that are already near max utilization (CPU, Network, or Memory) are not good candidates for use with this application.

for **Windows Servers**:
- Operating Systems
  - Windows 2000 Server with latest service packs
  - Windows 2003 Server
  - Windows 2008 Server – recommended specs for OS.
- 1.3 GHz processor
- 1 GB of RAM (2GB Recommended on a shared App Server)

for **Novell Netware Servers**:
- Operating Systems
  - Novell 6.5 Service Pack 4 - recommended specs for OS.
  - Novell® Netware® 6, Service Pack 4 – minimum 1.3 GHz processor & 1 GB RAM
- NSS Volume for Data
- Java

for **Macintosh Servers**:
- Mac OS X:
  - version 10.5.4 (Intel & PPC)) – recommended specs for OS.
  - version 10.4.9 (Intel & PPC)) – recommended specs for OS.
  - version 10.2.6 or higher - 1 GHz Power Macintosh G4 processor & 640 MB RAM
- Latest service packs / Java

for **Linux Servers:**
- SUSE Linux Enterprise Server 10 – recommended specs for OS.

Additional requirements:

** **Hard disk space** required is dependent upon the number of *A+LS* titles to be installed (full install requires approximately **15** gigabytes of free space). **RAID 5 recommended**.

** 256 or better color display monitor with a video card capable of at least 800x600 resolution

** Other hardware and software that the network operating system requires

** **100 Mbps LAN** Client connections to the locally installed A+LS Server; if the server is located offsite (at a district office within the district's LAN), a fiber (or Gigabit) connection is recommended between the Campus and the Server's location.

** Wireless laptop connections are not recommended, but do work if there is a strong connection.

A+LS BROWSER VERSION:

For online and WBA+ versions, the system is accessed via standard Internet browsers. Minimum client specs are listed above. Supported browsers, and other required settings, are:

for **Windows computers**:
- Internet Explorer 6.0.2 or 7.0
- Javascript and Cookies enabled
- Caching disabled
- Popup blockers disabled

for **Macintosh computers:**

OS X:
- Safari browser

plus:
- QuickTime
- Javascript and Cookies enabled
- Caching disabled
- Popup blockers disabled

Additional requirements:

** **Allow active scripting, status bar updates via script, and scripting of Java Applets.**
** **Enable Active X control for Windows Media Player.**
** **Adobe Flash plugin.**
Exempting Proxy Servers and Content Filters from A+LS - The school's Proxy Server must be set to *not* cache web pages coming from A+LS servers. Also, the school's Content Filter must not filter content coming from A+LS servers. Exempting the address www.aplusanywhere.com using port 80 should take care of this.

On-Line Connection Speeds - if the connection between the Client and the Server is being done across the Internet (offsite hosting or WBA+), it is recommended that they use a broadband internet connection or equivalent.