



Advantzware

Manufacturing & Distribution
Software for Packaging

Advantzware Hardware and Network Requirements

| FEBRUARY-21 |

Document Overview

Documentation Goals

This documentation is intended to provide specification overview for **Hardware and Network Requirements** for the housing and use of the *Advantzware* system.

Table of Contents

Advantzware Appliance Options	2
Base Appliance	2
Staging Appliance	2
Remote Application Appliance	2
DMI Appliance	2
Power Appliance	2
Virtual Appliance	2
Advantzware Customer Installation Options	2
Advantzware Provided Server	2
Customer Provided Server	2
Hardware Requirements	3
Server Requirements	3
Workstations and Remote Connections	3
Web Server	3
Important Configuration Issues	4
Networking Requirements	4
Third Party Software Requirements	5
Label Printing	5
Excel	5
Email	5
Appendix A – Minimum Server Specifications	6
Number of Users: 1-10	6
Number of Users: 11-20	6
Number of Users: 21-40	6
Number of Users: 40+	6

Advantzware Appliance Options

Base Appliance

This is a client server environment where the appliance is fine-tuned and delivered with the Advantzware solution installed and configured for each customer environment. The base appliance is designed for up to 50 users.

Staging Appliance

This is a client server environment where the appliance is fine-tuned and delivered with the Advantzware solution installed and is identical to the Base Appliance but is ideal as a backup and testing environment. This allows you to conduct testing, development, as well as serve as a backup.

Remote Application Appliance

This is a Terminal Server based appliance that is designed to allow thin clients, iPads, and other remote users with total control over the clients and prevents virus infection or other configuration issues related to its usage. The Remote App Appliance requires a license for each user, for the Windows remote desktop clients.

DMI Appliance

This is a client server environment where the appliance is fine-tuned and delivered with the Advantzware DMI solution installed and configured for each customer and their desired hardware configuration.

Power Appliance

This is a client server environment where the appliance is fine-tuned and delivered with the Advantzware solution installed and configured for each customer but contains both a Base configuration, Remote App Appliance, DMI Appliance all combined on a single server. It is high performance and can handle up to 100 users.

Virtual Appliance

This is a virtual version of the base appliance that allows the customer to install this Virtual Appliance on their own server. The performance of the system within a customer hosted virtual environment, varies based on several components including processor and memory allocation. The configuration is available as a VMWare or Hyper-V image.

Advantzware Customer Installation Options

Advantzware Provided Server

Customers that desire for Advantzware to provide an Appliance will receive performance and maintenance of the server with respect to Advantzware application. This is applicable for a Virtual Appliance as well

Customer Provided Server

Customers that desire to install the Advantzware system on their own hardware platform take on the responsibility of the performance and maintenance of the server with their IT department or an outside vendor. This is applicable for a Virtual Appliance as well.

Hardware Requirements

The following guidelines should assist in planning for future hardware and network expenditures. As you configure your hardware and networks, the following recommendations are the **minimums**, and can be greater based on users and budget.

Server Requirements

The Advantzware software application is available for Windows Server 2019. Advantzware recommends a minimum of 2.5 GHz with 32GB memory or more, depending on the number of users. Minimums for memory and disk noted in Appendix A (below) based on user base size.

Workstations and Remote Connections

Below are the minimum specifications and requirements to run Advantzware. It is important to consider not only requirements for Advantzware, but other computing intensive operations such as Design and Graphics software.

Running Advantzware in addition to other applications with intensive computing operations on the same workstation, would require a greater amount of RAM, in the order of a 50% to 100% increase.

- Windows 8.1 Professional or higher, Single User Client PC 32 or 64 bit.
- Pentium i5/i7/equivalent or higher.
- 8 GB of memory.
- Latest OS security patches and updates.
- Common Anti-Virus application.

Please Note: A client computer with less than the minimum specifications may operate, but with degraded performance, and would still not be supported.

Web Server

Windows IIS - If you plan to implement ASI Anywhere then it will require implementing IIS (Internet Information Server) which enables these web services to operate properly.

Important Configuration Issues

Disk Format

Advantzware recommends SSD drives whenever possible for maximum performance.

NIC Card

Server must have an NIC card that can support up to 1GB transfer rates.

RAID

If you expect high transaction volume with extensive reads/writes to disk, we recommend RAID1 for the best database performance. RAID 2+ is acceptable providing the server has a sufficient level of processor and I/O performance.

Backups

When a customer hosts the server, they are responsible for ensuring the ASI system is backed up. Advantzware does backup the database locally, but there needs to be redundancy with respect to making backups to a non-local drive.

This would typically be encompassed in your company's disaster recovery plan. Advantzware can also provide for an additional charge, a backup service where we backup the system to the cloud. Please contact sales for more information on the pricing for this service.

Networking Requirements

Bandwidth

A minimum of 256 MB bandwidth for each remote client if using T1, Fractional T1, Frame Relay, and Cable. Ensure that upload bandwidth is minimum 768k for 1 to 3 remote clients. For best results utilizes over 1mps. Network latency factor should not exceed 10ms.

Avoiding multiple hops from remote sites to the network server and database is one way to reduce latency. If network latency is unavoidable, then consider a remote client for connectivity to the server like Remote Desktop.

Printer Requirements

Advantzware provides several print options to accommodate Windows and the various application print functions. Users can print to any network shared printer.

Third Party Software Requirements

Advantzware may require other third-party products to get the most out of its functionality. Below is a list of third-party software products in this scenario.

Label Printing

Advantzware Supports multiple label printing programs.

Advantzware comes packaged with “ASI XPR” or otherwise known as “Xprint”. Another option is “Label Matrix” (www.teklynx.com)

Please Note: If purchasing Label Matrix for use on a Virtual Appliance, a special license VM license is needed compared to the traditional license.

Excel

A subset of Advantzware reports require the use of Microsoft Excel. These are very few, but, if utilized, require Excel to execute. All other outputs to a .csv output can be opened with other spreadsheet programs, but our recommendation is Microsoft Excel.

Email

An email client will be required to utilize any email functions.

Appendix A – Minimum Server Specifications

Number of Users: 1-10

Physical Windows Server 2012+ R2 or Higher

- 16 GB RAM
- 250 GB SSD Disk x2

Virtualized (Hosted/Non)

- Size of Image - Large
- 16 GB RAM
- 250 GB SSD Disk x2

Number of Users: 11-20

Physical Windows Server 2012+ R2 or Higher

- 32 GB RAM
- 500 GB SSD Disk x2

Virtualized (Hosted/Non)

- Size of Image – X-Large
- 32 GB RAM
- 500 GB SSD Disk x2

Number of Users: 21-40

Physical Windows Server 2012+ R2 or Higher

- 64 GB RAM
- 1 TB SSD Disk x2

Virtualized (Hosted/Non)

- Size of Image – 2X-Large
- 64 GB RAM
- 1 TB SSD Disk x2

Number of Users: 40+

- Call for pricing and recommendations.