

Required and Recommended Hardware/Software Specifications

Remote Desktop Services Server (3-50 users)

The following specifications are for your primary distrib-u-tec server. Note that Remote Desktop Services Licenses are required.

	Server Recommendations	Server Requirements
Operating System	Windows Server 2016	Windows Server 2012 R2
Processor	4 Core 2.6 GHz Xeon or Greater (no older than 2 generations)	4 Core 2.6 GHz Xeon or Greater (no older than 2 generations)
Memory	32 GB Ram or greater (plus 1.5 GB/user)	16 GB Ram or greater (plus 1.5 GB/user)
Disk Space	1 TB FREE (RAID 5 or 10)	500 GB FREE (RAID 5 is recommended)
Display	1280 x 1024 or greater	1024 x 768 or greater

	Workstation Recommendations	Workstation Requirements
Operating System	Microsoft Windows 10 (or later)	Microsoft Windows 8.1 (or later)
Processor	Pentium Core i7 Generation 7 or greater	Pentium Core i5 Generation 7 or greater
Memory	8 GB Ram or greater	4 GB Ram or greater
Hard Drive	500 GB	250 GB
Display	1280 x 1024 or greater	1024 x 768 or greater

[Sample server recommendation can be found here.](#)

Peer to Peer (typically not recommended, 3-5 users maximum)

	Recommendations	Requirements
Operating System	Microsoft Windows 10 (or later)	Microsoft Windows 8.1 (or later)
Processor	Pentium Core i7 Generation 7 or greater	Pentium Core i5 Generation 7 or greater
Memory	16 GB Ram or greater	8 GB Ram or greater
Disk Space	500 GB FREE (RAID 5 is recommended)	250 GB FREE (RAID 5 is recommended)
Display	1280 x 1024 or greater	1024 x 768 or greater

Notable License and Server Requirements:

- **Coming Soon:** Microsoft SQL server installation/license appropriate to your organizational structure (recommended SQL Server 2016 or later)
- Microsoft Excel (if report generation is a requirement)
- Windows Remote Client Access Licenses to match distrib-u-tec licenses (+1 for distrib-u-tec support) for Terminal Services
- Minimum one (1) remote administrator account for the distrib-u-tec support team to perform their required duties for service, maintenance, and user assistance
- Server and router must have port 3389 open, or an agreed alternate for Remote Desktop access. An approved unattended support system can be allowed in its stead
- Server and router must have appropriate ports open for IIS for *Web Rep* and *Web Order* access/use. Typically 80/443, or 2525/2500 depending on client needs
- IIS should be running on the same server as the distrib-u-tec install for maximum performance if using *Web Rep* and/or *Web Order*

- Server setup and installation typically requires 4+ hours. Server migrations typically require 4+ hours (billable)
- The Server should reside on a minimum 100Mbps TCP/IP compatible network.
- Windows Server settings:
 - Printer redirection is to be **disabled**.
 - Render print jobs on client machine is to be **disabled**.
 - **Fair Share is to be disabled**.
 - Recommended to disable all windows effects

Tips for best performance:

Recommended Remote Desktop Environment:

1. Reduce Color depth to minimum
2. Disable Sound
3. Disable audioCaptureMode
4. Disable full window drag
5. Disable window animations
6. Disable Wallpaper
7. Disable font smoothing
8. Disable themes
9. Enable alternate Shell to Dist_ii.exe on the server

Notes

Hardware, Virus protection, Back-up system, Printers, VPN, Operation System, Drivers, and their maintenance, are the exclusive responsibility the client.

Although this document is extensive it is not exhaustive. As with any installation there is always need to communicate and customize back and forth to ensure the best possible installation.