ECI | E2 MFG™

E2 Manufacturing System Requirements System Configurations

Note: The recommended requirements apply to environments where E2 is used in conjunction with CenterPoint® Payroll, QuickBooks®, report writers and other third-party software.

Workstations – Recommended

- Windows 11 Pro™, 10 Pro, 8.1 Pro 64-bit, 10 Pro, 8.1 Pro 64-bit
- Intel® I7 class or better with a minimum of 4 CPU cores (minimum Intel I5)
- 16 GB RAM
- Application will need about 1 GB of space
- You must allow enough drive space on your OS partition for page file, temp files, and log files to grow without affecting performance
- 1920 x 1080 resolution or greater

Server – Recommended

All in one server (file server, SQL Server™, E2 Primary Service Host, Mobile Shop Suite) – For multiple server configuration please see our expanded hardware recommendations

- Windows Server™ 2022, 2019 or 2016, minimum 2012 R2 (Essentials or better)
  - Intel Xeon class CPU (minimum 8 cores for every 25 users, i.e., up to 25 users is 8 cores, 40 users is 16 cores, 50 users is 16 cores, 51 users is 24 cores)
  - SQL Server 2019, 2017 or 2016 Standard or Enterprise - Enterprise required if CPU core count requirements exceed 24 cores. (Minimum SQL Server 2014; Standard, Business, and Enterprise Editions)
  - IIS 8 or newer (for Mobile Shop Suite)
  - 32 GB RAM minimum for an 8 core CPU. Add at least 4 GB of RAM for each additional core. Memory requirements will scale with database size, the larger the database, the more memory you need to optimize performance.

- Hard Drive I/O – Raid 5 or better with 200 MB/sec minimum
- Application will need about 10 GB of space.
- You must allow enough drive space on your OS and data partitions for page file, temp files, system/application log files, main data file, and database log files to grow without affecting performance.

Mobile Shop Suite Clients – Recommended

- Any HTML5 compatible web browser
- iOS 11 compatible devices (or newer) and/or Android™ 5.0 compatible devices (or newer)
- Nearly all phones and tablets meeting the OS requirement should work. However, for a better experience, choose devices with 1GB or more of RAM, and higher CPU specifications.

  NOTE: Many inexpensive devices have cameras that do not have enough resolution or image clarity to be used with the built-in bar code scanning capabilities in some of our apps. These devices can still be used with the applications; however, an external Bluetooth bar code scanner would be required.

  The items listed above are recommended requirements. You will get better performance by enhancing any area recommendation above.

Multiple Server Configuration

SQL Server

- Windows Server 2022, 2019 or 2016; minimum 2012 R2 (Essentials or better)
- Intel Xeon class CPU (minimum 8 cores for every 50 users, i.e., up to 50 users is 8 cores, 51 users is 16 cores, 100 users is 16 cores)
- SQL Server 2019, 2017 or 2016 Standard or Enterprise - Enterprise required if CPU core

count requirements exceed 24 cores. (Minimum SQL Server 2014; Standard, Business, and Enterprise Editions)

- 24 GB RAM. Memory requirements will scale with database size, the larger the database, the more memory you need to optimize performance
- Hard Drive I/O – Raid 5 or better with 200 MB/sec minimum
- Application will need about 10 GB of space
- You must allow enough drive space on your OS and data partitions for page file,
- temp files, system/ application log files, main data file and database log files to grow without affecting performance.

Application Server

- Windows Server 2022, 2019 or 2016, minimum 2012 R2 (Essentials or better)
- Intel Xeon class CPU (minimum 8 cores)
- 12 GB RAM
- Hard Drive I/O – Raid 5 or better with 200 MB/sec minimum.
- Application will need about 10 GB of space.
- You must allow enough drive space on your OS and data partitions for page file, temp files, system/application log files, main data file and database log files to grow without affecting performance.

Secondary E2 Windows Service Host

- Windows Server 2022, 2019 or 2016, minimum 2012 R2 (Essentials or better)
- Intel Xeon class CPU (minimum 4 cores)
- 4 GB RAM per CPU core
- Hard Drive I/O – Raid 5 or better with 200 MB/sec minimum
- Application will need about 10 GB of space.
- You must allow enough drive space on your OS and data partitions for page file, temp files, system/ application log files, main data file and database log files to grow without affecting performance.

Mobile Shop Suite Server

- Windows Server 2022, 2019 or 2016 minimum 2012 R2 essentials or better
- Intel Xeon class CPU (minimum 4)

- 8 GB RAM
- Hard Drive I/O - Raid 5 or better with 200 MB sec/minimum
- IIS 8 or newer
- Application will need about 10 GB of space
- You must allow enough drive space on your OS and data partitions for page tile, temp files, system/application log files, main data file and database log files to grow without affecting performance

Mobile and Tablet App Requirements

*A valid SSL Certification is needed to utilize any mobile app

iOS requirements

- Operating system: iOS Version 11 and above
- Supported devices (same as Apple® support for iOS 11):

iPhone®:
- 5S (NOTE: iPhone 5 and iPhone 5C are NOT supported)
- 6, 6 Plus, 6S, 6S Plus, and SE
- 7, 7 Plus, and new devices

iPad®:
- iPad Air and Air 2
- iPad Mini 2, 3, and 4
- 5th-generation iPad
- All iPad Pros

Android requirements

- Operating system: Android 5.0 and above
- Supported devices:
  Nearly all phones and tablets meeting the OS requirement should work. However, for a better experience, choose devices with 1GB or more of RAM, and higher CPU specifications.

  NOTE: We recommend sticking with trusted manufacturers. Devices without GPS capabilities will likely not show up in the store. Many inexpensive devices have cameras that do not have enough resolution or image clarity to be used with the built-in bar code scanning capabilities in some of our apps. These devices can still be used with the applications; however, an external Bluetooth bar code scanner would be required.

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Additional Hardware Requirements

Database Software

The E2 Manufacturing System will ONLY run using the Microsoft SQL Server database platform. The following versions and editions of Microsoft SQL Server are supported:

- SQL Server 2019; Standard and Enterprise Editions
- SQL Server 2017; Standard and Enterprise Editions
- SQL Server 2016; Standard and Enterprise Editions
- SQL Server 2014; Standard, Business, and Enterprise Editions

.Net Framework

The E2 Manufacturing System requires .Net Framework 4.6

Backup

ECi Software Solutions recommends a full nightly backup of the E2 Manufacturing System directory plus all databases. We also recommend SQL Server maintenance plans that backup and truncate the SQL Server transaction log files.

Remote Access

Remote access for the E2 Manufacturing System is supported using Microsoft Remote Desktop (RDP) or other means of terminal emulation. It is recommended that wireless devices use RDP to run the software versus running directly over the wireless connection. Mobile specific applications are supported wirelessly.

Remote Data Collection

When running two or more hardware data collection terminals (NOT PC Data Collection) from a remote location, E2 does require a VPN tunnel from the office where the hardware data collection boxes are located to the office where the data collection software is running. This is the only aspect of our software where we support running over a VPN.

Internal Network Connection / Internet

For network speed and highest level of trouble shooting with support on all Server(s) / PC(s)

- 1 GB wired network connection
- Internet connection for product updates and high-level support

For Additional Required Levels of Security

The following site is REQUIRED for license checks:

- http://enterprise.shoptech.com/webservices64/shoptechserver64.asmx

Additional useful sites:

- http://client.shoptech.com/files/E28xUpgrade–Upgrades
- http://client.shoptech.com - Bulletins
- https://help.shoptech.com/MFG/Default.htm–Help File
- https://fastsupport.gotoassist.com/ – support to connect and diagnose
- ftp://Ftp.shoptech.com– Submitting data to ECi for support and professional purposes
- https://customersupport.ecisolutions.com - Access ECi Success Community

Contact us today to learn more.

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