

# ENTERPRISE EDITION

## SYSTEM HARDWARE & SOFTWARE REQUIREMENTS

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# WorldAPP

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## SYSTEM HARDWARE & SOFTWARE REQUIREMENTS

In this document you'll find recommendations for software and hardware, so that you can best use WorldAPP's Enterprise Data Collection Platform for your business needs.

Following these recommendations will assist in keeping the application stable and secure.

### System Software Requirements

As a minimum, the WorldAPP Enterprise Data Collection Platform may be deployed on a single server with a minimum requirement of an operating system with Java runtime, application server and the database server installed on it.

For security and performance reasons it is also recommended to use a web server that would route the traffic to the application.

Some of the application functions require SMTP servers to distribute emails, resolve domain names, validate email addresses, etc.

Although all of the system components may be installed on a single physical server, it is highly recommended to have the database server and the web server (if the one is used) deployed on separate physical hardware.

WorldAPP's Enterprise Data Collection Platform may also be deployed in a virtual environment, however, the performance may slightly degrade compared to the system deployed on a separate physical machine.

Operating System	<ul style="list-style-type: none"><li>Any 64 bit OS compatible with Oracle Java JRE/JDK 11</li></ul>
Web Server (optional)	<ul style="list-style-type: none"><li>Apache HTTP server 2.2 or higher, IIS 10</li></ul>
Database Server	<ul style="list-style-type: none"><li>MySQL 5.7, 8.0</li><li>MS SQL Server 2016</li><li>Oracle 11g, 12c</li></ul>
Additional Software	<ul style="list-style-type: none"><li>One (or more) SMTP server, DNS server</li></ul>

## Minimum Hardware Requirements

The hardware required to run the WorldAPP Enterprise Data Collection Platform in production depends greatly on projected system activity (e.g. number of respondents, forms, reports and forms/reports complexity), as well as, the maximum number of concurrent requests that the system will experience during the peak hours.

Hardware requirements outlined below represent the minimum hardware that is required to get the system up and running and collecting a few thousands of form submissions daily.

Processor	<ul style="list-style-type: none"><li>• Intel x86 64-bit or AMD64 architecture is supported</li><li>• Multicore processors 2GHz frequency or higher are recommended</li></ul>
Memory (required for Tomcat service)	<ul style="list-style-type: none"><li>• 8GB minimum is sufficient for most use cases. The systems where high load is expected may require more memory NOTE! 8GB of RAM will be allocated to Tomcat service only and you need to make sure you have additional memory on the Server for other processes (OS, etc.).</li></ul>
HDD	<ul style="list-style-type: none"><li>• It is recommended to install the Platform on a system where RAID is preconfigured. Two SCSI or SAS drives with 148GB capacity configured as a RAID 10 or external RAID system are recommended.</li></ul>
Database Space	<ul style="list-style-type: none"><li>• 200GB of free space for the database is sufficient for most use cases. However, the more data is collected with the platform, the more hard disk space will be required. It is recommended to plan provisioning of more disk space if large volumes of data will be collected using the Platform, it is also recommended to reserve space for replication and backups in the production systems.</li></ul>
Network Connectivity	<ul style="list-style-type: none"><li>• At least one dedicated IP address</li></ul>

If firewalls or other software or hardware is present, and it prevents the Platform from being able to communicate with the required services (such as database, NS servers, SMTP servers, etc.) or from being accessed by users, configuration of such hardware and software should be prepared and applied before installation. If the web server is being used, communications between the application and the web servers should be allowed as well.

More details and requirements will be provided in the installation instructions shipped with the installation package. These instructions must be read carefully before rolling out the application.

### Standard Installation Packages

Typically, WorldAPP delivers its self-hosted solutions as a custom package, with the software, configuration and the installation instructions designed with the unique environment configuration that a customer may have. However, delivering such custom deployment package may take some time, which is needed to put together the package and write the proper installation instructions.

WorldAPP's Data Collection platform is also available in pre-configured installation packages, which are readily available for certain environment configurations and may be delivered much more rapidly than a custom package built per the specific requirements.

WorldAPP's Enterprise Data Collection Platform version installation packages are currently available for the following configurations and platforms:

Microsoft Windows based system	<ul style="list-style-type: none"><li>• Web Server (optional): Microsoft IIS 10</li><li>• Operating System for Application server: Microsoft Windows Server 2016</li><li>• Application Server: Apache Tomcat 9</li><li>• Database: Microsoft SQL Server 2016</li></ul>
Linux based system	<ul style="list-style-type: none"><li>• Web Server (optional): Apache Web Server 2.2</li><li>• Operating System for Application Server: Linux (Red Hat Enterprise Linux is recommended)</li><li>• Application Server: Apache Tomcat 9</li><li>• Database: MySQL 5.7</li></ul>

Packages include Application binaries, configuration templates, database data structures, initial installation data, instructions and manual for the installation. All files are compressed and available for downloading per request.

For all other systems configurations, WorldAPP will provide a custom deployment package, with optimized configuration settings and detailed installation instructions.