

# System Requirements for Carmenta Server 4.6

## DEVELOPMENT ENVIRONMENT

### Operating Systems:

- Windows 7
- Windows 8 & 8.1
- Windows 10

Note: Only 64-bit Operating Systems are supported

### Software requirements:

- IIS 7.0 or later
- .NET Core 2.0 or later
- Java Runtime 7 or later

### Language requirements:

- .NET API: .NET Framework 4 or later
- .NET Core API: .NET Core 2.0 or later
- Java API: Java 7 or later
- C++ API: MSVC 10 (2010) or later

### Hardware recommendations:

- CPU: Minimum dual-core CPU (quad-core CPU preferred)
- RAM: Minimum 4 GB RAM
- Disk space: At least 10 GB free disk space

Note: Due to its architecture with internal scaling by running multiple map server instances if possible, Carmenta Server will make use of available hardware in an efficient and optimal way, to ensure maximum performance.

## DEPLOYMENT ENVIRONMENT

### Operating Systems:

- Windows Server 2008 and 2008 R2
- Windows Server 2012 and 2012 R2
- Windows Server 2016
- Windows Server 2019

Note: Only 64-bit Operating Systems are supported

### Software requirements:

- IIS 7.0 or later
- .NET Framework 4.7.2 or later

### Hardware recommendations:

- CPU: At least one quad-core Xeon-class CPU, or other server-grade CPU. More CPUs and/or more CPU cores per CPU will result in more map server instances running in parallel.
- RAM: At least 4 GB or more. More RAM will allow more caching of geodata in map server instances, and a larger map tile memory cache.
- Disk space: Depends on the size of the geodata and the size of a map tile disk cache. Typically at least 100 GB free disk space is needed. Fast disks such as hardware RAID or similar will increase the server performance significantly.

On multi-core CPUs and/or multi-CPU systems, the CPU cores are typically used as follows:

- One CPU core is used for the IIS working process, Tile Store and other Windows processes
- The remaining CPU cores will allow multiple map server instances to run (typically the number of map server instances will equal the number of CPU cores minus one)



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