

# WEB GARAGE

## APPLICATION

- The Webgarage platform responds to this challenge: to offer our customers a state-of-the-art supervision and programming environment, ensuring the continuity of field installations and the integration of new generations of devices.
- The system integrates the basic functionality of a Building Automation System (BAS) which supervises and controls HVAC systems, lighting and other plants. It offers the additional benefits of a Building Operating System (BOS) to govern, display and give value to relevant data. The technology on which it is developed uses tagging and data modeling to ensure functionality and potential still unexplored.
- WebGarage not only makes it easy to create dashboards but it also offers advanced analytics functions to support the diagnosis of maintenance gaps and optimize building management performance. Based on the open standard of the Haystack project, WebGarage opens up a multitude of possible integrations and solutions from the Haystack collaborative community

Click on the four items below

[WEBGARAGE presentation](#)

[X Series integration devices](#)

[Schematic diagram](#)

[Documentation](#)

## Features

## RECOMENDATION

- RAM: 8-16GB
- Operating System: Windows, Linux, Mac
- Interface: Gigabit: LAN
- Flash: 32GB SSD
- CPU: x86-64 CPU (Intel Xeon, Intel Core, AMD Ryzen)
- CPU Power: 2GHz+
- The most important resource for server sizing is RAM. For any medium to large project, you must properly tune your JVM heap size.
- A good rule of thumb is to plan for 1GB to 2GB of heap for every 10K points.
- Heap size more than 1.5GB will need to run a 64-bit JVM (the actual max heap size of a 32-bit JVM will vary slightly). 85% of Java Heap consumption is roughly our recommended max before considering to upgrade the amount of space.
- Open JDK is recommended but you can also use Java 11
- Another important aspect to consider is that the historian is mostly limited by I/O performance (speed of disk drive). Using a SSD will likely have a significant performance boost for reading and writing history data. Disk space is typically not a issue for projects due to the Folio's highly efficient compression techniques. Analysis of projects has shown an average about 1.5 bytes per timestamp sample which equates to about 51KB per year per point for 15min interval data.
- Depending on the apps/features you use (and don't use) will have a significant impact on performance and how much horsepower you will need to run smoothly. Running multiple projects on a single host consumes more overhead; 100 little projects of 100 points are more resource consuming than a single 10K point project.
- The technical specifications should be adapted to the size of the project or projects. With a high number of historicized points and/or high number of logics, it is recommended to consistently size the CPU and RAM for better use.

| Code           | Description   | Data Sheet |
|----------------|---|------------|
| <b>CWS 500</b> | Server Version license, 500 points managed (of which up to 100 historicised)  | –          |
| <b>CWS 200</b> | Server Version license, 200 points managed (of which up to 40 historicised)   | –          |
| <b>CWS 01K</b> | Server Version license, 1000 points managed (of which up to 200 historicised)   | –          |
| <b>CWS 02K</b> | Server Version license, 2000 points managed (of which up to 400 historicised)   | –          |
| <b>CWS 05K</b> | Server Version license, 5000 points managed (of which up to 1000 historicised)  | –          |
| <b>CWS 10K</b> | Server Version license, 10000 points managed (of which up to 2000 historicised)   | –          |
| <b>CWS 50K</b> | Server Version license, 50000 points managed (of which up to 10000 historicised)  | –          |
| <b>CWS 1HK</b> | Server Version license, 100000 points managed (of which up to 20000 historicised)   | –          |
| <b>CWC 100</b> | Add-On license for Server Version. Increases the number of historicized points by 100 points (only for Server Version license)  | –          |
| <b>CWC 01K</b> | Add-On license for Server Version. Increases the number of historicized points by 1000 points (only for Server Version license) | –          |