

Feature	Description
Server Operating System Requirements	<ul style="list-style-type: none"> > Ubuntu Linux 14.04 LTS 64-bit (recommended) > RedHat Enterprise Linux 6.5 64-bit
Server Hardware Requirements	<ul style="list-style-type: none"> > physical server or virtual machine/VPS > 64-bit CPU, multi-core recommended > Minimum RAM: 512 MB; Minimum Hard Disk: 10 GB
Server Software Requirements	<ul style="list-style-type: none"> > MySQL server (recommended) or optionally another ODBC-capable DBMS or MongoDB for device and user account management > HAProxy for multi-server load-balancing setups > optional LDAP server for user authentication and authorization
Server Network Access	<ul style="list-style-type: none"> > public IPv4 address required > open network ports: 80 (HTTP) and/or 443 (HTTPS)
Server Software Features: General	<ul style="list-style-type: none"> > implemented in C++ (high native-code performance, no JVM required) > based on extensible component/plugin architecture > integrated HTTP server > web- and command-line based administration tools > REST API for integration with customer specific applications > user authentication and authorization via database or LDAP > customizable web interface > supports multiple servers in load-balancing setup for high number of connected devices or users, as well as high availability
Server Software Features: User Authentication/Authorization	<ul style="list-style-type: none"> > based on private database with optional LDAP integration > users and groups > permissions allow fine-grained access to single devices or entire device domains > users can be assigned to multiple groups > permissions can be assigned to users or groups (group permissions inherited by member users) > user authentication via login and session cookie, or via HTTP Basic Authentication (for web services)
Server Software Features: Devices	<ul style="list-style-type: none"> > thousands of devices per single server (actual number depends on server hardware capabilities) > device authentication via password or challenge-response mechanism > supports management of device metadata (user-specified name-value pairs can be attached to each registered device) > supports multiple device domains > secure forwarding of HTTP, VNC, SSH and other TCP-based protocols
Server Software Features: Web Server	<ul style="list-style-type: none"> > supports HTTP and HTTPS (internally or via HAProxy for load-balancing setups) > optional caching of device web resources (such as images and stylesheets) for improved performance when accessing devices over slow connections (e.g., GPRS) > fully customizable web interface (default web interface can be hidden from end users) > REST API for integration with customer-specific applications > integrated web-based VNC client