

DZS-CONNECTION Software Suite

Server Requirements for in premises core system and CONNECT-ACS

DZS-CONNECTION is a combination of multiple software modules.

In order to achieve the best performance experience, it is best to correctly size a server or in some cases, multiple servers. The below recommendations will ensure the best possible performance of CONNECT-ACS and for those cases where a Virtual Machine is used, the resources must be “reserved”.

It is suggested that when sizing a server, to size for the forecasted number of managed devices 2-years into the future.

The Preferred Operating System is 64-bit, CentOS version 7.5, but the system can operate with any Linux distribution. The network configuration must be setup correctly, corresponding to the network architecture including DNS resolution, HTTP access and routing allowing Internet access. Do not install MySQL. This will be installed as part of CONNECT-ACS’s installation. The /opt partition should have the largest disk allocation.

Server Hardware Specifications

<2,500 managed devices

8GB RAM, quad core processor, 250GB storage, Gig E Interface

<5,000 managed devices

12GB RAM, 6 cores processor, 250GB storage, Gig E Interface

<10,000 managed devices

16GB RAM, 6 cores processor, 320GB storage, Gig E Interface

<25,000 managed devices: 2 servers recommended

Server #1

16GB RAM, 6 cores processor, 320GB storage, Gig E Interface

Server #2

16GB RAM, 6 cores processor, 320GB storage, Gig E Interface

<50,000 managed devices: 2 servers recommended

Server #1

32GB RAM, 8 cores processor, 320GB storage, Gig E Interface (10 Gig E preferred)

Server #2

32GB RAM, 8 cores processor, 640GB storage, Gig E Interface (10 GigE preferred)

<75,000 managed devices: 2 servers recommended

Server #1

32GB RAM, 8 cores processor, 640GB storage, Gig E Interface (10 GigE preferred)

Server #2

32GB RAM, 8 cores processor, 640GB storage, Gig E Interface (10 GigE preferred)

<100,000 managed devices: 2 servers recommended

Server #1

32GB RAM, 8 cores processor, 640GB storage, Gig E Interface (10 GigE preferred)

Server #2

48GB RAM, 12 cores processor, 960GB storage, Gig E Interface (10 GigE preferred)

The above server specifications are to accommodate the below modules. Additional software modules may require additional resources

CONNECT-ACS & Core System (includes several modules)

CONNECT-API

Engineering GUI

CSR GUI

File Management Server (FMS)

STUN Server (may require additional resources depending upon network architecture)

Assumptions on the above sizing is based upon the Periodic Inform Interval to be configured for no less than 60 minutes. If shorter intervals are desired, additional resources may be needed. Please consult with your account representative.

Server Networking

CONNECT-ACS requires a fixed IP address to be allocated to each server. The servers require TCP access to port 8085.

CONNECT-ACS requires a public IP address or a port forwarding rule so that CONNEC-DA can access port 8085 directly from the cloud. CONNEC-DA uses this port to pull information periodically via CONNECT-API.

Remote Access requirements

SSH access is required for software deployment and upgrades. Customers should notify DZS the IP and TCP port to be utilized for SSH access.

The following IP addresses should be temporarily white-listed to allow DZS to perform the software deployment: 209.208.28.129, 146.20.37.6

Please create user dzsuser with full root-level sudo privileges and provide login credentials to DZS.

Upon completion of the server setup, please provide the host name or IP Address along with credentials to your account representative.