Control Center System Requirements Guide

Everbridge Suite

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Control Center Server System Requirements

The specifications below represent an example of the hardware required. However, the exact requirements vary depending on the level of transactions expected in the system. This is largely dictated by the number of concurrent users and the rate of events received from connected sub-systems.

> **CAUTION:** Everbridge Control Center relies on a well-maintained and provisioned SQL instance. Failure to do so will result in performance degradation of Everbridge Control Center.

Minimum Specification

This specification is for use in test/staging environments. It assumes both Control Center application services and Microsoft SQL services are hosted on the same machine.

> **CAUTION:** Everbridge do not recommend running a production system using this specification. Any performance or stability issues arising from running Control Center using this specification cannot be addressed by Everbridge.

Entry Level "All-In-One" Server	
Operating Systems	Windows Server 2019 Windows Server 2016
Databases	Microsoft SQL Server 2019 Microsoft SQL Server 2017 Microsoft SQL Server 2016 CAL Licences: 1 per Control Center Workstation/Video Wall Client. It is recommended that this is confirmed with a Microsoft volume licence agent.
Other Software	Microsoft Data Tier Application Framework 2019 Microsoft .NET Framework 4.7.2 Microsoft Message Queuing (MSMQ).
Base	1 x Intel® Xeon® W-3265 Processor
Memory	64 GB RDIMM Dual Rank
RAID Controller	Dedicated RAID card OS: RAID 10, 4 x 512 GB Solid State Drives SQL: RAID 10, 4 x 512 GB Solid State Drives
Network	2 x 1 GB Minimum
Power Supply	Dual, Hot Plug

Critical Production Security System

For critical production deployments, Everbridge recommends failover deployments of both Control Center and Microsoft SQL Server. To achieve this, 4 servers are required; 2 Application Servers for Control Center and 2 Database Servers for SQL with SQL using Always on Availability Groups, (unless SQL is being provisioned from an existing, adequately-specified, instance).

Production Level Control Center Server/SQL Server	
Base	2 x Intel® Xeon® W-3265 Processor
Memory	128 GB RDIMM Dual Rank
RAID Controller	Dedicated RAID card OS: RAID 10, 4 x 512 GB Solid State Drives
Network	4 x 1 GB Minimum 2 x 10 GB - for connection to SAN
Power Supply	Dual, Hot Plug
Operating Systems	Windows Server 2019 Windows Server 2016
Databases	Microsoft SQL Server 2019 Microsoft SQL Server 2017 Microsoft SQL Server 2016 CAL Licences: 1 per Control Center Workstation/Video Wall Client. It is recommended that this is confirmed with a Microsoft volume licence agent. SQL Enterprise Edition Required for Always on Availability Groups. See Microsoft documentation.

Recommended Requirements for VM Hosting Single Connection Manager Service

The following table describes the recommended requirements for a virtual machine hosting a single Connection Manager service.

Application Node	
Virtual Core Count	8 cores; Intel Xeon Gold series base (or equivalent)
Memory	16 GB
Storage	200 GB
Operating Systems	Windows Server 2019 Windows Server 2016

Control Center Prerequisites

Control Center has the following prerequisites.

- Enable Named Pipes and TCP/IP for SQL (SQL servers)
- Update Group Policy for the Service Account (Domain)
- System cryptography (FIPS)
- Operating system prerequisites:
    - .NET 3.5 and 4.6.2/WCF Activation (server and clients)
    - MSMQ (servers and clients)
    - Listener and port sharing services (servers)
    - Microsoft Data Tier Application Framework 2019 (servers)

Please see *Control Center Installation Guide* for more information.

Control Center Client System Requirements

The following table provides the recommended baseline specification for control room and video wall workstations.

Client/Video wall Workstations - Example Specifications	
Operating Systems	Microsoft Windows 10 Professional 64 Bit
Other Software	Microsoft .Net 4.5 Framework Microsoft System CLR Types
	Intel Core i7-9700
	16GB DDR4 2133Mhz RAM
	256 GB Solid State Drive
	Integrated 1 GB LAN
	Workstation: Nvidia Quatro P620 GPU - 2 GB RAM Video wall: 1 x Nividia Quadro p2000 GPU - 4 GB RAM Output
	As required

Control Center Supporting Services Requirements

There are a number of other supporting services may be required to support your deployment of Control Center.

IT Infrastructure

These requirements will vary depending on the specifics of each deployment but, typically, to support a failover environment, Domain, NTP, DNS, and Active Directory services, need to be provided. It is expected that this infrastructure delivery will be provided by the Delivery Partner or End User and it is, therefore, their responsibility to ensure its suitability.

Virtual Environments

Control Center is frequently deployed in virtual environments. Control Center solutions will be supported by Everbridge when deployed in virtual environments as long as the environment meets the performance requirements for the solution. The server specifications above are for dedicated physical application and database servers rather than physical hosts for a virtual environment; the requirements for such hosts should take into account the other supporting machines that will be deployed. No specific validation or certification of any virtualization manufacturer is performed by Everbridge.

Shared Storage

In failover deployments, shared storage is required to allow resources to access and manage a single data set. The main use of this shared storage is to host the SQL Server database files and, as such, must offer high-performance to support the level of read/write transactions required by the application. The specification/design of such a storage solution is a specialist area and
Everbridge is not best placed to offer specific recommendations.

Shared Storage Volumes (Failover Deployment)	
Control Center	1 x 5 GB disk to host the MSMQ and application services
Microsoft SQL	1 x 100 GB (minimum) disk for SQL live data (sizes dependent on data retention and solution scale) 1 x 100 GB (minimum) disk for SQL backup data (sizes dependent on data retention and solution scale)