

GATEKEEPER

GATEKEEPER Systems - Server Configuration Guidance for G4 Enterprise

- CPU Guidance:
 - GATEKEEPER installed applications are not very CPU intensive so one can choose a more cost-effective Xeon chip.
 - In selecting CPU, we recommend favoring more cores/thread over CPU clock rate.
 - Recommend minimum of 16 cores/32 threads per CPU
 - For less than 500 vehicles, a single CPU is recommended
 - For 500 or more vehicles two CPUs are recommended
- OS drives:
 - Raid 1 with hot spare recommended
 - 1TB minimum, 2TB recommended
- Video storage drives:
 - Raid 6 with hot spare recommended
 - Recommend 2TB per 100 vehicles.
 - Storage requirements vary depending on retention policy.
 - Actual arrays size will vary depending upon number and size of disks and RAID level selected
- RAM:
 - 32GB Minimum per CPU, in two DIMM increments
 - 32GB for up to 200 buses (2x16GB)
 - 64GB for up to 300 buses (4x16GB)
 - 96GB for up to 400 buses (6x16GB)
 - 128GB for up to 500 buses (8x16GB)
 - 256GB for up to 1000 buses (16x16GB)
 - For more than 1000 buses, a second server is recommended
- Power:
 - Redundant Power supplies, each connected to a separate UPS's
- Battery backup:
 - UPS sizing of 1500VA minimum for each PSU, 2200VA recommended
- Networking:
 - Standard Dual Giga bit NIC
- OS:
 - Windows Server 2016 Std. or higher