

Certified CS Gold 6 Server Platforms

- Dell Model PowerEdge R710
- All HP servers previously certified on Gold 5 (that also meet all other requirements below)

CS Gold 6 Server Platform Requirements

Gold 6 requires Microsoft Windows 2008 R2. This is a 64bit operating system that requires 64bit hardware. No older versions of Windows Server are supported.

For information on HP Windows 2008 R2 server compatibility:

<http://h71028.www7.hp.com/enterprise/us/en/servers/ws-servers-2008-r2.html>

For information on Dell Windows 2008 R2 server compatibility:

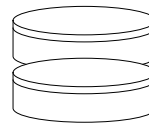
Click on the “+” WINDOWS SERVER 2008 R2 to see the Dell Server Compatibility list.

http://www.dell.com/content/topics/global.aspx/alliances/en/os_certifications?c=us&cs=555&l=en&s=biz

CS Gold Transaction Processor (TP) Server

- The parameters below are the minimums; it is possible to size the servers larger than the required minimums
- 3 logical drives total. Use 146 GB or larger drives

CS Gold TP	
RAM	8GB
Processor	2 GHz or Faster Dual Core or better
Disk Sizing	3 Drives (RAID 1 plus hot spare)
C:	48GB
D:	Remainder of C&D array
NIC	Required
UPS	Suggested



C&D Drives - RAID 1



Online Spare

CS Gold Database (DB) Server

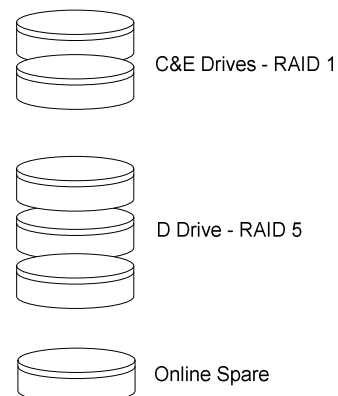
- The parameters below are the minimums; it is possible to size the servers larger than the required minimums
- The DB server may have more than 3 physical drives for the D: drive RAID 5 partition. This will depend on how much usable disk space is required in the D drives.
- The C&E drives are on the same array and the D drive is a separate array.
- The online spare drive should be shared between both arrays so that it can be used as a fail over for any drive that needs it
- Ensure that the server ordered and the RAID controller can adequately handle the amount of drives required.
- The parameters below are the minimums; it is possible to size the servers larger than the required minimums

CS Gold Single Server	
RAM	8 GB
Processor	2 GHz or Faster Dual Core or better
Disk Sizing	Min 6 Drives (146GB or larger drive sizes)
C:	48GB
D:	3 Drives configured RAID 5 See sizing equations below
E:	Remainder of space in the C&E Partition
NIC	Required
UPS	Suggested

Single Server (DB and TP in one)

- The parameters below are the minimums; it is possible to size the servers larger than the required minimums
- The C&E drives are on the same partition and the D drive is a separate partition.
- The online spare drive should be shared between both arrays so that it can be used as a fail over for any drive that needs it
- Ensure that the server ordered and the RAID controller can adequately handle the amount of drives required.

CS Gold Single Server	
RAM	8 GB
Processor	2 GHz or Faster Dual Core or better
Disk Sizing	Min 6 Drives (146GB or larger drive sizes)
C:	48GB
D:	3 Drives configured RAID 5 See sizing equations below
E:	Remainder of space in the C&E Partition
NIC	Required
UPS	Suggested



Disk sizing requirements

The critical criteria to know before sizing a system are the

- 1) Number of cardholders
- 2) Number of transactions per day on a "busy" day (this is not necessarily the busiest day, but a relatively busy day - The second Monday in September would be a good example for a school). Note that an alarm transaction counts as a transaction.
- 3) The length of time (in days) that the customer want to maintain transaction history on-line, and

The disk sizing equation provided give the disk size (in gigabytes) recommended for the system. The sizing recommendations are:

$$\text{Database disk Size [gigabytes]} = 32 + \frac{A}{3,000} + \frac{B \times C}{100,000}$$

Where:

A = Number of Cardholders

B = Number of transactions per day

C = Length of time to hold transactions online (not less than 90 days, 720 days recommended)

Note: If the patron images are not stored in the CS Gold database then the disk requirement can be marginally reduced. In this case, use the following size estimate:

$$\text{Oracle Server Disk Size [gigabytes]} = 25 + \frac{A}{10,000} + \frac{B \times C}{100,000}$$