

**Server Attributes Included in the SCON Review  
Required, Optional, and Utilization-oriented Sample Attributes**

<b>Required</b>		
<p>The SCON inventory needs to include these items to the extent they can be determined. The key attributes that are not auto-discoverable are the ownership of the server and the primary server application. Other non-discoverable attributes can be estimated from a combination of the collected attributes, survey responses, and industry experience by the team. Auto-discoverable refers to Ecora. Other tools may also capture them.</p>		
<b>Attribute</b>	<b>How Captured</b>	<b>Explanation</b>
Primary Host Name	Auto Discovered	DNS name of the server; should be unique across all servers at the site. (Needs to be unique at a site. Substitutes for the TCP/IP address)
Operational Class	Not Auto Discovered	Do you consider this a production, staging, or development server?
Infrastructure vs. LOB	Not Auto Discovered	Is this an infrastructure-services or line of business server?
Primary Server Function	Not Auto Discovered	Describe the primary function of this server using the options below. Can add values if none of these apply.
Primary Server Application Name	Not Auto Discovered	<p>What is the name of the primary functional application hosted by this server? E.g. - Exchange, Oracle, Websphere, etc..</p> <p>Automated discovery will populate the list of applications installed on each server, but only human review can determine which application is actually the primary application in use on the server.</p>
Other Server Applications (List)	Not Auto Discovered	If there are other non-utility applications running on this server in addition to the primary application, please list them by name in this cell, delimited by semicolons (;).

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Server Manufacturer	Auto Discovered	What company made the server?
Date installed	Not Auto Discovered	Needed to calculate age of the server.
Owner (contact)	Not Auto Discovered	Needed for subsequent consolidation discussions.
Owning Agency Name	Not Auto Discovered	N/A
Processor Maker	Auto Discovered	Company manufacturing the processors used in this server.
Processor Family	Auto Discovered	Family designation of the processors used. List is not comprehensive – add if missing.
Processor Speed	Auto Discovered	Rated speed of the installed processors. Needed to calculate relative processing capacity of a server.
Installed Processors	Auto Discovered	Total number of processors actually installed.
Installed Memory Capacity	Auto Discovered	Actual capacity of memory installed in the server. Used for relative capacity calculations.
Installed OS name	Auto Discovered	What is the name of the OS?
Installed OS version	Auto Discovered	What version of the OS is installed? (Don't need detailed patch lists)
Physical/Virtual Server	Auto Discovered	Is this server physical or virtual?
Physical Server Host Name	Auto Discovered	If the server is virtual, then what is the name of the physical server that's hosting this virtual server instance?

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<b>Optional</b>		
The SCON inventory and analysis can be completed without these attributes; however it may be helpful to capture them during the scan now, when the additional effort and time to do so is minimal. This detail gives departments more information to work with and leverage later on, if needed.		
Model Number	Auto Discovered	OEM model number
Mfr's model config detail	Auto Discovered	Sometimes model numbers have specific configuration options. If known, list here. Useful for determining configuration details from OEM info.
Server Serial Number (from BIOS)	Auto Discovered	Individual serial number of this server, if available. Can be useful for linking to other information sources.
BIOS Maker	Auto Discovered	Maker of the server's installed BIOS. Typically the OEM.
BIOS Name	Auto Discovered	N/A
BIOS Version	Auto Discovered	N/A
Max Processors	Auto Discovered	Maximum capacity for processors of the server baseboard, whether or not all processors are populated.
HBA Installation Count	Auto Discovered	How many HBA's are installed in this server?
SAN Link Speed	Auto Discovered	What is the link speed of the Fibre Channel or Ethernet links that attach this server to the SAN?
SAN Port Count	Auto Discovered	How many total ports are available for this server to connect to the SAN (a measure of redundancy)?
Allocated SAN Capacity	Auto Discovered	How many total ports are available for this server to connect to the SAN (a measure of redundancy)?
Installed Network Ports	Auto Discovered	Total number of ports installed.
Installed Network Adapter Type	Auto Discovered	What's the rated speed of the links?
Primary Network Protocol	Auto Discovered	Expect this to generally be TCP/IP

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**Utilization-Oriented (for a Sample of Servers)**

Please let the team know if you have this data for your servers or would be interested in gathering it. The study's recommendations and analysis will be more of a high level representation of efficiencies that are possible, appropriate, and reflective of what's going on the industry. Utilization at the individual server level will not be done statewide. Because it is an important driver related to what can ultimately be achieved, the team needs to collect these attributes for approximately 100 servers in order to address this topic in the study.

The team is primarily interested in your feedback concerning resource consumption and future growth expectations for the most critical servers in your environment. These are often the servers that are most challenging to consolidate or migrate. In the table below, we've indicated the most critical elements by **shading** those cells. If possible, please fill this information in for the infrastructure and especially line of business servers that are most critical to your operation.

Descriptions/Comments	Not Auto-discovered	General description of the server.
Lease/Warranty Period	Auto Discovered	Given the lease/warranty period and the installation date, can determine if the system is still under warranty/lease.
Memory Speed	Auto Discovered	Speed of installed memory.
Max Memory Capacity	Auto Discovered	Total theoretical capacity of the server.
Local Storage Adapters	Auto Discovered	# of SCSI, FC, SAS, SATA, etc. RAID or non-RAID local disk controllers.
Local Storage Type	Auto Discovered	Primary type of storage used locally.
Local Storage Disk Count	Auto Discovered	Total number of locally-installed disk spindles (DAS).
Local Storage Capacity	Auto Discovered	Total capacity (in GB's) of all locally installed drives. Used for relative capacity calculations.
Local Storage Used	Auto Discovered	Number of GB's of local storage used.

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SAN Attached?	Auto Discovered	Is the server attached to a SAN? If so, then HBA info should be filled in. (Note: an IP SAN is still a SAN, and an IP HBA is still an HBA - this is not restricted to Fibre Channel).
NAS Storage Used	Not Auto Discovered	Does this server use any network-attached storage servers for its files?
Overall Storage Growth Rate	Not Auto Discovered	In percentage terms, what is the annual growth rate of the storage associated with this server?
Installed Network Adapters	Auto Discovered	How many network adapters are installed in this server (an indicator of network bandwidth requirements and/or redundancy considerations).
Network Bandwidth Constrained?	Not Auto Discovered	Is this server bandwidth constrained?
Peak Rate Limiter	Not Auto Discovered	If there is a factor limiting the observed peak utilization of this server, what is it? E.g. - is this server compute-bound, memory-bound, or I/O bound?
Peak Rate Timing	Not Auto Discovered	When does the observed peak for this server occur, if there is any regularity to the peaking behavior?
Estimated Maintenance Cost	Not Auto Discovered	What is the annual maintenance cost of this server?
Estimated Acquisition Cost	Not Auto Discovered	What was the original acquisition cost of this server? Used for financial analyses.

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5-year Migration Expectations	Not Auto Discovered	In the next five years, do you expect that changes in the workload on this server will require a platform migration to a higher- or lower-capacity platform?
Growth Rationale	Not Auto Discovered	Describe the factors driving that growth or decline in required platform capacity.
New Instance Growth Expectations	Not Auto Discovered	In the next five years, expressed in units, how many additional (or fewer) instances of this server do you expect to have to deploy?
New Instance Growth Rationale	Not Auto Discovered	What factors are driving the growth or decline of server instances?
Uptime Requirement	Not Auto Discovered	What is the required uptime level for this server?
Instance Isolation Required?	Not Auto Discovered	Is this server required to be physically isolated on its own hardware platform? (e.g. - is there some external factor which prohibits virtualization-based consolidation of this server?)
Isolation Requirement Type	Not Auto Discovered	If so, what is the nature of that isolation requirement?
Consolidation Assessment	Not Auto Discovered	If you have evaluated the viability of consolidation of this server, what was the result?
Consolidation Cost Estimate	Not Auto Discovered	If you have estimated the cost associated with consolidating this server, what was it?