Single-Server Hardware Sizing and Requirements

The single server hardware guidelines provide suggested sizing for your system

> Servers are assumed to have at least four cores (3.0GHz or better) and are no more than four years old. As memory and usage increases, the number of CPU cores needs to increase. Dual-core CPUs can work for the most basic installations, but such configurations are not recommended.

Note:

These hardware requirements assume you have a host dedicated to the Cruz Operations Center application. Other applications may compete for ports or other resources and can impair the system's performance.

When estimating the size of a deployment, it is important to understand the application configurations in the target environment. For example, the most resource-intensive, demanding applications are Traffic Flow Analyzer (TFA), Event Management, and Performance Monitoring.

- Standalone single-server installations with minimal use of high-resource demanding applications: The minimum hardware required is 8-GB RAM, 6-core CPU (2.8-GHz or better), 200-GB 10,000-RPM disk. If the network you manage exceeds these parameters or your system monitors more devices than your hardware can handle, consult your Dorado sales representative about upgrading to a more robust or multi-server version.

- Distributed installation of a single component server, such as Application Server only, Mediation Server only, Database Server only, or Web Server only: The minimum hardware recommended is 10-GB RAM, four-core or more CPU (2.8-GHz or better), 400-GB 10,000-RPM disk.

Table 3-1. Single Server Hardware Requirement Guidelines (Sheet 1 of 3)

Max. Managed Devices	64-bit Operating System: Disks/RAM/ Hardware/Core (CPU)	Max. Concurrent Users	Performance Monitor Max. Targets	Max. Traffic Flow Exporters	Suggested Heap Memory Settings
25	8GB RAM, single disk, consumer level PC/2-4 Core	5	2500	5	Use defaults: (3GB Application server heap, 512M database, 2GB Synergy Web server)
50	10GB RAM, single disk, consumer level PC/2-4 Core	8	5000	5	3-6GB Application server heap, 512M database buffer, 2G Synergy Web server
100	12GB RAM, single disk, consumer level PC/2-6 Core	10	10000	10	4-7GB Application server heap, 1GB database buffer, 3GB Synergy Web server
175 - 250	14GB RAM, single disk, business level PC/4-6 Core	15	25000	25	4-9GB Application server heap, 1GB database buffer, 3GB Synergy Web server
300 - 500	16GB RAM, single disk, business level PC/4-6 Core	25	50000	50	5-10GB Application server heap, 2GB database buffer, 3GB Synergy Web server

Table 3-1. Single Server Hardware Requirement Guidelines (Sheet 2 of 3)

Max. Managed Devices	64-bit Operating System: Disks/RAM/ Hardware/Core (CPU)	Max. Concurrent Users	Performance Monitor Max. Targets	Max. Traffic Flow Exporters	Suggested Heap Memory Settings
1000	18GB RAM, multi-disk, server level PC /6-8 Core	50	100000	100	8-12GB Application server heap, 3GB database buffer, 5GB Synergy Web server
2000	32GB RAM, multi-disk, server level PC. Recommend fast disk array or SSD drive array for the large number of database actions. /6-8 Core	100	200000	100	10-14GB Application server heap, 8GB database buffer, 8GB Synergy Web server
2500	40GB RAM, multi-disk, server level PC.	125	250000	125	12-16GB Application server heap, 10GB

	Recommend fast disk array or SSD drive array for the large number of database actions. /6-8 Core				database buffer, 12GB Synergy Web server
3000	48GB RAM, multi-disk, server level PC. Recommend fast disk array or SSD drive array for the large number of database actions. /8-12 Core	150	400000	150	14-16GB Application server heap, 10GB database buffer, 12GB Synergy Web server
5000	64GB RAM, multi-disk, server level PC. Recommend fast disk array or SSD drive array for the large number of database actions. /10-14 Core	175	600000	200	20-24GB Application server heap, 16GB database buffer, 16GB Synergy Web server
7500	80GB RAM, multi-disk, server level PC. Recommend fast disk array or SSD drive array for the large number of database actions.	200	850000	250	28-32GB Application server heap, 20GB database buffer, 20GB Synergy Web server
10000	128GB RAM, multi-disk, server level PC. Recommend fast disk array or SSD drive array for the large number of database actions. 14+ Core	225	1000000	300	38-44GB Application server heap, 24GB database buffer, 24GB Synergy Web server

UNLIMITED / HIGH AVAILABILITY (HA)

The product can support an unlimited RTM (device count) license where there is no limit on the number of managed devices in inventory. There are many factors to consider when sizing with an unlimited license.

High Availability (HA) deployments are also available. Environments managing over 5000 elements should consider an HA deployment. Custom sizing will be provided if you are considering HA or unlimited license.

For more information on sizing, please see Verifying System Requirements in the user guide, located in the Doc section of the knowledge base.

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