

Advent Syncova Broker 15.2 System Requirements

General Notes

- This document provides minimum hardware configuration requirements for each type of server required for Advent Syncova® Margin Broker (“Syncova Broker”). It does not provide guidance for setting up systems with which Syncova Broker may interact.
- Syncova Broker is designed to be hardware-scalable and to work with any specification of an Intel-based server, including blade servers. This means that you can configure Syncova Broker to a “scale out” or “scale up” architecture depending on the specific application requirement. Windows 2008 and 2003 servers have also been certified for use with Advent Syncova products for both 32-bit and 64-bit platforms. For larger installations, and installations requiring new hardware, Advent recommends 64-bit servers for improved performance, scalability, and memory usage. Keep in mind that more recent releases of Windows Server run on 64-bit processors exclusively. Syncova Broker is compatible with SQL Server 2014, 2012, and 2008, and again, Advent recommends the 64-bit version.
- Advent provides performance and capacity guidelines for planning purposes only. Because many variables affect the performance of your system and the size of your data files, Advent assumes no liability for hardware purchase decisions. Please consult your systems consultant about specific configuration decisions.
- Precise deployment configuration and hardware recommendations depend on your firm’s target volumes, batch processing times, and intraday processing requirements. The configurations described in this document represent the most typical hardware profiles.

Standard-Volume Configuration

- For processing volumes up to 50,000 positions, where the majority of processing involves a single run per account with some T+1 adjustment and reprocessing
- 64-bit processors and 8 GB of memory minimum recommended for all new installations

	GUI Server	Application Server	Database Server	User Workstation
Hardware	Intel	Intel	Intel	Intel
Operating System	Microsoft Windows Server 2008 or 2003, Standard edition, 64-bit	Microsoft Windows Server 2008 or 2003, Standard edition, 64-bit	Microsoft Windows Server 2008 or 2003, Standard edition, 64-bit	Windows 7 or Windows XP, 32- or 64-bit
CPU	2 (with Dual-core)	2 (with Dual-core)	2 (with Dual-core)	2 (with Dual-core)
Onboard Memory	8 GB	8 GB	8 GB	4 GB
Network Card	1 Gigabit	1 Gigabit	1 Gigabit	1 Gigabit
Disk Storage	40 GB (2 disks)	40 GB (2 disks)	100 GB External array or SAN	40 GB

High-Volume Configuration

- For processing volumes exceeding 50,000 positions with high volumes of intraday, near real-time processing
- For optimal performance, a database server must use a disk array with multiple disks configured under RAID. Typically, SANs lack sufficient speed for the large volume of inserts and updates generated by Syncova.
- 64-bit processors and 16 GB of memory minimum recommended for all new installations
- 2 x 1 Gigabit network card recommended, or 4 x 1 Gigabit network card if 8 CPUs are in use

	GUI Server	Application Server	Database Server	User Workstation
Hardware	Intel	Intel	Intel	Intel
Operating System	Microsoft Windows Server 2008 or 2003, Standard edition, 64-bit	Microsoft Windows Server 2008 or 2003, Enterprise edition, 64-bit	Microsoft Windows Server 2008 or 2003 Enterprise edition, 64-bit	Windows 7 or Windows XP, 32- or 64-bit
CPU	2 (with Quad-core)	2 (with Quad-core)	4 (with Quad-core)	2 (with Dual-core)
Onboard Memory	16 GB	16 GB	16 GB	4 GB
Network Card	2 x 1 Gigabit	2 x 1 Gigabit	4 x 1 Gigabit	1 Gigabit
Disk Storage	40 GB (2 disks)	40 GB (2 disks)	200 GB External array (recommended) or SAN	40 GB

Clustering and Load Balancing

All server types work with a clustering/load-balancing solution. Advent recommends a minimum of one of each type of server in the production layer and one of each in the disaster recovery (DR) layer. You can include the DR layer in the production layer to facilitate an immediate failover response, and to ensure that DR is always synchronized with production.

All server types can support multi-site clustering, that is, combining DR and production servers into single active-active cluster.

Server type	Recommendation	Minimum # of servers for standard volume	Minimum # of servers for high volume
GUI Server	Servers load-balanced using IP routing	<ul style="list-style-type: none"> ■ 1 production ■ 1 DR 	<ul style="list-style-type: none"> ■ 2 production ■ 1 DR
Application Server	GRID Load-Balancer	<ul style="list-style-type: none"> ■ 2 production ■ 1 DR 	<ul style="list-style-type: none"> ■ 3 production ■ 1 DR
Database Server	MS Clustering Services	<ul style="list-style-type: none"> ■ 1 production ■ 1 DR 	<ul style="list-style-type: none"> ■ 1 production ■ 1 DR

System Software

Software	Description	GUI Server	Application Server	Database Server	User workstation
Microsoft .NET 4.0 Framework	Application framework, including runtime environment within which .NET components run	✓	✓		✓
Microsoft Message Queuing (MSMQ) 2.0 or higher	Microsoft message queue to handle all internal messaging within the Application Server	✓	✓		
IIS 6.0 or higher	Microsoft Internet Information Services for hosting Web services	✓			
SQL Server 2014, 2012, or 2008 Client Tools		✓	✓		✓
SQL Server 2014, 2012, or 2008 Standard or Enterprise (64-bit)	Relational database for data repository and reporting. SQL Server Reporting Services (SSRS) required. 64-bit server recommended.			✓	

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