



Synerion Direct WFM System Requirements

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Overview

This document itemizes system requirements necessary for the installation of **Synerion Direct version 2.1 [WFM] with the TimeKeeper Analytics option**.

WFM Server Scalability Requirements

2.1 Up to 999 Employees

Number of Servers	1 server - The App Server and SQL Database can be located on the same server
Memory	8 GB
CPU	Intel XEON Quad Core, 2.4 GHz
HDD	~ 20 GB

2.2 1000 – 3000 Employees

Number of Servers	3 servers: <ul style="list-style-type: none">• IIS• APP [TK application + SD services]• SQL Each of the servers must be a dedicated server; the SD system cannot be placed on the same server or on shared network servers.
Memory	8 GB for each server
CPU	Intel XEON Quad Core, 2.4 GHz for each server
HDD	~ 10 GB for the App Server ~ 50 GB for the SQL Server

2.3 Over 3000 Employees

For system requirements for the deployment of over 3000 employees, please contact your Synerion implementer.

General Server Requirements

Component		Required
Additional Devices		HASP Dongle ^{1 2}
Operating System		<ul style="list-style-type: none"> MS Windows 2008 Server Standard (32 - and 64 - bit) MS Windows 2008 R2 Standard MS Windows 2008 Server Enterprise (32 - and 64 - bit) MS Windows 2008 R2 Server Enterprise MS Windows Server 2012 Standard Edition Minimum (32 - and 64 - bit)
SQL Database SW		<ul style="list-style-type: none"> MS SQL Server 2008 Standard Edition 32- and 64-bit, or MS SQL Server 2008 R2 Standard Edition 32- and 64-bit MS SQL Server 2012 Standard Edition 32- and 64-bit
	Storage	Data and log files can be in separate volumes
	Database Parameters	Turn off Auto Shrink Turn on AUTO_CREATE_STATISTICS and AUTO_UPDATE_STATISTICS Page Verify - CHECKSUM
	Server Collation	Case Insensitive
	SQL Database License	There are 2 licensing options: <ul style="list-style-type: none"> CAL license per user, or CAL license per device – this option is based on the CPU core (amount) on the SQL Server number. NOTE: The second option is for an organization with a higher number of users.
Default ANSI Code Page		1255 (ANSI – language according to the region of the client)
SSO Mode		Active Directory

¹ The SafeNet run-time driver must be installed on the same computer hosting the application

² If it is a network HASP, it does not need to be installed physically on the server.

Component		Required
Requirements ³		<ul style="list-style-type: none"> Delegation with Kerberos authentication is needed for certain accounts and computers MSMQ - Active Directory Domain Services Integration.
Additional Requirements	IIS	<ul style="list-style-type: none"> IIS 7 IIS 7.5 IIS 8
	NET Framework	Either: .NET Framework 4 NDP40-KB2468871-v2-x86.exe or NDP40-KB2468871-v2-x64.exe (32- or 64-bit) Or .NET Framework 4.5
	Permissions	The user running Synerion products' services must be assigned to local admin permissions, and assigned to SynerionHCMServerRole in Synerion database.
	MSDTC	Distributed Transactions Coordinator Service must be running in all Synerion servers.
	Certificate	Synerion products require a trusted certificate. This could be a self-signed or a trusted publisher's certificate
	Messaging Software	Microsoft Message Queuing 3.0 (or above) ⁴ Active Directory Domain Services Integration (only relevant if you are using SSO)

³ Client and server must be on the same domain

⁴ Only the common sub-components need to be installed

Client Requirements

Component	Minimum	Recommended
Processor	Any Intel® Core™ 2 Duo Processor and higher	
Memory	2 GB	4 GB
Hard Disk	At least 1GB of free disk space	
Screen Display	1280 x 1024	1680 x 1050 ⁵
Network Card	100/1000 Mbps	
Bandwidth	At least 2.5 MB	
Video Card	Must support DirectX 9 with 256 MB memory	Support DirectX 9 with 512 MB memory
Operating System	<ul style="list-style-type: none"> Windows XP SP3 Windows 7 (32 and 64-bit) Windows 8 Windows 8.1 	
Additional Components	<ul style="list-style-type: none"> Adobe Acrobat Reader 9 or Foxit Reader Office 2007 or Office 2010 (Word, Excel, Outlook) 	
	Silverlight Plug-In version 5.1.20913.0	
Web Browsers	Must be compatible with Silverlight requirements. See Appendix A: Operating System and Web Browser Requirements .	
Certificate	Each client must have a certificate installed on the local PC.	
Default ANSI Code Page	1255 (ANSI – language according to region of client)	
Certificate	When using a self-signed certificate each client must have a certificate installed on the local PC.	

⁵ For wide screen

Appendix A: Operating System and Web Browser Requirements

The following table describes the operating system/web browser requirements for the Synerion Direct.

IMPORTANT: TimeKeeper Analytics and Employee Based Scheduling [EBS] are supported only by Internet Explorer.

OS/Browser	IE7	IE8	IE9	IE10	IE11	Firefox 12+	Google Chrome 12+
Windows XP	✓	✓				✓	✓
Windows 7		✓	✓			✓	✓
Windows 7 SP1		✓	✓	✓	✓	✓	✓
Windows 8				✓		✓	✓
Windows 8.1					✓	✓	✓

Appendix B: MS Office Versions Supported

The following table lists MS Office versions supported by Synerion Direct application. The latest SD release is version 2.1.

MS Office version	SD version first supported
2003	1.0
2007	1.0
2010	1.0
2013	1.8