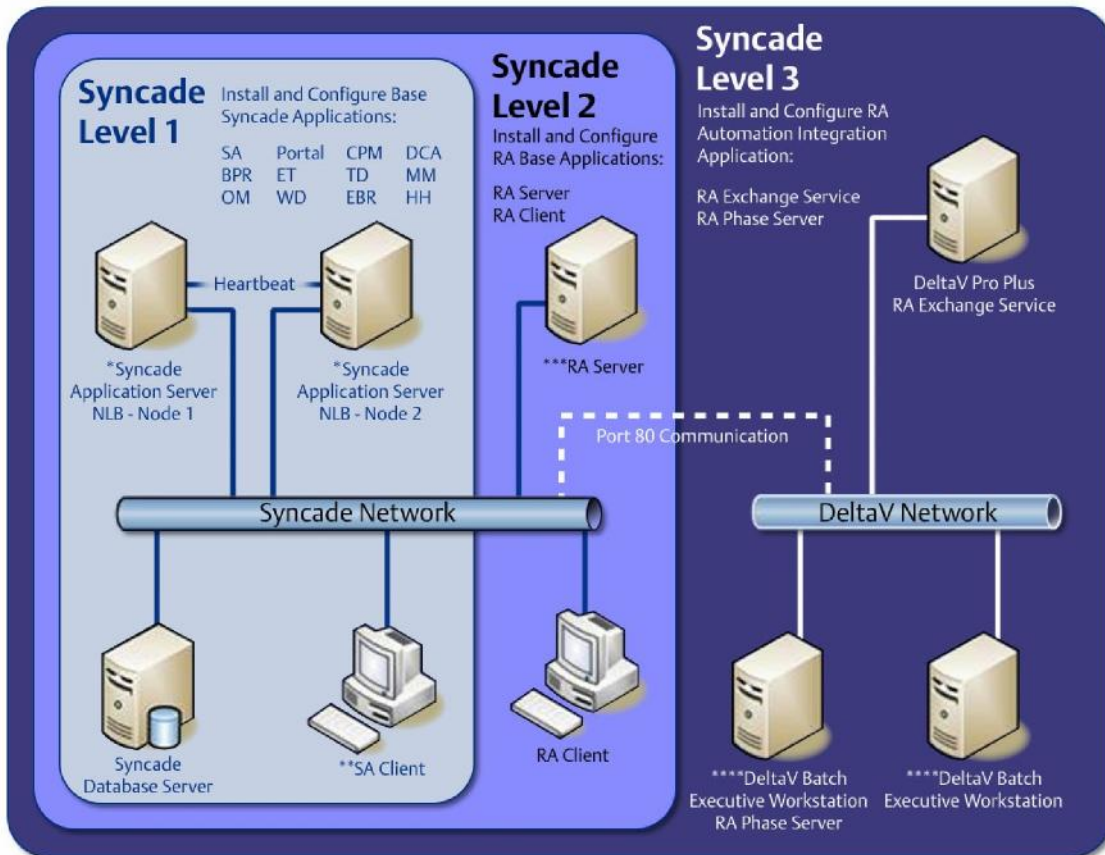


# Syncade™ Suite Applications System Requirements and Recommendations

**NOTE: The required hardware and software listed are not provided unless otherwise specified. Installation and usage of Syncade software on Virtualization platforms is not supported.**

## 1 System Setup Diagram



\* The above diagram shows Syncade suite configured in a Network Load Balanced Configuration (NLB). Users may opt to use a single Application Server.

\*\* SA must be installed on Syncade Application Server(s). Installing SA on client workstations is optional but may simplify Administration tasks for some organizations.

\*\*\* Organizations may install RA Server on the Syncade Application Server(s). This will result in degraded Syncade performance when Import, Export, Refresh, Upload and Publish actions are performed by RA Clients. Organizations that opt for this configuration should ensure procedures are in place to minimize the impact of these actions (i.e. by only performing them during non-production hours).

\*\*\*\* RA Phase Server must be installed on all DeltaV Batch Executive workstations that will interface with Syncade suite. This diagram reflects a workstation that does interface with Syncade suite and another that does not.

## 2 Application Server Requirements

The application server can be the same machine that is hosting the Database Server.

Microsoft® Windows® 2003 Server (32 bit) (with Service Pack 1 or Service Pack 2 <sup>1</sup> )
Intel Xeon 3GHz / Dual Core Xeon 2.6 GHz / Quad Core Xeon 2.0 GHz or higher microprocessor
2 GB RAM (4 GB RAM Recommended)
50 GB free hard-disk space
SVGA or higher resolution video (1024 x 768 or greater)
1 00-BaseT network transmission speed or better
Two network adapters, if used in Network Load Balancing (NLB) environment
ActivePDF Toolkit 4.6 Professional
Crystal Reports 10.0 Professional Edition (used by Reports and MM, OM, WD) <b>OR</b> Crystal Reports 11 Standard (Reports) <b>AND</b> Crystal Reports 11 Server (MM, OM, WD)
Microsoft® Office 2007 Professional
Microsoft® SQL Server™ 2005 <sup>2</sup> Management Studio (for script execution during installation)
Dundas Chart for <a href="#">ASP.NET</a> - Enterprise (VS 2002/2003 version 5.5.0.1697) (optional)
Adobe® Acrobat Reader 8 (Optional)
Microsoft® Office 2007 Visio Professional (Optional)
Microsoft® Office 2007 OneNote (Optional)

## 3 Database Server Requirements

Microsoft® Windows® 2003 Server (32 bit) (with Service Pack 1 or Service Pack 2)
Intel Xeon 3GHz / Dual Core Xeon 2.6 GHz / Quad Core Xeon 2.0 GHz or higher microprocessor
2 GB RAM (4 GB RAM Recommended)
100 GB free hard-disk space
SVGA or higher resolution video (1024 x 768 or greater)
1 00-BaseT network transmission speed or better
Microsoft® SQL Server™ 2005 <sup>3</sup> (with Service Pack 2 or 3) Standard or Enterprise <sup>4</sup>  SQL Server must be installed in Mixed Mode (SQL Server and Windows Authentication mode option)

<sup>1</sup> Installations of Syncade Suite running on Windows 2003 Server Service Pack 2, must install the following Windows hotfix to ensure proper Syncade Suite operations: <http://support.microsoft.com/kb/936296>

<sup>2</sup> Installations of Syncade using SQL Server 2005 must manually set the database compatibility level to "SQL Server 2000 (80)"

<sup>3</sup> Installations of Syncade using SQL Server 2005 must manually set the database compatibility level to "SQL Server 2000 (80)"

<sup>4</sup> Enterprise edition allows for database maintenance to be performed while the system is running. Standard edition will require some system downtime to perform maintenance.

#### 4 Syncade Client Machine

Microsoft® Windows® 98 / NT 4.0 SP6 / 2000 / XP (32 bit)
Microsoft® Internet Explorer 6.0 (with currently available Service Packs) <b>OR</b> Microsoft® Internet Explorer 7.0 (with currently available Service Packs)
Pentium IV 2.0 GHz or higher microprocessor
512 MB RAM (1 GB RAM Recommended)
500 MB free hard-disk space
SVGA or higher resolution video (1024 x 768 or greater)
1 00-BaseT network transmission speed or better
Adobe® Acrobat Reader 5 / 6 / 8 (or higher)
Microsoft® Office 2007 Professional (Optional)

#### 5 Recipe Authoring (RA) 4.0 Client Machine

Microsoft® Windows® XP Professional (32 bit) (with currently available Service Packs)
Pentium IV 2.0 GHz or higher microprocessor
1 GB RAM
25 MB free hard-disk space (Additional space is required for recipes and behaviors.)
SVGA or higher resolution video (1024 x 768 or greater)
1 00-BaseT network transmission speed or better
Microsoft® Office 2007 Professional

#### 6 Recipe Authoring (RA) 4.0 Server Machine

The RA server can be the same machine that is hosting the Application Server.

Microsoft® Windows® 2003 Server (32 bit) (with Service Pack 1 or Service Pack 2)
Intel Xeon 3GHz / Dual Core Xeon 2.6 GHz / Quad Core Xeon 2.0 GHz or higher microprocessor
2 GB RAM (4 GB RAM Recommended)
SVGA or higher resolution video (1024 x 768 or greater)
1 00-BaseT network transmission speed or better
50 GB free hard-disk space

## 7 Recipe Authoring (RA) Phase Server

Microsoft® Windows® 2003 Server (32 bit) (with Service Pack 1 or Service Pack 2)
Installed on DeltaV Batch Executive Server
1 00-BaseT network transmission speed or better

## 8 Recipe Authoring (RA) Exchange Service

Microsoft® Windows® 2003 Server (32 bit) (with Service Pack 1 or Service Pack 2)
Installed on DeltaV Pro Plus
1 00-BaseT network transmission speed or better

## 9 Portable Data Terminal

Pocket PC OS Version. 5.0 or better, running Microsoft® Pocket Internet Explorer
Wireless protocol 802.11 b or better
Barcode scanner capable of reading the following fonts: UPC/EAN Code 39 Code 128

## 10 Virtualization

Installation of any Syncade components, products or applications are not supported if installed within a virtualized environment. This includes but is not limited to: Application Servers, Database Servers, RA Servers and components, and the SA Application. Installations of Syncade in a virtualized environment are ineligible for support.