

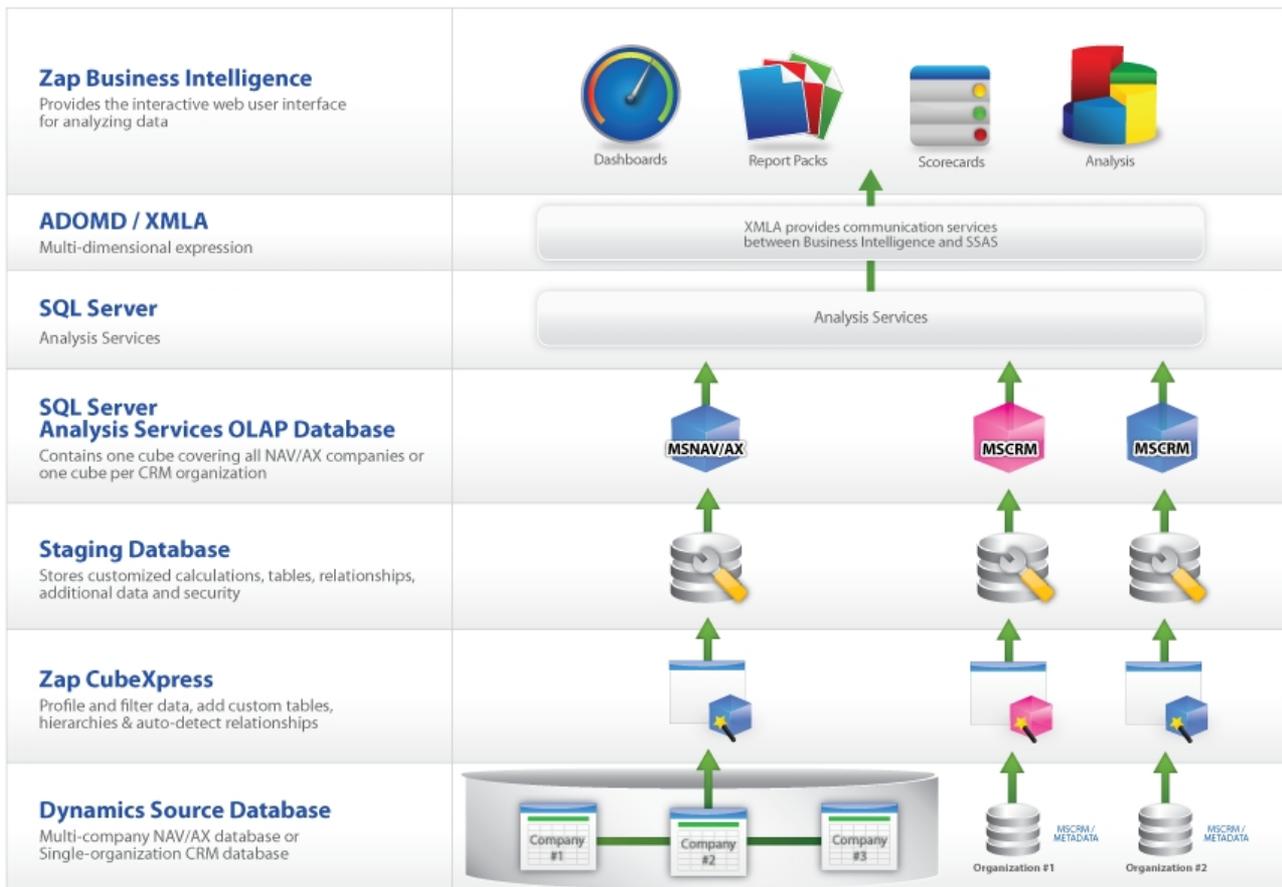
Deployment and Integration

- The zero footprint web architecture ensures no intrusion on your users' computers.
- Use Zap CubeXpress to bring in Microsoft Dynamics® customizations and replicate security.
- View analytics via Outlook®, export to Excel®, or integrate with SharePoint®, as well as Microsoft Dynamics AX, CRM, or NAV.

Technology

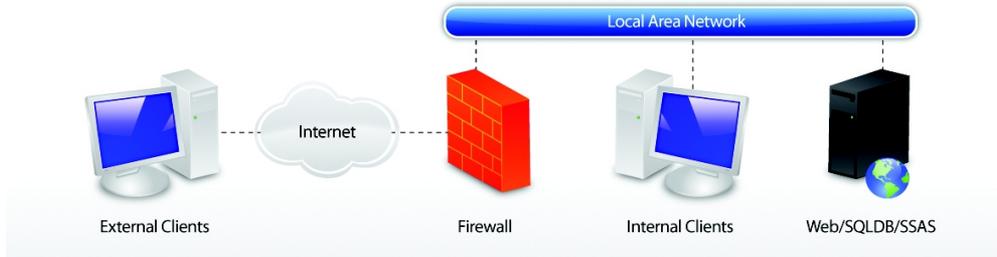
- 100% Microsoft technology, minimizing the skills and resources you need to deploy analytics.
- Specifically designed to minimize network bandwidth usage.
- Highly scalable from one to thousands of users. Suitable for SMEs through to enterprise.

Architecture >> Either multi-tenancy or single on premise



Deployment Options and Specifications

» **All-In-One Option** - Installing on a single server is suitable for small and medium-sized enterprises, and includes all necessary components on the same machine. Suitable for companies with fewer users and source systems under 50GB (or with OLAP cubes under 4GB).



Specifications

Recommended Hardware

Processor	Dual 2 GHz Quad Core Xeon
RAM	8Gb
Hard Disk Space	5GB ¹

Required Software

Server Operating System	Windows® Server 2003/2008 /2008 R2 ²
Internet Information Services	IIS/Web Server role to be installed on supported operating system
Microsoft .NET Framework	4
SQL Server Database Engine	SQL Server 2005 SP3/ 2008 SP1 / 2008 R2
SQL Server Analysis Services	SQL Server 2005 SP3/ 2008 SP1 / 2008 R2
Browser (for printing)	See Client PC (below)

Optional Software

SQL Server Reporting Services	SQL Server 2005 SP3/ 2008 SP1 / 2008 R2
-------------------------------	---

Microsoft Dynamics

CRM: 3.0 / 4.0 / 2011 | NAV: 4.0 / 5.0 / 2009 | AX 4.0 / 2009

Client PC for BI

Operating System	Microsoft Windows-based PC.
Browser	<ul style="list-style-type: none"> ■ Microsoft Internet Explorer® 8 / 9 ■ Google Chrome® 8 and above ■ Apple Safari® 5 and Mobile Safari® 4 (iPad)
PDF	Adobe Reader 7.0 or newer (for printing)
Microsoft Office Excel	2000 and above (for export to .xls format)

Caution: Before implementation, discuss this specification with your authorized Zap Partner.

- For current release patch/version information, refer to Knowledge Base article #207.
- Recommendations are only provided for Business Intelligence requirements and not existing source system load.
- Zap recommends that the Business Intelligence server role be isolated from the source application and database servers.
- The All-in-one Business Intelligence server option will cater for either a single tenant or a limited multi-tenancy environment depending on individual cubes.
- Specifications are based on configurations with physical machines; specifications may differ for virtual machines.
- All SQL Server versions referenced are Standard or Enterprise edition.
- SQL Server Enterprise Edition is required for the following in CubeXpress:
 - Translations. In the Standard edition, all objects are displayed using its 'Name' (language features are hidden in CubeXpress).
 - Aggregations. Semi-additive aggregation types are not available in the Standard edition. Only the Sum, Count, Min, and Max types are available.

Table Notes

1. A SQL Server Analysis Services cube's size is directly proportional to the size of its source database.
2. To utilize more than 4GB of memory, the 64-bit versions of Windows Server are required.

Deployment Options and Specifications

» **Distributed Option** - The distributed environment supports source systems up to 100GB. For source systems above 100GB, please refer to the Microsoft SQL Server performance guides.



Specifications			
Web Application Server		SQL Server - Database Engine	
Recommended Hardware		Recommended Hardware	
Processor	2 GHz Quad Core Xeon	Processor	2 GHz Quad Core Xeon
RAM	4GB	RAM	8GB
Hard Disk Space	100MB	Hard Disk Space	500MB ² + Staging Database ³
Required Software		Required Software	
Server Operating System	Windows Server 2003/ 2008 / 2008 R2 ¹	SQL Server Version	SQL Server 2005 SP3/ 2008 SP1 / 2008 R2
Internet Information Services	IS/Web Server role to be installed on supported OS.	Server Operating System	Windows Server 2003/ 2008 / 2008 R2 ⁴
Microsoft .NET Framework	4		
Browser (for printing)	See Client PC (below)	SQL Server - Analysis Server	
Optional Software		Recommended Hardware	
Reporting Services Version	SQL Server 2005 SP3/ 2008 SP1 / 2008 R2	Processor	Dual 2 GHz Quad Core Xeon
Client PC for BI-Required Software		RAM	12GB plus ⁵
Operating System	Microsoft Windows-based PC.	Hard Disk Space	See <i>Table Notes</i> ⁶
PDF (for printing)	Adobe Reader 7.0 or newer	Required Software	
Browser	<ul style="list-style-type: none"> ■ Microsoft Internet Explorer® 8 / 9 ■ Google Chrome® 8 and above ■ Apple Safari® 5 and Mobile Safari® 4 (iPad) 	SQL Server Version	SQL Server 2005 SP3/ 2008 SP1 / 2008 R2
Microsoft Office Excel	2000 and above (for export to .xls)	Server Operating System	Windows Server 2003/ 2008 / 2008 R2 ⁴
Microsoft Dynamics			
CRM: 3.0 / 4.0 / 2011 NAV: 4.0 / 5.0 / 2009 AX 4.0 / 2009			

Caution: Before implementation, discuss this specification with your authorized Zap Partner.

- For current release patch/version information, refer to Knowledge Base article #207.
- Recommendations are provided only for Business Intelligence requirements and not existing source system load.
- Zap recommends that the Business Intelligence server role be isolated from the source application and database servers.
- The specification for distributed role environments are based on physical machine requirements and presumes that the reason for distribution is due to larger volumes of data. Specifications may differ for virtual machines.
- For information about web-farm specifications, please contact your authorized Zap Partner.
- Network load balancing is supported using affinity (sticky sessions); however, Auto Failover is not provided for the session. That is, if load balancing fails over, the existing session is lost and a new session started with affinity to the new web server in the farm.
- For source systems above 100GB, please refer to the Microsoft SQL Server performance guides.
- All SQL Server versions referenced are Standard or Enterprise edition. SQL Server Enterprise Edition is required for the following in CubeXpress:
 - Translations. In the Standard edition, all objects are displayed using its 'Name' (language features are hidden in CubeXpress).
 - Aggregations. Semi-additive aggregation types are not available in the Standard edition. Only the Sum, Count, Min, and Max aggregation types are available.

Table Notes

1. To utilize more than 4GB of memory, you will require 64-bit versions of Windows Server.
2. Disk configuration to be in accordance with SQL Server performance guidelines for RAM and disk I/O specification.
3. SQL Server staging database created by Zap CubeXpress can be up to 80% of the size of the source system.
4. If clustering is used, an appropriate Windows version to support clustering is required.
5. For large data volumes, please refer to Microsoft Analysis Services performance guidelines for RAM specification.
6. A SQL Server Analysis Services cube's size is directly proportional to the size of its source database.

Zap CubeXpressRequirements

Hardware requirements for CubeXpress are minimal - it consumes resources only when you wish to migrate new source database customizations, or modify the cube.

CubeXpress is run typically on the Analysis Services Server, which may also host the CubeXpress Staging Database.

Note: Additional entities added to the source database relate to additional dimensions created by CubeXpress. This means that in some cases the larger the number of customizations, the more RAM is consumed by SQL Analysis Services and more disk space by SQL Database Engine.

Software Requirements

CubeXpress requires administrative privileges to install. The .NET Framework 4 will be deployed if it's not already installed. CubeXpress can be run on Windows XP®, Windows Vista®, Windows 7®, Windows Server 2003®, or 2008 Server. However, the OLAP cube should be deployed to a server of your choice with Analysis Services.

SQL Server 2005 SP3, 2008 SP1, and 2008 R2 source databases are supported. If using databases from Microsoft Dynamics, the following versions are supported:

- CRM: 3.0 / 4.0 / 2011
- NAV: 4.0 / 5.0 / 2009
- AX: 4.0 / 2009

Note: Zap Business Intelligence must be installed on a Windows Server operating system.

