

RISKANALYST™ Version 5.2

SYSTEM REQUIREMENTS

WEB SERVER DEPLOYMENT

In order for the RiskAnalyst Version 5.2 software to be successfully installed and operated, the following recommended minimum hardware and software requirements must be met.

Production requirements will depend on anticipated usage patterns including such variables as total users, concurrent users, percentage of read-only users, activities being performed within RiskAnalyst, etc. and can include the implementation of load balanced servers to accommodate your needs. Load testing in your environment is recommended to confirm your planned implementation configuration.

 **NOTE**

The load balancing solution must be configured to maintain session affinity with sliding window timeouts.

WEB SERVER REQUIREMENTS

 **NOTE**

RiskAnalyst should be installed on a dedicated web server that is located on the same LAN as the database server. Failure to do so may cause performance problems or conflicts that inhibit proper RiskAnalyst operation.

- Windows 2003 Service Pack 2 Standard Edition, Web Edition or Enterprise Edition (32 bit version only)
- Pentium 4, 1.5 GHz
- 2GB RAM
- Internet Information Server 6.0
- .NET Framework Runtime 2.0 (will be installed by RiskAnalyst if not already present)
- MDAC 2.8 (included with Windows 2003)
- 200 MB free disk space for program files
- Oracle 10.2.0.3 or 11.1.0.6 client software (if using an Oracle database)
- Internet access (if using Moody's KMV RiskCalc® or CreditEdge®)
- Internet Explorer 6.0 Service Pack 1¹

DATABASE SERVER REQUIREMENTS

SQL Server

- Microsoft SQL Server 2000 Service Pack 4 or SQL Server 2005 Service Pack 2 - Standard or Enterprise Edition (refer to Microsoft documentation for system requirements related to SQL Server software)
- Free storage space depends on planned database size (see sizing spreadsheet, which is available on the Moody's KMV SupportWeb).
- Database collation requirements are as follows:
 - o Must use a case-insensitive sort order
 - o RiskAnalyst does not support code page 1254 (Turkish). If you have Turkish Windows or a Turkish database server, you must switch your RiskAnalyst database collation to one that uses code page 1252 (i.e., SQL_LATIN1_General_CI_AS).

Oracle

- Oracle Enterprise Edition Version 10.2.0.3 or 11.1.0.6 server software (refer to Oracle documentation for system requirements related to Oracle Server software)
- We strongly recommend that the AL32UTF8 Unicode database character set be used. When using a multibyte database character set such as AL32UTF8, you **MUST** also use character semantics. Refer to Appendix B in the Oracle Installation or Upgrade Guides for more information on this topic. These documents are located on the RiskAnalyst Installation CD.
- Free storage space depends on planned database size (see sizing spreadsheet, which is available on the Moody's KMV SupportWeb).

CLIENT REQUIREMENTS

- Windows XP Professional Service Pack 2²
- Pentium 4, 1.5 GHz
- 512 MB RAM
- 1024 x 768 monitor resolution
- HTTP or HTTPS access to RiskAnalyst server
- Any installed pop-up blockers must be turned off or configured to allow RiskAnalyst to run.
- Internet Explorer 6.0 Service Pack 1¹
- Internet Explorer security zone settings must be set to default Medium-Low security level for intranet zone (assuming RiskAnalyst is in the intranet zone).
- Internet Explorer Advanced Settings must be configured to use HTTP 1.1 for maximum performance.
- Acrobat Reader 7³ (If not currently installed, RiskAnalyst directs the user to the Adobe website where Acrobat Reader may be downloaded.)
- Adobe Flash 9 (If not currently installed, RiskAnalyst directs the user to the Adobe website where Flash Player may be downloaded.)
- Microsoft Excel 2003⁴

DESKTOP DEPLOYMENT - NETWORK DATABASE

In order for the RiskAnalyst Desktop software to be successfully installed and operated in a network environment, the following recommended minimum hardware and software requirements must be met.

DATABASE SERVER REQUIREMENTS

- Windows XP Professional Service Pack 2² or Windows 2003 Server Service Pack 2
- Pentium 4, 1.5 GHz
- 512 MB RAM
- 350 MB free disk space for program files
- SQL Server Express 2005 Service Pack 2 (will be installed by RiskAnalyst if not already present)
- .NET Framework Runtime 2.0 (will be installed by RiskAnalyst if not already present)
- Internet Explorer 6.0 Service Pack 1¹
- MDAC 2.8 (included with the required operating systems)
- User must have local machine administrator privileges to install the RiskAnalyst Desktop.

CLIENT REQUIREMENTS

- Windows XP Professional Service Pack 2²
- Pentium 4, 1.5 GHz
- 512 MB RAM
- 350 MB free disk space for program files
- .NET Framework Runtime 2.0 (will be installed by RiskAnalyst if not already present)
- Internet access (if using RiskCalc or CreditEdge)
- Internet Explorer 6.0 Service Pack 1¹
- 1024 x 768 monitor resolution
- Acrobat Reader 7³ (If not currently installed, RiskAnalyst directs the user to the Adobe website where Acrobat Reader may be downloaded.)
- Adobe Flash 9 (If not currently installed, RiskAnalyst directs the user to the Adobe website where Flash Player may be downloaded.)
- Microsoft Excel 2003⁴
- Bypass the proxy server for local addresses, if using a proxy server to access the internet. This setting is available via Control Panel | Internet Options | Connections | LAN Settings. See Microsoft Windows Help for more information.
- User must have local machine administrator privileges to install the RiskAnalyst Desktop.

DESKTOP DEPLOYMENT - LOCAL DATABASE (STANDALONE)

In order for the RiskAnalyst Desktop software to be successfully installed and operated, the following recommended minimum hardware and software requirements must be met.

- Windows XP Professional Service Pack 2² or Windows 2003 Server Service Pack 2
- Pentium 4, 1.5 GHz
- 512 MB RAM
- 350 MB free disk space for program files
- SQL Server Express 2005 Service Pack 2 (will be installed by RiskAnalyst if not already present)
- .NET Framework Runtime 2.0 (will be installed by RiskAnalyst if not already present)
- MDAC 2.8 (included with the required operating systems)
- Internet access (if using RiskCalc or CreditEdge)
- Internet Explorer 6.0 Service Pack 1¹
- 1024 x 768 monitor resolution
- Acrobat Reader 7³ (If not currently installed, RiskAnalyst directs the user to the Adobe website where Acrobat Reader may be downloaded.)
- Adobe Flash 9 (If not currently installed, RiskAnalyst directs the user to the Adobe website where Flash Player may be downloaded.)
- Microsoft Excel 2003⁴
- Bypass the proxy server for local addresses, if using a proxy server to access the internet. This setting is available via Control Panel | Internet Options | Connections | LAN Settings. See Microsoft Windows Help for more information.
- User must have local machine administrator privileges to install the RiskAnalyst Desktop.

¹ Internet Explorer version 7 is also supported.

² Windows XP Professional Service Pack 3 is also supported.

³ Acrobat Reader versions 8 and 9 are also supported.

⁴ Microsoft Excel 2007 is also supported