

RISKANALYST™ Version 5.3 SYSTEM REQUIREMENTS

WEB SERVER DEPLOYMENT

In order for the RiskAnalyst Version 5.3 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.

Hardware Requirements:

- Minimum: Pentium 4 3.0 GHz or AMD equivalent with 2 GB of RAM
- Recommended: Pentium CORE¹ or XEON series multiple core processor 2.0 GHz or AMD equivalent with 4 GB of RAM

Other requirements:

- Windows 2003 Service Pack 2 Standard Edition or Enterprise Edition (32-bit version only)
- Internet Information Server 6.0
- .NET Framework Runtime 2.0 (will be installed by RiskAnalyst if not already present)
- 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 1 or Internet Explorer 7.0

¹ CORE refers to Intel's "CORE" Architecture and refers to CORE, CORE 2, CORE i7, etc. Multiple-core variants such as CORE DUO, CORE 2 DUO, CORE 2 QUAD, and CORE 2 Extreme are also included. Single-core variants such as CORE SOLO and CORE 2 SOLO are excluded because they do not have multiple processor cores.

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_CP1_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 multi-byte 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

Hardware Requirements:

- Minimum: Pentium 4 2.8 GHz or AMD equivalent with 512 MB of RAM
- Recommended: Pentium CORE² series (e.g. CORE, CORE 2, CORE 2 Extreme, etc.) multiple core processor 1.8 GHz or AMD equivalent with 1 GB of RAM
- Monitor capable of 1024 x 768 resolution

Other Requirements:

- Windows XP Professional Service Pack 2 or Windows XP Professional Service Pack 3
- HTTP or HTTPS access to RiskAnalyst server
- All installed pop-up blockers must be turned off or configured to allow RiskAnalyst to run
- Internet Explorer 6.0 Service Pack 1 or Internet Explorer 7.0
- 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 configured to use HTTP 1.1 for maximum performance
- Adobe Reader 7, 8, or 9 (If not currently installed, RiskAnalyst directs the user to the Adobe website where 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 2003 or 2007

² CORE refers to Intel's "CORE" Architecture and refers to CORE, CORE 2, CORE i7, etc. Multiple-core variants such as CORE DUO, CORE 2 DUO, CORE 2 QUAD, and CORE 2 Extreme are also included. Single-core variants such as CORE SOLO and CORE 2 SOLO are excluded because they do not have multiple processor cores.

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 2 or Windows 2003 Server Service Pack 2
- Pentium 4 1.5-GHz or AMD equivalent with 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 1 or Internet Explorer 7
- User must have local machine administrator privileges to install the RiskAnalyst Desktop.

CLIENT REQUIREMENTS

- Windows XP Professional Service Pack 2 or Windows XP Professional Service Pack 3
- Pentium 4 2.8 GHz or AMD equivalent with 512 MB of 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 1 or Internet Explorer 7
- Monitor capable of 1024 x 768 resolution
- Adobe Reader 7, 8 or 9 (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 2003 or 2007
- 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 2 or Windows 2003 Server Service Pack 2
- Pentium 4 2.8 GHz or AMD equivalent with 512 MB of 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 access (if using RiskCalc or CreditEdge)
- Internet Explorer 6.0 Service Pack 1 or Internet Explorer 7
- Monitor capable of 1024 x 768 resolution
- Adobe Reader 7, 8 or 9 (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 2003 or 2007
- 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.