

# RISKANALYST™ Version 5.1

## SYSTEM REQUIREMENTS

### WEB SERVER DEPLOYMENT

In order for the RiskAnalyst Version 5.1 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 2000 Standard or Advanced Server

- Intel Pentium 1.2 GHz
- 2 GB RAM
- Windows 2000 Service Pack 4
- Internet Information Server 5.0
- .NET Framework Runtime 2.0 (will be installed by RiskAnalyst if not already present)
- MDAC 2.8 (will be installed by RiskAnalyst if not already present)
- 200 MB free disk space for program files
- Oracle 9.2.0.8 client software (if using an Oracle database)
- Internet access (for accessing Moody's KMV RiskCalc® or CreditEdge®)
- Internet Explorer 6.0 Service Pack1<sup>1</sup>

#### Windows 2003 Standard Edition, Web Edition or Enterprise Edition (32 bit version only)

- Intel Pentium 1.2 GHz
- 2GB RAM
- Windows 2003 Service Pack 2
- Internet Information Server 6.0
- .NET Framework Runtime 2.0 (included with Windows 2003)
- MDAC 2.8 (MDAC 2.8 is included with Windows 2003)
- 200 MB free disk space for program files
- Oracle 9.2.0.8 client software (if using an Oracle database)
- Internet access (if using Moody's KMV RiskCalc® or CreditEdge®)
- Internet Explorer 6.0 Service Pack 1<sup>1</sup>

## **DATABASE SERVER REQUIREMENTS**

### **SQL Server**

- Microsoft SQL Server 2000 Service Pack 4, 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 database size (see sizing spreadsheet)
- 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). For desktop users, the installer will automatically configure the database collation to be SQL\_LATIN1\_General\_CI\_AS.

### **Oracle**

- Oracle Enterprise Edition Version 9.2.0.8 or 10.2.0.3 server software (refer to Oracle documentation for system requirements related to Oracle Server software)
- It is highly recommended that the AL32UTF8 Unicode database character set be used for a new RiskAnalyst install. When using a Unicode database character set, you must also use character semantics (NLS\_LENGTH\_SEMANTICS = CHAR) for your RiskAnalyst database.
- Free storage space depends on database size (see sizing spreadsheet).

## **CLIENT REQUIREMENTS**

- Windows 2000 Service Pack 4 or Windows XP Professional Service Pack 2
- Minimum hardware specifications (as defined by the operating system)
- 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 1<sup>1</sup>
- 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.
- Users must have local machine administrator privileges to install the RiskAnalyst browser component. If local machine administrator privileges are not available, then a third-party management technology (such as Active Directory, Microsoft Systems Management Server (SMS), Altiris, Tivoli, Radia, etc.) is required for software deployment. This constraint also applies to the Adobe Acrobat and Adobe Flash browser components.
- 2 – 7MB free disk space for RiskAnalyst client component installation
- Acrobat Reader 6<sup>2</sup> (If not currently installed, RiskAnalyst directs the user to the Adobe website where Acrobat Reader may be downloaded. This requires additional free disk space.)
- Macromedia Flash 7<sup>3</sup> (If not currently installed, RiskAnalyst directs the user to the Adobe website where Flash Player may be downloaded. This requires additional free disk space.)
- Before deploying RiskAnalyst, consult the Deployment Preparation Checklist provided in the Documents subdirectory of the RiskAnalyst CD.

# 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 2000 Service Pack 4, Windows XP Professional Service Pack 2, Windows 2000 Server Service Pack 4, and Windows 2003 Server Service Pack 2
- Intel Pentium 1.2 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 1<sup>1</sup>
- MDAC 2.8 (The install is available on the RiskAnalyst CD in the folder MDAC28)
- User must have local machine administrator privileges to install the RiskAnalyst Desktop.

## CLIENT REQUIREMENTS

- Windows 2000 Service Pack 4 or Windows XP Professional Service Pack 2
- Intel Pentium 1.2 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)
- MDAC 2.8 (The install is available on the RiskAnalyst CD in the folder MDAC28)
- Internet access (if using the Moody's KMV RiskCalc or CreditEdge)
- Internet Explorer 6.0 Service Pack 1<sup>1</sup>
- 1024 x 768 monitor resolution
- Acrobat Reader 6<sup>2</sup> (If not currently installed, RiskAnalyst directs the user to the Adobe website where Acrobat Reader may be downloaded. This requires additional free disk space.)
- Macromedia Flash 7<sup>3</sup> (If not currently installed, RiskAnalyst directs the user to the Adobe website where Flash Player may be downloaded. This requires additional free disk space.)
- 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 2000 Service Pack 4, Windows XP Professional Service Pack 2, Windows 2000 Server Service Pack 4, or Windows 2003 Server Service Pack 2
- Intel Pentium 1.2 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 (The install is available on the RiskAnalyst CD in the folder MDAC28)
- Internet access (if using the Moody's KMV RiskCalc or CreditEdge)
- Internet Explorer 6.0 Service Pack 1<sup>1</sup>
- 1024 x 768 monitor resolution
- Acrobat Reader 6<sup>2</sup> (If not currently installed, RiskAnalyst directs the user to the Adobe website where Acrobat Reader may be downloaded. This requires additional free disk space.)
- Macromedia Flash 7<sup>3</sup> (If not currently installed, RiskAnalyst directs the user to the Adobe website where Flash Player may be downloaded. This requires additional free disk space.)
- 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.

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<sup>1</sup> Internet Explorer version 7 is also supported by RiskAnalyst.

<sup>2</sup> Acrobat version 7 and 8 are also supported by RiskAnalyst.

<sup>3</sup> Macromedia Flash 8 and Adobe Flash 9 are also supported by RiskAnalyst.