

	<i>Technical Specification Document</i>		Issue: 01
	MuniWare		Page: 1 of 4

Attn: IT Personnel

Technical Specification for MuniWare Software

Table of Contents

Technical Specification for Production Environment 3

- Licensing Information 3
- Tools and Technologies for Client Tier 3
- Tools and Technologies for Data Tier 3
- Hardware Requirements 3
 - Monitor 3
 - Pointing Device 4
 - CD or DVD Drive 4
 - Hard Disk Drive 4
- Specific Software Version Requirements 4

Technical Specification for Production Environment

The system will be developed on Microsoft .Net Framework 2.0. Following are the related technologies required for each tier.

Licensing Information

To use this application you would need to purchase licenses for following products.

- Microsoft Windows Server 2003 / Microsoft Windows Server 2008
- Microsoft Windows XP / Windows Vista / Windows 7
- Microsoft SQL Server 2005 / Microsoft SQL Server 2005 Express
- Microsoft .Net Framework 2.0

For detailed information please visit www.microsoft.com

Tools and Technologies for Client Tier

Following tools and technologies are required at client tier (desktop application).

- 1) Windows XP, Windows 7.
- 2) .NET Framework 2.0 (2.0.50727)
- 3) .NET Framework SP2 (2.2.30729)
- 4) .NET Framework SP2Patch (NDP20SP2-KB958481)
- 5) Microsoft Excel
- 6) Crystal Report {CRRedist2005}
- 7) SQL Server 2005
- 8) Windows Installer 3.1 or above.
- 9) Microsoft Data Access Components (2.8)
- 10) Microsoft Outlook

Tools and Technologies for Data Tier

Following tools and technologies are required at data tier (database server).

- Microsoft SQL Server 2005 Standard / Microsoft SQL Server 2005 Express
- Microsoft .Net Framework 2.0

Minimum Hardware Requirements

<i>Machine</i>	<i>Processor</i>	<i>Operating System</i>	<i>Memory</i>	<i>Hard Disk</i>	<i>Protocol</i>
Client Tier	2.0 GHz	Windows XP	4 GB	80 GB	TCP/IP
Client Tier	2.0 GHz	Windows Vista	4 GB	80 GB	TCP/IP
Client Tier	2.0 GHz	Windows 7	4 GB	80 GB	TCP/IP
Data Tier	3.0 GHz Core 2 Duo	Windows Server 2003	4 GB	160 GB	TCP/IP
Data Tier	3.0 GHz Core 2 Duo	Windows Server 2008	4 GB	160 GB	TCP/IP

*Processing speed, memory space and hard space may vary depending upon the database size

Monitor

VGA or higher resolution will be required, at least 1024 x 768 pixel resolution.

Pointing Device

Microsoft mouse or compatible pointing device is required.

CD or DVD Drive

A CD or DVD Drive will be required for installation from CD/DVD Media.

Hard Disk Drive

80 GB of available hard disk space (including 5 GB for program files) will be required at client tier.

160 GB of available hard disk space (including 15 GB for program files) will be required at data tier.

Specific Software Version Requirements

Following specific software version required at client tier (desktop application).

- Windows XP with Service Pack 2\ Windows Vista with Service Pack 2\ Windows 7
- .Net Framework 2.0 (for details click [Here](#))
- Crystal Reports Redistributable 2005 (for details click [Here](#))
- .Net Framework Service Pack 2 (for details click [Here](#))
- Microsoft Data Access Component 2.8 (for details click [Here](#))
- Windows Installer 3.1 (for details click [Here](#))

Following specific software versions are required at data tier (database server).

- Windows Server 2008 (for details click [Here](#))
- Windows Server 2003 with Service Pack 2 (for details click [Here](#))
- SQL Server 2005 Standard Edition (for details click [Here](#))
- SQL Server 2005 Express Edition (for details click [Here](#))
- .Net Framework 2.0 (for details click [Here](#))
- .Net Framework Service Pack 2 (for details click [Here](#))
- Microsoft Data Access Component 2.8 (for details click [Here](#))
- Windows Installer 3.1 (for details click [Here](#))