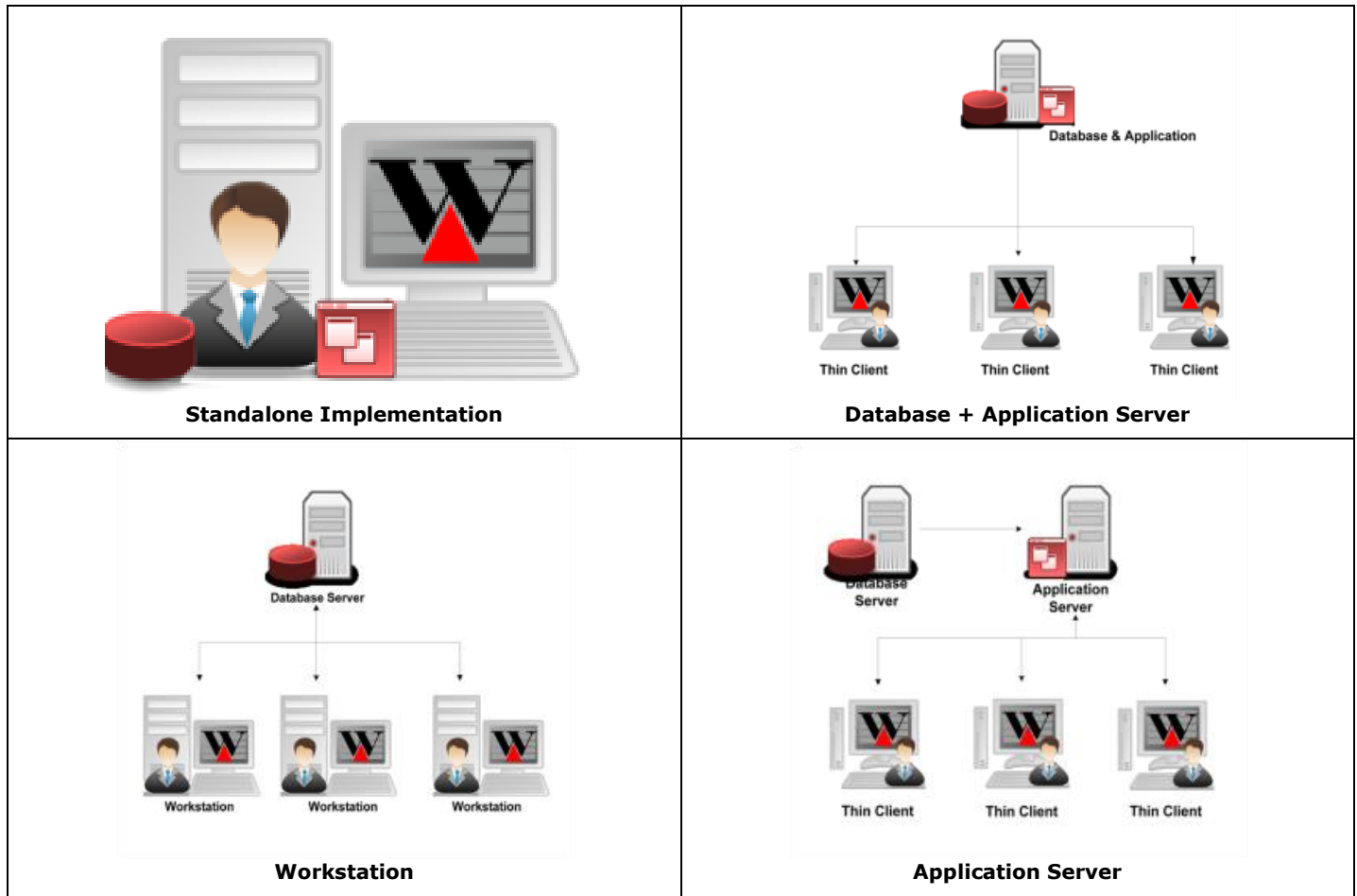


Windowmaker Technical Requirements

Technical Requirements - The Hardware and Software needed to run Windowmaker

Windowmaker and its associated components can be configured in any of the following modes:











Terms defined in this document:

1. **Thin Client:** A terminal that depends on the host computer for its processing power is called a dumb terminal or thin client. A personal computer can run software that emulates the function of a terminal, sometimes allowing concurrent use of local programs and access to a distant terminal host system.
2. **Workstation:** A terminal or desktop computer in a network. In this context, workstation is just a generic term for a user's machine (client machine) in contrast to a "server" or "mainframe."
3. **Database Server:** Server where Windowmaker SQL database would be hosted.
4. **Application Server:** Server on which Windowmaker Software program would be hosted.

Windowmaker Technical Requirements

Before installing and attempting to run Windowmaker, please ensure that you meet the standard minimum requirements below.

Windowmaker Express, Windowmaker Lite and Windowseller					
	Standalone Implementation	Workstation	Database Server	Application Server	Database + Application Server
					
Software Requirements					
Minimum Software	Microsoft Windows .NET Framework 4.7.1				
Database	Refer table below.	N/A	Refer table below.	N/A	Refer table below.
Hardware Requirements					
Processor ¹	Minimum: 2.0 GHz processor Recommended: 2.66 GHz processor or faster	Minimum: 1.0 GHz processor Recommended: 1.4 GHz or faster	Minimum: 1.0 GHz processor Recommended: 2.0+ GHz or faster	Minimum: 2.0 GHz processor Recommended: 2.66 GHz processor or faster	
Memory ¹	Minimum: 1.5 GB RAM Recommended: 2 GB RAM or more	Minimum: 512 MB RAM Recommended: 1 GB RAM or more	Minimum: 1 GB RAM Recommended: 2 GB RAM or more	Minimum: 2 GB RAM Recommended: 4 GB RAM or more	
Hard Disk Space	Minimum: 10 GB Recommended: 20 GB	500 MB for installation	Minimum: 10 GB Recommended: 20 GB	Minimum: 5 GB Recommended: 10 GB	Minimum: 10 GB Recommended: 20 GB

Windowmaker ERP & SQL			
	Database Server	Application Server	Database + Application Server
			
Software Requirements			
Minimum Software	Microsoft Windows .NET Framework 4.7.1		
Database	Refer table below.	N/A	Refer table below.
Hardware Requirements			
Processor ¹	Minimum: 1.0 GHz processor	Recommended: 2.0+ GHz or faster	Minimum: 2.0 GHz processor Recommended: 2.66 GHz processor or faster
Memory ¹	Minimum: 2 GB RAM	Recommended: 4 GB RAM or more	Minimum: 4 GB RAM Recommended: 8 GB RAM or more

¹Depends on number databases and users.

Windowmaker Technical Requirements

Other requirements

Screen resolution: 1024 x 768 or more.

Remote Desktop Software: If the program is hosted on Application Server, thin clients can access Windowmaker using Remote Desktop Software e.g. Microsoft Remote Desktop Services, GO-Global. Additional CALs (Client Access Licenses) might be required to allow workstation / thin client to connect to the Application Server running Windowmaker.

Operating System Compatibility	
Workstation	Application Server Program run using Remote Desktop Services (RDS)
Windows 10 (32-bit, 64-bit)	Windows Server 2019
Windows 8.1 (32-bit, 64-bit)	Windows Server 2016
Windows 7 SP1 (32-bit, 64-bit) ²	Windows Server 2012 R2
	Windows Server 2012
	Windows Server 2008 R2 SP2 ²
	Windows Server 2008 SP2 (32-bit, 64-bit) ²

²Windowmaker will stop supporting this in the coming few releases. Microsoft has already stopped supporting **Windows 7, Windows Server 2008 & Windows Server 2008 R2**.

SQL Server Vs Windowmaker Compatibility		
SQL version	Windowmaker Express, Windowmaker Life, Windowseller, Windowmaker Client (These products work with SQL Express Edition)	Windowmaker SQL and Windowmaker ERP ³
2019	Yes	Yes
2017	Yes	Yes
2016⁴	Yes	Yes
2014	Yes	Yes
2012	No	Yes
2008 & R2⁵	Yes	Yes

³**Minimum:** Workgroup edition, **Recommended:** Standard or Enterprise Edition. Synchronization requires server and client to have same version of SQL Server.

⁴SQL Server 2016 and later versions are not available for 32-bit operating systems and Windows 7 SP1. Use 32-bit SQL Server 2014 SP2 in these cases.

⁵Windowmaker will also stop supporting these soon. Support to SQL 2008 & 2008 R2 will be discontinued soon for products where backend is SQL Express. **Microsoft has ended support to SQL Server 2008 & 2008 R2**.

Notes

1. Click on a SQL version to know Hardware and Software Requirements for installing it.
2. Synchronization of Windowmaker Client requires server and client to have same version of SQL Server.

Windowmaker Technical Requirements

Operating System Vs SQL Server Compatibility (64-bit)					
Workstation					
	2017	2016 SP1	2014 SP2	2012 SP3	2008 R2 SP2
Windows 10	Yes	Yes	Yes	Yes	No
Windows 8.1	Yes	Yes	Yes	Yes	Yes
Windows 7 SP1	No	No	Yes	Yes	No
Application Server					
Windows Server 2019	Yes	Yes	Yes	No	No
Windows Server 2016	Yes	Yes	No	Yes	No
Windows Server 2012 R2	Yes	Yes	Yes	Yes	Yes
Windows Server 2012	Yes	Yes	Yes	Yes	Yes
Windows Server 2008 R2 SP2	No	No	Yes	Yes	Yes
Windows Server 2008 R2	No	No	Yes	Yes	Yes
Windows Server 2008 SP2	No	No	No	No	Yes

Notes:

1. Windows Server 2016 Essentials not supported for SQL Server 2017
2. Microsoft will end support to Windows Server 2008 & 2008 R2 on January 14, 2020. Subsequently Windowmaker will also stop supporting these.
3. For 32-bit operating systems and Windows 7 SP1, SQL Server 2016 and higher versions are not available. Use 32-bit SQL Server 2014 SP2 in these cases.