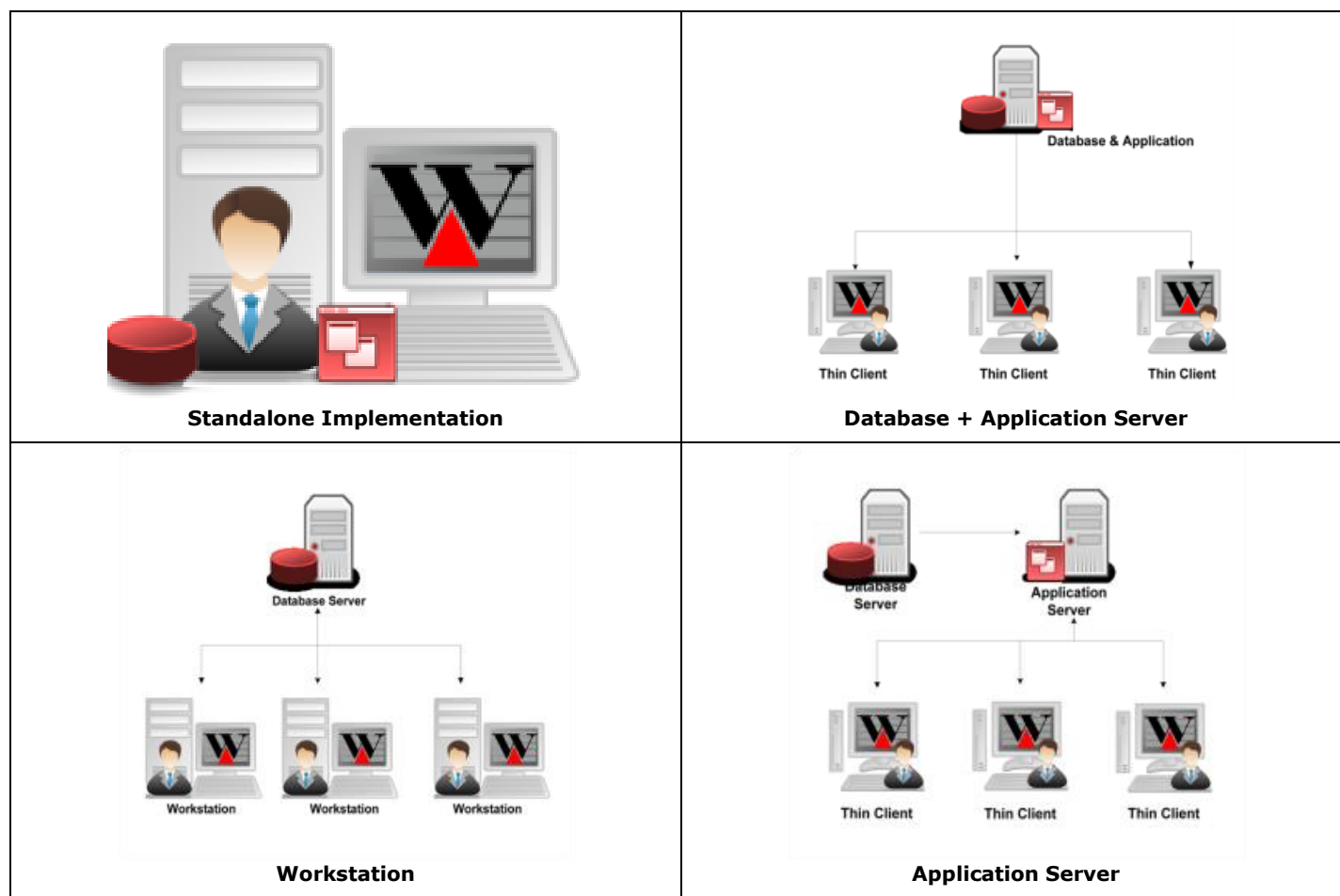


Windowmaker Technical Requirements

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 11	Windows Server 2022
Windows 10	Windows Server 2019
	Windows Server 2016

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 ²
2019	Yes	Yes
2017	Yes	Yes
2016	Yes	Yes

²**Minimum:** Workgroup edition, **Recommended:** Standard or Enterprise Edition.

Notes:

1. Click on an SQL version to know Hardware and Software Requirements for installing it.
2. Synchronization of Windowmaker Client requires the server and client to have the same version of SQL Server. It might require purchasing SQL Server CALs (Client Access License). Please contact your Microsoft Supplier/Partner for details.

Operating System Vs SQL Server Compatibility			
Operating System	SQL Server – Express/Standard Edition		
	2019	2017	2016
Windows 11	Yes	Yes	Yes
Windows 10	Yes	Yes	Yes
	SQL Server		
	2019	2017	2016
Windows Server 2022	Yes	Yes	Yes
Windows Server 2019	Yes	Yes	Yes
Windows Server 2016	Yes	Yes	Yes

Note: Windows Server 2016 Essentials not supported for SQL Server 2017