



SuperSystems
incorporated

SQL SERVER SETUP GUIDELINES FOR SSI SOFTWARE INSTALLATIONS REFERENCE GUIDE

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Contents

Introduction.....	4
For SQL Setup.....	4

SQL Server Setup Guidelines for SSI Software Installations

For Remote Connections	4
Revision History	6

SQL Server Setup Guidelines for SSI Software Installations

Introduction

SQL Server is database server software that is used by several SSI software programs. Our engineering team has developed several guidelines and best practices that have typically allowed for ideal performance and functionality of SSI software when used in conjunction with SQL Server. This document is intended to provide a summary of those guidelines and best practices, and is meant for someone already familiar with SQL Server. It is recommended that you work directly with SSI to ensure your SQL Server setup is correct for your SSI software installation.

IMPORTANT!

SQL Server is a product of the Microsoft Corporation, not SSI. SSI is not responsible for the operation and function of any SQL Server product.

For SQL Setup

When setting up the SQL Server, it is important to keep the following in mind:

- SQLServer or SQLServer Express must be installed and a server instance must be defined. "SQLEXPRESS" is common.
- The server instance must be set for mixed mode (Windows and SQL server security). Set this using [SQL Server Management Studio SQLEXPRESS properties](#).
- The SQL Server network access must be set. It is recommended that Shared Memory, Named pipes and TCP/IP all be enabled. Set these properties with [SQL Server Configuration Manager](#).
- The SQL Server Browser service must be running. Set the service to auto with [SQL Server Configuration Manager](#).
- By default, the browser looks for connections on UDP 1434. This must be an exception in your Firewall. (For Windows 7, it must be both incoming and outgoing.)
- By default, SQL connections are made on TCP Port 1433. This must be an exception in your Firewall. (For Windows 7, it must be both incoming and outgoing.)

For Remote Connections

Perform each action in the table below to complete the setup of SQL Server when a remote connection will be required.

Action	Description	Notes
Allow Remote Connections	In SQL Server Management Studio, open the properties menu of the server node and check the "Allow remote connections to the server" checkbox.	In an environment where the response is expected to be slow, remove the timeout by setting remote query timeout to 0.

SQL Server Setup Guidelines for SSI Software Installations

Action	Description	Notes
Firewall Exception	Using the advanced settings of Windows Firewall, make an exception for port 1433.	Alternatively, disable the firewall altogether.
Enable Protocols	In SQL Server Configuration Manager, using the Protocols for SQLEXPRESS node, set TCP/IP and Named Pipes to Enabled.	Your server may not be named SQLEXPRESS. This can be confirmed using SQL Server Management Studio
TCP/IP Properties	In the TCP/IP Properties pane, accessed by right-clicking on 'TCP/IP' in the SQL Server Configuration Manager after selecting the Protocols for SQLEXPRESS node, Confirm that one of the listed IPs is Active, Enabled, and matches the current IP of the machine. Confirm that the TCP port for this IP is 1433.	
SQL Services Running	Using the SQL Server Configuration Manager, click the SQL Server Services node and confirm that both the SQL Server and SQL Browser services are running and set to automatic start up.	

If a connection is still unable to be made from a remote machine, attempt to replace the [SERVERNAME] part of the connection string in the configuration file for the offending application with the IP Address of the server. Example:
Server=4KXR6Y1\SQLEXPRESS;Database=SSiLoadEntry...; =>
Server=192.168.1.13\SQLEXPRESS;Database=SSiLoadEntry...

SQL Server Setup Guidelines for SSI Software Installations

Revision History

Rev.	Description	Date	MCO #
New	First Release	08/3/2016	2172