SQL SERVER SETUP GUIDELINES FOR SSI SOFTWARE INSTALLATIONS

REFERENCE GUIDE

Super Systems Inc.
7205 Edington Drive
Cincinnati, OH 45249
513-772-0060
Fax: 513-772-9466
www.supersystems.com
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Super Systems Inc.
USA Office
*Corporate Headquarters:*
7205 Edington Drive
*Shipping Address:*
7245 Edington Drive
Cincinnati, OH 45249
Phone: (513) 772-0060
http://www.supersystems.com

Super Systems Europe
Unit E, Tyburn Trading Estate,
Ashold Farm Road, Birmingham
B24 9QG
UNITED KINGDOM
Phone: +44 (0) 121 306 5180
http://www.supersystemseurope.com

Super Systems México
Sistemas Superiores Integrales S de RL de CV
Acceso IV No. 31 Int. H Parque Industrial
Benito Juarez
C.P. 76120 Queretaro, Qro.
Phone: +52 442 210 2459
http://www.supersystems.com.mx

Super Systems China
No. 369 XianXia Road
Room 703
Shanghai, CHINA
200336
Phone: +86 21 5206 5701/2
http://www.supersystems.cn

Super Systems India Pvt. Ltd.
A-26 Mezzanine Floor, FIEE Complex,
Okhla Indl. Area, Phase – 2
New Delhi, India  110 020
Phone: +91 11 41050097
http://www.supersystemsindia.com

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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.

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Allow Remote Connections</td>
<td>In SQL Server Management Studio, open the properties menu of the server node and check the “Allow remote connections to the server” checkbox.</td>
<td>In an environment where the response is expected to be slow, remove the timeout by setting remote query timeout to 0.</td>
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### 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...```

### Revision History

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<th>Rev.</th>
<th>Description</th>
<th>Date</th>
<th>MCO #</th>
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<td>New</td>
<td>First Release</td>
<td>08/3/2016</td>
<td>2172</td>
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