Configuring MS SQL Server for the Speedbase Gateway

1. Introduction & Overview

This document describes how Microsoft SQL Server should be configured for use with the Speedbase Gateway (SPEEDSQL.EXE).

The companion document, Technical Note IN274, describes the various registry settings that configure the Speedbase Gateway.

2. SQL Permissions

The MS SQL Permissions must be configured to agree with the SpeedbaseSQLUser and SpeedbaseSQLPassword configured in the registry (see IN274 sections 2.6 and 2.7).

IF THE PERMISSIONS ARE NOT CONFIGURED CORRECTLY SPEEDBASE DATABASE ACCESS WILL FAIL WITH AN ERROR 257 REPORTED IN THE SPEEDBASE LOG FILE.

- SQL 2000, SQL 2005 or SQLExpress should be configured in "Mixed Mode" (Windows Authentication and SQL Server Authentication). This mode should be established when SQL 2000, SQL 2005 or SQLExpress is installed but it is possible to change this later in the SQL Server Enterprise Manager. To change this option in SQL Server Enterprise Manager, expand the server group, then right click on the relevant server and choose "properties", click the "Security" tab and then under "Authentication", choose "SQL server and Windows".

  N.B. In this window you can also set the audit level at which user accesses to the server are logged.

- Now establish an SQL username and password which you will use to access the SQL format Speedbase databases. From SQL Server Enterprise Manager choose SQL Server Group/server name/Security/Logins, right click on Logins, and choose "new login", in the "general" section type in the user name, choose "SQL Server Authentication", and type in a password. The defaults at the bottom of the window should show the database as master, and the language as <default>, choose the "server roles" tab, and enable "System Administrators".

- Finally choose SQL Server Group/server name/Databases/Master, and right click on "Master", select "properties" and the "permissions" tab, and enable the following properties for the user you have just added on the "master" database

        Create DB
        Create Table
        Create View
        Create SP

> Create Default
> Create Rule
> Create Function

- The user name and password that have just been established in the SQL Server Enterprise Manager, are now set up in the SpeedbaseSQLUser and SpeedbaseSQLPassword fields of the registry using glregedit. See sections 2.6 and 2.7 of Technical Note IN274.

3. ISO Character Set

The SQL Client on the same machine that the Gateway is running on must be configured to use the ISO-8859 (ANSI) character set assumed by Speedbase. The following registry setting (if present):

> HKEY_LOCAL_MACHINE/SOFTWARE/Microsoft/MSSQLServer/Client/DB-Lib/AutoAnsiToOEM

must be set to "Off".

If this registry setting is not set to "Off" or absent the Speedbase SQL Gateway will display the following warning dialogue box when started:

```
SQL Not Installed with ISO Character Set support for International Characters,
Proceed at own risk.
```

If this warning is ignored unpredictable effects, including data corruption, may occur.

This registry setting is not installed by SQL 2005 or SQLExpress so unless you are upgrading from a SQL 2000 installation these comments can be ignored. The V3.84, and later, versions of the Gateway only issue the warning if the registry setting is installed and set to "On".

4. Multi-Server Operation

The **SQL Client** must be installed on the server that is running Speedbase Gateway but the main **SQL Engine** can be running on a different server on the same local area network.

This configuration is fully described in section 3.31 of IN274.