

ONETOUCH® TGC® Advisor

User's Guide Installation Addendum

*Instructions for use with
OneTouch® DataLink® 3.3*

*OneTouch® TGC® Advisor
Version 1.0*



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Preface

The purpose of this document is to help guide experienced IT professionals in successfully installing and configuring OneTouch® TGC® Advisor to work with OneTouch® DataLink® Data Management System v3.3. The procedures herein alter the instructions for installation of OneTouch® TGC® Advisor that are stated in the *OneTouch® TGC® User's Guide*.

For information on installing and configuring OneTouch® DataLink® see the sections on Installation, System Settings for Running OneTouch® DataLink®, SQL Server Settings for Running OneTouch® DataLink®, and Running SQLSetup in the *OneTouch® DataLink® System Administrator's Guide*.

It is assumed that the reader is familiar with OneTouch® TGC® Advisor, OneTouch® DataLink® Data Management System v3.3, Microsoft® Windows® operating systems, and SQL Server®.

OneTouch® TGC® Advisor and OneTouch® DataLink® v3.3

OneTouch® TGC® Advisor 1.0 was released to work with the OneTouch® DataLink® Data Management System v3.2. With the release of OneTouch® DataLink® v3.3, several enhancements have been added that cause compatibility issues with OneTouch® TGC® Advisor. The most significant of these changes is a more secure database login mechanism. This provides improved security for OneTouch® DataLink®, but the default login mechanism for OneTouch® TGC® Advisor will no longer function correctly.

This is easily corrected by using OneTouch® TGC® Advisor's customizable security features to configure the application to use Windows® authentication, rather than SQL Server® authentication. The user's Windows account credentials are used when the database is accessed. This improves security as it allows the system administrator to provide read-only access to users of OneTouch® TGC® Advisor, while granting write access to users of OneTouch® DataLink®.

CAUTION: The user performing the steps described herein must have administrative privileges on the SQL Server instance. Members of the local Administrators group will typically have the appropriate administrative privileges, though the database can be configured otherwise. See your SQL Server database administrator for details.

CAUTION: Windows authentication is required to use OneTouch® TGC® Advisor with the OneTouch® DataLink® Data Management System v3.3.

The Information You Need

From Your Database Administrator:

- The name of the SQL Server hosting the OneTouch® DataLink® databases.
For example: MySQLServer
- The connection string necessary to gain access to the lfs_main database. For example, if the SQL Server is named MySQLServer then it might be:
Server=MySQLServer;Database=lfs_main;persist security info=False;packet size=4096;Trusted_Connection=True;
Details about specifying a connection string may be found at:
 - <http://www.connectionstrings.com/sql-server-2005>
 - <http://www.connectionstrings.com/sql-server-2008>

From Your System Administrator:

- The names of the Windows users or groups that will be using OneTouch® TGC® Advisor. OneTouch® DataLink® users will already be able to use OneTouch® TGC® Advisor, only the names of non-DataLink® users/groups are needed.

Who is Needed

Your Database Administrator:

- The first step of the OneTouch® TGC® Advisor installation does an update to the OneTouch® DataLink® database (lfs_main). **The user doing the database update requires SQL Server sysadmin privileges.**
The database update needs to be performed only once, not every time OneTouch® TGC® Advisor is installed. If OneTouch® TGC® Advisor has already been installed and the database update has already been done, then it does not have to be repeated.
- If non-DataLink® users will use TGC® Advisor then configuring database security for them will be required. **The user doing the security configuration requires SQL Server sysadmin privileges.**
The security configuration needs to be performed only once, not every time OneTouch® TGC® Advisor is installed. The security configuration should be done after the database update has been done.

Your System Administrator:

- The second step of the OneTouch® TGC® Advisor installation procedure installs the application on a client computer. **The user doing the application installation requires Administration privileges.**

Installing OneTouch® TGC® Advisor for use with OneTouch® DataLink® Data Management System v3.3

This section describes the changes to installation procedures for OneTouch® TGC® Advisor. Before you begin, read and understand the section on Installing OneTouch® TGC® Advisor in the *OneTouch® TGC® Advisor User's Guide*.

To install OneTouch® TGC® Advisor for use with OneTouch® DataLink® v3.3, follow the instructions provided in the *OneTouch® TGC® Advisor User's Guide*, with the following modifications to these sections:

- Installing the database update
- Installing the application

STEP 1.

Installing the Database Update

If OneTouch® TGC® Advisor is already installed, then it is not necessary to repeat this step. Proceed to Step 2, Installing the Application.

Before installing OneTouch® TGC® Advisor, the DataLinkDatabaseUpdate program must be executed. This program will create a number of database objects – such as queries and stored procedures – which are needed by OneTouch® TGC® Advisor.

Refer to step 2 in the Installing the database update section of the *OneTouch® TGC® Advisor User's Guide*. In the **DataLink database server name** field, specify the server name followed by the phrase “;Trusted_Connection=True” (do not include the quotes, but do include the semicolon).

For example, if the name of your SQL Server is MySQLServer then enter “MySQLServer;Trusted_Connection=True”. This will allow the database update application to connect to the database using the current user's Windows credentials.

STEP 2.

Installing the Application

Refer to step 4 in the Installing the application section of the *OneTouch® TGC® Advisor User's Guide*. In the **Database server name or database connection string**, provide a complete database connection string, which must include “Trusted_Connection=True”, as in the following example:

```
Server=MySQLServer;Database=ifs_main;persist security info=False;packet size=4096;Trusted_Connection=True;
```

Alternatively, edit the **override.config** XML file and change the DatabaseConnectionString value. The file may be found in the OneTouch® TGC® Advisor installation directory (typically under the %programfiles% folder). For systems using Windows Vista or Windows Server 2008, it may be under the virtualization directory (%localappdata%\VirtualStore\Program Files).

Configuring Database Security for OneTouch® TGC® Advisor

This section describes the changes to installation procedures for OneTouch® TGC® Advisor. Before you begin, read and understand the section on Installing OneTouch® TGC® Advisor in the *OneTouch® TGC® Advisor User's Guide*.

If OneTouch® DataLink® is configured to use Windows authentication, then the DataLink® users will already have sufficient privileges to use OneTouch® TGC® Advisor and no further configuration is necessary.

If you want non-DataLink® users to be able to use OneTouch® TGC® Advisor then the following procedure must be performed.

Performing the procedure requires a SQL Server sysadmin; see your Database Administrator. The procedure should be performed after the database update portion of the installation has been done and after OneTouch® TGC® Advisor has been installed.

The procedure creates a database role, assigns the necessary permissions to that role, and then adds one or more Windows users and/or groups to that role. The minimum database privileges are assigned.

NOTE: See the sections on Installation, System Settings for Running OneTouch® DataLink®, SQL Server Settings for Running OneTouch® DataLink®, and Running SQLSetup in the *OneTouch® DataLink® System Administrator's Guide* for more information on configuring OneTouch® DataLink® to use Windows authentication.

STEP 1.

Create a Database Role and Assign the Necessary Permissions

In this step a database role is created in the lfs_main database and the required permissions are assigned. This is performed from within the Microsoft SQL Server Management Studio.

1. Open the Microsoft SQL Server Management Studio and connect to your database server.
2. In the Object Explorer in the left-hand panel, expand the tree entries to get to <servername>\Databases\lfs_main\Security\Roles\Database Roles. Right-click **Database Roles** and select **New Database Role...** from the menu.
3. In the Database Role - New dialog, specify the **Role name**. The following instructions assume *TGC Advisor Users* is the role name entered.
4. Next to the **Owner** field, click ... to browse.
5. In the Select Database User or Role dialog, click **Browse...**
6. In the Browse for Objects dialog, scroll down and select **[db_owner]** from the list. Click **OK**.

7. In the Select Database User or Role dialog, click **OK**.
8. In the Database Role - New dialog, at the top left, in the **Select a page** panel, click **Securables**.
9. Click **Add...** (in SQL Server 2008 click **Search...**)
10. In the Add Objects dialog, select **Specific objects...** and click **OK**.
11. In the Select Objects dialog, click **Object Types...**
12. In the Select Object Types dialog, select **Stored procedures** and **Tables**. Click **OK**.
13. In the Select Objects dialog, click **Browse...**
14. In the Browse for Objects dialog, scroll down and select all entries that begin with "rpt_tgc_". Refer to the table below for the exact names of all entries. Click **OK**.
15. In the Select Objects dialog, click **OK**.
16. In the Database Role – New dialog, select the "rpt_tgc_distribution_ranges_t" entry in the **Securables** list.
17. In the **Explicit permissions for** list, select **Grant** for the **Delete, Insert, Select,** and **Update** permissions.
18. In the Database Role – New dialog, select in turn each of the entries of the **Stored procedure** type in the **Securables** list.
19. For each of these stored procedures, in the **Explicit permissions for** list, select **Grant** for the **Execute** permission. Refer to the table below for the exact names of all entries and their permissions.
20. Click **OK** to create the role.

Table 1: Required database securable permissions

Securable name	Type	Grant Permissions
<i>rpt_tgc_distribution_ranges_t</i>	Table	Insert Delete Select Update
<i>rpt_tgc_comment_statistics</i> <i>rpt_tgc_glucose_distribution</i> <i>rpt_tgc_location_statistics</i> <i>rpt_tgc_nu_list</i> <i>rpt_tgc_operator_statistics</i> <i>rpt_tgc_patient_glucose_trend</i> <i>rpt_tgc_patient_statistics</i> <i>rpt_tgc_patient_time_statistics</i> <i>rpt_tgc_summary</i> <i>rpt_tgc_uncommented_extratarget_flags</i> <i>rpt_tgc_uncommented_extratarget_results</i> <i>rpt_tgc_unique_comments</i>	Stored procedure	Execute

STEP 2.

Assign Windows Users and/or Groups to the Database Role

Once the role has been created, the desired Windows users and/or groups should be added to the database and assigned to the TGC Advisor Users role. This is performed from within the Microsoft SQL Server Management Studio. For each Windows user or group that uses OneTouch® TGC® Advisor, perform the following:

1. Open the Microsoft SQL Server Management Studio and connect to your database server.
2. In the Object Explorer in the left-hand panel, expand the tree entries to get to <servername>\Security\Logins. Right-click **Logins** and select **New Login...** from the menu. If a login has already been created for the Windows user or group, right-click it and select **Properties**.
3. In the Login Properties dialog, for the **Login name**, enter the name of the Windows user or group to add using the format computer\username (or domain\username if specifying a domain account).
4. Select **Windows authentication**.
5. In the Login Properties dialog, at the top left, in the **Select a page** panel, click **User Mapping**.
6. For **Users mapped to this login** select **ifs_main**.
7. Next to the **Default Schema** field for ifs_main, click ... to browse.
8. In the Select Schema dialog, click **Browse...**
9. In the **Browse for Objects** dialog scroll down and select **[dbo]**. Click **OK**.
10. In the Select Schema dialog, click **OK**.
11. If not already selected, select **ifs_main** for **Users mapped to this login**.
12. For **Database role membership for ifs_main** select both **db_datareader** and **TGC Advisor Users** roles.
13. Click **OK**.

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