## Setting Up ALERE with Client/Server Data

**TIW Technology, Inc.** 

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# Setting Up ALERE with Client/Server Data

ALERE can use either LAN (VFP) or Client/Server (SQL Server) data tables. The desired database type must be specified at the time that a new ALERE company is created. If you have an existing company that uses LAN tables, the data can be converted to client/server tables by adding a new, empty CS company and importing the LAN data with the built-in data conversion program (LanToCS). It is important to note that client/server manufacturing data can only be linked to client/server accounting data, should you have multiple manufacturing companies.

### Adding a New Client/Server Company

- 1. Click the New button on the Open Company screen.
- 2. Enter the company name, set the Database Type to "Client/Server".
  - Select the connection type. If "Server" is selected (recommended), then enter the name of the database server. If "DSN" is selected, enter the name of a valid DSN that has been set up in the Windows 32-bit ODBC Administrator. In the User ID and Password fields, enter a valid SQL Server login. Enter the name of the SQL Server database to create and select the type of Accounting link. If any accounting or manufacturing data is to be imported from an existing company, make the appropriate selections and specify the location of the source data. Click the Continue button.

Add New Co	ompany			? X
New Company Name		Archive/Bac	ckup Company	Database Type
ALERE Inc.		No 🔻		Client/Server -
Server - SQLSERV	ER	User ID alere	Accountin	ng Link
Database ALERECS		Password *******	TIWALE	RE CS 🔹
🗖 Initialize Company Da	ta Tables with Default Val	les		
Import Accounting From:			Da	tabase Type
None 🔽			LA	AN <u>-</u>
	Import Data Path			
				<u> </u>
CuickBooks	🗖 Import Companies	Import Inventory	1	
Import Manufacturing From:			Da	tabase Type
None			LA	AN 👻
	Import Data Path			
				4
Exit Continue				

- 3. If prompted to verify that you are connecting with an administrative login, click Continue.
- 4. If prompted for a data source, select the DSN specified in step 2 and click OK.
- 5. Creating a new database requires using a SQL Server login that is a member of either the **sysadmin** or **dbcreator** role. This level of access is required to create the application role described in step 10. If the current login does not have these privileges, uncheck the "Use Trusted Connection" box and enter a different login. Click OK.
- 6. When prompted to create blank tables in the new database, click OK.
- 7. If you are creating a database for an additional manufacturing company, go into the SQL Server Management Studio and assign permissions to the Guest account in the new database. This is necessary in order for the separate accounting and manufacturing databases to communicate. In the database, go to Security\Users\guest. Right-click "guest" and select "Properties". Click on "Securables" and then click the "Search…" button. Select "All objects of the types…" and click "OK".

Name S	🛛 🧻 Database User - guest	
🖪 auser	Select a page	🕼 Script 🔻 🖪 Help
🗟 dbo	General	
🧟 guest	Membership	User name: guest
INFORMATION_SCH	Securables	Securables: Search
👫 Add Objects		hema Name Type
What objects do you wish to ac Specific objects All objects of the types All objects belonging to th Schema name:		•
ОК	Cancel Help	

Check the box next to "Databases" and click "OK".

💦 Select C	Dbject Types	x
Select the	e types of objects to find:	
Object Ty		
🗹 📋 D	Databases	
	Stored procedures	-
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	Views	
📄 🖂 🖬	nline functions	
📃 🖳 🎨 S	Scalar functions	
📄 📼 T	Table-valued functions	
📃 📃 🎘 A	Application roles	
	Assemblies	
📃 🖻 🍝 🖌	Asymmetric keys	-
	OK Cancel Help	

In the list at the bottom of the screen, check the box in the "Grant" column next to the following permissions: Connect, Delete, Execute, Insert, Select, Update. Click "OK" to save permissions.

ecurables:				Search
Schema	Name		Туре	
	mycsco		Database	1
Permissions for m	Wesco.		Column Porm	issions
ermissions for m			<u>C</u> olumn Permi	
Explicit Effective Permission	_	Grant	Column Permi	
Explicit Effective Permission Delete		Grant		
Explicit Effective Permission Delete Execute		Grant	With Gr	
Explicit Effective Permission Delete Execute Insert		Grant	With Gr	Deny 4
Explicit Effective Permission Delete Execute Insert References		Grant	With Gr	Deny 4
Explicit Effective Permission Delete Execute Insert References Select		Grant	With Gr	Deny 4
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Explicit Effective Permission Delete Execute Insert References Select Show plan	Grantor	Grant	With Gr With Gr	Deny 4
Explicit Effective Permission Delete Execute Insert References Select Show plan Subscribe que	Grantor	Grant	With Gr With Gr	Deny 4
Explicit Effective Permission Delete Execute Insert References Select Show plan Subscribe que Take ownership	Grantor	Grant	With Gr           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	Deny 4

8. In ALERE, enter the company default information. If linking a stand-alone manufacturing company to accounting, select either "TIW ALERE CS" or "AccountMate SQL" for the Accounting System.

Company	Accounting	Manufacturing	Options	Default Paths
company Name ALEF		Index 1	System Mgr Purchased	
	SERVER	User ID alere Password ******	Date Format AM Time Format 99: Accounting TIV	
Email Type SMTI SMTP HostPort Email Address	P	User ID Password Email Rule ID	My Compa Default Loc Default Default	Store
ud Server	Password	Database		I Lingo Standard

On the Manufacturing tab, enter the specific settings to link to the accounting system, such as accounting version, company ID, accounts and locations. Both ALERE and AccountMate require database connection information similar to what is required for the ALERE Manufacturing database on the Company tab. If you have only one manufacturing company linked to ALERE Accounting, the database connection information will be the same on both tabs. For AccountMate, My Company ID should be set to the AccountMate company ID. Remote Database should be set to the AccountMate company database. When finished entering the company default information, click Save and then Exit the screen.

Company	Accounting	Manufacturing		Options	Default Paths
ccounting System	TIW ALERE CS	Vers	ion TIWS	▼ My	Company ID ALERE
inked Accounting I	Defintion		,		,
Server -	SQLSERVER	User ID alere		Password	*****
Remote Database	ALERECS				
Quantity Formats		FG Costing		Default Wareh	ouse Location
Report Qty	3 999999.999			Finished G	oods LOC1
BOM Qty	4 99999.9999	Based on Standar	d Costs 🔻	Material I	ssue LOC1
Rounding Qty	0	,	_	Defau	It Bin
GL Accounts					
WIP 113	60-STD	FOH 5020	0-FOH		
VAR 113	20-STD	VOH 5020	0-VOH		
LAB 502	200-LAB	MAINT 5000	0-MNT		

**Connecting ALERE Manufacturing CS to ALERE Accounting CS** 

Connecting ALERE Manufacturing CS to AccountMate SQL

Company	Accounting	Manufacturing	Options	Default Paths
Accounting System	AccountMate SQL	Version VAM	1S9 👻 My C	ompany ID 999
Linked Accounting D	efintion	,		,
Server -	SQLSERVER	User ID amuser	Password *	•
Remote Database	sample999			
Quantity Formats		FG Costing	Default Warehou	ise Location
Report Qty	3 999999.999		Finished Goo	ods MAIN
BOM Qty	4 99999.9999	Based on Standard Costs	<ul> <li>Material Iss</li> </ul>	sue MAIN
Rounding Qty	0		Default	Bin A1
GL Accounts				
WIP 1303	10-140-00	FOH 605150-140-0	00	
VAR 6051	50-140-00	VOH 606695-140-0	00	
LAB 8008	10-140-00	MAINT		

- 9. Run the TIW File Update on the company when prompted.
- 10. An Application Role will be created in the new database. This role will have all of the privileges necessary to run ALERE. Therefore, there will be no need to assign individual user privileges. Additional access may be granted to individual users, although it is not required by ALERE.

## **Connecting to an Existing Client/Server Company**

- 1. Be sure that your SQL Server user ID has the proper access privileges set up for the database in SQL Server.
- 2. Click the New button on the Open Company screen.
- 3. Enter the company name, set the Database Type to "Client/Server". Select the connection type. If "Server" is selected (recommended), then enter the name of the database server. If "DSN" is selected, enter the name of a valid DSN that has been set up in the Windows 32-bit ODBC Administrator. In the User ID and Password fields, enter a valid SQL Server login. Enter the name of the SQL Server database to connect to and select the type of Accounting link. Click the Continue button.
- 4. If prompted to verify that you are connecting with an administrative login, click Continue.
- 5. If prompted for a data source, select the DSN specified in step 3 and click OK.
- 6. Leave the "Use Trusted Connection" box checked and click OK.
- 7. Enter the Company Default information, click Save and then Exit.
- 8. Run the TIW File Update, if necessary, and then click Exit to continue.

## **Converting LAN data to Client/Server**

If you need to convert a LAN (VFP) company to Client/Server (SQL Server) without the built-in company import utility, follow these steps.

- 1. Run ALERE and select the new (empty) client/server company.
- 2. From the menu, select File > Developer Tools > Developer Portal.
- 3. For accounting data only, execute the following command: DO LanToCS

For both accounting and manufacturing data, execute the following command:

DO LanToCS WITH .F., "B"

Location of Source for	of Source Data	X
	<ul> <li>ALEREinc71 - Copy</li> <li>ALEREinc71FIFO</li> <li>ALEREinc71LIFO</li> <li>ALEREinc72</li> <li>cloudpics</li> <li>Excel</li> <li>PDF</li> <li>Pictures</li> <li>ALEREinc72a</li> <li>ALEREinc72b</li> </ul>	
•	· · · · · · · · · · · · · · · · · · ·	•
	ОК	Cancel
Enter co	ommand - TYPE "EXIT" to Exit	

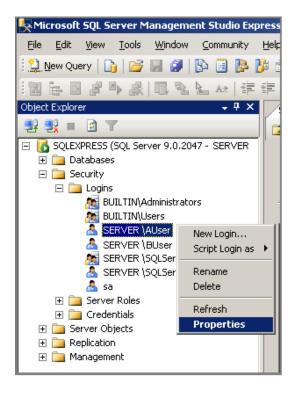
- 4. When the Location of Source Data dialog pops up, select the directory containing the LAN company (VFP) files. Note that non-TIW tables defined in WsData will also be converted. If any errors occur in the conversion process, they will be logged in a file called "LanToCS.log" in the ALERE SysFiles folder.
- 5. When the conversion is finished, enter the EXIT command to leave Developer Portal.

## **Granting Database Access in SQL Server**

When creating a new client/server company in ALERE, the specified user ID is given database owner privileges which are required to create the database, tables, indexes and other objects that define the company. Each SQL Server user who will be running ALERE must be granted access to the company database. If other user IDs need external access to the company database, they will need to be granted access to it by a system administrator.

Follow these steps to grant database access to a user:

- 1. Run SQL Server Management Studio from the Windows Start menu.
- 2. Log in to the SQL Server with an administrator level user ID.
- 3. In the Object Explorer window, open the Security folder under the appropriate SQL Server name (if more than one).
- 4. Under the Security folder, open the Logins folder to display a list of the currently defined user logins on the SQL Server.
- 5. Make sure that each potential ALERE user has a SQL Server login. Logins are typically set up to be the same as the user's Windows login. If a user login is missing, right-click the Logins folder and select 'New Login...' from the menu. Fill in the Login Name and proceed to step 7.
- 6. In the list of logins, right-click the user requiring database access. Select Properties from the right-click menu.



7. There is a list in the upper left corner of the Login Properties screen with the heading 'Select a page'. Click on 'User Mapping' in this list.

Login Properties - ause	er CLAUSE managements		. 🗆 🗙
Select a page	🖾 Script 🔻 🚺 Help		
General Server Roles Cuser Mapping Status	Login name: <u>Windows authentication</u> <u>SQL Server authentication</u>	Buser	Search
	Password:	•••••	
	Confirm password:	•••••	
	Specify old password		
	<u>O</u> ld password:		
	Enforce password policy		
	Enforce password expira	tion	
	User must change passv	vord at next login	
	Mapped to certificate	-	
	O Mapped to asymmetric key		•]
	Map to Credential		Add

8. In the upper right of the screen there will be a grid that lists all of the databases on the server. Check the box in the Map column next to the ALERE company database(s) that the user will need to access.

Login Properties - SERVER	\AUser				<u>- 0 ×</u>
Select a page	Script 🗸	[ Help			
🚰 General 🖙 Server Roles					
Server Holes	Users map	ped to this login:			
	Map	Database	User	Default Schema	
🚰 Status		csco1	SERVER VAUser	dbo	
		master			
		abeine			
		model			
		msdb			
	<b>V</b>	myesco	SERVER \AUser	dbo	
		tempdb			
		account enabled for: <u>r</u> ole membership for: c			
Connection		cessadmin			
Server: SQLEXPRESS Connection:	db_da db_da db_da	tawriter			
View connection properties	db_de ☑ db_ov	nydatawriter			
Progress	🔽 public				
C Ready					
				ОК	Cancel

- 9. In the bottom right of the screen there will be a list of database roles. Users logging into ALERE need at least db\_securityadmin selected. Users who will run the TIW File Update utility will need db\_owner selected.
- 10. Click the OK button to save the settings.
- 11. Repeat steps 6 through 9 for each user requiring database access.
- 12. Exit SQL Server Management Studio.

#### **Microsoft SQL Server Express Edition**

Microsoft SQL Server Express Edition is the free, redistributable version of SQL Server that is ideal for client applications requiring an embedded database, new developers learning how to build data-driven applications, and Web sites serving up to 25 concurrent users.

SQL Server Express is a database engine provided by Microsoft that is based on the core SQL Server technology and supports single- and dual-processor desktop computers. In other words, it is a scaled down copy of SQL Server. SQL Server Express was introduced to provide application developers a database engine that is more powerful than the Jet engine and at the same time expandable to SQL Server.

The common technology base shared between SQL Server and SQL Server Express enables developers to build applications that can scale seamlessly from desktop solutions to multiprocessor enterprise clusters. Because it is fully compatible with SQL Server, ALERE is able to easily target both SQL Server and SQL Server Express database objects with the same application code base. This allows VARs to run the same ALERE product on both a laptop computer for demonstrations using SQL Server Express and on a full SQL Server system using SQL Server.

#### **Downloading SQL Server Express**

SQL Server Express can be downloaded from the following location:

http://www.microsoft.com/downloads/

#### **Installing SQL Server Express**

Before installing SQL Server Express, it is recommended that you review the Installation Requirements and Readme documents that are provided on the Microsoft website for this product.

The setup file for SQL Server Express can be downloaded to your computer and then run, or the installation can be started from the web page listed above. A graphical interface will guide you through the setup process.

## **SQL Server Tools**

Microsoft SQL Server includes many graphical and command prompt utilities that allow users, programmers, and administrators to design and test queries for retrieving data; copy, import, export, and transform data; and provide diagnostic information. The most useful is the SQL Server Management Studio. In addition to this utility, TIW provides an external command utility (SqlCmdEx) that allows users to execute many standard VFP SQL statements on SQL Server data.

Note: Microsoft provides SQL Server Management Studio as a free download in addition to SQL Server Express.

#### **SQL Server Management Studio**

SQL Server Management Studio is a graphical tool that allows the user to:

- Create queries and other SQL scripts and execute them against SQL Server databases. (Query Designer)
- Quickly copy existing database objects. (Object Explorer scripting feature)
- Locate objects within databases (object search feature), or view and work with objects. (Object Explorer)
- Quickly insert, update, or delete rows in a table. (Open Table window)
- Configure all SQL Server options for each registered server.
- Create and administer all SQL Server databases, objects, logins, users, and permissions in each registered server.
- Define and execute all SQL Server administrative tasks on each registered server.
- Design and test SQL statements, batches, and scripts interactively .

You can run SQL Server Management Studio directly from the Windows Start menu.

<b>Microsoft SQL Server Management</b> File Edit View Query Designer Tor			Help	<u>_ [] ×</u>			
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🖃 🧰 Databases		13001	11040-STD	10/8/2005			
⊞		13002	11040-STD	10/8/2005			
🖃 📑 Injeseo 🕀 🚞 Database Diagrams		13003	11040-STD	10/8/2005			
🖃 🚞 Tables		13004	11040-STD	10/8/2005			
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		13006	11040-STD	10/8/2005			
		13007	11040-STD	10/8/2005			
🛨 🧾 dbo.apcashtr		13008	11040-STD	10/8/2005			
		13009	11040-STD	10/8/2005			
🐨 📰 dbo.apheader		13010	11040-STD	11/12/200			
🛨 🛄 dbo.apsupl		13011	11040-STD	11/12/200			
🖭 🧾 dbo.bmcfgsav		13012	11040-STD	11/12/200			
		13013	11040-STD	11/12/200			
E dbo.coactlog				► E			
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Ready							

#### Example of the Object Explorer's "Edit" feature

Example of using the SQL Server Management Studio to run a query

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Ready	Ln 1	Col 1		INS

## SqlCmdEx Utility

TIW provides an external command utility called SqlCmdEx with the Developers Kit. This utility allows the user to directly view the SQL Server database using standard VFP SQL Syntax. Whereas the SQL Server Management Studio requires the user to employ Microsoft SQL Server compliant commands, the SqlCmdEx program accepts standard VFP SQL commands. Therefore, it is NOT necessary to know the Microsoft SQL Server syntax when using this utility.

The SqlCmdEx executable file must be located in the ALERE program directory in order to function correctly. Before running the utility for the first time, it is necessary to set up a DSN in the Windows 32-bit ODBC Administrator. (See *Adding the TIWSQL Data Source to ODBC* section.) To run the utility, set up a shortcut or double click the file SqlCmdEx.exe in Windows Explorer. It is **NOT** designed to run inside of ALERE (i.e. in Developer Portal).

The combo box located at the top of the screen on the SQL tab contains a list of the available SQL Server company databases. Select the database that you wish to manipulate. Enter the standard VFP SQL command in the area below the combo box and press the execute button when you are ready to run it. The statement will be executed and the other tabs of the utility will be updated.

The translation tab contains the translation of the last executed SQL command entered on the SQL tab in valid SQL Server syntax. The history tab shows the SQL commands entered on the SQL tab since starting the utility. Finally, the message tab contains any error messages from the last SQL command executed or shows that the command was executed successfully, which indicates that there were no errors.

If you simply want to browse the records in a table, click the "Browse" button. You will be presented with a list of available tables in the selected database. Select the desired table and press Enter to open a read-only browse window.

Example of using the SQLCmdEx Utility to select items from the inventory table

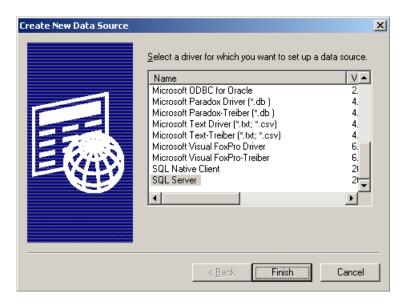
		SQL	Translation		History		Message			
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1	Bikebrowse	SELECT * FROM Imb	laster WHERE	BETWEEN (I Ce	ш, <sup>-</sup> мвва <sup>-</sup> , -	IBBC') INT				Î
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Γ	MBBA02	Bike, 21 grip sp me	n blue mtn	BIKE		С	EACH	EACH		
Γ	MBBA03	Bike, 21 grip sp me	n red mtn	BIKE		С	EACH	EACH		
Γ	MBBA04	Bike, 21 grip sp me	n black mtn	BIKE		С	EACH	EACH		
Γ	MBBA05	Bike, 21 std sp men	i white mtn	BIKE		С	EACH	EACH		
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		Exit Browse Execute								1

## Adding the TIWSQL Data Source to ODBC

- 1. In Windows Control Panel or Administrative Tools run Data Sources (ODBC). Note: if running a 64-bit version of Windows the Data Source must be set up with the 32-bit ODBC Administrator application (ODBCAD32.EXE) which can be found in the Windows\SysWow64 folder.
- 2. Click the System DSN tab on the ODBC Data Source Administrator screen then click the Add button.

🐖 ODBC Data Source /	dministrator			<u>? ×</u>		
User DSN System DSI	File DSN D	rivers Tracing	Connection Po	ooling About		
<u>S</u> ystem Data Sources:	stem Data Sources:					
Name Driver				Add		
				<u>R</u> emove		
				Configure		
🔰 🏼 🚺 the indicat	An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users					
on this mai	on this machine, including NT services.					
	OK	Cancel	Apply	Help		

3. Select the "SQL Server" driver from the list and click the Finish button.



4. On the first screen of the DSN Configuration wizard enter "TIWSQL" in the Name field, "TIW SQL Server" in the Description field, and enter the name of the SQL Server that will contain ALERE data in the Server field. (Note that the default server name for an SQL Server Express installation is "SQLEXPRESS".) Click Next.

Microsoft SQL Server DS	N Configuration	×
Select a divertion of dataset of soft Excess of soft Excess of soft Excess of soft Excess of soft Excess of soft Excess of soft Excess of sof	This wizard will help you create an ODBC data source that you can us connect to SQL Server. What name do you want to use to refer to the data source? Name: TIWSQL How do you want to describe the data source? Description: TIW SQL Server Which SQL Server do you want to connect to? Server: DATASERVER\TIWSERVER	
	Finish <u>N</u> ext Cancel Help	

5. The second screen of the wizard asks you to specify how you will connect to the SQL Server. If your SQL Server login has been linked to a Windows Server login, you can choose the first option which will allow you to connect to the server without entering another login. If you choose to connect with SQL Server authentication, you will be required to enter a SQL Server login each time you establish a new connection to the SQL Server. Click the Client Configuration button to specify which network library will be used to communicate with the server. This setting will depend on your network environment. Click Next.

Microsoft SQL Server DS	N Configuration	×		
Select a driver to: me soft Access t olt dBase t soft Excel t historech ForPri biot ODBr osoft Pare biot ODBr osoft Pare biot ODBr	How should SQL Server verify the authenticity of the login ID?			
Sul Serv	Client Configuration  Connect to SQL Server to obtain default settings for the additional configuration options.  Login ID: sa  Password:	_		
	< Back Next > Cancel Help			

- 6. The third screen of the wizard contains options for your connection. Make sure the "Use ANSI quoted identifiers" and "Use ANSI nulls, paddings and warnings" options are selected. The remaining options are not required for ALERE. Click Next.
- 7. The fourth screen of the wizard contains another set of options for the connection. The only option required to be checked for ALERE is "Perform translation for character data." The remaining options can be selected but are not required. Click Finish.
- 8. Click Test Data Source to make sure the connection is functional. If the test is successful, click OK. If the test is unsuccessful, check the server name, login options and client configuration options. Consult a network or database administrator if necessary.