

Created September 11, 2000 by Louie Orbiso Last revised 1/30/2009 by Cathy Martinez

Table of Contents

Requirements	1
ODBC – Installation Guide	1
Windows NT/2000 Server	1
Windows 95/98/NT/2000 Client	4
SCO Unix Server	6
[Data Source Defaults]	8
[Configuration Settings]	8
Appendix: Note from Transoft regarding Record 0	9
Troubleshooting	10

Requirements

cjh 11/28/07: The Transoft U/SQL client appears to not be supported on XP Home. There are no official documents from Transoft that state this, other than the opinion of their tech support. I have requested that they provide us with doc stating the requirements if possible, but just be aware that XP Home is unofficially not supported.

The client can be installed and seems to run okay for the most part, but there are problems with the U/SQL administrator which can cause it to crash. That part of the application is only needed to setup the data sources, and it is possible that these be setup through the Windows ODBC administrator if necessary.

ODBC – Installation Guide

Setting up ODBC is a two-step process. There is the Server portion and Client portion. The Server can be either on a Unix system in a TCP/IP environment or a Windows NT/2000 system. The server **cannot** be a Windows 95 machine or a Unix machine in a serial environment.

Windows NT/2000 Server

In an NT/2000 environment, it is fairly simple and straight forward. The user will stick the provided CD into the Server and the autorun feature should start. They would then select the *'NT installation'* option. Select the default options given when installing the program.

The program should then prompt for a password. For the NT Server the password is: DRV22-BB-AIRPORT.



Tease encer your pass	You have chosen to install a Transoft ODBC driver. To complete the installation of this conf synerit you must enter the DDBC Driver Password that was supplied to you Password: DRV22-88-AIRPORT]
	< Back Next > Cancel

Once the installation is complete it should ask if you want to start the process automatically. Go ahead and answer yes. It should then say that it will start on port '7000'.

Once the Installation is done, you need to activate a server license. You do this by running the U/SQL Service Manager and clicking on the 'License Manager' tab. Click on the 'Create' button to create a Full License.

	Server Administration	
in the second s	Server Control Active License Lice	nse Manager
	Service is Installed	Uninstall Service
	Service is not running	R
	C Manual Start	<u>Start Server</u>
	 Automatic Start 	Stop Server
Add Data Source Dejete Data Source	Port <u>N</u> o. 7000	2
Saye Exit		·

Services	Server Control Active License License Manager
	License Name Serial number Status
	- Create License
Id Data Source	Create License Create License Cremorary Cremorary Seccial Activate

Enter the information from the documentation given by Transoft. Once it's created, it should create an Entry on the main text box above the 'Create' button. Highlight the license and then click on Activate.

cense <u>N</u> ame	SERVER.LIC
lease enter the fi	ollowing EXACTLY as shown on your license form
our <u>O</u> rganization	÷ [
our <u>L</u> icense Cod	e
Γ	Create License

conse mane	Serial number	Status
ERVER LIC	86455A	Åctive
		R.
Create License		
Create License	8157	<u>D</u> isplay

Now click on the 'Server Control' and make sure that the 'Automatic Start' option is selected and that the port number is set to '7000'. Go ahead and click on 'Start Server'

Services	Server Administration Server Control Active License Lic	ense Manager
	Service is Installed	Unnstal Service
	Service is running Do <u>M</u> anual Start	<u>. Start</u> , Server
Id Data Source	Port No.	Stop Server
Save Evit	7000	8

Notice how the stop light should now be set to the green signal. This indicates that the service is now running. This next step illustrates how to create the 'c2.udd' entry.

Services Configuration Settings Configuration Settings Data Source books.audd books.22.udd	U/SQL Service Manager Services USQLSDBB310.0403 Configuration Settings Data Source Portauts Data Source Portauts Configuration Settings Data Source Portauts Configuration Settings Comput/DATA: Translation File	
Add Data Sgurce Delete Date Source	Add Data Spurce Delete Data Source	
Sage Egh	Egt	

Click on the 'Data Sources' folder and then click on the 'Add Data Source' button. Name our new data source c2.udd. On the right hand side, the 'Dictionary' field should be the path to the c2.udd file. This is normally in the \Compu\MODS directory. The 'Search Field' is the path of the data directories, ie \Compu\data and \Compu\data1.

😵 U/SQL Service Manager		. – 🗙
Services USQLSDBB4.10.0000 Data Source Defaults Data Sources books.udd MCMS MCMS Temp	MCMSCust Settings Advanced Security Key Value FileNamePrefix FileNameSuffix Substitution TempDir DecimalRound N ForceSimilarIndex Y SQL_Outer_Joins Y	
Add Data Source Dejete Data Source	A <u>d</u> d Key <u>M</u> odify Value D <u>e</u> lete Key	

U/SQL Service Manager			
Services USQLSDBB4.10.0000 Data Source Defaults Data Sources books.udd MCMS MCMSCust Temp	Configuration Settings Key MsgFileDir LogFileDir Loglevel NewDictionaryDir DSDrivers FileHandler License TempTablePages	Value C:\USQLCS\BIN C:\USQLCS\BIN 3 C:\USQLCS\UDD TSMBB32 SERVER.LIC 8192	
Add Data Source Dejete Data Source Save Exit	A <u>d</u> d Key	<u>M</u> odify Value	D <u>e</u> lete Key

Windows 95/98/NT/2000 Client

The client portion of ODBC can be installed on a wide variety of machines. The only requisite is that it must be running some type of Windows operating system. The installation is done using the same CD as the server part. In the autorun menu highlight the '32-Bit Installation' and click on go. Installation is again straightforward. Simply select all the defaults that the program suggests.



Like the server, it will also prompt you for the Product password. The password is: DRV1-MT-HARVEY.





The last part of the installation asks you where the Server is located. For the Host you should type in the IP Address of the Server that the USQL Server software is installed on. This also holds true if it is a Unix system. The port should also be set at 7000 unless it was changed during the USQL Server installation.



Once the Client software has been installed, we need to install the client license. The information should be on the same document that contained the server information. To install client license run the *'License Tool'* program from the USQL client group. Click on the License form button and enter the information requested.

License Tool 3.10.0100	
Install Install your license from the License Form supplied. License Disk Install, Remove & Modify your license from License diskette	Install license Enter the following : Your Name : Your Organization :
Upgrade the revision of your license	And from the license form supplied : Your License code : Ir License License to the licensing this copy
Remove Remove an existing license Examine Examine the details of the license	
No Valid License found	

Once the License has been installed we need to setup the DSN in ODBC. To do this, run the USQL Client Administrator.



onstration	
Hemove	
Configure	
1 Est Connec	

From the USQL Client Administrator, we need to setup our c2.udd.dsn. To do this click on the 'Add' button and enter in the following information.

32-bit ODBC Setup 🔀		
Enter/edit the fields.	Then choose OK.	
Data Source <u>N</u> ame:	c2.udd	
Description:	Contrac2	
<u>S</u> erver Name:	IP ADDRESS OF SERVER	
Port Number:	7000	
<u>T</u> imeout:	60	
	LL2K Cancel	

Once this is entered in, you can highlight the newly created c2.udd and click on the *'Test Connect'* button. If everything went correctly, you should get a message back saying that the test connect succeeded.

SCO Unix Server

This next part illustrates how to install the USQL Server on a Unix machine. You must be logged on as root. Stick the CD into the unix machine and mount the CD rom drive. This is normally done with the following command:

mount /dev/cd0 /mnt

Next type in this command to get to the correct Server version:

cd /mnt/UNIX/BB/SO # pwd /mnt/UNIX/BB/SO # I # total 2838 -r-xr-xr-x 1 root sys 1453056 Dec 20 1999 CSBBSO~1.TAR

Next, we want to create a a USQLCS directory type in the following command to do this.

mkdir /compu/usqlcs

Once this is created we need to copy the *. TAR file to this directory. To do this type in the following command.

cp /mnt/UNIX/BB/SO/*.TAR /compu/usqlcs

Once it is in the /usqlcs directory we need to un-tar the file. Run this command to uncompress it.

cd /compu/usqlcs
tar -xvf *.TAR
l
total 5704
-r-xr-xr-x 1 root sys 1453056 Sep 8 16:49 CSBBSO~1.TAR
-rwxrwxrwx 1 root other 57404 Dec 20 1999 README
-rwxrwxrwx 1 root other 23734 Dec 20 1999 install.sh

-rw-rw-r-- 1 320 103 74671 Dec 20 1999 kript.u -rw-rw-r-- 1 320 103 1292783 Dec 20 1999 usglcs.z

This should uncompress all of the files into this directory. Next we want to run the install script. Do this by running the following command.

rm C*.TAR # ./install.sh

This should uncompress the files and directories needed. It will also prompt you for a password. The password is: **BB-SO-RYTON**

It will also ask if you want to start this service automatically. Say yes to this question. That way it puts it startup dirs.

The next part is to install the Server license to do this we have to be in the /usqlcs/bin directory. Enter in the following command to run the licensing program.

cd /compu/usqlcs/bin # ./licgen

Type in 1 to create a Full License and enter in the requested information. All of the information should have come with the CD.

Once the license has been installed, we can either reboot the machine to start up the USQL program or simply type in the following command.

cd /compu/usqlcs/bin # ./start_serv.sh

If everything went correctly, then it should come back and say that the program is running on port 7000. This is the default port that USQL uses.

The next step is to setup our c2.udd. To do this we need to modify the usqlsd.ini file. First of all we need to copy over the c2.udd from our system to their /compu/MODS directory. This can either be cu'd over or copied from the C2Connect V2.0 CD.

If you copy the c2.udd file from the C2 Connect CD, you need to first unmount the Transoft USQL CD.

umount /mnt

Then mount the C2 Connect CD

mount /dev/cd0 /mnt

Now copy the file from the CD to the /compu/MODS directory. The c2.udd file must be in lower case in the /compu/MODS directory

cd /mnt #cp C2.UDD/compu /compu/MODS/c2.udd

To edit the usqlsd.ini file, run the following command.

vi usqlsd.ini

Once in vi, we want to add the following entry:

[c2.udd] Dictionary=/compu/MODS/c2.udd Directory=/compu/DATA Searchlist=/compu/DATA1

We can also add:

[Data Source Defaults] BBLOCKTYPE=UBL ZeroPadDecimal=Y DecimalRound=N ForceSimilarIndex=Y SQL_Outer_Joins=Y NullDates=Y BBACTIVERECPOS=7 BBACTIVERECISMAXREC=Y

: See Appendix: Note from Transoft regarding Record 0 on page 9

[Configuration Settings] TempTablePages=8192

Save the changes and exit vi. Now that we have our database defined we can test it out. To do this run the following commands.

./usqli c2.udd

Interactive U/SQL Utility. Copyright (c) Transoft Ltd. 1993-99 Connected to server: [Engine v3.10.0307][BBLOG v3.10.0103] Opened: 'c2.udd'

U/SQL> select * from SO;

If everything went correctly, you should start seeing the information from the SO file.

To get out of the program type in the following.

U/SQL> quit

On closing note, make sure that you unmount the CD rom drive, do this by typing in the following command. **# umount /mnt**

Appendix: Note from Transoft regarding Record 0

From: Fiona Oliver [mailto:FOliver@transoft.com] Sent: Sun 11/2/2008 1:50 PM Subject: RE: Mantis 7043 - Problem with USQLCS insert into linked-available file updating record 0.

 $\ensuremath{\text{U/SQL}}$ uses the $\ensuremath{\text{U/BL}}$ BB-ISAM library and specifically GETREC and DELREC when adding and deleting records.

GETREC and DELREC update record 0 of a linked available record BB-ISAM as laid out in the Data General Business Basic manual:

Contents of Record 0 of a Linked-Available-Record File

Bytes	Description
1 - 2	Status flag (always equal to -2)
3 - 6	Record number of next available record (-
	1 if no records are on the deleted-record
	chain)
7 - 10	Record number of the last record used in
	the file
11-14	Active record count, initially 0, this
	value is incremented by GETREC and
	decremented by DELREC
15 - end	Reserved

We have modified the standard behaviour of U/SQL using 2 environment variables:

BBACTIVERECPOS and BBACTIVERECISMAXREC

* BBACTIVERECPOS is the position in record 0 of the active record counter. It defaults to 11 (the standard position).

* BBACTIVERECISMAXREC means that the active record counter is actually the highest number of records there have been, so it is not decremented when a record is deleted. Defaults to N.

I think that if you set the following environment variables the problem will be solved

BBACTIVERECPOS = 7 BBACTIVERECISMAXREC=Y

Fiona

Troubleshooting

1. Cannot change the link to a left join in M/S Query. Set SQL_OUTER_JOINS=Y in the Data Source Defaults.

CSR: 1205 AMERICAN PIPING PRODUCTS, INC. CALL: 1/30/09 08:54 When he adds the customer file, he only gets prospects that have a customer instead of all prospects. He is using MS query, but it does not allow him to change the join between customer and prospect to an outer join. Should be prospects left outer joined to customer.

I got on their server and added two data source defaults BBLOCKTYPE=UBL SQL_OUTER_JOINS=Y

Then when John ran his query the links between the files showed up and he had the option to change the link. He was able to select left outer join where all records of Prospect will show and even if there isn't a customer setup for the prospect.