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## 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

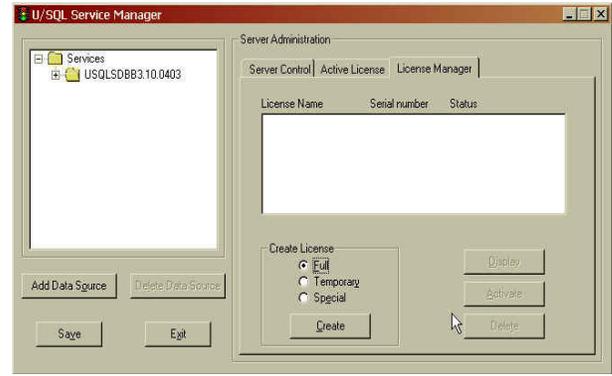
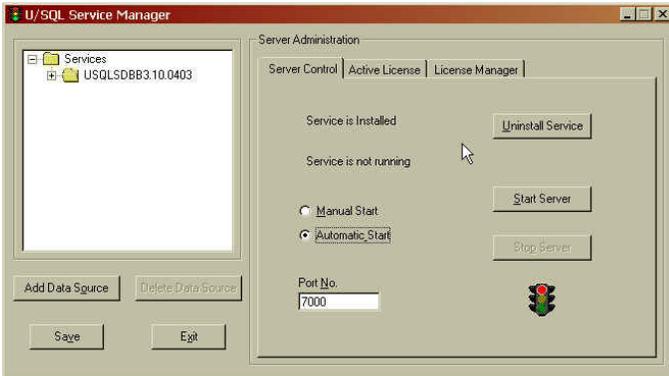
In an NT/2000 environment, it is fairly simple and straight forward. The user will stick the provided CD into the Server and the autorun feature should start. They would then select the 'NT installation' option. Select the default options given when installing the program.

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

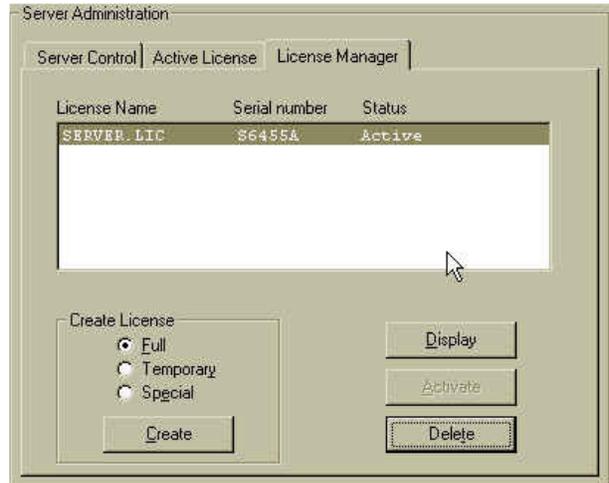


Once the installation is complete it should ask if you want to start the process automatically. Go ahead and answer yes. It should then say that it will start on port '7000'.

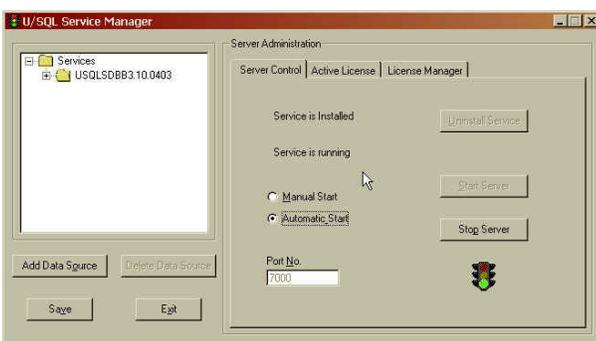
Once the Installation is done, you need to activate a server license. You do this by running the U/SQL Service Manager and clicking on the 'License Manager' tab. Click on the 'Create' button to create a Full License.



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.

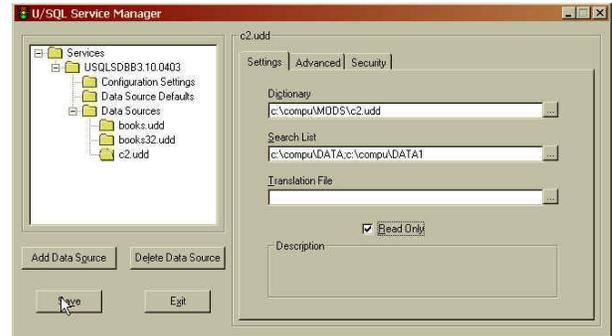


Now click on the 'Server Control' and make sure that the 'Automatic Start' option is selected and that the port number is set to '7000'. Go ahead and click on 'Start Server'

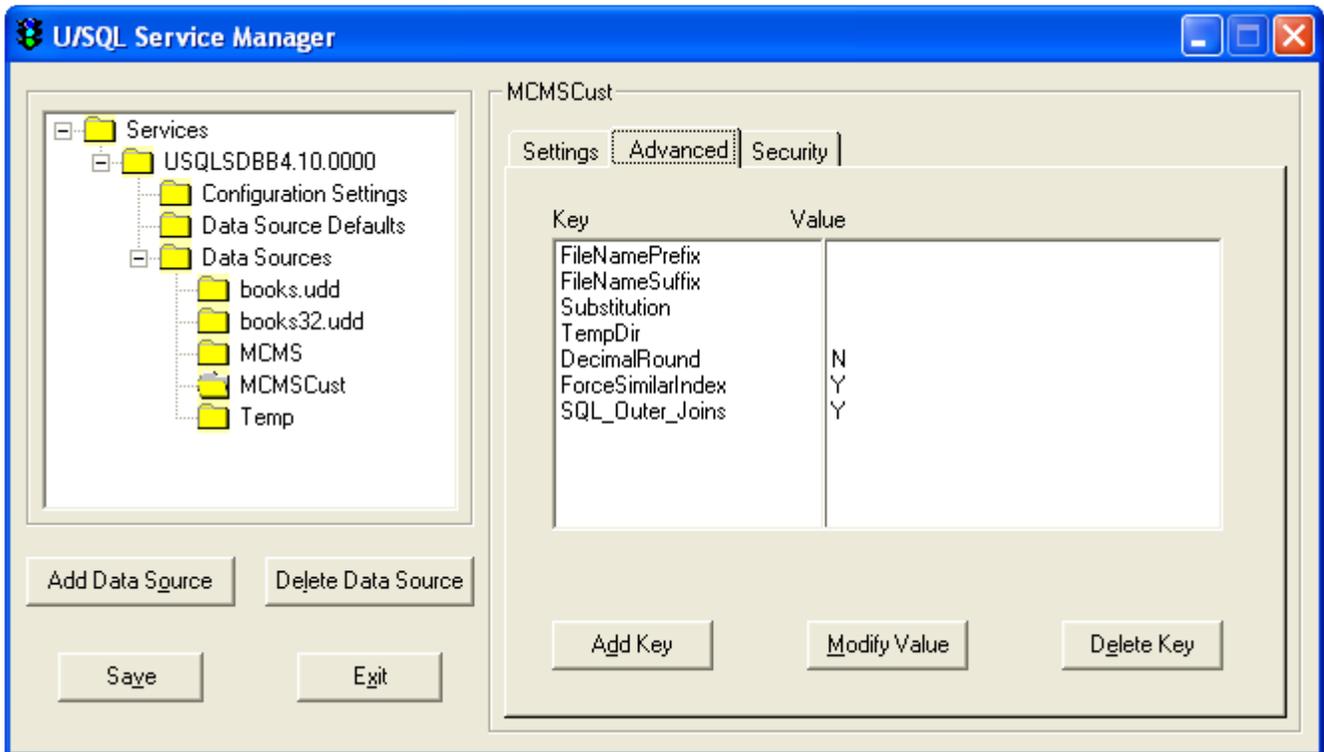


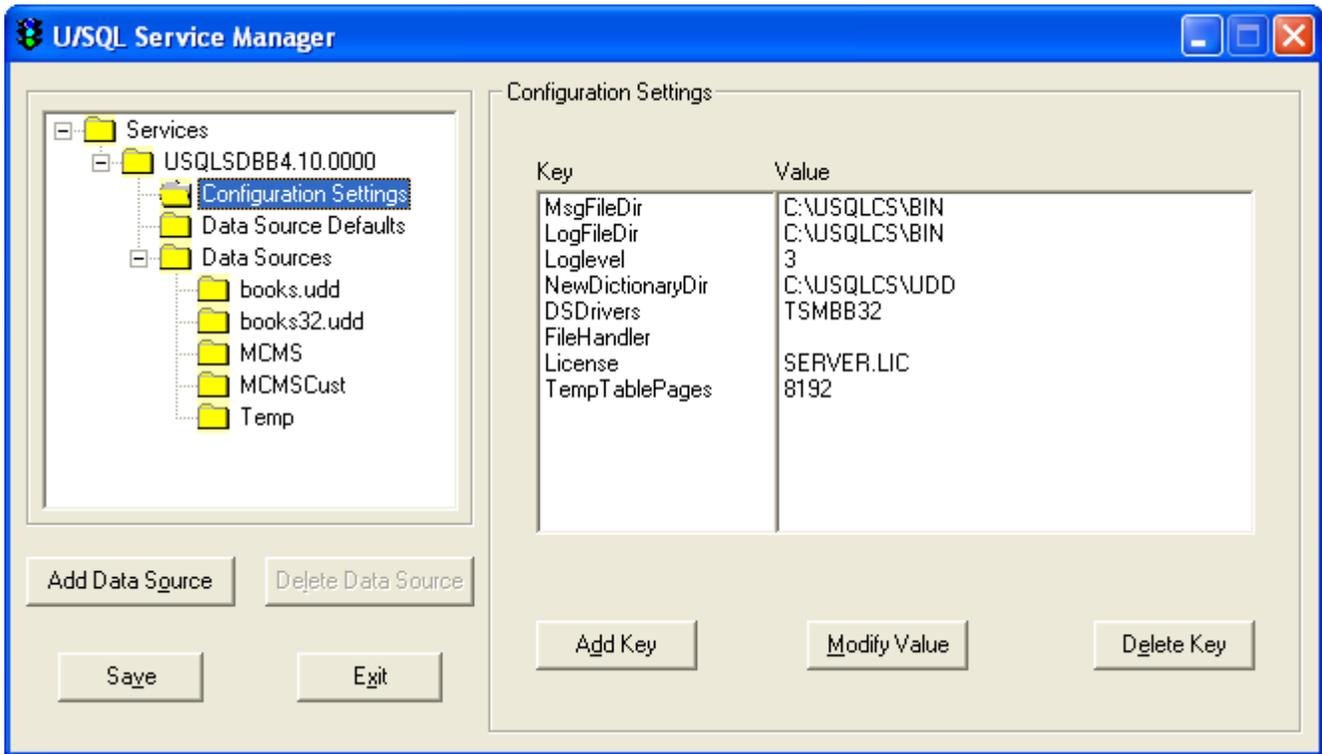
Notice how the stop light should now be set to the green signal. This indicates that the service is now running.

This next step illustrates how to create the 'c2.udd' entry.



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.





## 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.



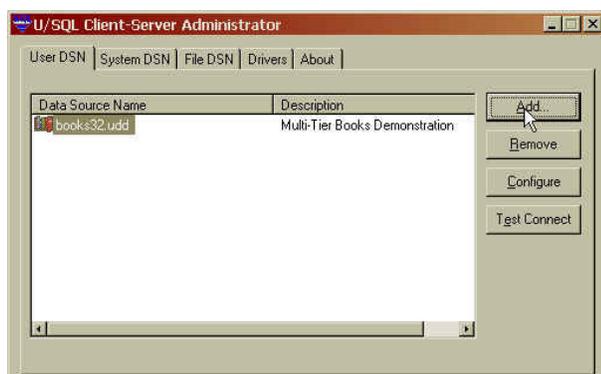
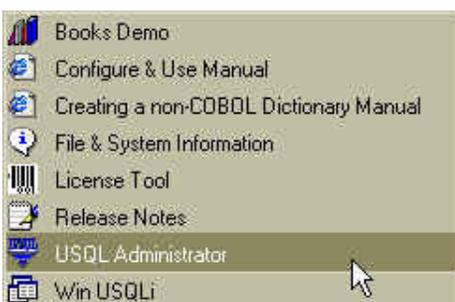
The last part of the installation asks you where the Server is located. For the Host you should type in the IP Address of the Server that the USQL Server software is installed on. This also holds true if it is a Unix system. The port should also be set at 7000 unless it was changed during the USQL Server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



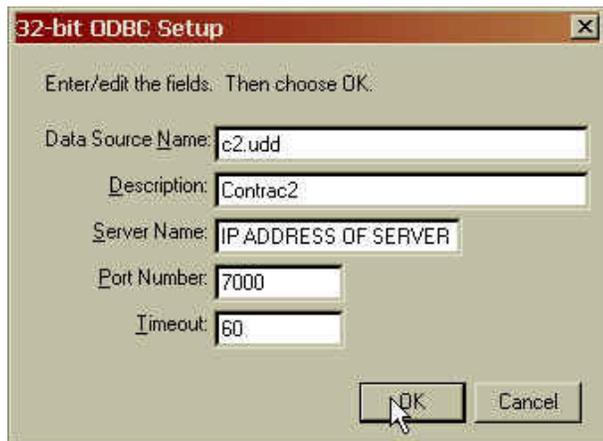
Once the Client software has been installed, we need to install the client license. The information should be on the same document that contained the server information. To install client license run the 'License Tool' program from the USQL client group. Click on the License form button and enter the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



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



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.



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
# l
# 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 usqlcs.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**

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

**BBACTIVERECISMAXREC=Y**

**[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.

U/SQL uses the 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.