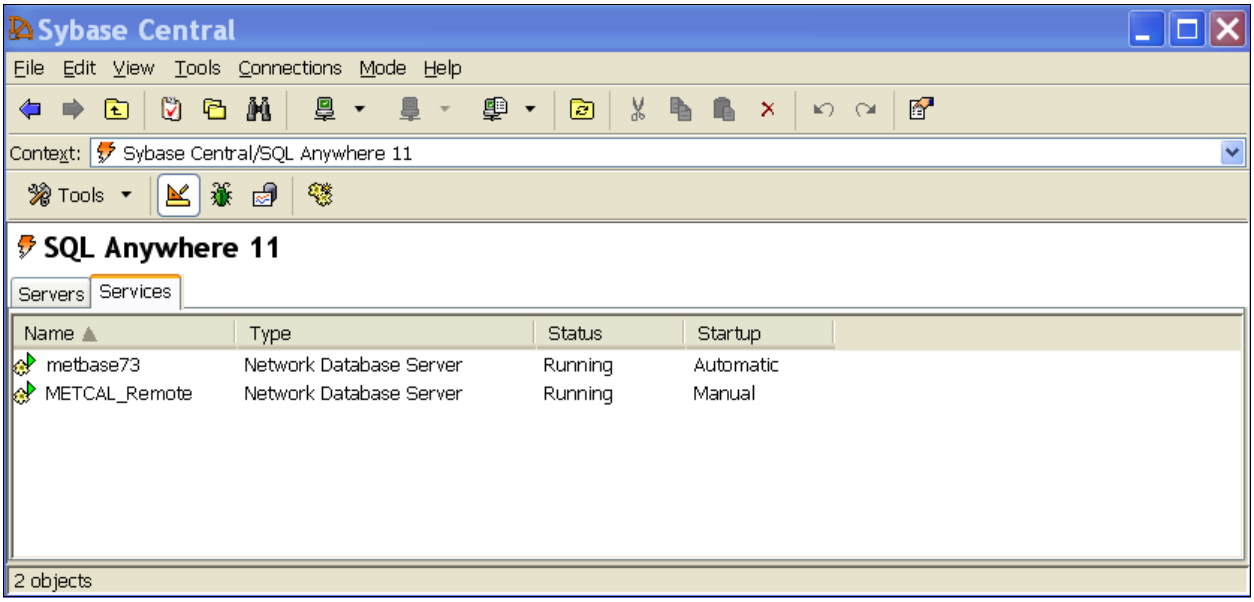
Using Remote Pipeline (1.2x) in a Single Computer Configuration

There are some situations where it is useful to configure Remote Pipeline to run both the Master and Remote Database on a single computer. For example, if you are going to use the -TRANSALL switch, running both databases on a single computer is more efficient and it eliminates the network traffic. After you update the two databases using Remote Pipeline, you can copy these databases back to their normal locations. There are configuration issues to be aware of when running two MET/TRACK databases on one machine:

- Using two databases running on one database engine.
- Using two databases running two separate database engines with tcpip (two ports)
- Using two databases running two separate database engines, one with tcpip and one with shared memory.

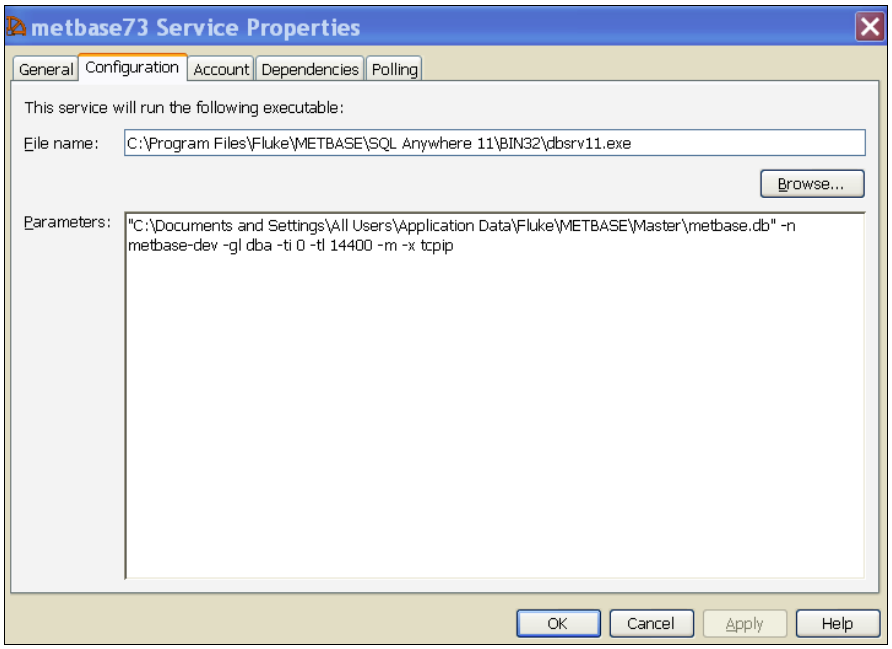
The last option in the list of bullets is what we are going to describe in this document. One Database using TCPIP (Master) and the other database using shared memory (Remote). When Remote Pipeline version 1.2 was released, it was documented to use Windows Services to start and stop the databases. We will take a look at the service manager in the Sybase Central Program.



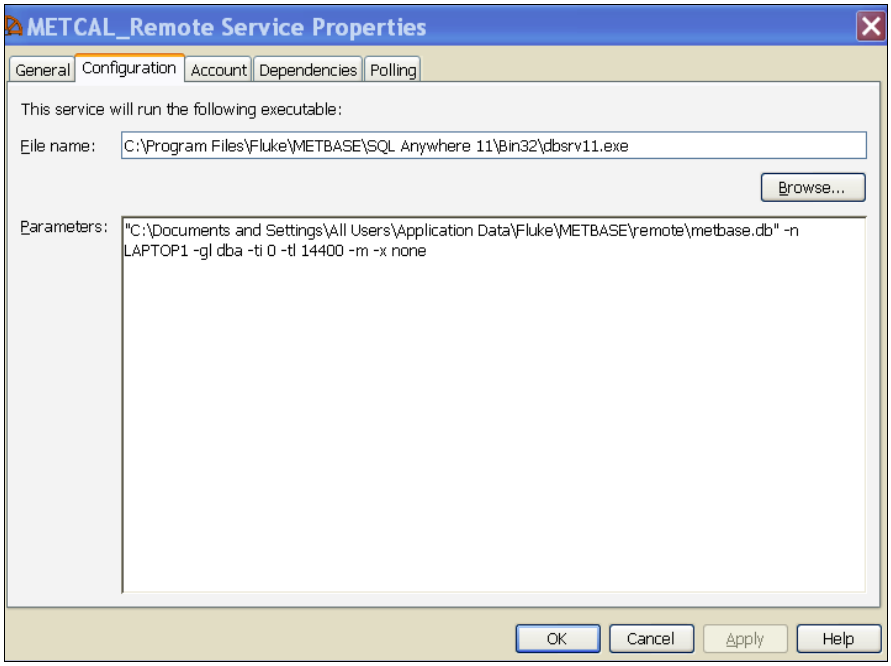
In the picture shown above, we have the master database running under the metbase73 service and the remote database running under the METCAL_Remote service. These service name for the Remote Data is very important, because it will be used in the ODBC configuration to automatically start the Remote Database.

The next page shows the configuration of the two services.

The picture below shows the configuration of the master database.

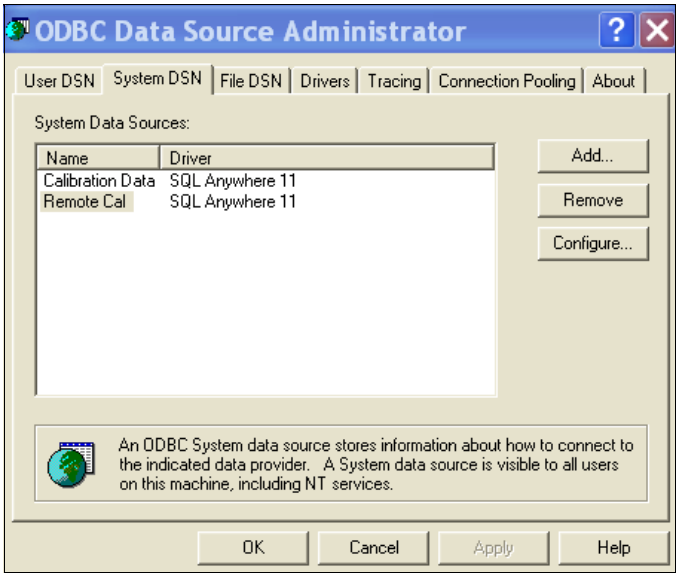


The picture above shows the location of the Master Database and the configuration switches. The -m switch will periodically erase the transaction log at each checkpoint. This eliminates the build up of large files when using the -TRANSALL switch. The database broadcast name is “metbase-dev”.

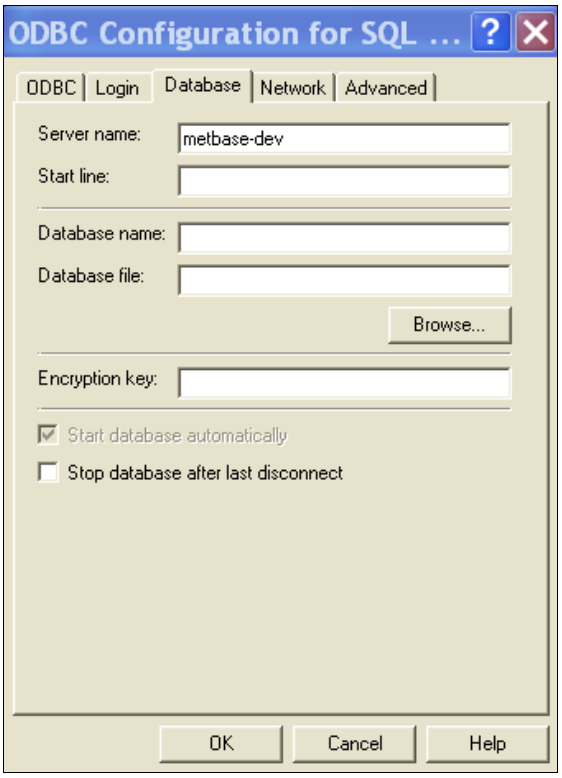


The picture above shows the location of the Remote Database and the configuration switches. This configuration uses the -x none configuration for shared memory (no TCPIP). This means that we do not need to configure a special TCPIP port because we are not using TCPIP. The database broadcast name is “LAPTOP1”.

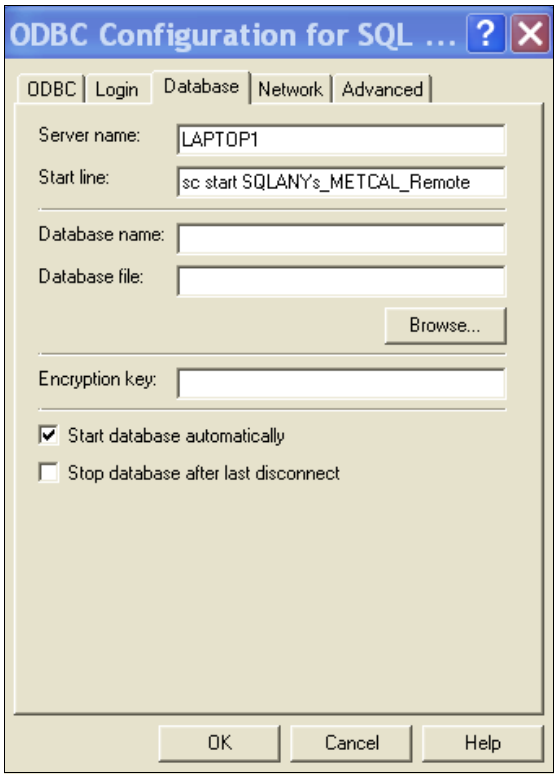
Now we will configure the ODBC settings for each database. The picture at right shows the two ODBC sources that are used for Remote Pipeline.



Master

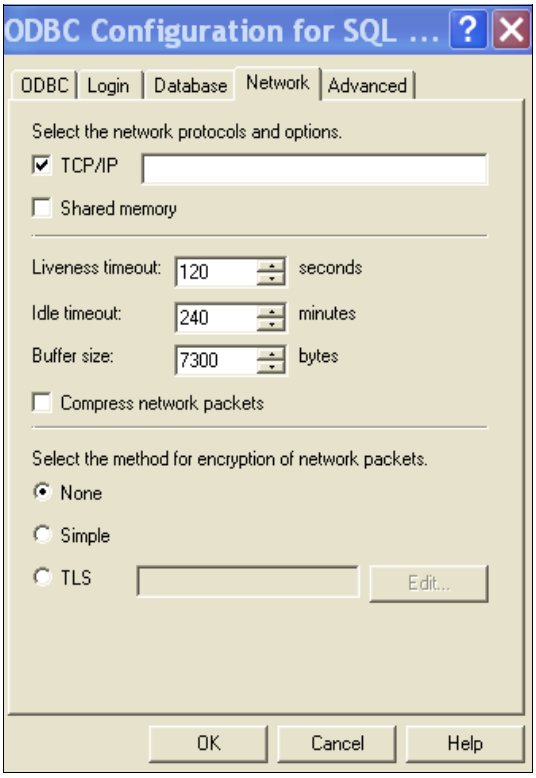


Remote

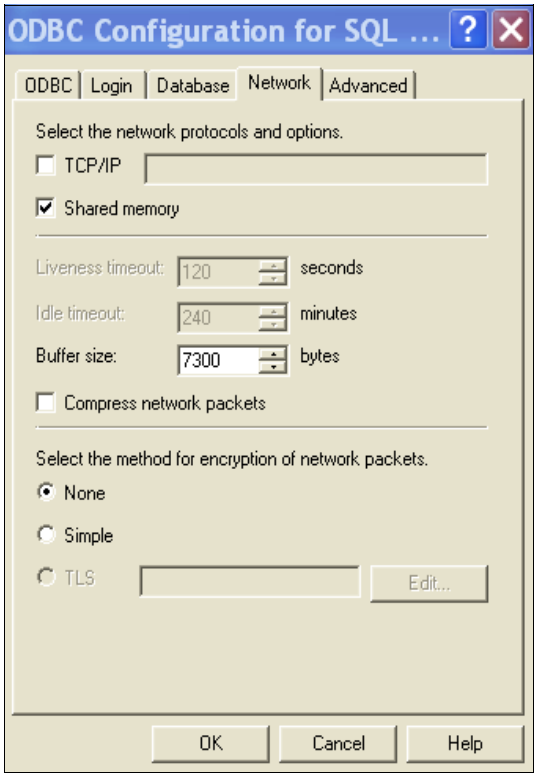


The two pictures above show the difference between the Master and Remote database configurations. The picture at the left shows a simple Master database configuration. However, the Remote Configuration, LAPTOP1, shows the configuration with an automatic start of the Remote Database service. It is important that the database service name be correctly entered. These pictures were copied from a working system.

Master



Remote



The two pictures above show the Network Configuration for the Master and Remote databases. The picture at left shows a very simple configuration using tcpip. There is no host address because this is running on the standalone computer. The picture at right shows the shared memory configuration. There is no TCPIP setting. This also matches the service settings for the Remote Database using a -x none switch.

After configuring these settings, you should be able to start and stop the databases from the Sybase Central Service Manager. You can even set up another METTRACK icon like the one shown at left for the Remote Database. In our example, the properties of the icon are modified as:

"C:\Program Files\Fluke\METTRACK\mettrack.exe" -l dsn=Remote Cal

You can now run MET/TRACK for the Remote Database or the Master Database. Remember that Remote Pipeline disables the MT administration in the Remote Database.

If you decide to use the TRANSALL switch, our configuration works as follows. Your directory location for Remote Pipeline may be different from the one listed below.

"C:\Program Files\On Time Support\Remote Pipeline\rpl1.exe" -TRANSALL;MDSN=CALIBRATION DATA;MUID=MT;MPWD=123456;RDSN=REMOTE CAL;RUID=MT;RPWD=123456

Remote Pipeline starts up automatically and starts the forced database merge.

This concludes this document on configuring a standalone Remote Pipeline System. Please contact On Time Support for any further information.