

Re: Communication Link Failure Error

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- *From:* Tahir Sultan <TahirSultan@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 20 Nov 2006 07:21:02 -0800
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I eventually managed to find a BETTER way around it. Here are the changes which I made to my code:

1. Changed the connection string to use native OLE DB as follows:

```
Provider=sqloledb;Data Source=AAA;Initial Catalog=BBB;User Id=CCC;Password=DDD
```

where AAA = SQL Server name

BBB = database name

CCC = login user name

DDD= password

2. I declare a list which holds pending SQL request.
3. hook up ADO connection object's Connectioncomplete and Disconnection events.
4. when execution of a SQL query fails, an exception is raised—catch this exception. check the list of pending requests. if it is empty then add this failed request into the list and disconnect from the database. (this will force to disconnect from an invalid connection if there is any). Do not attempt to disconnect from the database if there is already a pending request in the list.
5. I have a separate thread which attempts to connect to the database. once I have got connection to the database, i suspend that thread.
6. in disconnection event handler, I check if there is an error while I tried to disconnect from the database. If there is NO error then I resume the thread which attempts to connect to the database.
7. in connection event handler, I check if there is an error while I tried

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to connect to the database. If there is NO error then I start a timer which checks pending request list and if there is any pending request, send it to the SQL server and then empty the list.

Regards,

Tahir Sultan

"Tahir Sultan" wrote:

The tcp/ip protocol is at the top of the list. Enabling/disabling connection pooling did not make any difference anyway. I also try to use OLE DB instead of using ODBC driver but it did not work.

But then I tried the following workaround which worked pretty well:

1. On disconnection from the network, in my code I changed the connection string to use SQLOLEDB and sent a SQL query to SQL server which failed as expected.
2. On reconnection to the network, in my code I changed the connection string back to {SQL Server} and sent a SQL query to SQL Server which succeeded.

I know it is not very good solution but I tested this many times and it seemed to work.

Thanks a lot Bob for putting me in right direction.

Tahir

"Bob Barrows [MVP]" wrote:

Does the problem occur when you use the native OLE DB provider for SQL Server instead of the deprecated OLE DB provider for ODBC databases? See <http://www.aspfaq.com/show.asp?id=2126>

Is the DSN using named pipes or tcp/ip? If it is using named pipes, try forcing it to use tcp/ip.

Also, it is a bad idea to disable connection pooling (or session pooling as it is known in OLE DB parlance) except in very specific circumstances. Why have you disabled pooling?

Tahir Sultan wrote:

I am using ADO in my application to connect and retrieve data from Microsoft SQL Server 2000 SP4. When I start my

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application, it establishes connection to the server successfully and I am able to retrieve data from the server. here is my test scenario:

1. unplug the network cable from the client machine and put the cable back in after some time. I disconnect from the database in my code when the client machine disconnects from the network
2. Once the client machine comes back on the network, I try to reconnect in my code and retrieve data from the sql server but I get the following error message when I try to execute a sql command:

[Microsoft][ODBC SQL Server Driver]Communication Link failure

This problem occurs only with Window XP SP2. With XP SP1 it works fine. It seems to be problem on the client side as with Windows XP SP1 I do not get this error message at all.

Here are the various details:

1. The firewall is off on the client workstation.
2. the connection string is:

```
driver={SQL  
Server};server=AA;uid=BB;pwd=CC;database=DD
```

where AA = DNS name of server machine where sql server is running.

BB = user name

CC = password

DD= database name

3. The client is remote to the server.
4. I can ping the server machine when the client machine reconnects to the network.

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5. I can still telnet the server when the client machine reconnects to the network.
6. client database provider is MDAC odbc.
7. the client and server machines are in the same domain.
8. Shared memory and TCPIP protocols are enabled and TCP is at the top of the list.
9. No alias is being used.
10. Virus scan is not installed.
11. force encryption is NOT checked.
12. The connection pooling is also disabled for SQL server odbc driver under Connection Pooling tab of ODBC Data Source Administrator.

Any thoughts would be appreciated.

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Microsoft MVP – ASP/ASP.NET

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