

Linked server to ODBC DSN

Source:

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i have a DSN created on the SQL Server machine itself. Using my favorite ODBC sql query tool, i can select the System DSN, specify a login and password, and type a select statement and it all works. i go into SQL Server, and want to create a linked server to this same ODBC DSN:

```
Linked server = "BALLYs"  
Provider = "Microsoft OLE DB Provider for ODBC Driver"  
Data Source="WC400B Bally CMS Testing"  
Security-Be made using this security context:  
  Remote login= [Login Name]  
  With Password= [Password is blank]
```

Then i connect to the SQL Server using QA, and try to run my query (that works in my favorite generic ODBC query tool):

```
SELECT * FROM OPENQUERY(BALLYs, 'select * from cspcm')
```

And i get an error message. Now, the error message really shouldn't matter. My question is, why does it not work? Why didn't the linked server work? If any generic 3rd party tool can login and run queries fine, why isn't SQL Server?

But if you care, the error message is:

```
Server: Msg 7399, Level 16, State 1, Line 1  
OLE DB provider 'MSDASQL' reported an error.  
[OLE/DB provider returned message: [IBM][Client Access Express ODBC Driver (32-bit)][DB2/400 SQL]General error.]  
[OLE/DB provider returned message: [Microsoft][ODBC Driver Manager] Driver's SQLSetConnectAttr failed]  
[OLE/DB provider returned message: [Microsoft][ODBC Driver Manager] Driver's SQLSetConnectAttr failed]  
[OLE/DB provider returned message: [IBM][Client Access Express ODBC Driver (32-bit)][DB2/400 SQL]Communication link failure. Comm RC=4 - CWB0999 - Unexpected error: unexpected return code 4]  
OLE DB error trace [OLE/DB Provider 'MSDASQL' IDBInitialize::Initialize returned 0x80004005: ].
```

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Now obviously the DB2 ODBC driver works fine, since i can use it fine with ADO in my own programs, as well as any other program that knows how to use ODBC.

So what is SQL Server doing wrong?

Here are all the settings for my linked server setup:

Provider name: Microsoft OLE DB Provider for ODBC Drivers

Product name: [blank]

Data source: WC400B Bally CMS Testing

Provider string: [blank]

Location: [blank]

Catalog: [blank]

Provider Options:

Dynamic parameters: Unchecked

Nested queries: Unchecked

Level zero only: Unchecked

Allow InProcess: Checked

Non transacted updates: Unchecked

Index as access path: Unchecked

Disallow adhoc accesses: Unchecked

Be made using this security context:

Remote Login: [The login]

With password: [blank – the password is empty]

Server Options:

Collation compatible: Unchecked

Data Access: Checked

RPC: Unchecked

RPC Out: Unchecked

Use remote connection: Checked

Collation Name: [blank]

Connection Timeout: 0

Query Timeout: 0

Everything is defaulted, aside from the OLEDB Provider Name, the DSN, the login, and password.

Which of these defaults are wrong, and are preventing SQL Server from connecting to a remote ODBC data source?