

Application Role – aduseclient

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I have as visual basic application that connects to a SQL-server 7.0 with Windows Authentication. In my database I use an Application Role to set the permissions on the tables.

In my vb application I use the following code :

Set bestelcon = New Connection

With bestelcon

.Provider = "SQLOLEDB"

.ConnectionString = "Data Source=" & server & _

 ";Initial Catalog=" & db & _

 ";trusted_connection=Y" & _

 ";integrated security=SSPI"

.Open

End With

' user_appl_role and user_appl_pwd are corect

bestelcon.Execute "EXEC sp_setapprole '" & user_appl_role & "', {
ENCRYPT N '" & user_appl_pwd & "' } , 'ODBC'"

Set db_username = New Recordset

sqlcommand = "select user_name ()"

db_username.CursorType = adOpenKeyset

db_username.LockType = adLockReadOnly

db_username.Open sqlcommand, bestelcon

db_username_role = db_username.Fields.Item(0).value

' the result of these select is the correct name of the application
role

Set kostensoort = New Recordset

sqlcommand = "select * from kostensoort where ks_status = 1 order by
ks_afkorting"

kostensoort.CursorType= adOpenStatic

kostensoort.LockType = adLockReadOnly

kostensoort.CursorLocation = adUseClient

kostensoort.Open sqlcommand, bestelcon

The problem is :

One user has no select permission on the table 'kostensoort' (on different PC), the others have (on this PC).

Everyone uses the same application role and the public has no rights to 'kostensoort'

When the person, who has no select permission in the visual basic application, runs SQL-QueryAnalyser and first activate the application role , the select gives results as expected. In QL-QueyAnalyzer, everything works for this user.

I think the problem seems to be situated in VB.

Now, I detected that, if I delete the instruction

```
"kostensoort.CursorLocation = adUseClient"
```

this user has select permission (and insert/update/delete as set in the application Role).

The strange is, if I set the following code before the select of "kostensoort" everything works perfect :

```
Set db_username = New Recordset
sqlcommand = "sp_helprotect kostensoort, kredietapprole1"
db_username.CursorType = adOpenKeyset
db_username.LockType = adLockReadOnly
db_username.Open sqlcommand, bestelcon
'db_username_role = db_username.Fields.Item(0).value
```

```
db_username.MoveFirst
Do Until db_username.EOF
  db_username_role = db_username.Fields.Item(5).value
  Debug.Print db_username_role
  db_username.MoveNext
Loop
```

Therefor ,what is the problem: the security with the application Role or the "aduseclient(batch)".

As long as there is no "aduseclient or aduseclientbatch", everything works perfect for this user.

Why doesn't the "aduseclient" for this person (on different Pc) work and for the other people it seems not to be a problem ????

PS: With SQLSERVER 2000 this person has the same problem.