

# RSDatabase Control (OCX/DLL)

Additional help can be found on our support board at  
<http://www.innoscript.com/cgi-bin/discus/discus.cgi>

This control supports DSN Less, ODBC , OLE DB and JET connections. The following databases are supported: If your database is not in the list then it will probably still work with an ODBC connection.

**You need to have at least MDAC 2.7 installed for this control to work properly.**

Access 3.51	JET, ODBC, OLE DB, DSN Less
Access 4.0	JET, ODBC, OLE DB, DSN Less
Oracle	ODBC
IBM UDB	ODBC
Pervasive SQL	ODBC
SQLServer	OLE DB, ODBC, DSN Less
MySQL	OLE DB, ODBC, DSN Less
DBase IV	OLE DB, ODBC, DSN Less

The zip file contains two VB Projects (source code) as an example of how to use this control. One with forms (dbControl.zip) and the other Windowless (WindowLess.zip). You must register the RSdbControl.ocx file for the control component or RSdbControl.dll (WindowLess) for the reference. In VB go to Project->Components then select the Multi Database Connection Component. Add the control to the form and you are now ready to use the program. You can load the dll and not have to use any forms, but you do have to include it in your references. You can use it by simply defining the following line in a module.

```
Public SomeVar as New RSDatabase
```

You should register the OCX first before opening the project (in dbControl.zip) for the first time. If you first load the program first, VB will complain that there is a problem with the form. This will be because the OCX is not registered and will need to be deleted from the form and re-added. Of course after registering it. If you are not sure how to register the file... We have included a batch file that can register it for you. The name of the file is REGIT.BAT and if you run it the OCX will be registered.

There is a databases included Access 2000 (Jet 4.0) named Access2000.mdb. This will allow you to see the ease that you can get an app connected without knowing many of the details. All the supported databases can connect just as easily. There is a generic ODBC connection, but no specific date/time routines are supported for this connection

**(for RSdbControl.ocx)**

In VB go to Project->Components then select the RS Multi Database Connection. Add the control to the form and you are now ready to use the program.

or

**(for rsdbControl.dll - WindowLess)**

In VB go to Project->References then select the RS Multi Database Connection. use the line Set SomeVar as RSDatabase in your module and you are now ready to use the program.

## Supported Features

Specific date/time formatting routines for the supported databases. Never worry about if your date is in the correct format. The control handles the formatting.

Can generate three different type log files. Debug, Transaction and SQL trace. Which can help you debug your application. All of which are under user control. Log files are located in a folder named \dblogs\ in your .LogPath folder have the file name format of:

Database Type\_Connection Type\_yyyymmdd.trn (err, trn, dbg or log)

Transaction tracking tracks your begin and end transaction calls (when used with controls begin/end transaction calls). So that un-committed transactions are automatically rolled back (even nested ones). Even if you forget to rollback when closing your program the control will not. Keeps your database from corrupting (especially MS Access databases).

## RSDatabase Control (OCX/DLL) Properties and Functions.

<b>.Active_DB</b>	Property	<p>Indicates what type of database you want to use. Accepted values are found in the dbType property. These values indicate which databases that are supported.</p> <p><b>dbType Values:</b></p> <p>dbType.AccessJet351Database  dbType.AccessJet4Database  dbType.OracleDatabase  dbType.PervasiveDatabase  dbType.SQLServerDatabase  dbType.UDBDatabase  dbType.MySQL  dbtype.DBaseIV</p>
<b>.BeginTrans</b>	Sub	Starts a transaction for the supported database (only if the database supports transactions).
<b>.CheckSupportedDatabase</b>	Sub	Checks to see if the date/time routines for the selected database are supported. Each database may have different formats for date and time. This functions check to see if the dll/ocx supports the conversion to and from the database format. The property <b>SupportedDatabase</b> will set to <b>True</b> if supported and <b>False</b> if not.
<b>.CloseDatabase</b>	Sub	Closes the open database.
<b>.cnTypeName</b>	Property	This property is set by the <b>OpenDatabase</b> function. This give the name of the type of connection opened. The names that will be returned are <b>OleDb</b> , <b>ODBC DSN Less</b> and <b>ODBC</b>
<b>.CommitDatabase</b>	Sub	Commits all data to the database.
<b>.CommitTrans</b>	Sub	Commits all transactions to the database
<b>.CompactDatabase</b>	Function  Returns Boolean	Compacts/Repairs Access Databases Only. Returns Boolean Status of True if Compact was OK.
<b>.ConnStr</b>	Property	Set by the <b>OpenDatabase</b> function. The connection string that is used by the supported database.

<b>.ConnType</b>	Property	Indicates the connection type that is being used. This property is set by the User and the <b>OpenDatabase</b> function which will use this to open the database in that mode if possible. If <b>Auto</b> is selected then the <b>OpenDatabase</b> function will determine the best way to open the database. The values that can be used are <b>Auto</b> , <b>OLEDB</b> , <b>ODBC DSN Less</b> and <b>ODBC</b> .
<b>.dbCurrent</b>	Property	Set by the <b>OpenDatabase</b> function. Use this property to access the database in the normal VB fashion. This is your ADODB connection to your database.
<b>.dbName</b>	Property	Set by the user to indicate the name of the database that is to be opened.
<b>.dbOption</b>	Property	Used only by MySQL database. This contains the Options for the MySQL database.  Ex. 131072     ' 131072 for remote database, 16834 for local database
<b>.dbTypeName</b>	Property	Contains the name of the type of database that was opened. ie <b>ODBC</b> , <b>ACCESSJET351</b> , <b>ACCESSJET4</b> , <b>SQLSERVER</b> , <b>ORACLE</b> , <b>PERVASIVE</b> , <b>UDB</b> , <b>MYSQL</b> and <b>DBASEIV</b> . This is set by the <b>OpenDatabase</b> function.
<b>.Error</b>	Property	Contain error codes set by the dll/ocx when an error occurs.
<b>.ErrorMsg</b>	Property	Error message associated with the error code.
<b>.ExecuteSQL</b>	Sub	Executes a SQL statement that does not return data on the opened database. This function has two parameters <b>SQL Statement</b> , <b>RecordsAffected</b> . RecordsAffected is optional. If it is used, it returns the number of the records that were affected by the executed SQL statement.
<b>.GetDatabaseDate</b>	Function  Returns String	Returns the date given with the date in the format of the supported database.
<b>.GetTableFields</b>	Function  Returns Long	Returns the count of fields in the table in the array filled with all the names of the fields in the table.  Ex. x = . <b>GetTableFields</b> Table Name, strArray.

<b>.GetUserTables</b>	Function  Returns Long	Returns the count of tables in the opened database and an array filled with all the names of the tables in the database.  Ex. x = . <b>GetUserTables</b> strArray
<b>.LogDebug</b>	Property	<b>True or False.</b> Set by user. Indicates if you want the dll/ocx to log debug information to a text file. The log file will be at the location of <b>.LogPath &amp; "\\dblogs\"</b>
<b>.LoggedIn</b>	Property	<b>True or False.</b> Set by <b>OpenDatabase</b> . This indicates if you are logged onto the database you requested opened. This should be checked before attempting to operate on the database.
<b>.LogPath</b>	Property	Set by user to contain the drive and path of where the log files will be kept.
<b>.LogSQL</b>	Property	<b>True or False.</b> Set by user to allow logging of all <b>ExecuteSQL</b> calls to the database
<b>.LogTrans</b>	Property	<b>True or False.</b> Set by user to allow logging of all <b>BeginTrans</b> and <b>EndTrans</b> calls to the database.
<b>.NewParam</b>	Property	<b>Used Internally, Do not change.</b>
<b>.ODBCSystemName</b>	Property	The actual ODBC driver name (if ODBC is selected). This is needed to find the driver on your system.
<b>.OpenDatabase</b>	Sub	Open and logs into the supported database. Attempts to open the database using the property <b>cnTypeName</b> . If the type is set to <b>Auto</b> then the function will determine the best way to open the database and then set <b>cnTypeName</b> to that value. Sets <b>.LoggedIn</b> to the status of the connection.
<b>.Password</b>	Property	Set by user. The password to access the database (if needed). Otherwise this is set to empty ("").
<b>.Port</b>	Property	Set by user. The numeric TCP port address to access the database. Usually used for remote databases (databases on another machine) like MySQL, MS SQL Server etc... Default 3306 for MySQL database.
<b>.RollBackDatabase</b>	Sub	Roll database back to a previous state (if supported by database).
<b>.RollBackTrans</b>	Sub	Roll uncommitted transactions back to the last point before the transaction started.

<b>.ServerName</b>	Property	Set by user. Name of the server where the database resides or path location of the database, depending on the type of database and the connection that you are using.
<b>.ServerSideCursor</b>	Property	<b>True or False.</b> Set by user to indicate if the database will use a server side cursor to get the data. Normally this is true if you are using a remote database, false if using a local database.
<b>.SqlTimeout</b>	Property	Minimum time before we timeout on a SQL query. This should generally be set at 600.
<b>.SupportedDatabase</b>	Property	<b>True or False.</b> Set if the database date / time format is supported. This is set by the <b>CheckSupportedDatabase</b> function.
<b>.SystemName</b>	Property	Name to be given to the system.
<b>.Transactions</b>	Property	<b>True or False.</b> Indicates to use transactions. If set to false, Begin and end transactions will not happen even if they are in your code.
<b>.TransActionsInProgress</b>	Property	Keeps a count of current transactions that are in progress.
<b>.UniCode</b>	Property	<b>True or False.</b> Set by user to indicate if the database supports UniCode characters. <b>Not currently used.</b>
<b>.UserName</b>	Property	Set by user. The user name that is associated with the password to log onto the database if needed.
<b>.WriteDebugData</b>	Sub	Writes a debug statement to the debug log file (dbg) in the .LogPath & "dblogs\". This can also be any VB statement that provides text output.  Ex. <b>WriteDebugData "This is a debug statement"</b>
<b>.WriteLogData</b>	Sub	Writes a statement to the log file (.log) in the .LogPath & "dblogs\" folder. This can also be any VB statement that provides text output.  Ex. <b>WriteLogData "This is a log statement"</b>