



## QDABRA DATABASE ACCELERATOR V2.3

### SQL vs. Windows Authentication

In order for DBXL to install and connect to the SQL Server that hosts the required databases, it is often necessary to alter the security model of that server. For this reason, installing DBXL requires that the user be logged in as a Domain Admin.

Qdabra Database Accelerator v2.3

Log On | **SQL Server** | Document Security | Active Directory Service | Query DB | Samples

Server name: (LOCAL)

Authentication: Windows Authentication (selected)  
Windows Authentication  
SQL Server Authentication

User name:

Password:

Confirm password:

Database: QdabraDBXL

This is the database where DBXL will store all documents.

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#### Choosing SQL Authentication or Windows Authentication.

DBXL may use either Windows Authentication or SQL Server Authentication to connect to the database specified by the installer. The connection string that DBXL uses to connect to the SQL Server is stored in the web.config file of the web service.

In the case of Windows Authentication, this connection string is left unencrypted since it does not contain any login information. To use Windows Authentication, you will need to give the server machine account where DBXL is installed sysadmin access to the SQL instance. You will also need to run ASPNET under a domain account.

If SQL server and DBXL are on separate servers, use SQL Authentication. For SQL Server Authentication the connection string is encrypted to prevent unauthorized users from obtaining the login information. In all cases, the user specified for connecting to the SQL Server is added for the QdabraDBXL and QdabraSamples databases with the db\_owner role.



```
<appSettings>
  <add key="ConnectionString" value="Data Source=(LOCAL)\SQLEXPRESS;Initial Catalog=QdabraDBXL;Integrated Security=True" />
  <add key="EncryptedConnectionString" value="false" />
</appSettings>

<appSettings>
  <add key="ConnectionString" value="kCL9ARZiPLYK4iCSv0aUbcLwhv/Xxe9Cgg4XP0FxfJn0hVKUu5fRu7fONdRkHt5/wBwDedPggDlbdYRRPx1Q" />
  <add key="EncryptedConnectionString" value="true" />
  <add key="DocumentLockDurationInMinutes" value="60" />
  <add key="UseSynchronizationLock" value="false" />
  <add key="SynchronizationLockWaitTimeoutInMilliseconds" value="60" />
</appSettings>
```

An unencrypted and encrypted connection string in web.config.

The default setup for DBXL is to use the NT AUTHORITY\NETWORK SERVICE user to connect a SQL Server hosted on the same computer as DBXL.

In the special case where DBXL uses Windows Authentication to connect to a remote SQL Server, the <Domain>\<Machine>\$ user is added as a db\_owner to the remote SQL Server, where <Machine> is the name of the machine where DBXL is hosted.

|                   | SQL Authentication                                                                                                                | Windows Authentication                                                                                                                                                                |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local SQL Server  | <ul style="list-style-type: none"><li>• Connection string is encrypted</li><li>• SQL and Web Service users are separate</li></ul> | <ul style="list-style-type: none"><li>• Connection string is not encrypted</li><li>• SQL and Web Service users are the same</li></ul>                                                 |
| Remote SQL Server | <ul style="list-style-type: none"><li>• Same as Local SQL Server</li></ul>                                                        | <ul style="list-style-type: none"><li>• Connection string is not encrypted</li><li>• User &lt;Domain&gt;\&lt;Machine&gt;\$ is added to the remote SQL Server as a db_owner.</li></ul> |