How To Use Read Only Access within eXguard™

1) eXguard Read-Only Database User

To allow an external connection to the eXguard database a special kind of database user is created within the eXguard database. This is different to an 'Operator', which is related to the eXguard application. A Database User defines the user name and password someone must use to connect directly to the eXguard database. To stop the eXguard system being damaged by accident this database user can only read data, they cannot create or alter data within the database. To allow some control of the data that a user sees database views are created for each user depending on the configuration for that user with eXguard. This allows the administrator of the eXguard system to configure a database user to only see data for a specific Tenant and not view Private key holder data. In this way a report can be created in an external package such as Crystal and the administrator knows that anyone using that report will not be able to see information they are not authorized to.

To create a Database User, start the eXguard eXplorer and expand the System Folder under the Building. Right-hand click on Database User and select 'New Database User'
The first tab allows the entry of the Name and Password, this is the User Name and Password to be used in connecting to the database.

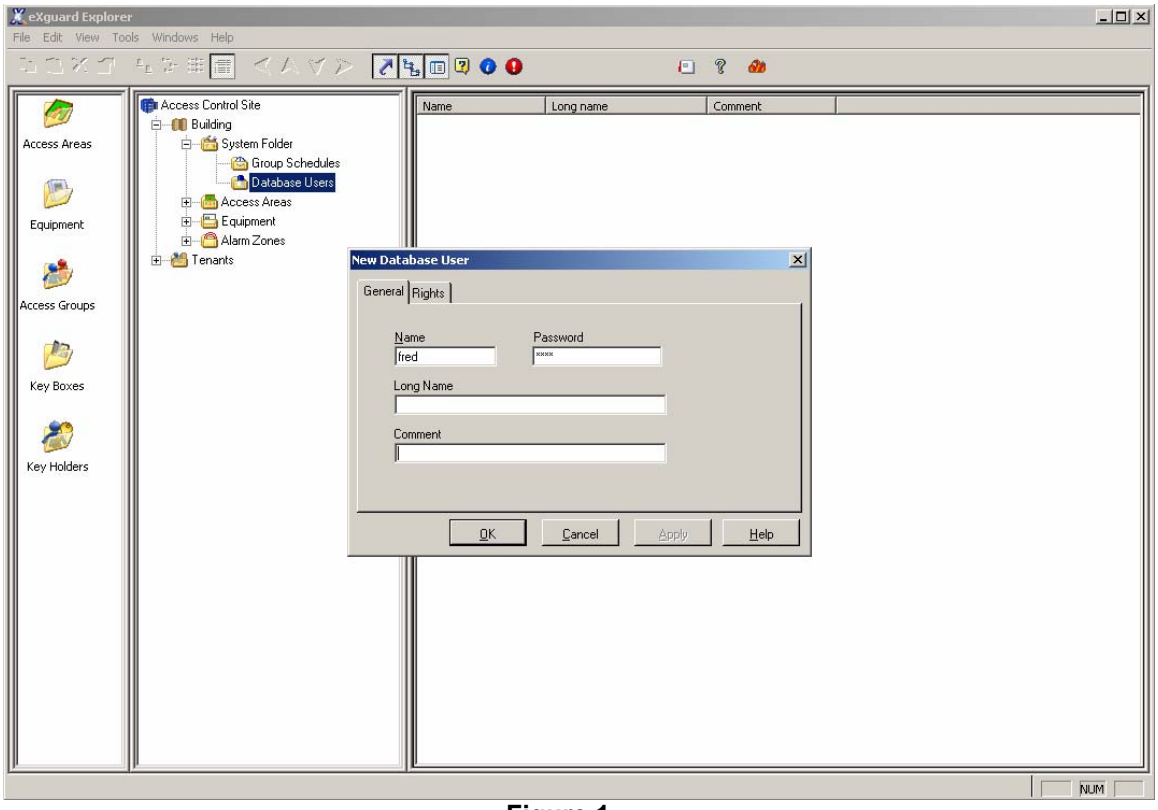

Figure 1

The second tab allows the restriction of the data presented to the User.

User Type how much of the data is visible. A System User sees all data no matter which Tenant it belongs to, the Tenant field is disable as this is not required. A Tenant User can only see information belonging to that Tenant, such as Key Holders and Access Groups. Which Tenant is used is defined in the Tenant field.
Long Name and Comments is for any additional information to help identify this user
View Key Holder Private Data is similar to the eXguard Operator right such that if un-ticked any queries against key holder info fields will only display '********' for fields which are marked as private.
View Key Holder with 16 Info fields is include for backward compatibility for systems that have been designed to user Read-Only access on systems before eXguard 1.3.0. If ticked the key holder information is presented as a single table containing the key holder data, the eight Tenant Info fields and the eight info fields from 'All Key Holders' community, instead of separate tables for key holder data and the community info fields.

Once completed the database user is created and the appropriate database views generated.

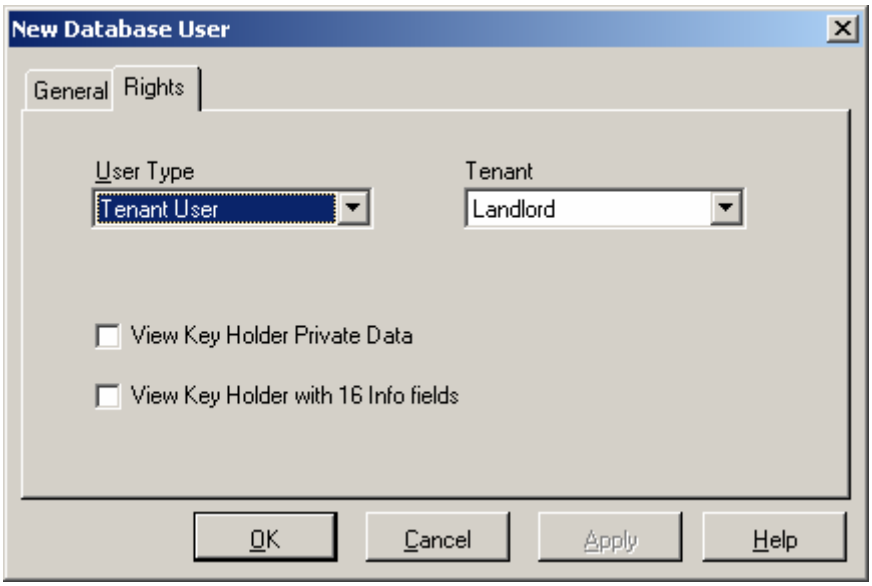

Figure 2

2) Defining eXguard as a Data Source

Once the Database user is created the external system now needs to connect to the eXguard database. OLEDB drivers are automatically installed with eXguard. Also available are ODBC, JDBC and .Net data Providers. If one of these addition data providers is required then they need to be installed from the SQLBase Driver Pack. This can be found on the eXguard CD in \Extras\Software\SQLBase Driver Pack. Before run the Setup.exe program, close down all the eXguard programs including eXls. During installation of the driver pack keep the default installation directory, do not change this to the eXguard directory.
When you get to the feature screen deselect the drivers not required. Note you never need to install OLEDB as this is installed by eXguard.

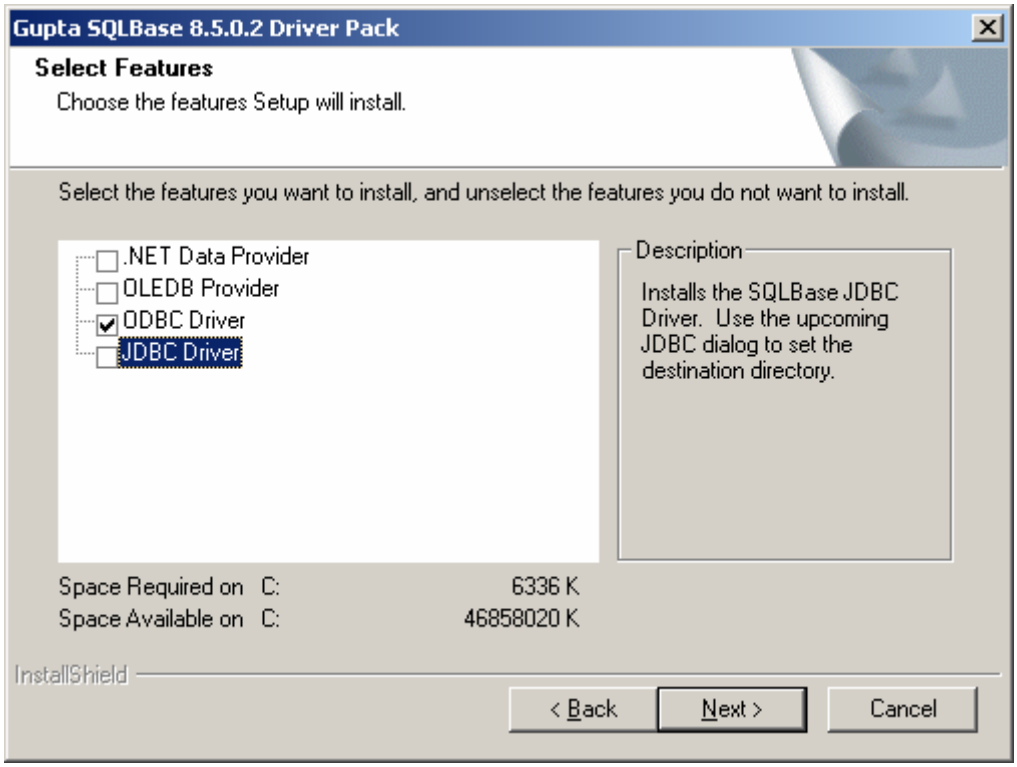

Figure 3

3) Connecting to eXguard (ODBC)

For ODBC a data source needs to be defined within Windows. For Windows 2000 and Windows XP the ODBC Data Source Administrator is in the Control Panel under Administrative Tools.

The data source can either be defined as a User DSN (available only if this particular Window user must be logged in) or a System DSN (available if any Windows user is logged in). The usual is as a System DSN. On the System DSN tab press Add to create a new data source.

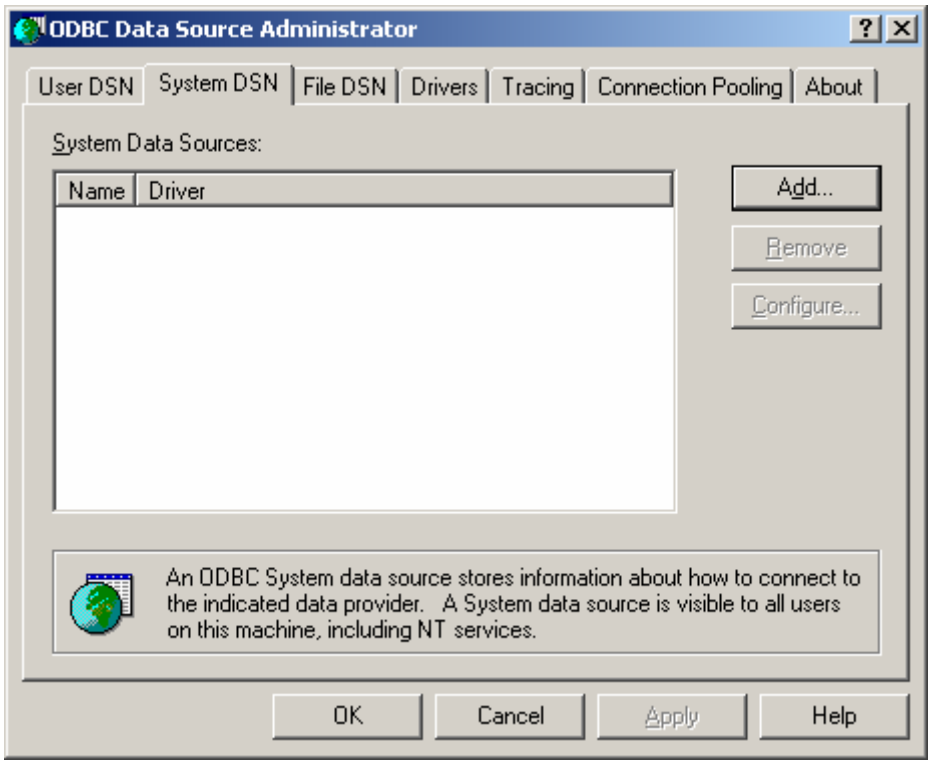

Figure 4

Select Gupta SQLBase as the driver and press Finish

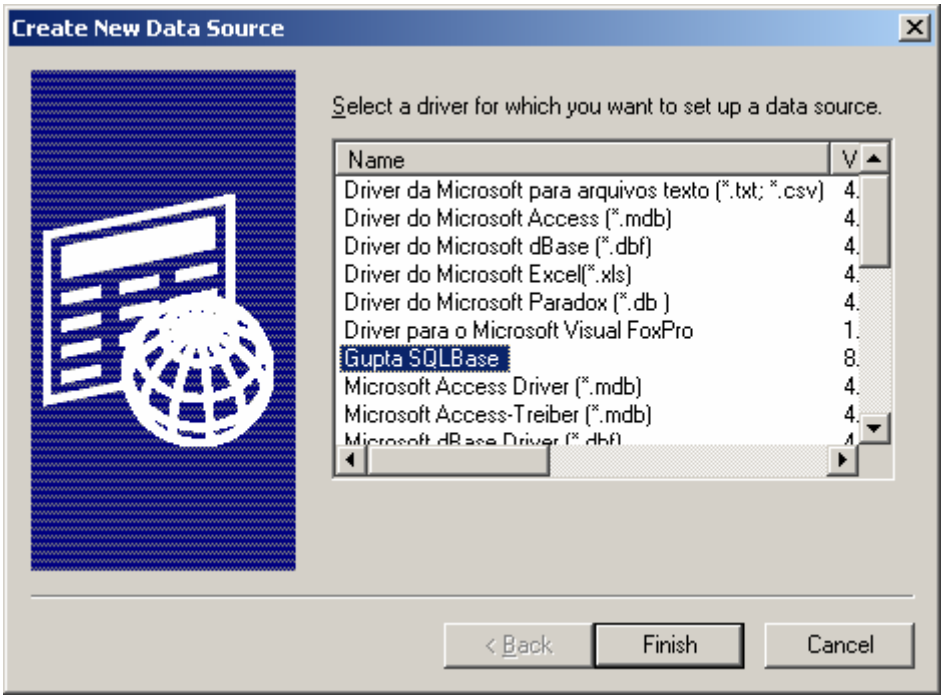

Figure 5

Then enter the details of the data source.
The Data Source Name (DSN) is the name you wish to expose eXguard as, this can be any name you like but ‘eXguard’ easily identifies what the data source is.
The SQLBase Database Name must be ‘UG2000’, the User Name and Password are the Name and Password of the Database User created in eXguard.

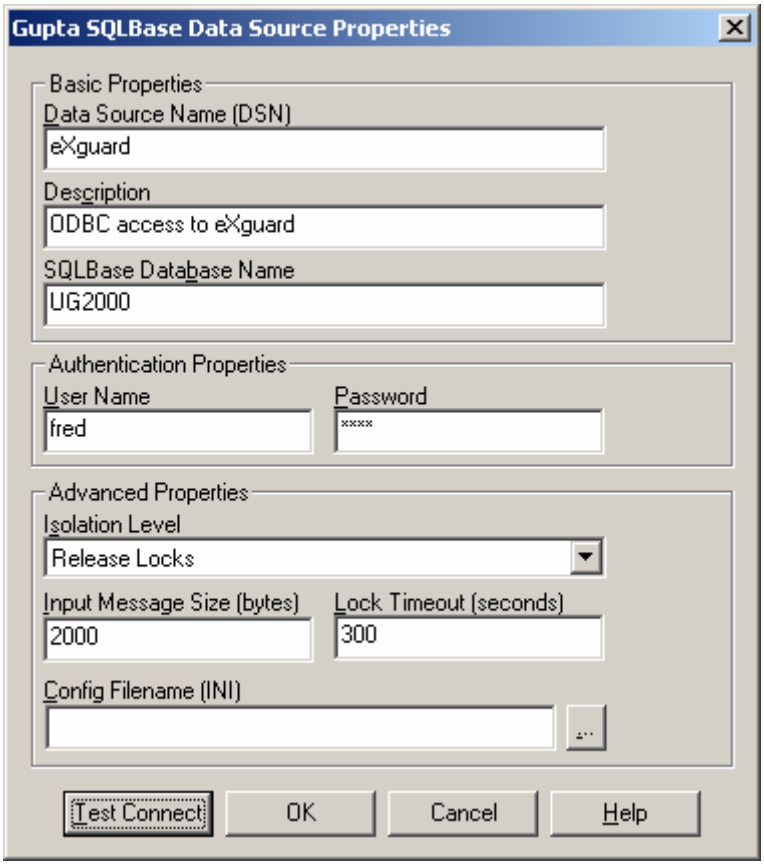

Figure 6

Once completed press the Test Connect button to confirm details are correct. The following is displayed and enter the Server Name 'server1' before pressing OK.

Figure 7

4) Connecting to eXguard (OLE DB)

OLE DB usually works by the definition of a Connection String. The following is the required string for eXguard where **UserName** and **UserPassword** are the Name and password of the eXguard Database User.

"Provider=SQLBASEOLEDB.1;Password=***UserPassword***;Persist Security Info=True;User ID=***UserName***;Data Source=UG2000"

5) Accessing data within eXguard

Once a connection has been establish the eXguard database can be interrogated.
Although the SQLBase 8.5 engine is SQL92 compliant the eXguard database is only SQL89 compliant so this may affect the format and keywords used in your queries.

The document 'eXguard Database Structure.pdf' contains the full schema, list of constants and examples for the eXguard database.