

## OLE File Instructions (Using the Minisoft Schema Editor)

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#### Overview

KSAM and MPE flat files are available in the DSA-E environment for data access using the OLE DB driver. In order to access these files you will need to create a schema of each data file using the Minisoft Schema Editor.

The Minisoft Schema Editor is an optional utility that is included in the Minisoft OLE DB Administrative Tools.

- This utility can be used to create a schema to define the layout for data that is stored in MPE and KSAM files.
- Once a schema has been created, data in the file can be accessed using the Minisoft OLE-DB driver.
- The schema is created on the Windows client and then uploaded to the UNIX server.
- After a schema has been uploaded to the UNIX server, it can be referenced in a SQL Server Linked Server to access data from the files that have been defined in the schema.

#### Downloading the Schema Editor Utility

To download the utility from your OLE DB client system:

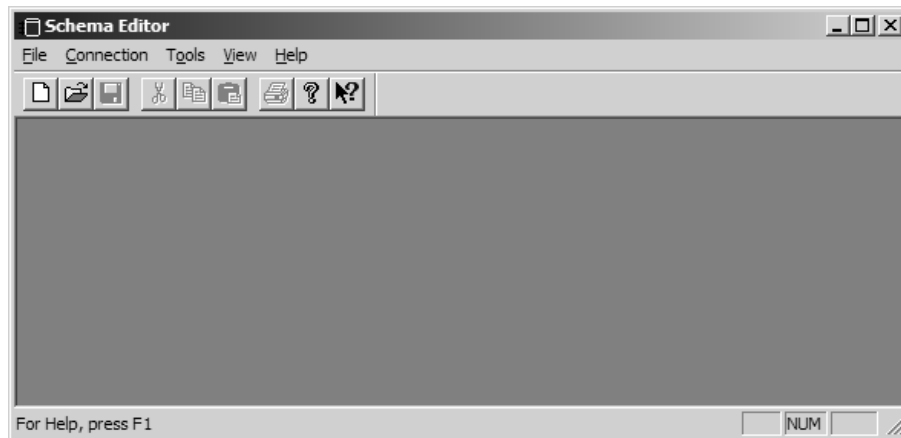
1. Browse to <http://www.minisoft.com/pages/license.asp>
2. On the **Conditions of Use** page, click **I Accept** which will take you to the **Minisoft OLE DB for Eloquence Updates** page

- Under the **OLE DB/ODBC/JDBC Administrative Tools** section **Table 1**, click the **HTTP** link to the right of the **odbc320a.exe**.

OLE DB/ODBC/JDBC Administrative Tools			
Windows (3.2.0)	odbc320a.exe	June 18, 2010	<a href="#">HTTP</a>

**Table 1**

- The installation can be executed and a **Minisoft** folder placed under **Programs** containing a link to the Schema Editor utility and an uninstall option on your server or workstation.
- The Schema Editor is executed by clicking Schema Editor in the Minisoft program group. Its main screen is shown in **Figure 1** below.



**Figure 1**

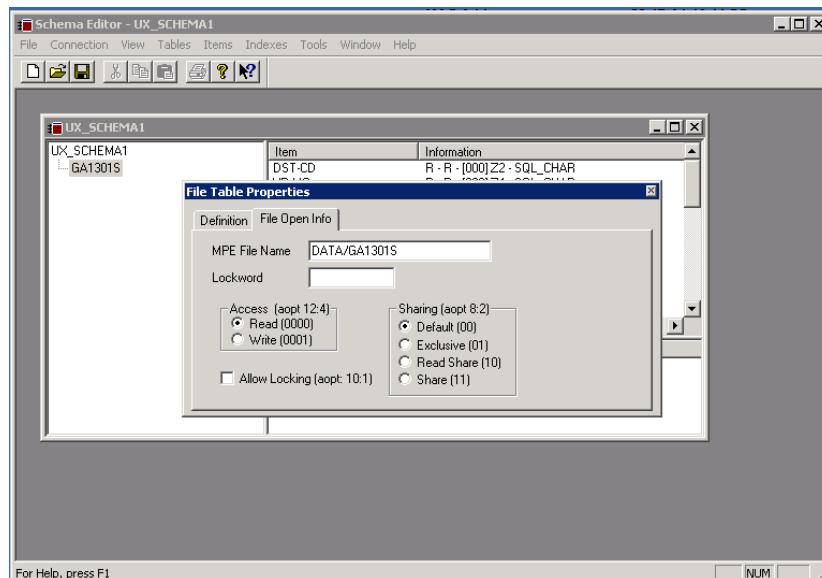
## Creating a New Schema

You can create new schemas by following the instructions provided by Minisoft in their product documentation. For access to the product documentation, browse to: <http://www.minisoft.com/pages/general/manuals/pdf/oledb.pdf> web page.

Follow the instructions provided by Minisoft to create a schema. You can include one or more files in a schema. For a list of the files that are available for OLE access on the UNIX platform, browse to the [KSAM and MPE Flat Files](#) web page.

When creating a schema and entering the details in the File Open Info tab within the File Table Properties window **Figure 2** please note the following.

1. Include details in the MPE File Name (or KSAM File Name) that references the location for the file on UNIX server.
2. In the UNIX environment, the pattern for this information is: group, forward slash (/), file name. For example, the MPE file that was GA1301S.DATA on the HP3000 will be DATA/GA1301S on UNIX.
3. Note that the input for the other variables on this screen should be kept to their default values, Lockword as blank, the radio buttons for Access set to Read and Sharing set to Default and the checkbox blank for Allow Locking.

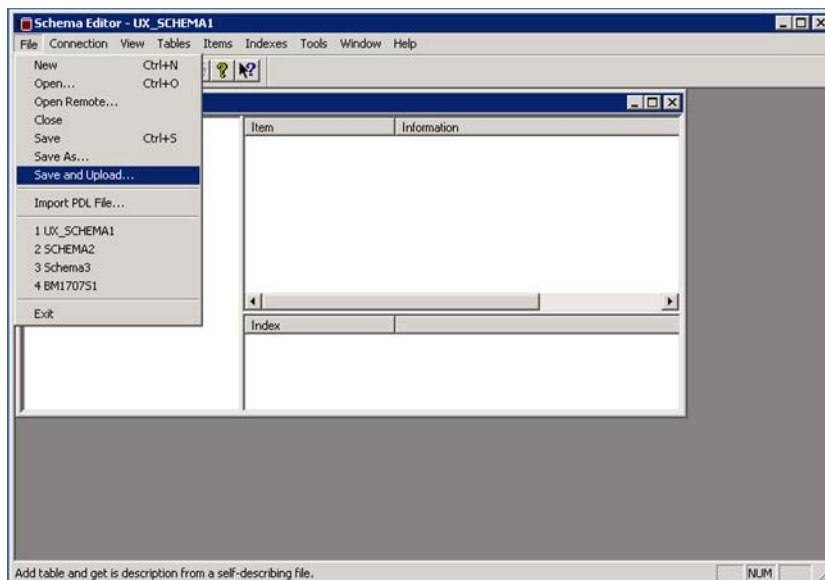


**Figure 2**

## Saving and Uploading a Schema

To complete the process, the schema is uploaded to the UNIX server using the Schema Editor utility. This utility is used to save the schema to your Client Windows server and then upload the file to the UNIX server. Proceed as follows: UNIX

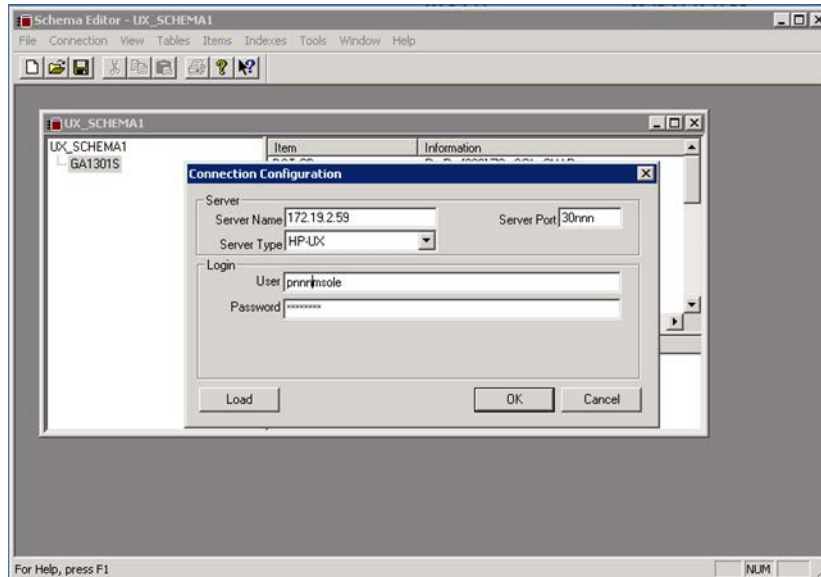
1. From the File menu in **Figure 3**, select **Save and Upload**



**Figure 3**

2. If this is a new schema, you will be prompted to provide a name and file location to save the schema on your Windows Server. Enter any name and location.

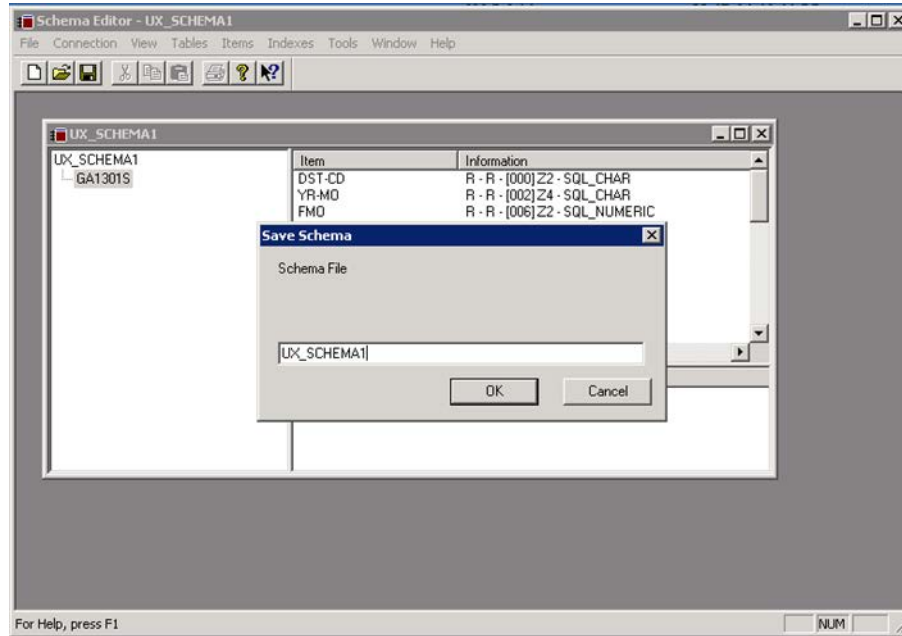
3. After you completed Step 2 the **Connection Credentials** window will pop up, **Figure 4**.



**Figure 4**

4. In this window you will provide the details needed to upload your schema to the UNIX server:
  - a. In the **Server Name** field, type the **IP Address** of the HP/UX server.
  - b. In the **Server Port** field, type the **port number** for your college that was provided to you by the SBCTC.
  - c. In the **Server Type** field, select **HP-UX** from the dropdown list.
  - d. In the Login section, type the **UNIX account user** and **password** information that was provided to you by the SBCTC.
  - e. When completed, click the **OK** button

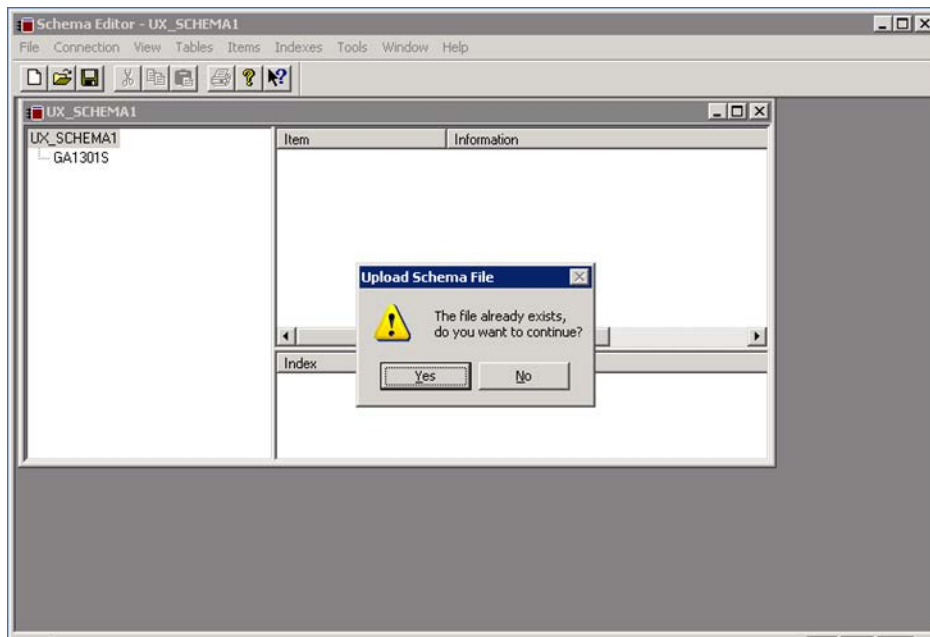
- Next, the Save Schema window will pop up **Figure 5**.



**Figure 5**

- In this window, enter the name that the Schema file will be called on the UNIX server.
  - This can be any name you want. Note that this name will be the name that you will use when referencing this schema in a SQL Server Linked Server.
  - When completed, click the OK button and the file will be uploaded to the UNIX server.

7. If a schema file using the same name already exists in your UNIX account, you will be asked to verify that you want to overwrite the existing file shown in **Figure 6**. Select the appropriate response.



**Figure 6**

8. If you select **Yes**, the schema file will be uploaded to the server and replace the schema file that was there.
9. **Interim Step.** After the schema file has been successfully uploaded to the UNIX server, contact the SBCTC-ITD Customer Support for assistance. The current version of the Minisoft OLE driver calculates the *Record Size* property in the uploaded XML file and the value calculated is incorrect – it is missing the additional byte that the UNIX environment adds to Flat Files. The SBCTC-ITD will correct this value.

## Modifying an Existing Schema That Was Created for the HP3000

Schemas that were created for the HP3000 system can be used in the UNIX environment by making a few modifications. Once completed, they can be uploaded to the UNIX server, using the **Schema Editor** utility:

1. Open an existing Schema in the Schema Editor.
2. Optional step. Select **Save As** to save this schema on your Windows Server using a new name so you do not lose the details in your original schema. You can rename a schema to any name.
3. For each file defined in a schema, right click on the file name and select **Properties**, **Figure 7**.

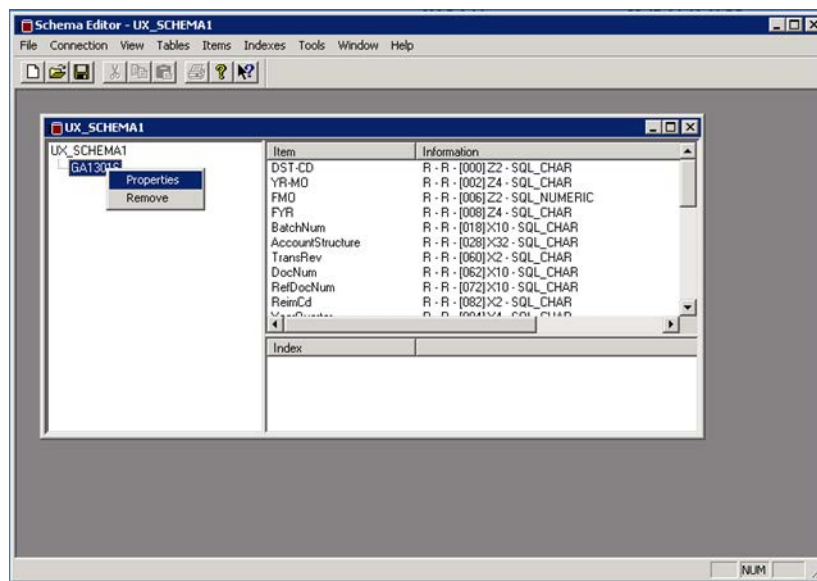
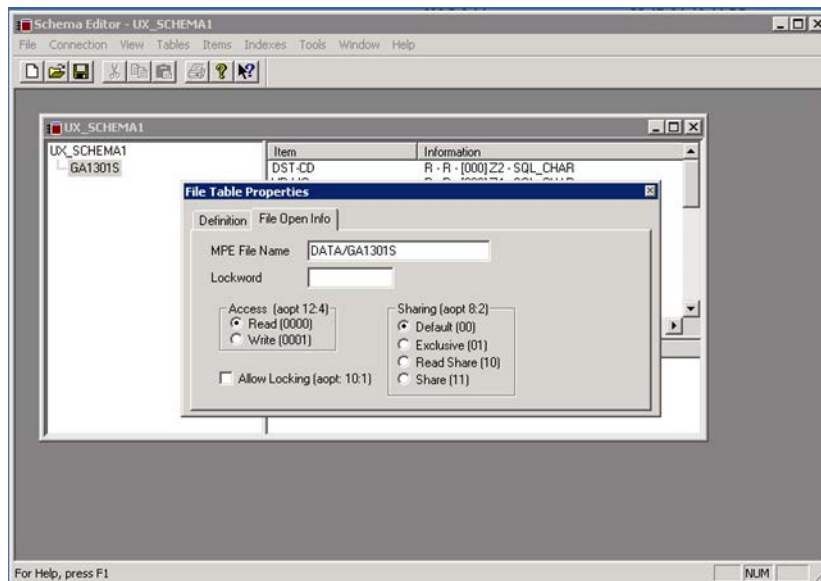


Figure 7



4. The **File Table Properties** dialog box will pop up. It defaults to the **Definition** tab. No changes are needed on this tab.
5. In the **File Table Properties** dialog box, select the **File Open Info** tab, **Figure 8**.



**Figure 8**

6. Update the details in the **MPE File Name** (or KSAM File Name).
  - a. When opened, it will contain the details for the location that the file was stored on the HP3000 such as GA1301S.DATA.
  - b. The value will need to be updated to use the value for the file location on the UNIX server. The pattern on UNIX is: *group, forward slash (/), file name*.
  - c. An example using the MPE file that was GA1301S.DATA on the HP3000 will be **DATA/GA1301S** on UNIX.
  - d. The input for the other variables should be kept to their default values, **Lockword** as blank, the radio buttons for **Access** set to **Read** and **Sharing** set to **Default** and the checkbox blank for **Allow Locking**.
7. Close the File Table Properties dialog box by selecting the “X” in the top right corner.
8. No changes are needed for the **Items** or **Information** details for the file that are located to the right in the Schema Editor.
9. After these changes are complete, you can save and upload the modified schema to the UNIX server by following the **Saving and Uploading a Schema** steps that are listed above.

## Accessing KSAM or MPE Files Using SQL Server Linked Servers

After a schema has been uploaded to the UNIX server, data in KSAM or MPE files can be accessed in SQL in a similar way to data in a table using a SQL Server Linked Server.

1. When creating the linked server, follow the instructions in the [DSA-E Linked Server Connection String Generator](#) document that can be found on this site.
2. The only change needed is to modify the details for the variable **@provstr**.
  - a. This variable will use the Schema tag and the name of the schema you uploaded to the UNIX server instead of using the Image Database tag and Image database name.
  - b. An example of the difference between using database and a schema tag is shown below.

### Example Using a Database

```
@provstr=N' ServerPort=30nnn; ServerType=1; User=pnnnmsole;  
Password=MixedCasePassword; ImageDatabase0=SM, , 0, 5, 0'
```

### Example Using a Schema

```
@provstr=N' ServerPort=30nnn; ServerType=1; User=pnnnmsole;  
Password=MixedCasePassword; Schema0=UX_SCHEMA1'
```

## Document References

Minisoft OLE DB Installation Manual	<a href="http://www.minisoft.com/pages/general/manuals/pdf/oledb.pdf">http://www.minisoft.com/pages/general/manuals/pdf/oledb.pdf</a>
Minisoft Licensing and Eloquence Updates	<a href="http://www.minisoft.com/pages/license.asp">http://www.minisoft.com/pages/license.asp</a> <a href="http://www.minisoft.com/pages/middleware/ole_db/pages/oledb_updates.asp">http://www.minisoft.com/pages/middleware/ole_db/pages/oledb_updates.asp</a>
SBCTC DSA-E KSAM and MPE Files	<a href="#">KSAM and MPE Flat Files</a> web page
SBCTC DSA-E Minisoft OLE DB Linked Server Connection String Generator	<a href="#">DSA-E Linked Server Connection String Generator</a> document