Query Database installation instructions

General installation instructions

To install:

1. Download IdlDbInterface.zip (click on the appropriate download link on Query Database),
2. Unzip IdlDbInterface.zip
3. Add the idldb.jar to the IDL CLASSPATH (see below)
4. Add the IDL functions and procedures (".pro" files) to the IDL path (see below)
5. It may be necessary to set the IPv4 preference (see below)

Unzipping the IdlDbInterface.zip file will create a directory called IdlDbInterface, which contains the idldb.jar file and three subdirectories: docs, idl, and javadoc. The idl subdirectory contains the IDL functions and procedures, the".pro" files, that need to be added to the IDL path.

Steps 3 and 4 from above can be accomplished by the use of an IDL startup batch file. Arbitrarily naming this file as idlstartup.pro, it should contain the following lines:

Linux / Unix / Mac

```
!path = Expand_Path('+<path>/IdlDbInterface/idl') + ':' + !PATH
setenv, 'CLASSPATH=<path>/IdlDbInterface/idldb.jar:'+getenv('CLASSPATH')
```

Windows

```
!path = Expand_Path('+<path>\IdlDbInterface\idl') + ':' + \!PATH
setenv, 'CLASSPATH=<path>\IdlDbInterface/idldb.jar:'+getenv('CLASSPATH')
```

Note that once the IDL-Java bridge has been loaded, IDL will use the value of the CLASSPATH variable at that point in time, even if its value is reset during the IDL session.

Also, the system environmental variable IDL_STARTUP needs to be set. In the IDL workbench, the startup file can be specified in the preferences.

For IDL 8.2, select Preferences->IDL and enter the name of the Startup file under directories.

For both the IDL workbench and command line version, the following should work:

Linux / Unix / Mac

.cshrc is the initialization file in the user's home directory for the **C shell**. The **C shell** command is

```
setenv IDL_STARTUP <path>/idlstartup
```

.bashrc is the initialization file for the **Bash shell**. The **Bash shell** command is

```
export IDL_STARTUP=<path>/idlstartup
```

Windows

(to be added)

Optional configuration of the .idljavabrc file

If IDL has been correctly installed, the following steps will be probably be unnecessary for all users except those with very specialized needs, who may wish to customize their installations in other ways as well.

The fifth step requires the use of the .idljavabrc file (idljavabrc in Windows) for the IDL command line and the idlde.ini file for the IDL Workbench. This step passes a property value to the JVM (Java Virtual Machine), and, by default, the .idljavabrc and idlde.ini files are in the IDL installation directory, which varies by operating system. The steps required are as follows.

Recommend that the .idljavabrc be copied to prevent loss of the file when the IDL version is updated.

1. Copy the .idljavabrc file to the desired location
2. Add the following line to the copied file after the "JVM start options". Note that Option1 in the following example might be Option2 or Option3 etc. depending upon the number of existing options.

```
JVM Option1 = \-Djava.net.preferIPv4Stack=true
```

3. In the idlstartup.pro file, add the following line where <path> is the path to the copied file.

Linux / Unix / Mac

```
SETENV, 'IDLJAVAB_CONFIG=<path>/.idljavabrc'
```

Windows

```
SETENV, 'IDLJAVAB_CONFIG=<path>\.idljavabrc'
```

A copy of the idlde.ini file cannot be used; therefore, after modification, a backup copy of idlde.ini should be made to preserve values whenever the IDL version is updated.

Also, modifying the idlde.ini file might require admin access; if so, contact IT to modify the file or have them grant you access to the file.

It may be necessary to add the following line to the idlde.ini file after "-vmargs":

```
\-Djava.net.preferIPv4Stack=true
```