



GENESIS32 - Using the New Unified Data Browser

APPLICATIONS NOTE

August 2004



Description: Guide to using the new Unified Data Browser module, the modules it is accessed from, as well as its features.

OS Requirement: Win 2000/XP/2003/NT.

General Requirement: GENESIS32 v8.0 installed on the machine.

Calling the Unified Data Browser

1. To view the new **Unified Data Browser** (Tag Browser), go to **Start → Programs → ICONICS GENESIS32 → Tools → Tag Browser**.

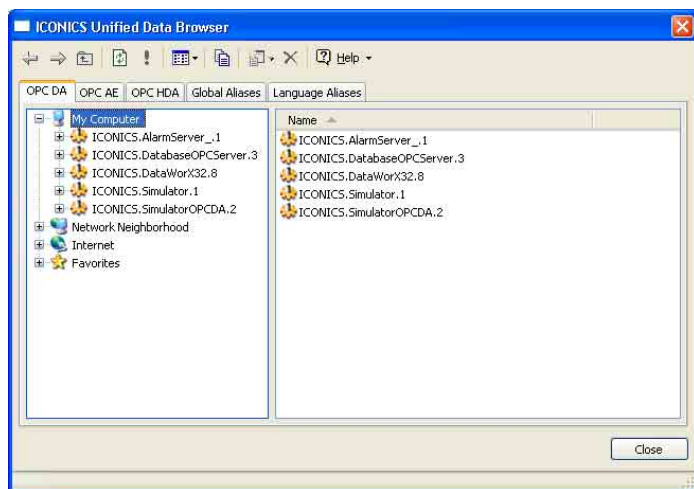


Figure 1

2. As you can see in **Figure 1**, there are many tabs shown. Each tab corresponds to a particular type of data.
3. The **OPC DA** tab shows all the available OPC servers for the selected node. You can click on **Network Neighborhood** to view remote OPC Servers.
4. The **OPC AE** tab will list all the available Alarm & Event Servers present on the selected machine.
5. **OPC HDA** will list all the available HDA servers present on the selected machine.
6. **Global Aliases** will list all the Global Aliases configured on the currently active Global Aliasing Configuration
7. **Language Aliases** will show all the Language Aliases configured on the currently active configuration.
8. The tabs available will differ depending on from where you call the Unified Data Browser. For example if you call the Unified Data Browser from a **GraphWorX32 Process Point**, it will list the tabs shown in **Figure 2**. These are the only types of data supported by the process point.

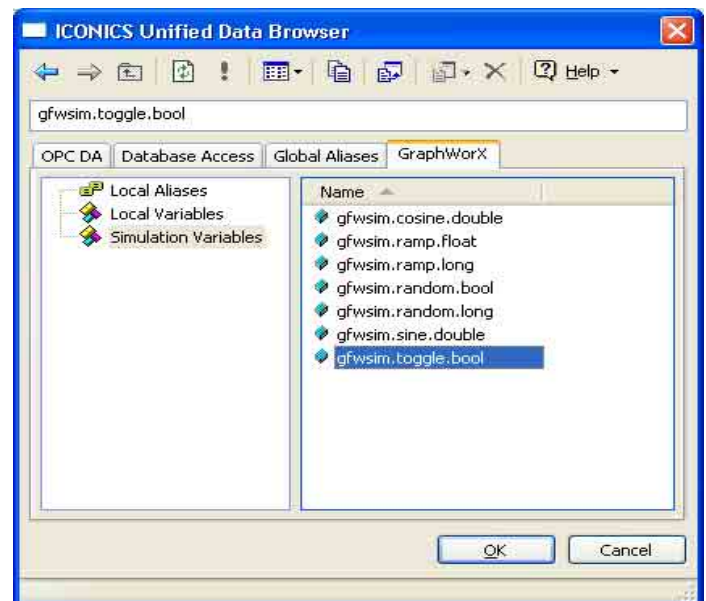


Figure 2

9. In **Figure 2** you can see all the available **Local Variables**, **Local Aliases** and **Simulation Variables** from the Unified Data Browser.

Features

1. The **Database Access** tab, will allow you connect to an existing database connection (Data Mining). You can view the database tags as shown in **Figure 3**. You can also create a new database connection from the Unified Data Browser by clicking on the **Wizard** button.

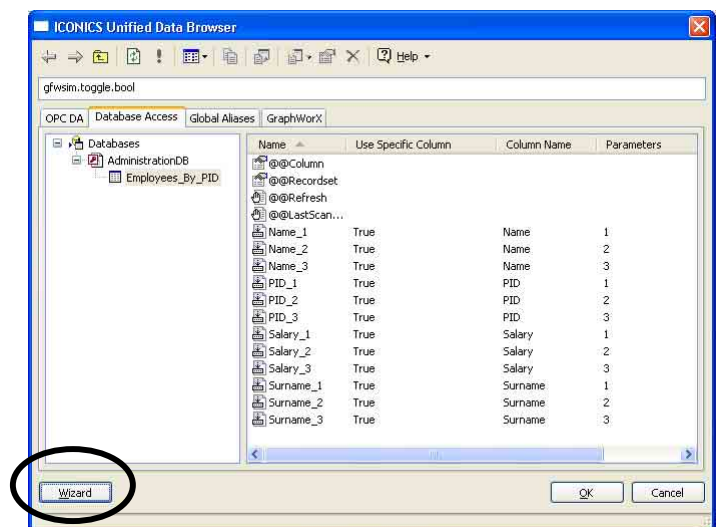


Figure 3

2. To select **multiple tags** (for example in a TrendWorX32 Viewer) you can select a set of tags, right-click, and choose



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Enter Up. You can also click on the icon shown in **Figure 4** when selecting multiple tags. The set of tags will be added as shown in **Figure 4**.

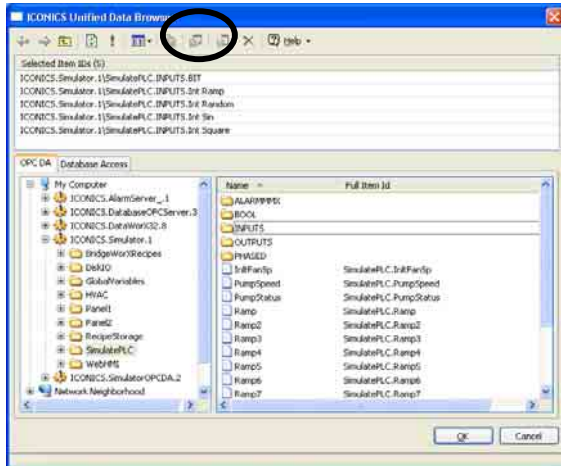


Figure 4

3. If you call Unified Data Browser from **DataWorX32** to add a **Register**, all the existing registers are listed as shown in **Figure 5**.

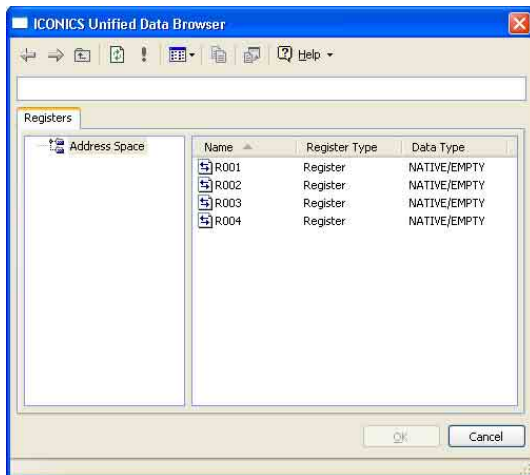


Figure 5

4. To view **all the computers** present on the LAN, you can view or select them through the new Unified Data Browser, as shown in **Figure 6**.

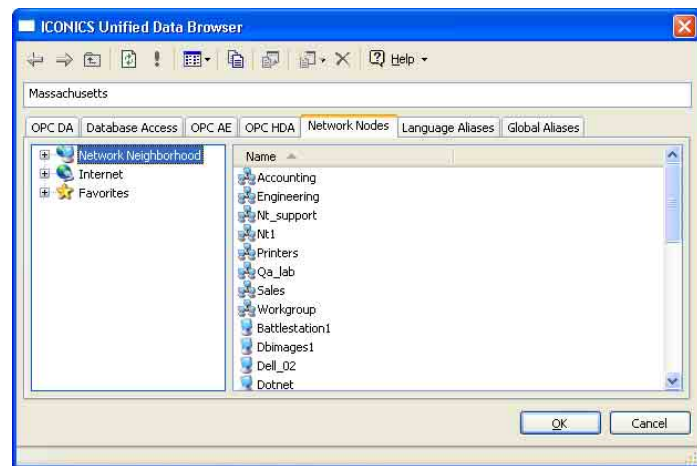


Figure 6

5. You can add frequently used OPC Servers or Nodes to **Favorites**. This allows for faster browsing via Favorites to add tags that are used on a regular basis.
6. You can browse for the **Areas** or **Sources** configured in your **Alarm Server Configurator** using the Unified Data Browser as well, as shown in **Figure 7**.

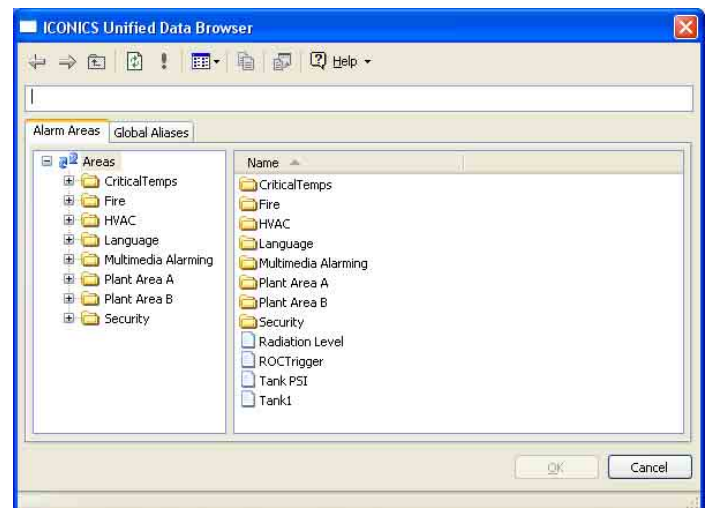


Figure 7

7. GENESIS32 version 8.0 contains a new module: **DBOPC Server**. This module allows for database **data mining** in order view the data as tags, arrays, and two-dimensional arrays. After connecting to the database, the Unified Data Browser gives you access to the **list of tables** present in the database, the **list of columns** present in a selected table, the **list of stored procedures** associated with a particular database. **Figures 8-10** illustrates this functionality.



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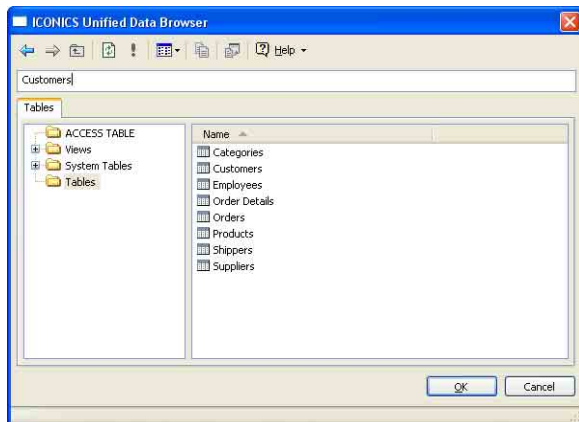


Figure 8

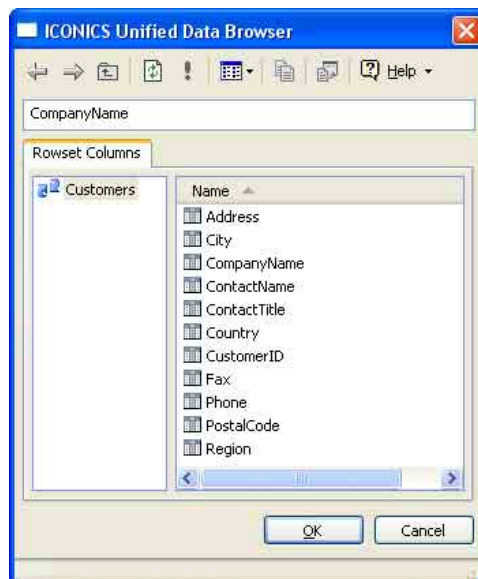


Figure 9

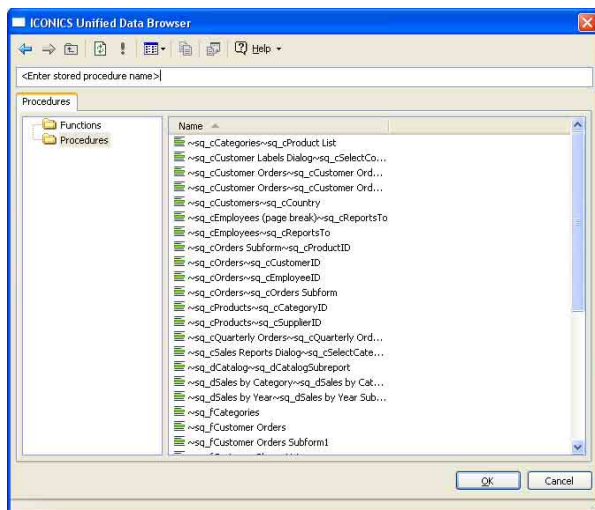


Figure 10

8. Finally we can view the **GenStatistics** in the Unified Data Browser. Put GraphWorX32 in runtime, and select **View → Data Statistics** to see the Unified Data Browser open with all the GenStatistics information, as shown in **Figure 11** and **Figure 12**. You can save this information and view them later by clicking on the **Save Button**. For more information on GenStatistics, see the applications note titled **GenBroker – Statistics Monitor**.

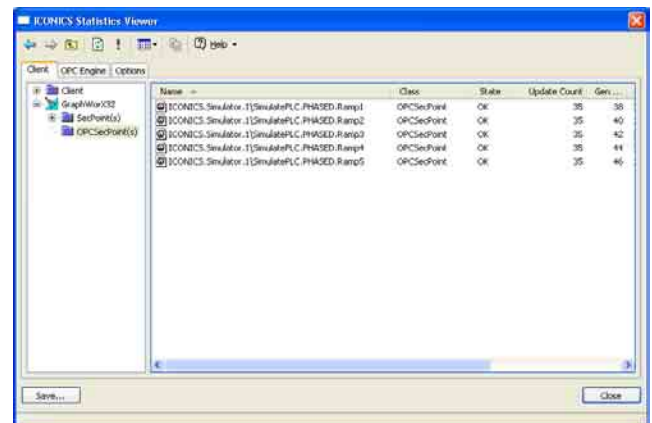


Figure 11

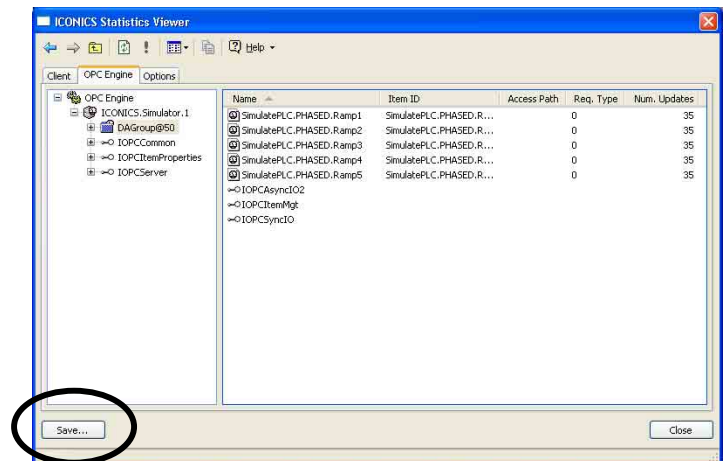


Figure 12