

Using the *KEPDirect* OPC Quick Client

In This Appendix. . . .

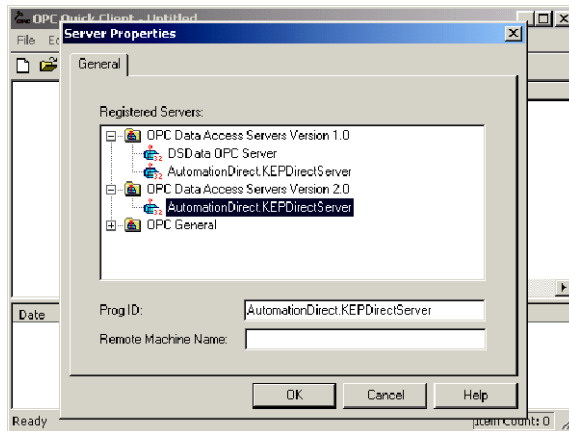
- Creating a *KEPDirect* Quick Client Project
- Using the RJ12 Serial Port in ASCII Mode

Creating a *KEPDirect* Quick Client Project

Connecting the Client to the OPC Server

KEPDirect Quick Client can be used to assist in the test and development of KEPware's OPC Data Access 1.0 and 2.0 Servers.

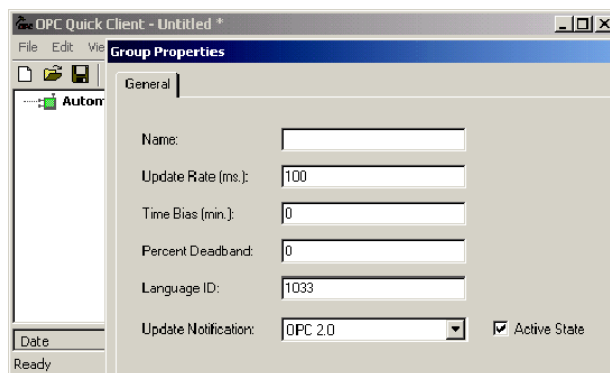
A server connection provides a link between the Quick Client and the *KEPDirect* OPC server. To add a server connection to the Quick Client, you can use the Edit menu>New Server Connection or click on the New Server icon in the toolbar menu.



Specify the Prog ID of the OPC Server the client should connect to. You can browse for registered servers by expanding any of the branches. Double-clicking on any registered server will automatically update the Prog ID field. For more information on the registered servers, click on the "Help" button to display the "Server Connection" section of the on-line help file. Once a connection to the OPC server has been established, additional "Server Operations" can be accessed by right clicking on the highlighted server in the right window column or by using the Tools menu>Server selection.

Creating a Client Group

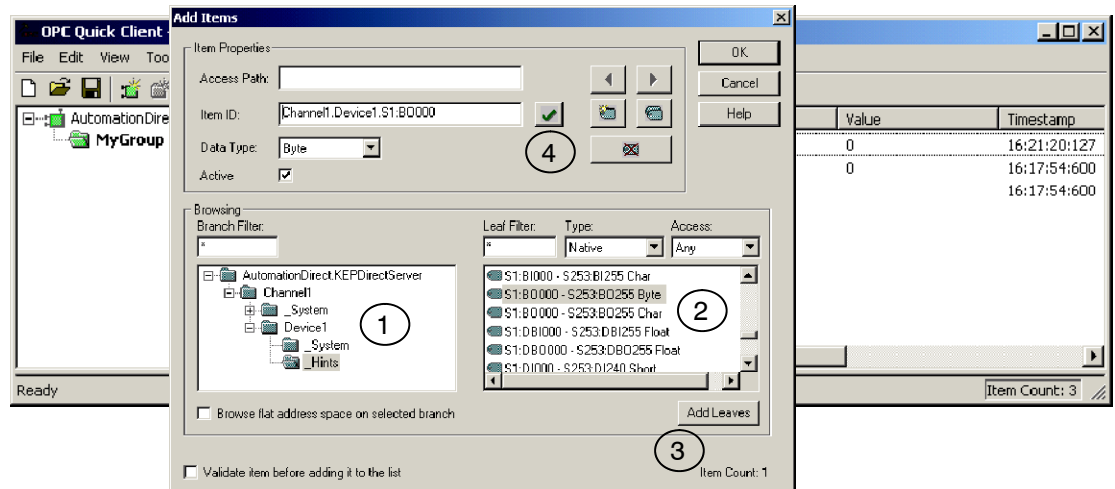
A group is used to organize a collection of items with a common set of properties. To add a Group to the Quick Client, you can use the Edit menu>New Group or click on the New Group icon in the toolbar menu.



The group specifies the following properties: group name, update rate, time bias, percent deadband, language ID, active state, and the type of data connection that should be made to the server. For detailed information on the group properties, click on the "Help" button to display the "Group" section of the on-line help file. Once a Group has been created, additional "Group Operations" can be accessed by right clicking on the highlighted branch Group or by using the Tools menu>Group selection.

Selecting a Group Item

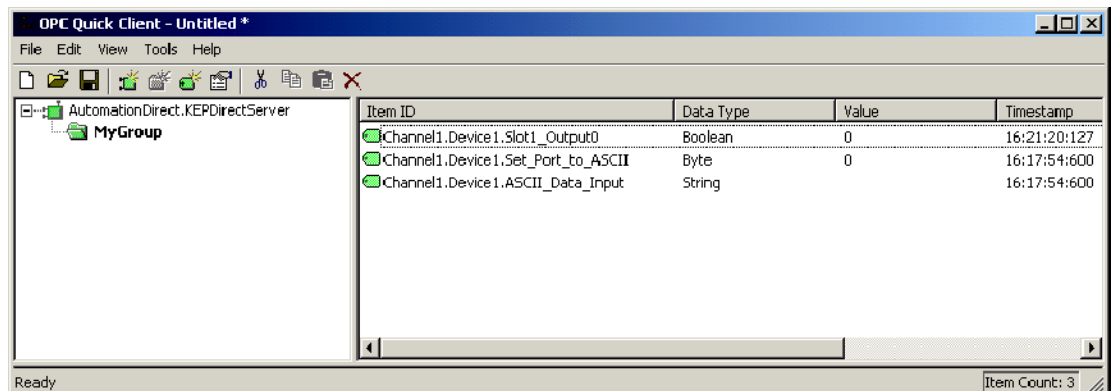
Items represent data that may be accessed via the OPC server. An item specifies the following properties: item ID, access path, requested data type and active state. For detailed information these properties, click on the Help button to display the “Item” section of the on-line help file. To add an Item to the Quick Client Group, you can use the Edit menu>New Item or click on the New Item icon in the toolbar menu.



If the OPC Server was configured to automatically generate OPC tags, the generated tags would be browsable from the OPC client. If automatic tag generation was not selected, create an item by:

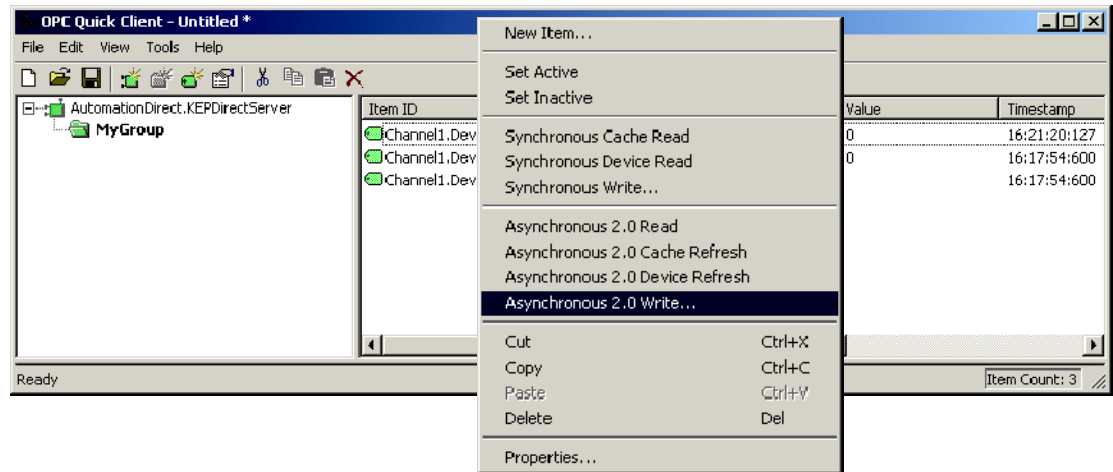
- 1) browsing the OPC Server branch tags
- 2) highlighting the desired tag in the right column
- 3) clicking on the “Add Leaves” button
- 4) clicking on the “Green Check Mark” button to validate the item
- 5) and clicking on the “OK” button.

After clicking on the “OK” button, the following window will be display the created items.

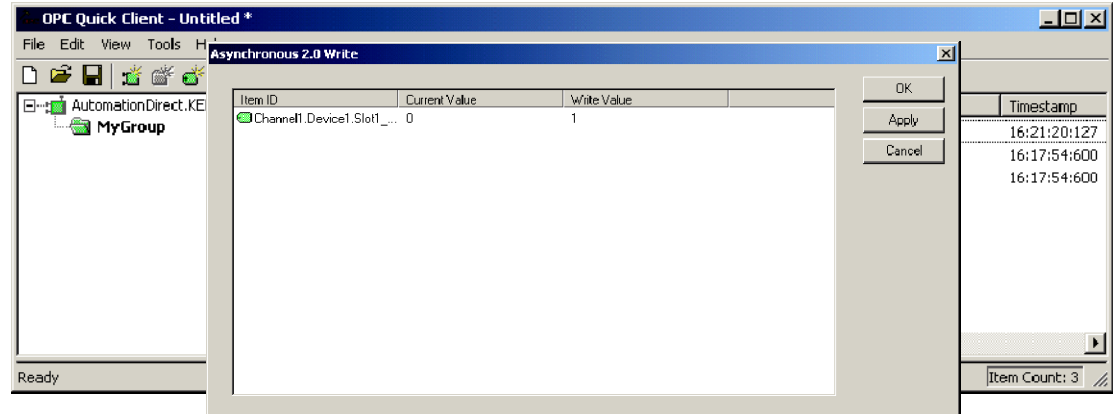


Item Operations

Item operations can be accessed by right clicking on the desired item or by using the Tools menu>Group selection.



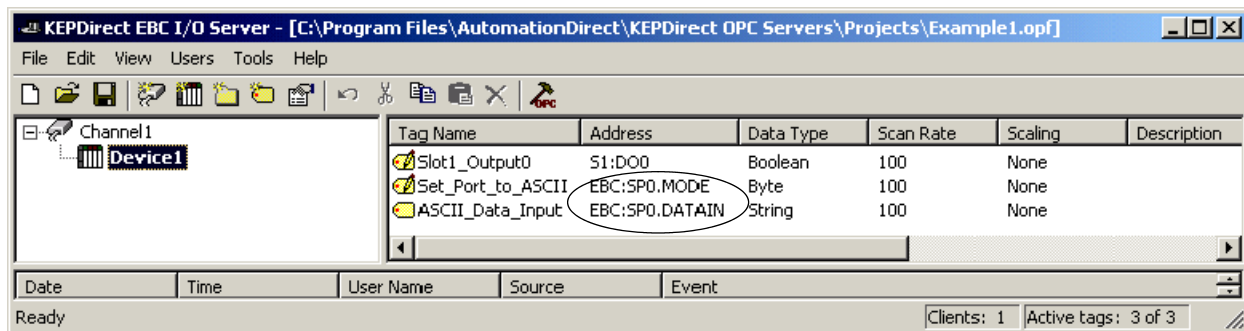
After clicking on the desired item operation, a window similar to the following will be displayed. In this example, a logical “1” (Boolean data type) is being written to a discrete output to turn it on. The item operations can be used to read discrete/analog inputs and write to discrete/analog outputs, etc.



The following tags were created in the *KEPDirect* OPC server for this example.

EBC:SP0.MODE

EBC:SP0.DATAIN



The tags created above were browsed and selected as items within the Quick Client as shown below. The EBC.SP0.MODE address must be set to a value of 1 to select the ASCII communications mode. The ASCII string “ASCII String Input Test Successful” was entered via the RJ12 serial port. The ASCII Sting displays in the “ASCII Data Input “ Item ID’s Value column.

