



Kepware Technologies

Connecting Citect to KEPServerEX via OPC

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1. Overview

This document intends to discuss the basic steps for connecting Citect to KEPServerEX via OPC.

2. Connecting Citect to KEPServerEX

2.1 Creating a New I/O Server or Device

1. To start, open **KEPServerEX**. Then, click **File | Open** and then select the "simdemo.opf" file.
2. From the **Citect** folder, start the **Citect Explorer**. Then, click **File | New Project**. Specify a name, and then click **OK**.
3. In the **Project Editor**, open the **Communication** menu. Then, select **Express Wizard** and click **Next**.
4. If **Create a new I/O server** is selected, leave the name at its default setting "Ioserver". Then, click **Next**.
5. If **Create a new I/O device** is selected, leave the name at its default setting "Iodev". Then, click **Next**.
6. Specify the I/O device as **External**. Then, click **Next**.
7. In the driver list, click the + symbol next to **OPC Foundation**. Then, click the + symbol to the left of **OPC Servers**.
8. Locate and select **OPC**, and then click **Next**.
9. The Address or App_ID field equates to the Prog_ID. In this field, enter "KEPware.KEPServerEX.V4". This ID is case sensitive.
10. Click **Next**. Do not select the option to link to an external tag database.
11. Click **Next**. Then, select **Finish**.

2.2 Creating a Variable Tag

1. Return to the **Citect Project Editor**.
2. Next, open the **Tags** menu and select **Variable Tags**. Then, do the following:
 - Specify a tag name. For this example, use "Bool_1".
 - Specify a data type. For this example, select "Digital".
 - In **I/O Device Name**, select the device that was created with the Express Wizard. In this example, select "IODev".
 - In the **Address** field, enter "Channel_1.Device_1.Bool_1".
 - Leave the rest of the parameters blank, and then click **Add**.
3. Next, click **File | Compile**.

2.3 Creating a New Page

1. Click **Tools | Graphics Builder**. Then, do the following:
 - Click **File | New**. Then, select **Page**. In the template window, select **Normal** and then click **OK**.
 - In the toolbox, click the **Button** icon. Then, draw a button.
 - Next, edit the button. Open the **Input** tab, and then enter "toggle(Bool_1)". Then, click **OK**.
 - In the toolbox, click the **Symbol Set** icon (which resembles a fan) and place it next to the button.
 - Next, open the **Appearance** tab, and then enter the tag name "Bool_1". Alternatively, click the **Insert** icon and then insert a tag.
 - Once finished, click **OK**.

2. Next, return to the **Graphics Builder**. Then, click **File | Compile**.
3. Click **File | Save**.

2.4 Viewing the Connection

1. Next, click **File | Run**.
2. Toggle the button: the indicator should change. 1 client and 1 tag should be visible on the KEPServerEX Connection Status Bar in the server window.