Communication virtual gateway via FTOptix



**What is this for?**

This application is useful for intercommunication of different processors using FTOptix as Gateway.

**General characteristics**

With this application we can communicate two or more processors that are in different communication protocols or networks of different segments or VLANs.

**Advantages**

* No additional hardware required
* Cost reduction
* Ease of implementation
* Impact on development time
* Operational efficiency
* Flexibility

**Is it useful for me?**

This application can be used on machines or production lines with different types of controllers that require data exchange.

**How can I make it work?**

**Hardware**

FTOptix Runtime / FTOptix Panel

PLCs compatible with FTOptix

**Software**

FTOptix Runtime / FTOptix Panel

Programming software for PLCs that you want to intercommunicate

Studio 5000

**Previous knowledge:**

FTOptix Studio

Programming PLCs that you want to intercommunicate

Studio 5000

**Implementation Guide**

**Step 1**

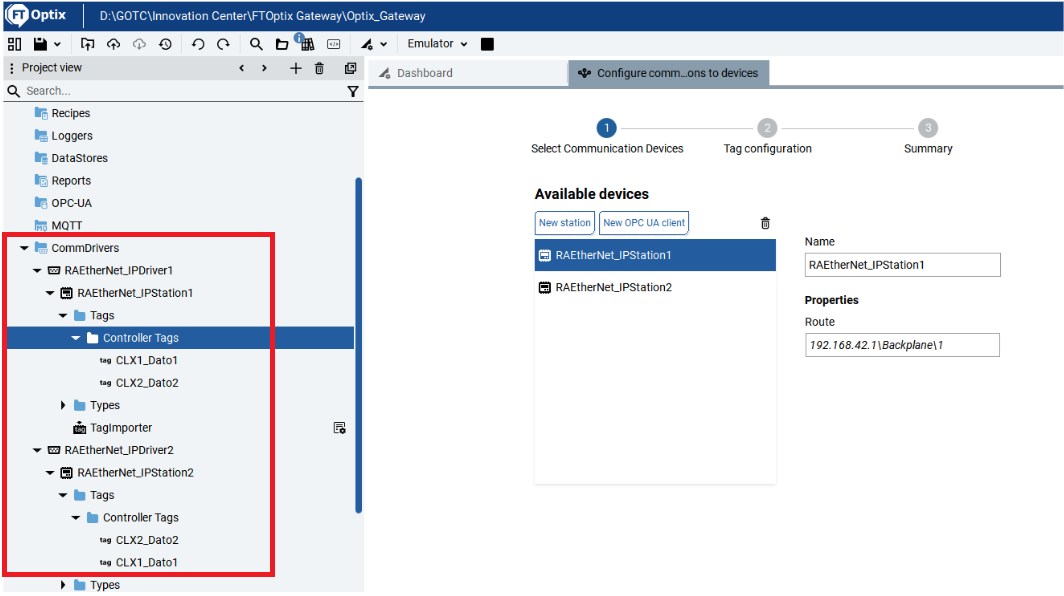
In this example, we'll use two ControlLogix processors, as shown in the following image. The goal is to send the data "CLX1\_Dato1" contained in the program on the left to a data item with the same name, "CLX1\_Dato1," contained in the processor on the right.

Interfaz de usuario gráfica, Aplicación, Word

El contenido generado por IA puede ser incorrecto.

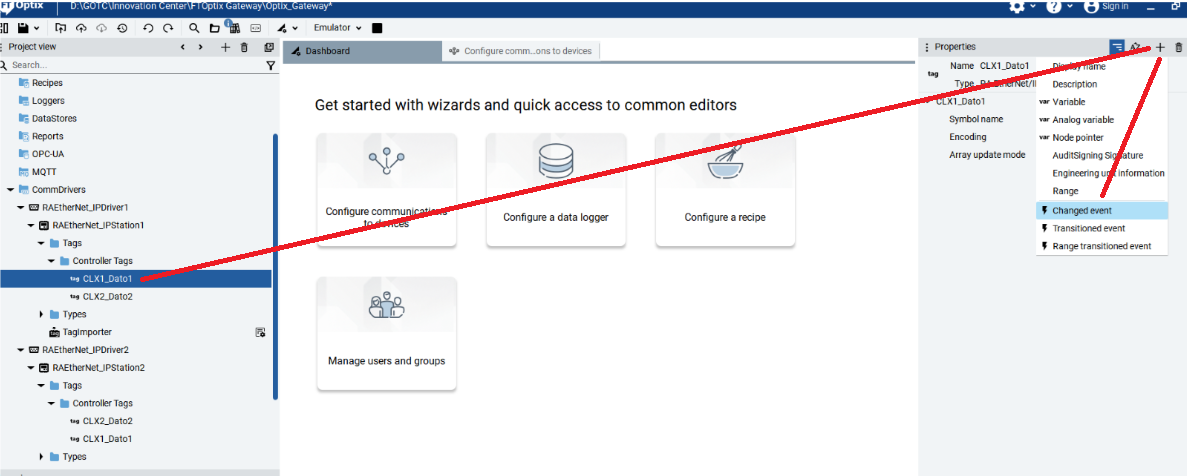
**Step 2**

At FTOptix, we create the Communication Drivers for the two processors that will exchange data.



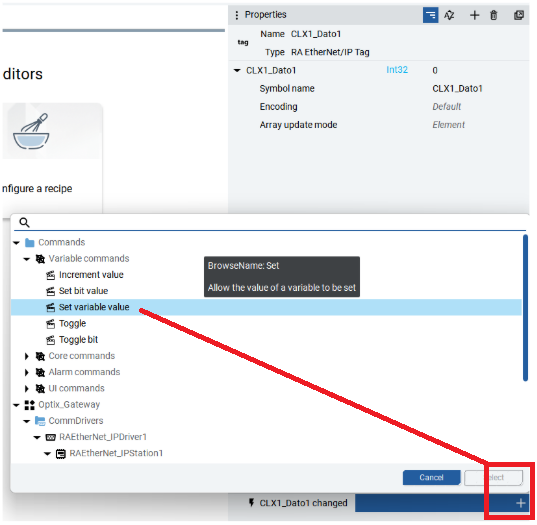
**Step 3**

Select the data we want to send and in Properties click on “+” and select the “Changed event” option.



**Step 4**

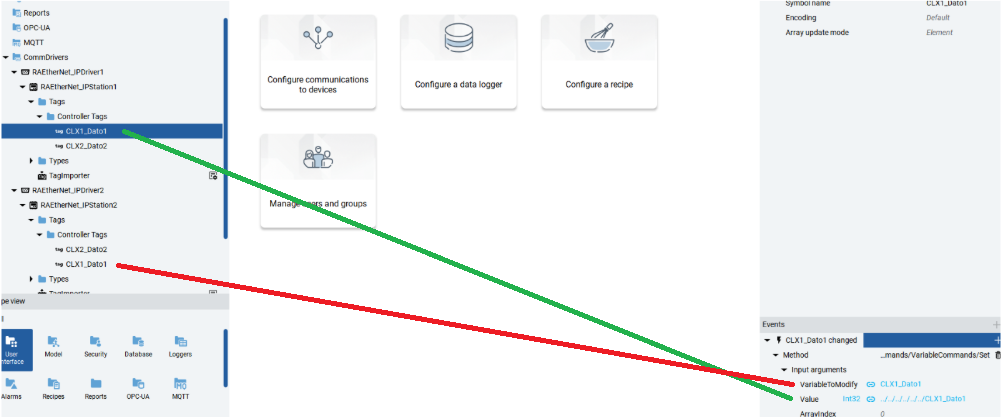
Following the previous step, a section called "Events" will be created in the lower right corner. Click "+" and, within the Commands/Variable commands folder, select "Set variable value."



**Step 5**

Drag the controller variable that will read the data and paste it into the “VaribleToModify” section.

Drag the processor variable that will write the data and paste it into the “Value” section.



With this we manage to send data between two controllers using our FTOptix application as a Gateway between two controllers regardless of the communication protocol of each of them.

