



## Quick Start Guide: IPEmotion Synchronization with Gantner DAQ

**Purpose:** IPEmotion is a data acquisition and visualization software for Gantner hardware. However, test.commander needs to be used for any project or channel configuration. This guide will describe how to perform a system configuration after an IPEmotion configuration has already been created.

### Procedure:

1. Perform initial configuration of the Gantner DAQ in test.commander.

	Type	Connection	Data direction	Range	Samplerate
Q.gate IP T (V1) 192.168.1.29 (@192.168.1.29) Undef					
System variables					
Virtual variables					
Q.bloxx A107 (1/4) Undef					
V2: A107-1	Voltage	Single Ended	INPUT	-10.0 ... 10.0 V	-
V3: A107-2	Voltage	Single Ended	INPUT	-10.0 ... 10.0 V	-
V4: A107-3	Voltage	Single Ended	INPUT	-10.0 ... 10.0 V	-
V5: A107-4	Voltage	Single Ended	INPUT	-10.0 ... 10.0 V	-

2. Open IPEmotion and perform necessary configuration of the system in IPEmotion (i.e. Signals > Detect). The configuration in test.commander will be displayed in IPEmotion.

Name	Active	Unit	Phys Min	Phys Max	Sensor Min	Sensor Max	Sampling rate
TimeOLE2	<input checked="" type="checkbox"/>		-1.797693...	1.7976931...	-1.7976931...	1.7976931...	500 Hz
A107-1	<input checked="" type="checkbox"/>	V	-10	10	-10	10	500 Hz
A107-2	<input checked="" type="checkbox"/>	V	-10	10	-10	10	500 Hz
A107-3	<input checked="" type="checkbox"/>	V	-10	10	-10	10	500 Hz
A107-4	<input checked="" type="checkbox"/>	V	-10	10	-10	10	500 Hz

3. For example purposes, we will create a couple of arithmetic channels and a storage group:

Name	Active	Calculation instruction	Unit	Display Min	Display Max	Sampling rate	Display name
Formula-1	<input checked="" type="checkbox"/>	"A107-1"		-10.00	10.00	1 Hz	Formula-1
Formula-2	<input checked="" type="checkbox"/>	"A107-2"		-10.00	10.00	1 Hz	Formula-2

Name	Active	Description	Storing rate	Sampling rate
TimeOLE2			500 Hz	500 Hz
A107-1			500 Hz	500 Hz
A107-2			500 Hz	500 Hz
A107-3			500 Hz	500 Hz
A107-4			500 Hz	500 Hz
Status-Storage group-1			Event controlled	
Formula-1			1 Hz	1 Hz
Formula-2			1 Hz	1 Hz



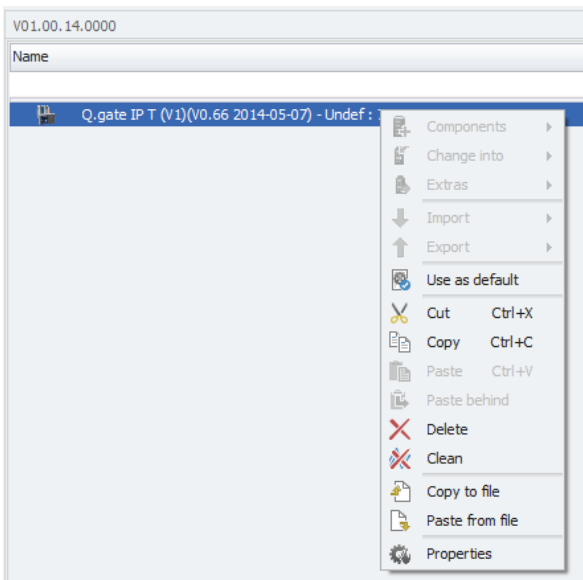
4. Start the acquisition and visualization.



5. At some point during the project, for any reason, if the DAQ needs to be re-configured. Stop the recording and stop the visualization. Minimize IPEmotion to the background. Open the project in test.commander and make necessary changes. For this example we changed the voltage channels into bridge input channels.

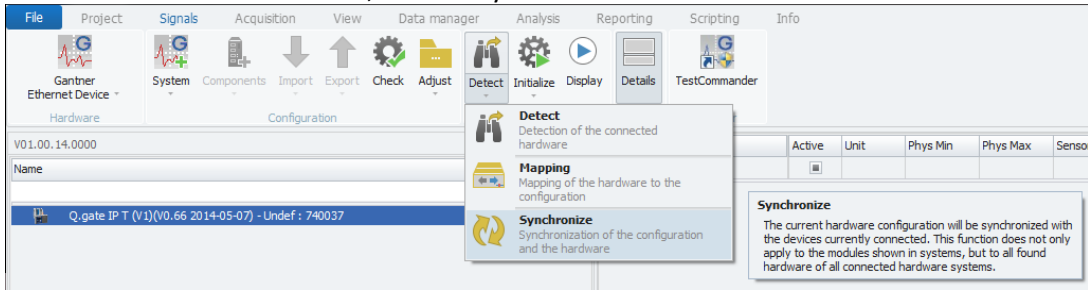
	Type	Connection	Data direction	Range	Samplerate
Q.gate IP T (V1) 192.168.1.29 (@192.168.1.29) Undef					
System variables					
Virtual variables					
Q.bloxx A107 (1/4) Undef					
V2: A107-1	Bridge	Resistive Full 4 Wire	INPUT	-2.5 ... 2.5 mV/V	-
V3: A107-2	Bridge	Resistive Full 4 Wire	INPUT	-2.5 ... 2.5 mV/V	-
V4: A107-3	Bridge	Resistive Full 4 Wire	INPUT	-2.5 ... 2.5 mV/V	-
V5: A107-4	Bridge	Resistive Full 4 Wire	INPUT	-2.5 ... 2.5 mV/V	-

6. Open the IPEmotion window. Go to the Signals tab. Right-click on the controller and select Clean.

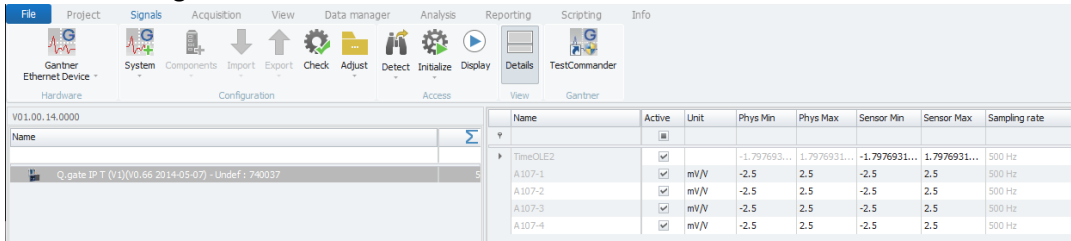




7. Then under the Detect section, click on Synchronize.



8. The new configuration will be loaded:



9. The Acquisition tab will display all previous channels, and the Visualization tab will have all previous pages. Certain visual elements will maintain assigned channels; some will have to be reassigned.



10. For each tab, whether it is the Acquisition or Visualization tab, the configuration for that specific page can be saved and loaded for future configurations. While on that tab, select File > change to the file type you wish to save.

