



Quick Start Guide: How to load Different Projects using test.commander

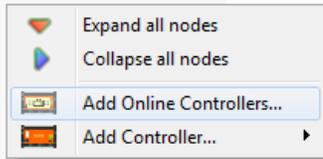
Purpose: This document describes how to use test.commander to load a different project to a controller without having to modify the current project.

The hardware being used (including the controller and measurement modules) must match exactly what is used in the project configuration being loaded or else the controller will not accept it. The individual projects must initially be created and modified but can be saved and used for future tests.

For the purposes of this document, we will be using a single Q.gate with an A101 module. For this example, we are using version 1.7.9 of test.commander.

Procedure:

1. Install test.commander, put together hardware, and connect communication & power lines.
2. Open test.commander and create a new project (File > New Project). For this example, we will call the project "PROJECT-VOLTAGE". This will create a blank project.
3. Anywhere in the workspace area of test.commander, right-click on your mouse and select "Add Online Controllers".



4. Follow the on-screen instructions to add the current configuration inside the controller to this new project. When finished, the most recent configuration will be loaded under "PROJECT-VOLTAGE".

	Type	Connection	Data direction	Data format	Range
Q.gate IP T (V1) 192.168.1.29 (@192.168.1.29) Undef					
System variables					
Virtual variables					
Q.blox A101 (1/1) Undef					
V32: Variable 1	Voltage	Single Ended	INPUT	FLOAT	-10.000 ... 10.000 V
V33: Variable 2	Voltage	Single Ended	INPUT	FLOAT	-10.000 ... 10.000 V

5. Close the "PROJECT-VOLTAGE" window.
6. Create a new project again (File > New Project). For this example, we will call the project "PROJECT-TC". This will again create a blank project.
7. Again, anywhere in the workspace area of test.commander, right-click on your mouse and select "Add Online Controllers".
8. Follow the on-screen instructions to add the current configuration inside the controller. When the project finishes being downloaded from the controller, notice that the configuration is the same as the previous. We can now modify this project, "PROJECT-TC", with different settings. For example, let's configure the channels as thermocouples:



	Type	Connection	Data direction	Data format	Range
Q.gate IP T (V1) 192.168.1.29 (@192.168.1....)					
System variables					
Virtual variables					
Q.bloxx A101 (1/1) Undef					
V32: Variable 1	Thermocouple	Cold Junc. comp.	INPUT	FLOAT	-100.0 ... 1200.0 °C
V33: Variable 2	Thermocouple	Cold Junc. comp.	INPUT	FLOAT	-100.0 ... 1200.0 °C

9. At this moment, there are 2 options we can perform. (1) Upload the “PROJECT-TC” to the controller or (2), save the “PROJECT-TC” to be used for a future test. For example purposes, we will upload the “PROJECT-TC” to the controller (File > Write Project (Update)).

10. After the project has been updated, view online values to verify that the A101 is indeed configured as TC channels (File > Read Online Values from Controller).

Controller - @192.168.1.29	Zero/Tare	Value
Internal		
Slave RS 485 #1		Cycles counter:670 / Errors counter:0
Q.bloxx A101 @1 (Undef)		Errors counter:0
Variable 1 (#32)		1,212.0 °C
Variable 2 (#33)		1,212.0 °C

(Image above shows open channels, hence full scale value)

11. At this moment, we want to switch to another project, “PROJECT-VOLTAGE”. Close the “PROJECT-TC” window. Select File > Open Project. Find the .EPJ file for the project you wish to use. The default directory where all Gantner Instruments projects are saved in is:
C:\ProgramData\Gantner Instruments\test.commander\Projects

12. Select the .EPJ and the new project window will appear. Make sure the red star is present before updating.

	Type	Connection	Data direction	Data format	Range
Q.gate IP T (V1) 192.168.1.29 (@192.168.1....)					
System variables					
Virtual variables					
Q.bloxx A101 (1/1) Undef					
V32: Variable 1	Voltage	Single Ended	INPUT	FLOAT	-10.000 ... 10.000 V
V33: Variable 2	Voltage	Single Ended	INPUT	FLOAT	-10.000 ... 10.000 V

13. Upload this project to the controller (File > Write Project (Update)). After the project finishes updating, view the online values to verify the A101 is configured as voltage channels.

Controller - @192.168.1.29	Zero/Tare	Value
Internal		
Slave RS 485 #1		Cycles counter:3160 / Errors counter:0
Q.bloxx A101 @1 (Undef)		Errors counter:0
Variable 1 (#32)		-0.254 V
Variable 2 (#33)		-0.262 V

14. This process can be repeated for multiple projects and various configurations.

15. If creating a backup of the project configuration is desired, this is possible by selecting File > Export Project. This will create a ZIP file that contains all the configurations for that specific project.



16. A complete project contains the following items:

- A folder with the same name as the project name and contains the module configuration settings for every module in the project.

Name	Date modified	Type	Size
_C192.168.1.29_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_I.GCF	7/7/2014 12:27 PM	GCF File	2 KB
_C192.168.1.29_IPHY_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_ISYS_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_IVIR_C.GCF	7/7/2014 12:27 PM	GCF File	7 KB
_C192.168.1.29_MAAD_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_U0_A1_C.GCF	7/7/2014 12:27 PM	GCF File	3 KB
_C192.168.1.29_U0_A1_C.GCF.PRO	7/7/2014 12:27 PM	ICP100 Configurat...	3 KB
_C192.168.1.29_summary.STA	7/7/2014 12:27 PM	STA File	5 KB

- The following project settings files.

PROJECT-VOLTAGE.CSV	7/7/2014 12:36 PM	Microsoft Excel C...	3 KB
PROJECT-VOLTAGE.DES	7/7/2014 12:36 PM	QuickBooks Form ...	5 KB
PROJECT-VOLTAGE.EPJ	7/7/2014 12:27 PM	test.commander P...	1 KB
PROJECT-VOLTAGE.OPC.CSV	7/7/2014 12:36 PM	Microsoft Excel C...	1 KB
PROJECT-VOLTAGE.XML	7/7/2014 12:36 PM	XML Document	25 KB

17. These configuration files **should not** be edited using any other software other than test.commander/ICP100. The contents of the files can be viewed using notepad if necessary. If these files are modified incorrectly, it can result in errors that can only be resolved at the factory.

Example: A101 configuration file:

Name	Date modified	Type	Size
_C192.168.1.29_C.GCF	7/7/2014 12:36 PM	GCF File	1 KB
_C192.168.1.29_I.GCF	7/7/2014 12:36 PM	GCF File	2 KB
_C192.168.1.29_IPHY_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_ISYS_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_IVIR_C.GCF	7/7/2014 12:27 PM	GCF File	7 KB
_C192.168.1.29_MAAD_C.GCF	7/7/2014 12:27 PM	GCF File	1 KB
_C192.168.1.29_U0_A1_C.GCF	7/7/2014 12:27 PM	GCF File	3 KB
_C192.168.1.29_summary.STA	7/7/2014 12:27 PM	STA File	5 KB

18. If the hardware configuration ever changes, the settings inside the controller must be reset before uploading new configurations. The projects must also be reconfigured to reflect the hardware changes.