

MANUAL

PLCCONNECT



SPIIDER

Title DAQ - PLC	
Project SPIDER	
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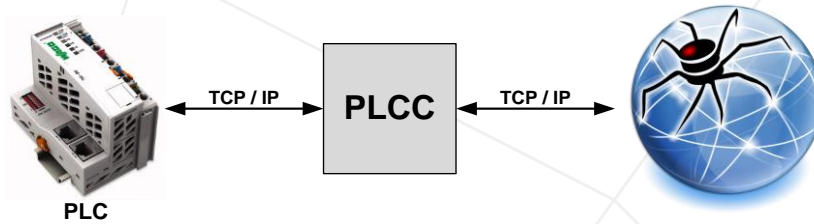
1 What is PLCC?

PLCCConnect (Programmable Logic Controller Connect) is a generic connection program between the Ethernet-SPS controllers and SPIDER.

In this context it has multiple functions:

- It can be used as router application if the SPS and SPIDER are not in the same network.
- It makes the connection control between SPS and SPIDER possible and transmits connection-specific data to SPS in an arbitration phase.

You have to start a specific instance for each connection of a controller with SPIDER. For this purpose the connection-specific data, like IP addresses, ports and the session name, is provided via command line parameter.



iii. 1 System integration PLCC

2 Start PLCCConnect

PLCCConnect has to be started via command line parameters. If you purchase PLCC together with another product, the parameters will be adjusted to the basic settings of the components which are to be connected.

If you want to change the parameters, you will have to create a new shortcut or start the program with the particular command line parameters. In chapter 2.2 “Start an application with command line parameters” you can find more detailed information about how to start a program with command line parameters.

2.1 Parameters that are to be set

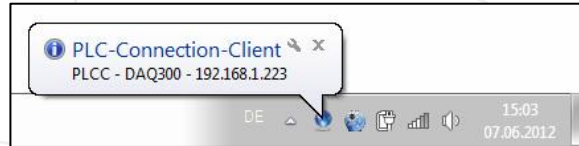
You can use the following parameters:

Parameter	Value	Comment	Standard	urgent
-spiderip	<xxx.xxx.xxx.xxx>	SPIDER IP address	127.0.0.1	
-spiderport	<0...65535>	SPIDER port number	1028	
-plcip		IP address DAQ Unit	-	X
-plcport	<1...65535>	Port number DAQ Unit	-	X
-appname	<...>	Name of the application	-	X
-appdescr	<...>	Description of the application	-	
-wdtimeout	<0...255>	Watchdog timeout in seconds 0 = Off	3 sec	
-debuglevel	<1...5>	0= no debug outputs	-	

iii. 2 SPIDER in the start menu

Example: ...PLCConnect\PLCC.exe *–spiderip 127.0.0.1 –spiderport 557 –plcip 192.168.1.223 –plcport 557 –appname DAQ300*

You can see the status of PLCConnect in the Tray Icon in the task bar. If the symbol is glowing permanently, a connection is established. If the symbol is blinking, then the program periodically tries to establish a connection.



iii. 3 PLCConnect Tray Icon

2.2 Start an application with command line parameters

You can start different programs via command line parameters. This causes the program to receive information while starting. In Microsoft Windows there are basically two options to start an application with parameters. On the one hand you can start an application via shortcut. On the other hand you can perform the program start directly by using the command line.

The following descriptions explain the two options with the example of PLCConnect.

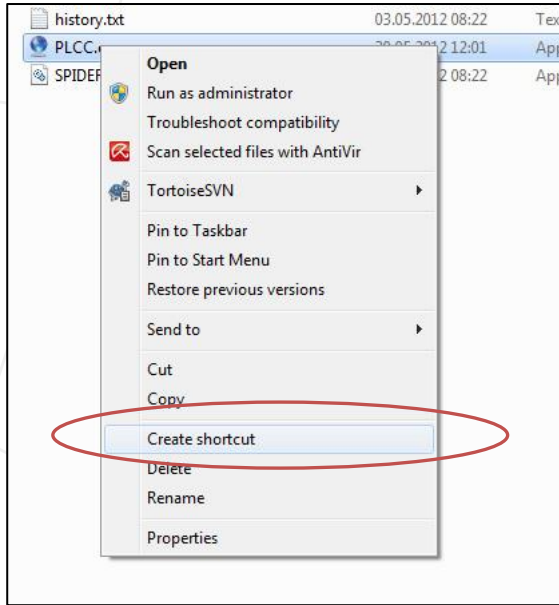
2.2.1 Via shortcut

Step 1

Open the folder which contains the executable file (Example: *C:\SPIDER\PLCConnect\PLCC.exe*).

Step 2

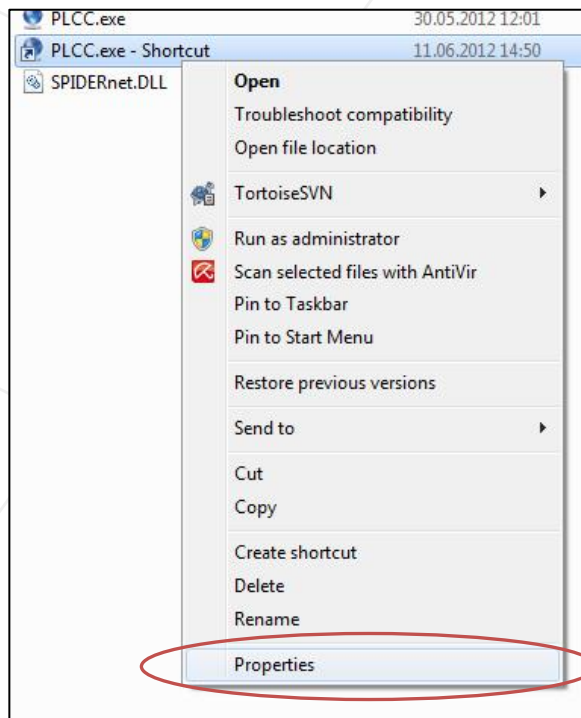
Create a shortcut of the PLCC.exe (right mouse click → Create a shortcut).



iii. 4 Create a shortcut

Step 3

Call up the properties of the shortcut (right mouse click → Properties).

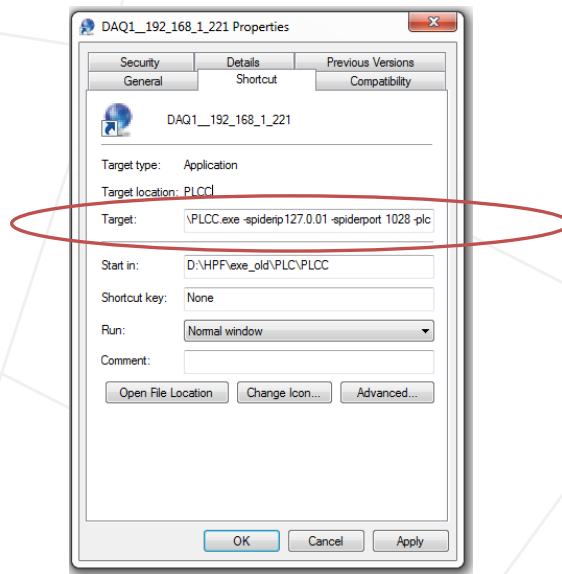


iii. 5 Call up the shortcut properties

Step 4

Enter the particular parameters into the line "Target" in the index-tab "Shortcut" and confirm by clicking the "OK" button.

Example: „C:\SPIDER\PLCCONNECT\PLCC.exe" –*spiderip 127.0.0.1 –spiderport 1028 –plcip 192.168.1.220 –appname DAQ1*



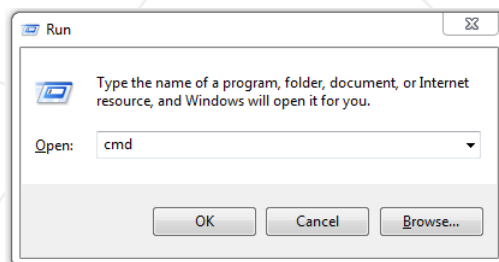
iii. 6 Add a parameter via properties

Please note: You can find the particular parameters in the corresponding software descriptions.

Now you can start the program via shortcut with the command line parameters.

2.2.2 Via command line request

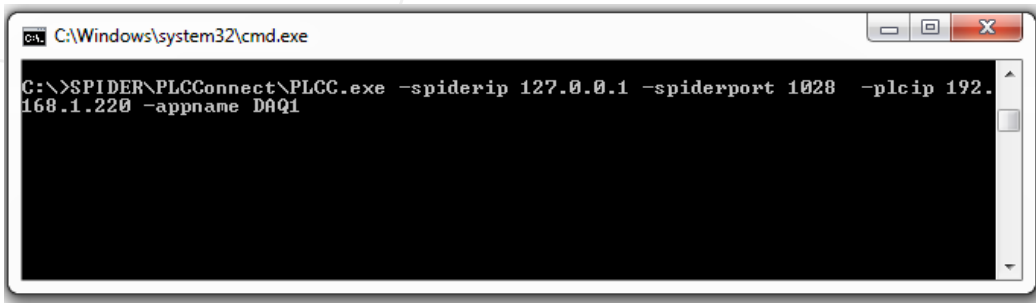
Start the Windows command line by pushing the “Windows key + R” and run the command “cmd”.



iii. 7 Windows "Run" window

Start the program with the desired parameters (as seen in the illustration).

Example “C:\SPIDER\PLCCConnect\PLCC.exe -spiderip 127.0.0.1 -spiderport 1028 -plcip 192.168.1.220 -appname DAQ1”

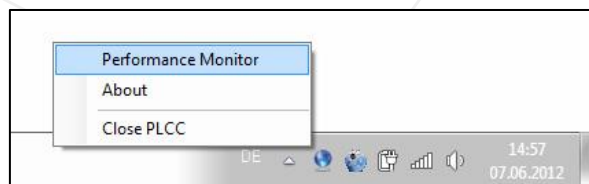


iii. 8 Command line request PLCC

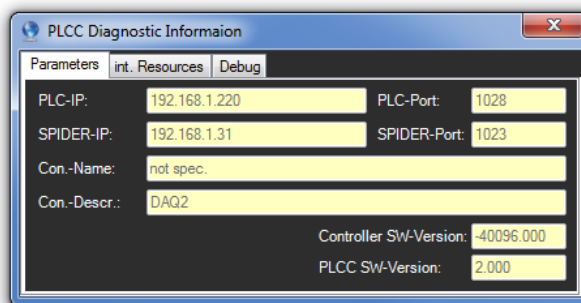
3 Check the parameters

3.1 Performance Monitor

You can see the set values in the Performance Monitor of PLCCconnect. The Performance Monitor opens by clicking the right mouse button on the PLCCconnect Tray Icon in the task bar.



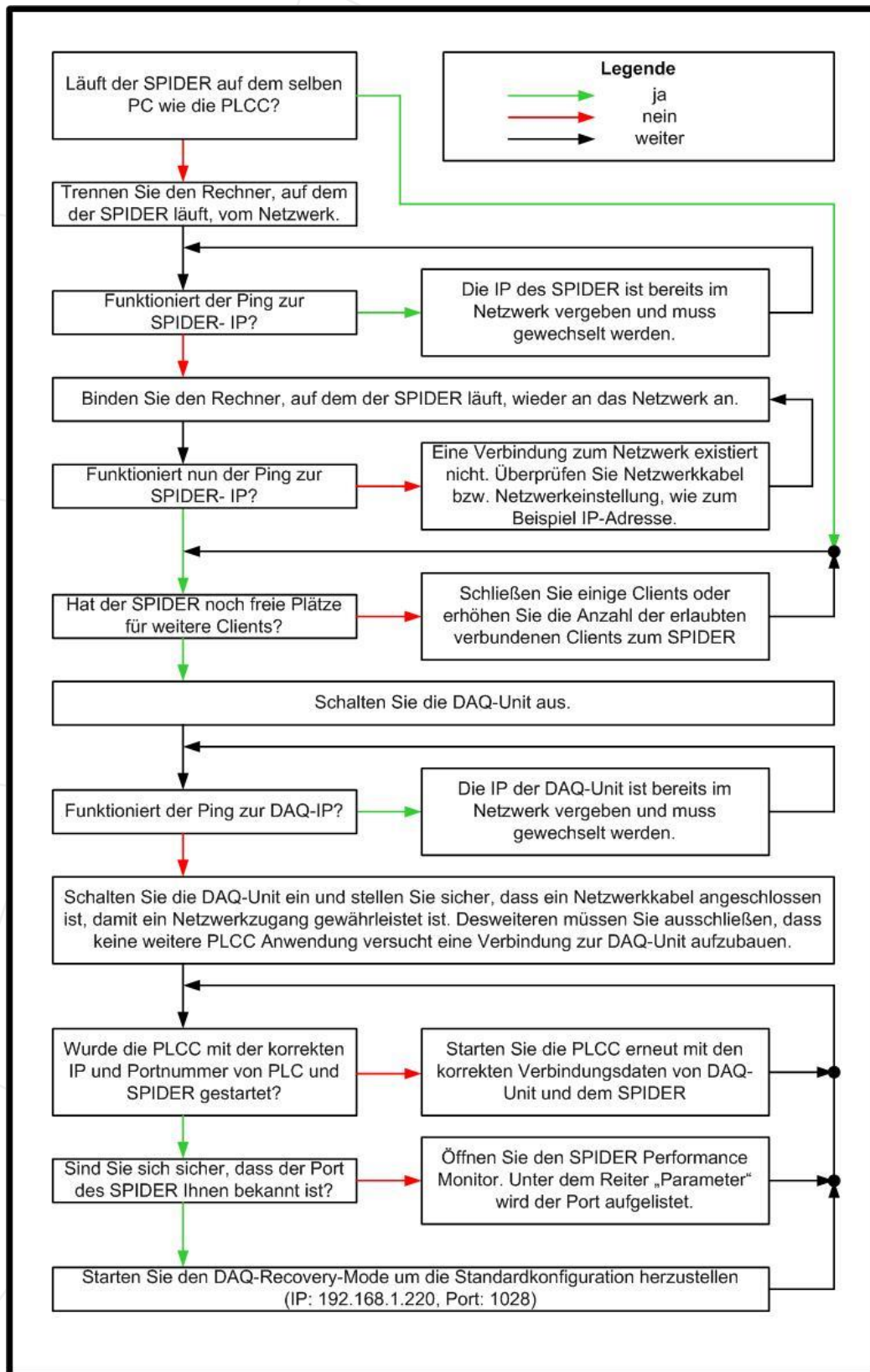
iii. 9 Start the SPIDER Performance Monitor



iii. 10 Performance Monitor

4 Troubleshooting

In case, you have problems using PLCConnect, we recommend troubleshooting with the help of the following graphic:



iii. 11 PLCC troubleshooting

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