

CO5 Uploader

Command Line Interface User Guide

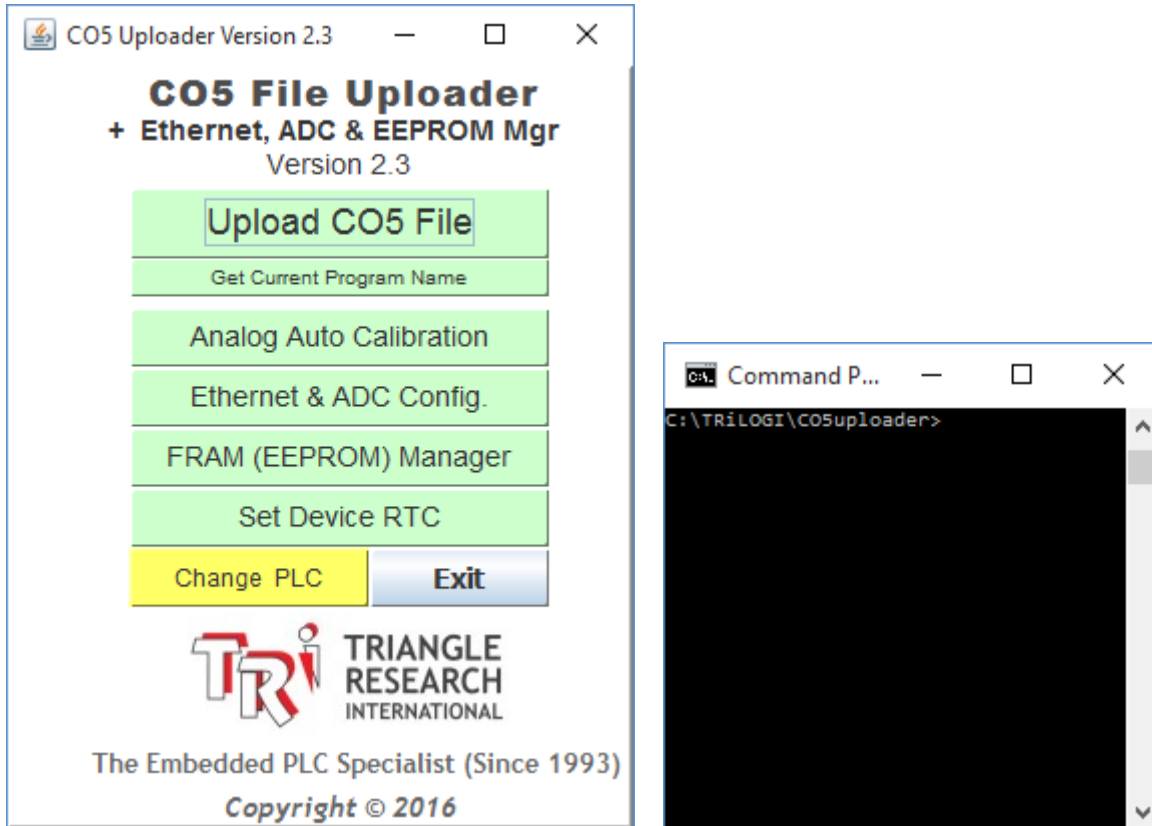


Figure 1 - CO5 Uploader Main Window and Cmd Prompt Directory

1 INTRODUCTION

The CO5Uploader program is used to transfer compiled PLC programs in .CO5 file format to the PLC. This allows the user to generate a compiled code file and provide it downstream to the end user without exposing the source code or needing to provide the programming software.

The GUI version instructions are covered in the "CO5 Uploader - User Guide.pdf" document available for download here:

<http://triplc.com/documents/CO5 Uploader - User Guide.pdf>

The command line interface is included with the main CO5 Uploader program and will call the CO5Uploader GUI to automate the connection and compiled file transfer process up until the user is prompted to complete the process by clicking on either 'Reboot', 'Reset', or 'Close'.

The following sections provide instructions for using the command line interface. It is assumed that the .CO5 file has already been generated as per the procedure in the main user guide.

2 UPLOADING A CO5 FILE FROM A COMMAND LINE

2.1 Preparing to Use the Command Line Interface

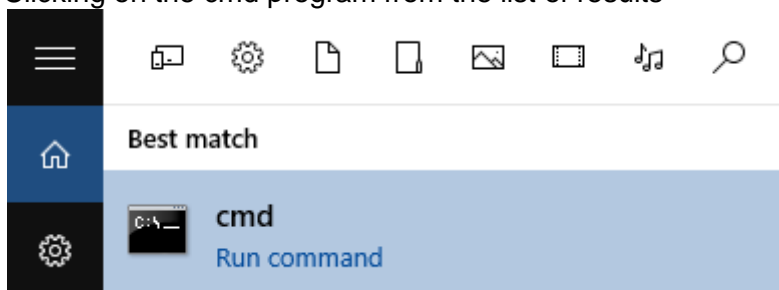
Before running the CO5 Uploader file transfer process from the command line, you will need to do the following:

1. Install the CO5 Uploader as described in the CO5 Uploader - User Guide.pdf" document
2. Generate the .CO5 file as described in the CO5 Uploader - User Guide.pdf" document
3. Store the .CO5 file in the CO5 Uploader installation directory (default is C:\TRiLOGI\CO5uploader)

2.2 Transferring a .CO5 File

Take the following steps to transfer a .CO5 file from the command line:

1. Start a Windows command prompt by
 - a. Searching for 'cmd' in the Windows or Start Menu search bar.
 - b. Clicking on the cmd program from the list of results



2. Navigate to the installation folder by typing '`cd C:\TRiLOGI\CO5uploader`' and pressing 'Enter'. You should then see the CO5uploader directory as show in on page 1.
3. Run the CO5Uploader program using Java with the necessary arguments separated by space characters as follows:

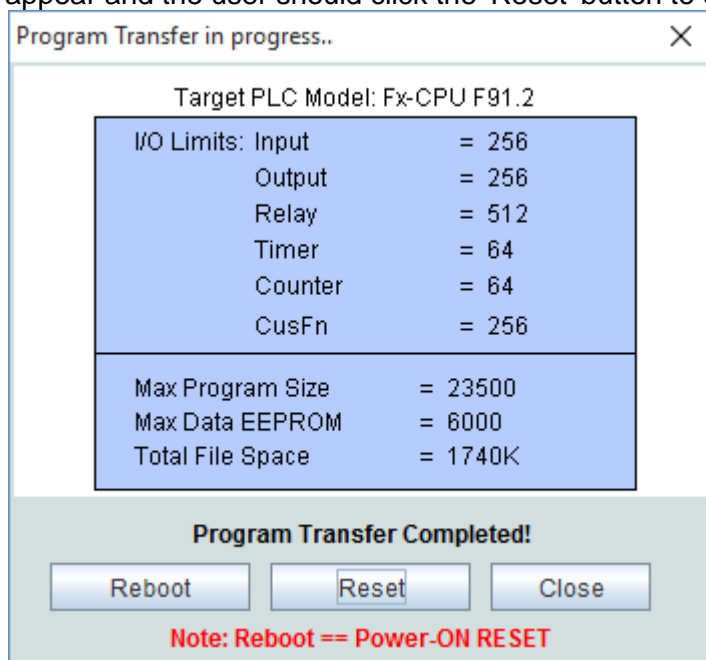
```
java -jar CO5uploader.jar arg1 arg2 arg3 arg4 arg5
```

- 1st Argument (arg1) - file name (located in the same folder as the CO5uploader.jar)
- 2nd Argument (arg2) - the IP address:port of the PLC
- 3rd Argument (arg3) - the ID (01 to FF) of the PLC
- 4th Argument (arg4) - the username (if configured for network login)
- 5th Argument (arg5) - the password (if configured for network login)

Press Enter to run the command and start the upload process.

4. Wait for the transfer to complete. After running the command successfully, the CO5 Uploader GUI program will automatically start and the transfer process will start.

5. Reset the PLC upon completion. If the transfer is successful, the following window will appear and the user should click the 'Reset' button to complete the process.



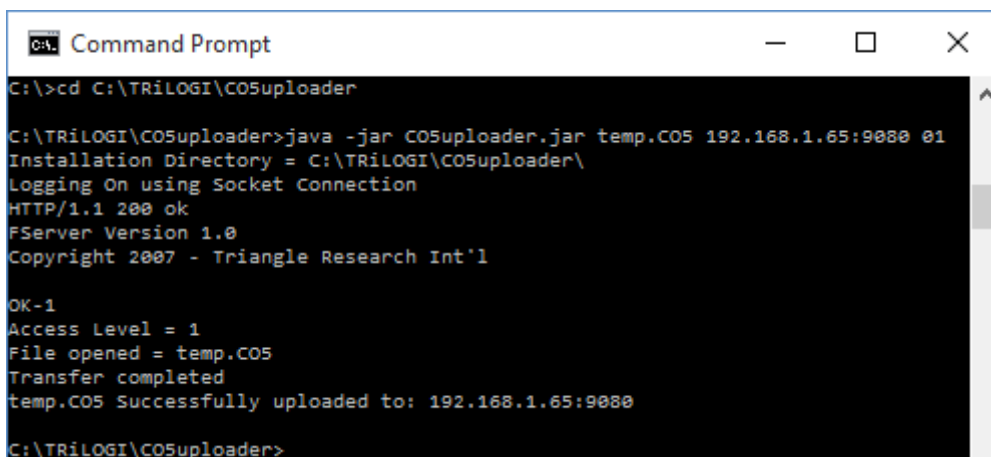
2.3 Example

Here is the sequence of commands to run from a command prompt for a target PLC with the following parameters:

File: temp.CO5 (stored in the default folder C:\TRiLOGI\CO5uploader)
 IP address: 192.168.1.65
 Port: 9080
 Network ID: 01
 Username: None has been configured (this argument can be omitted)
 Password: None has been configured (this argument can be omitted)

```
cd C:\TRiLOGI\CO5uploader
```

```
java -jar CO5uploader.jar temp.CO5 192.168.1.65:9080 01
```



```

C:\>cd C:\TRiLOGI\CO5uploader

C:\TRiLOGI\CO5uploader>java -jar CO5uploader.jar temp.CO5 192.168.1.65:9080 01
Installation Directory = C:\TRiLOGI\CO5uploader\
Logging On using Socket Connection
HTTP/1.1 200 ok
FServer Version 1.0
Copyright 2007 - Triangle Research Int'l

OK-1
Access Level = 1
File opened = temp.CO5
Transfer completed
temp.CO5 Successfully uploaded to: 192.168.1.65:9080

C:\TRiLOGI\CO5uploader>
  
```

2.4 Transferring via Serial Port

If your customer is connecting to the PLC via the serial port (either RS232 or RS485), he/she will need to run the TLServer Lite 3.2 software (TLSElite32.jar) and connect via localhost connection. The rest of the procedure is the same.

The username and password to login to the TLServer Lite 3.2 is stored in the “Readme.txt” file in the CO5 Uploader installation folder, and is shown below as well.

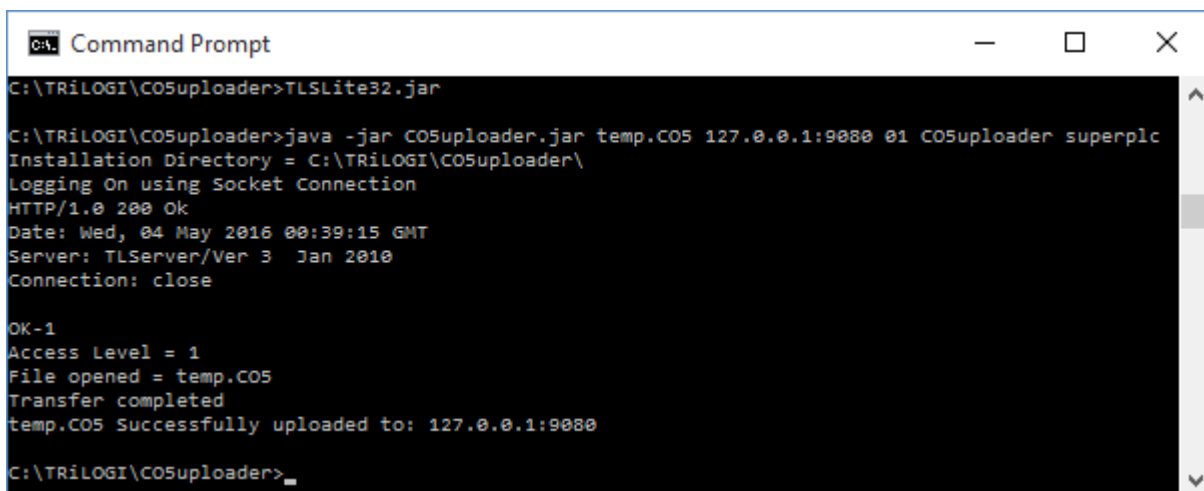
Here are the default parameters:

IP address: 127.0.0.1
 Port: 9080
 Network ID: 01
 Username: CO5uploader
 Password: superplc

This is an example of a transfer via serial connection. Note that the TLServer Lite 3.2 software should be run first.

TLSElite32.jar

java -jar CO5uploader.jar temp.CO5 127.0.0.1:9080 01 CO5uploader superplc



```

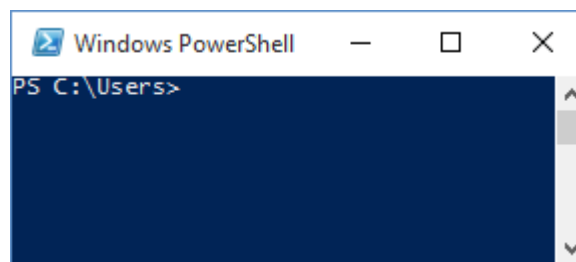
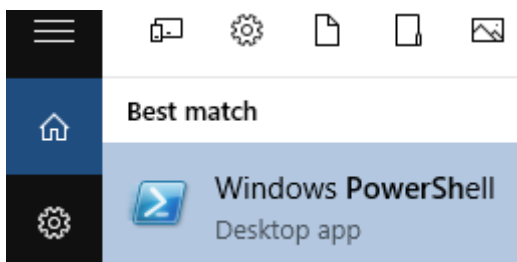
C:\TRILOGI\CO5uploader>TLSElite32.jar

C:\TRILOGI\CO5uploader>java -jar CO5uploader.jar temp.CO5 127.0.0.1:9080 01 CO5uploader superplc
Installation Directory = C:\TRILOGI\CO5uploader\
Logging On using Socket Connection
HTTP/1.0 200 Ok
Date: Wed, 04 May 2016 00:39:15 GMT
Server: TLServer/Ver 3 Jan 2010
Connection: close

OK-1
Access Level = 1
File opened = temp.CO5
Transfer completed
temp.CO5 Successfully uploaded to: 127.0.0.1:9080

C:\TRILOGI\CO5uploader>
  
```

2.5 Using Windows PowerShell



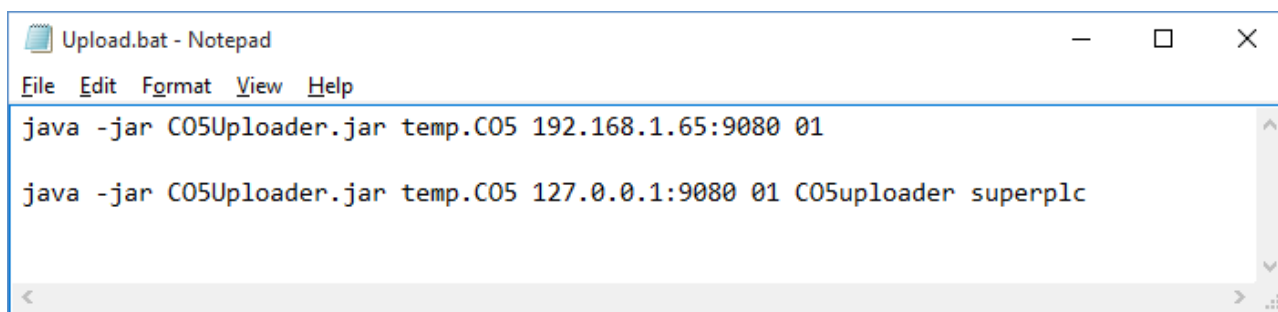
Windows 10 users can use the PowerShell interface instead of a command prompt, but both programs will work. The commands are identical, so no further explanation is provided.

3 BATCH FILE TRANSFER

It is possible for the user to create a command line batch file to enter all the controllers IP address and other parameters and let the transfer process run through one by one.

This is a semi automatic process that requires the user to both manually click 'Reset' and close CO5 Uploader after each transfer completes. The next transfer won't begin until this is done. This way if there is an error before or during the transfer, the user will be notified and can resolve it before moving to the next controller.

Here is an example of a batch file that will perform 2 sequential transfers:



```
Upload.bat - Notepad
File Edit Format View Help
java -jar CO5Uploader.jar temp.CO5 192.168.1.65:9080 01
java -jar CO5Uploader.jar temp.CO5 127.0.0.1:9080 01 CO5uploader superplc
```

The first line performs an Ethernet transfer of the file 'temp.CO5' to a PLC with IP address 192.168.1.65. No username or password is configured, so those parameters are omitted.

The second line a serial transfer via TLServer of the file 'temp.CO5' to a PLC using the localhost IP address 127.0.0.1. The default username and password are used.

This file is named Upload.bat and the batch upload process is started by running it like any other .exe program.

The batch file must be located in the same folder as CO5Uploader.jar, which is also the same folder where the .CO5 file being uploaded is located.