

OpcUaServerWrapper

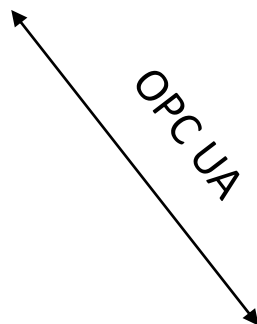
PC



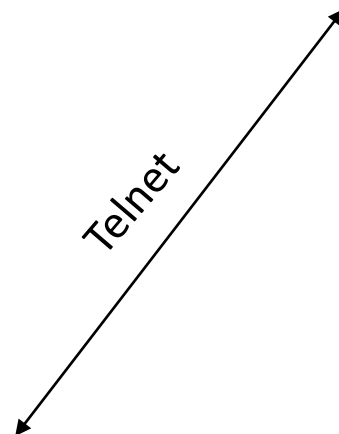
Controller



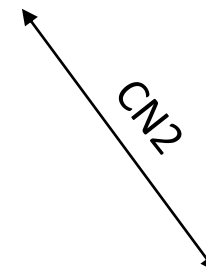
OPC UA



Telnet



CN2



runs our software



Raspberry Pi

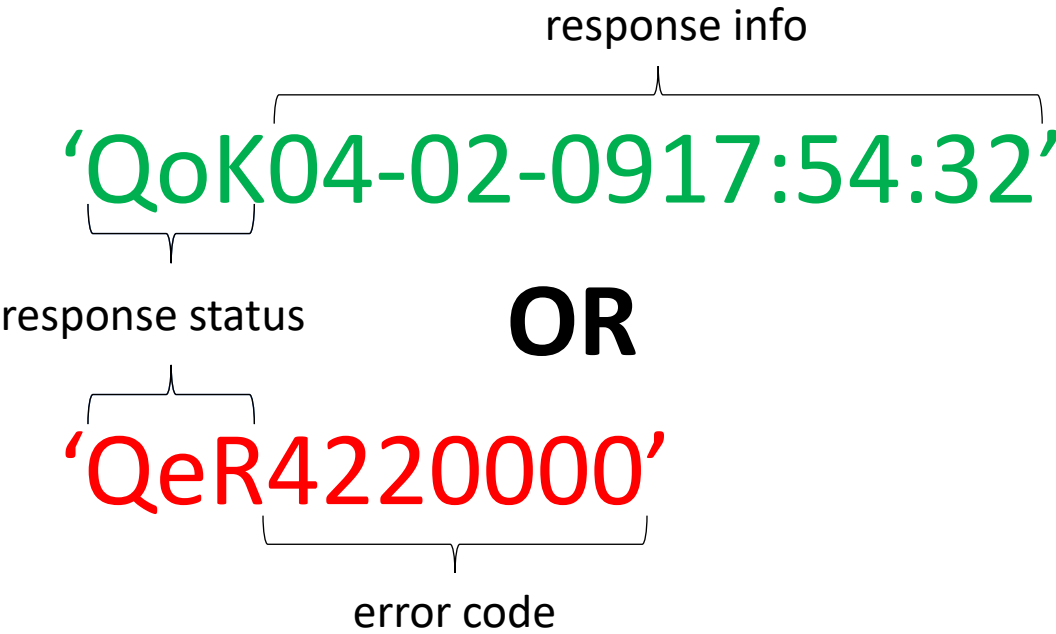
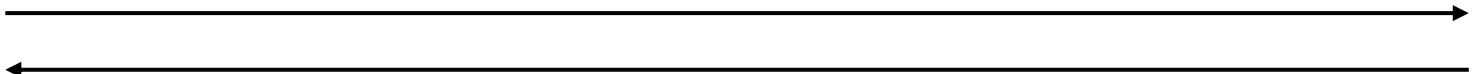


Robot



Telnet example (ASCII encoding)

'1;1;TIME'

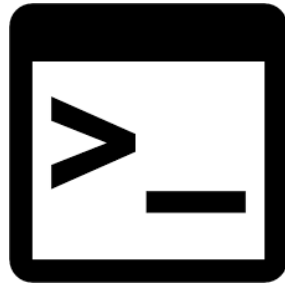


our software is hosted on a public GitHub repo

```
git clone https://github.com/Oidlichtnwoada/OpcUaServerWrapper.git
```

opcua.service
systemd

run at startup



update_repository_and_start_server.sh

OpcUaServerWrapper.git

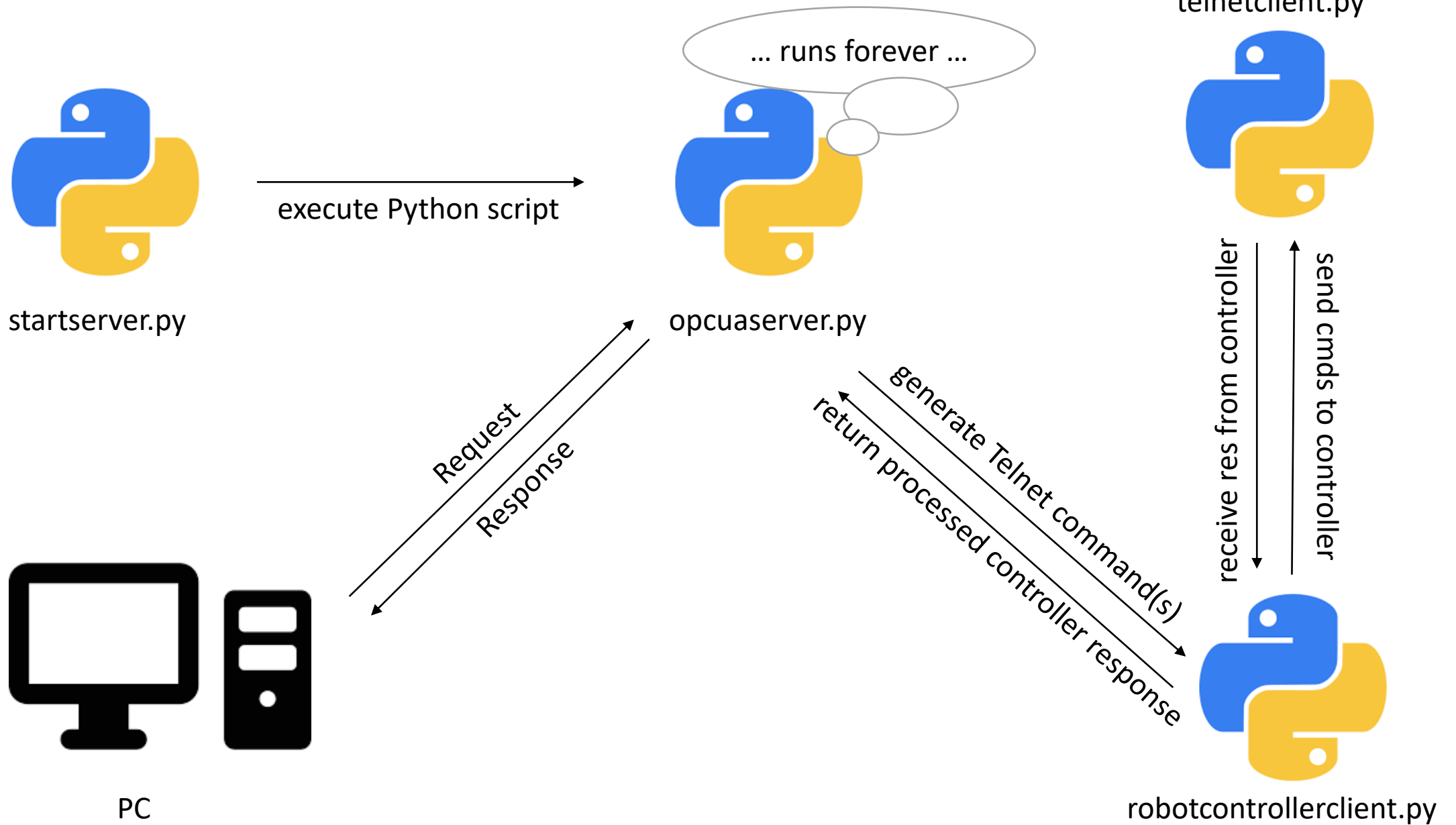


1. git pull

2. execute Python script



startserver.py



used open-source Python OPC UA library

```
git clone https://github.com/FreeOpcUa/python-opcua.git
```

OPC UA method name	NodeId	Description
ReadInput(Index)	ns=4;i=1067	reads the input sensor with the corresponding Index
WriteOutput(Index, Value)	ns=4;i=1111	writes Value to the actuator with the corresponding Index
Move(X,Y,Z,A,B,C)	ns=4;i=1137	move to position (X,Y,Z) with rotation (A,B,C)
OpenGripper()	ns=4;i=1131	open the gripper attached to the robot
CloseGripper()	ns=4;i=1134	close the gripper attached to the robot
GetErrorLog(NumErrorLogs)	ns=4;i=1140	returns the most recent NumErrorLogs errors
ResetError()	ns=4;i=1108	resets the current error present in the controller

Code Walkthrough

Live Demo