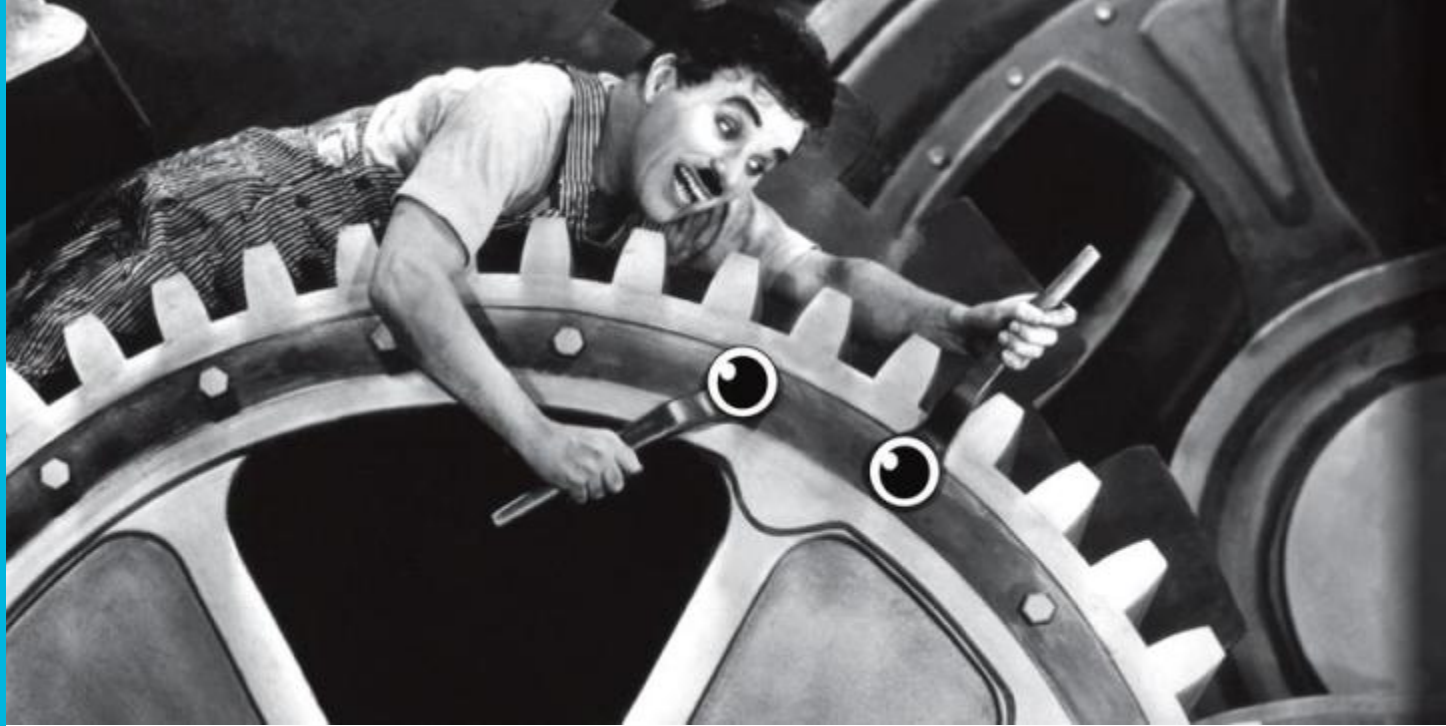




Pierre RIPA
R&D Firmware Engineer



Simon DETOLLENAERE
Technical Support Engineer



Acquisition of custom industrial
data in an eWON

BASIC WORKSHOP

Built-in
how to do
more?

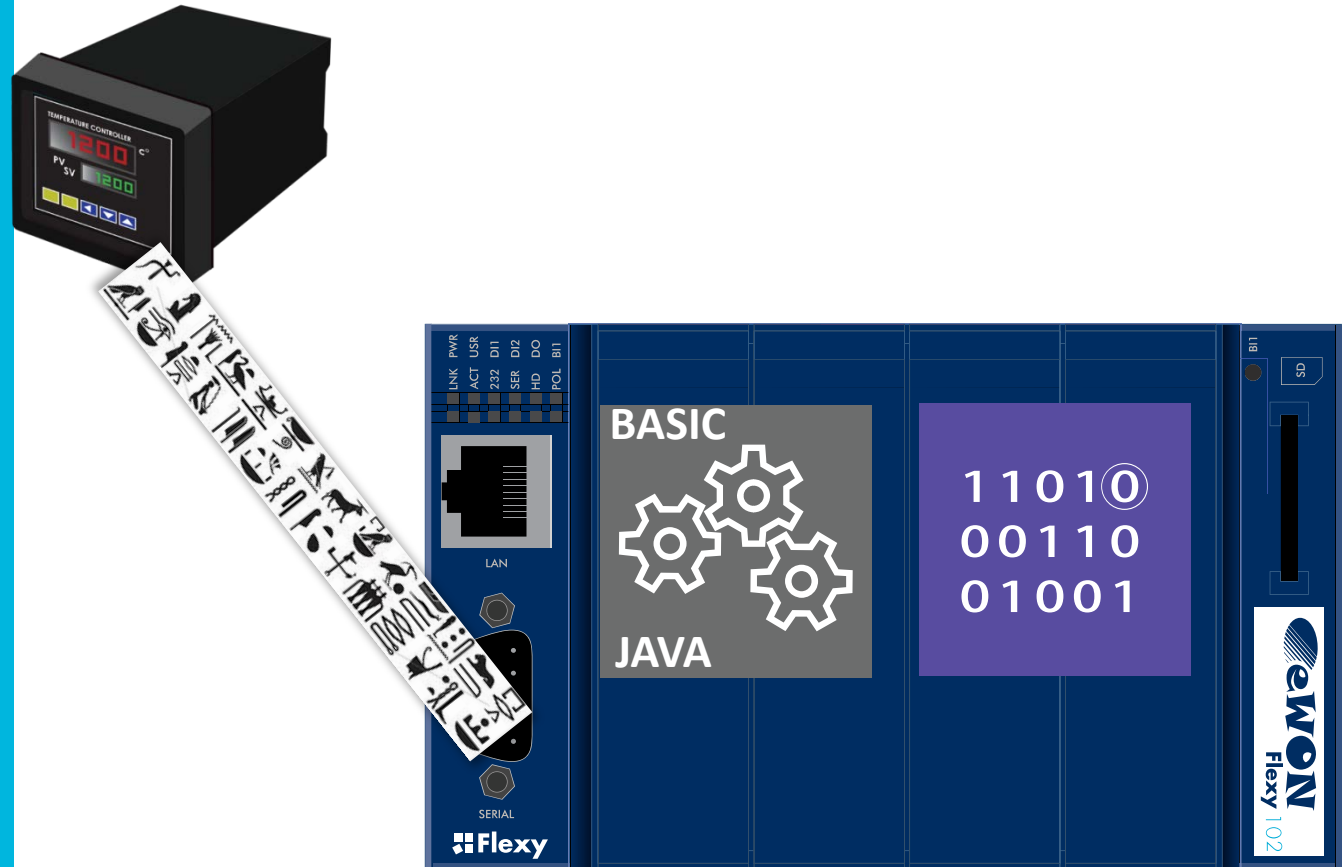
How to do more?

1. **Do it all yourself**
 - Basic or Java
2. **Add IO Server functionalities**
 - Basic
3. **Create a new IO Server**
 - Java

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1. DIY

New protocol implementation



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Basic DIY

Protocol implementation

```
Ca. Telnet 10.0.7.24
Username: guest
Password:
Welcome to the FlexThink ServoDriver.
ServoDriver>temperature
27.9
ServoDriver>pressure
99519.000000
ServoDriver>
```

ServoDriver : 172.25.110.5

```
handles = @openservodriver( 1, SD_Addr$, SD_Port$, "guest", "guest" )

Servo_Current@ = @getCommandValue(handle$, "CURRENT")
Print "Current : ";value
Servo_Voltage@ = @getCommandValue(handle$, "VOLTAGE")
Print "Voltage : ";value
```

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Basic DIY
Basic IOSrv+

Basic script IOSend / IORcv

- Read a phone number from a Modbus PLC

14 chars at addr 1000

"+32 67 895 800"

```
ReadPhone:
  ReadFunction = 3
  B$ = "100,10.0.100.147"
  ReadRegAddr = 1000
  ReadRegSize = 7

ReadModbusRegister:
  debug = 0
  A$ = Chr$(INT(ReadFunction))
  a% = ReadRegAddr - 1
  a% = a% AND 65535
  A$ = A$ + Chr$(a%/256)+Chr$(a% MOD 256)
  a% = ReadRegSize
  a% = a% AND 65535
  A$ = A$ + Chr$(a%/256)+Chr$(a% MOD 256)
  a% = Iosend "MODBUS",B$,A$

Wait_IO_End_1:
  b% = Iorcv a%,1
  If b%=-1 Then
    Goto Wait_IO_End_1
  Endif

  B$ = Iorcv a%

  If (B$(1)=CHR$(131)) Then
    Print "Read ERROR"
  Endif

  Z$=""
  //Z$ = B$( 3 To (2+(ReadRegSize*2)) )
  Z$ = B$( 3 To )
  Print "Read phone number"
  Print " ";Z$
End
```

IO Server: MODBUS Edit Clear Init

MODBUS TCP Server (The eWON publish data)

eWON Server: ☒ Enabled

Modbus TCP Unit Address: 100

MODBUS IO Server & Gateway settings

Topic A: ☒ Enabled

Topic Name: A

Global Slave Address: Slave

Poll Rate: 2000

eway)

(TU):

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Basic DIY

Update Output	Script starts at eWON Boot <input type="checkbox"/>	Update Autorun mode
Execute Command	goto ReadPhone	

```
Read phone number
+32 67 895 800
```

Basic script IOSend / IORcv

- Read a phone number from a Modbus PLC

14 chars at addr 1000

"+32 67 895 800"

	Tag Name	Value	New Value	Update	Description
	phone_01	11059	<input type="text" value="11059"/>	Update	[+3]
	phone_02	12832	<input type="text" value="12832"/>	Update	[2_]
	phone_03	13879	<input type="text" value="13879"/>	Update	[67]
	phone_04	8248	<input type="text" value="8248"/>	Update	[_8]
	phone_05	14645	<input type="text" value="14645"/>	Update	[95]
	phone_06	8248	<input type="text" value="8248"/>	Update	[_8]
	phone_07	12336	<input type="text" value="12336"/>	Update	[00]

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more?
Basic DIY
Basic IOSrv+
JAVA IO Server

IO Server Configuration

IO Server: **MODBUS** [Edit](#) [Clear](#) [Init](#)

MEM
EWON
MODBUS
NETMPI
SNMP
UNITE
DF1
FINS
ABLOGIX
S5-AS511
S73&400
S7200
HITACHI
MITSUFX
MELSEC
TELNET

IO Server

MPI SERIAL ETHERNET

Identification

Tag Name: Pressure

Tag Description:

I/O Server Setup

Server Name: TELNET Topic Name:

Address: PRESSURE

Type: Floating point Force Read Only: ☐

Thank You

Next ...

Talk2M