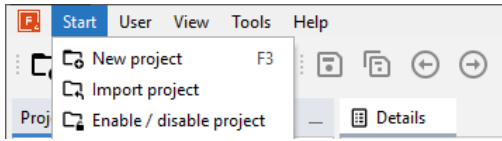
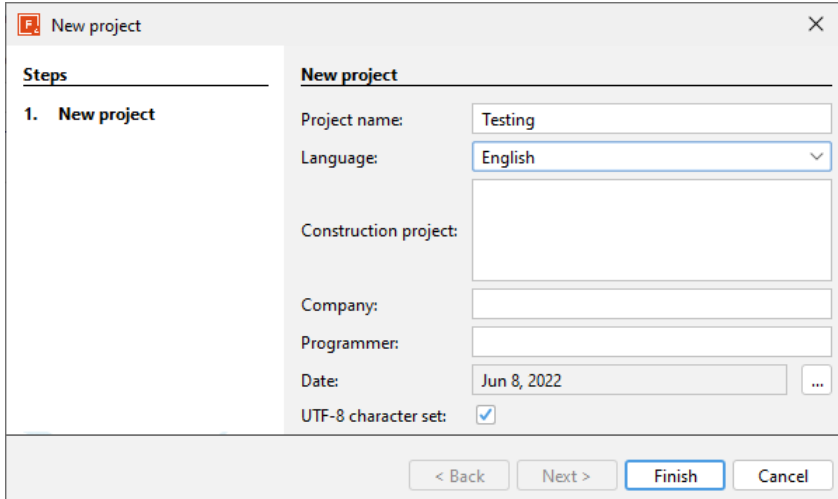


## TT221102 – OFXL - Setup a New Controller

1. Start OPEN FXL. Click “Start”, “New project”, to create a new project.



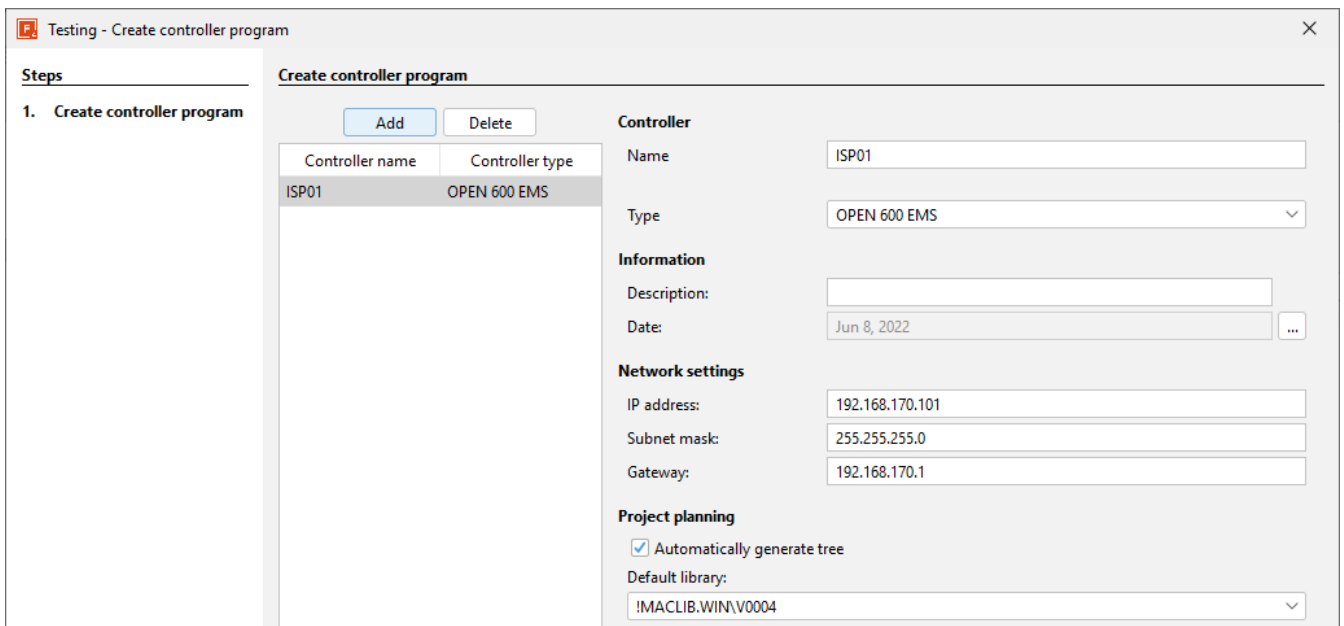
2. Type in the new project name, select language as “English” and click “Finish”.



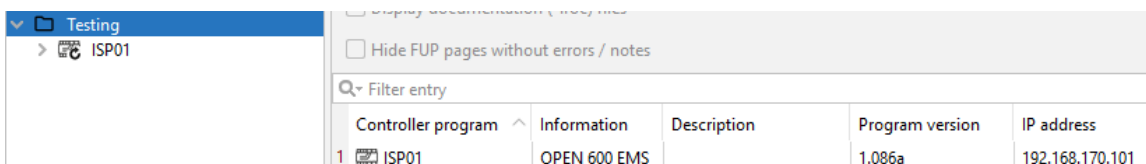
3. Click on the project. Right click, click “New”, “Controller program” to create a new controller.



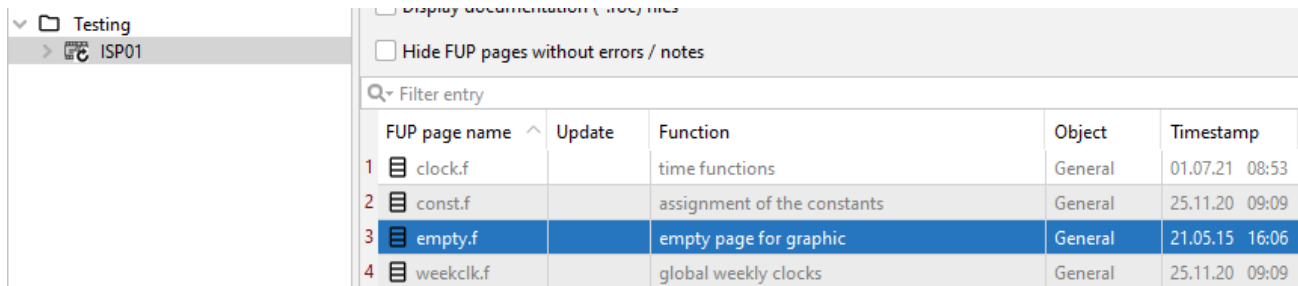
4. You can change the name, IP address, etc. for the new controller. Click “Finish” to continue.



5. Now an empty controller with the basic macros is created.

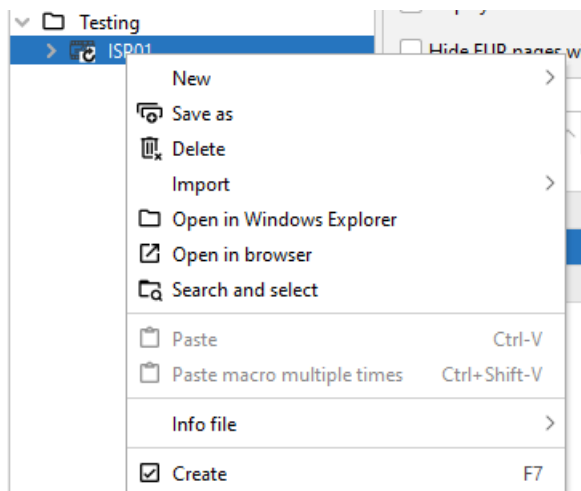


6. You can then add your programs for this controller. Please refer to the other TTs on how to create the data points, build the control logics and graphic pages. For now, we can continue with this first.

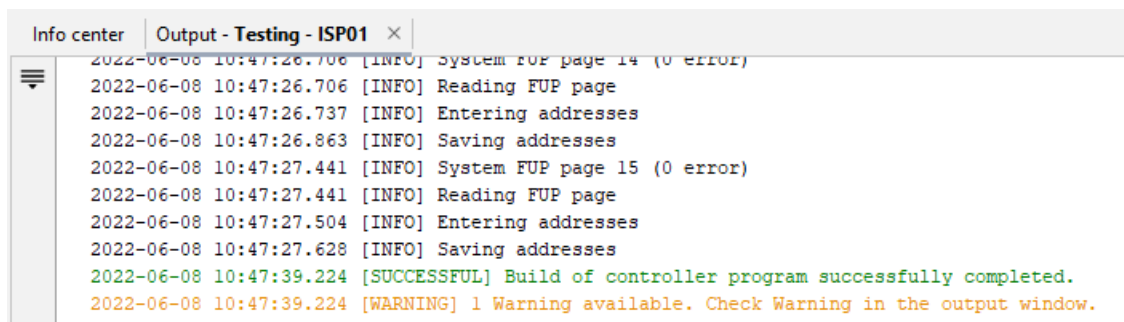


	FUP page name	Update	Function	Object	Timestamp
1	clock.f		time functions	General	01.07.21 08:53
2	const.f		assignment of the constants	General	25.11.20 09:09
3	empty.f		empty page for graphic	General	21.05.15 16:06
4	weekclk.f		global weekly clocks	General	25.11.20 09:09

7. Before loading the new controller, you must “Create” it first. Click on the controller, right click, and select “Create”.



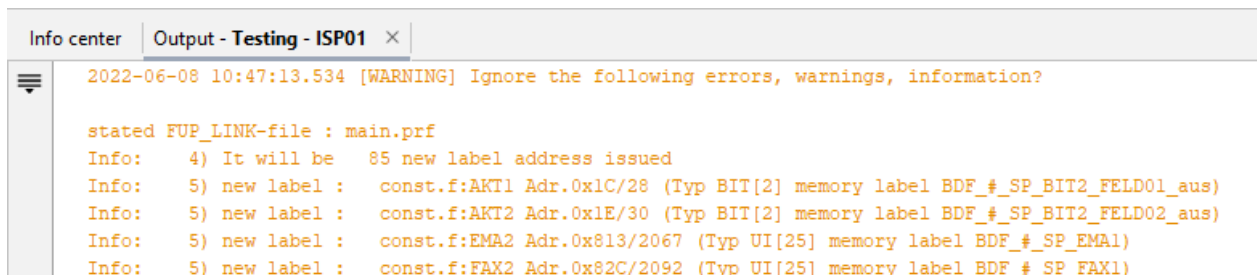
8. If “Create” finished without error, you should see the “SUCCESSFUL” messages like below.



```

2022-06-08 10:47:26.706 [INFO] System FUP page 14 (0 error)
2022-06-08 10:47:26.706 [INFO] Reading FUP page
2022-06-08 10:47:26.737 [INFO] Entering addresses
2022-06-08 10:47:26.863 [INFO] Saving addresses
2022-06-08 10:47:27.441 [INFO] System FUP page 15 (0 error)
2022-06-08 10:47:27.441 [INFO] Reading FUP page
2022-06-08 10:47:27.504 [INFO] Entering addresses
2022-06-08 10:47:27.628 [INFO] Saving addresses
2022-06-08 10:47:39.224 [SUCCESSFUL] Build of controller program successfully completed.
2022-06-08 10:47:39.224 [WARNING] 1 Warning available. Check Warning in the output window.
  
```

9. When you “Create” the controller the first time, you may also see the “WARNING” message (like above). You can check the message by scrolling up the list, and you can find some messages like below. You can just ignore them because they’re just for your information.



```

2022-06-08 10:47:13.534 [WARNING] Ignore the following errors, warnings, information?

stated FUP_LINK-file : main.prf
Info: 4) It will be 85 new label address issued
Info: 5) new label : const.f:AKT1 Adr.0x1C/28 (Typ BIT[2] memory label BDF_#_SP_BIT2_FELD01_au)
Info: 5) new label : const.f:AKT2 Adr.0x1E/30 (Typ BIT[2] memory label BDF_#_SP_BIT2_FELD02_au)
Info: 5) new label : const.f:EMA2 Adr.0x813/2067 (Typ UI[25] memory label BDF_#_SP_EMA1)
Info: 5) new label : const.f:FAX2 Adr.0x82C/2092 (Typ UI[25] memory label BDF_#_SP_FAX1)
  
```

10. The default IP address of a new controller is 192.168.170.100, and the subnet mask is 255.255.255.0. Before you load the program to the new controller, you need to setup your PC IP address to match the controller accordingly, for example

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

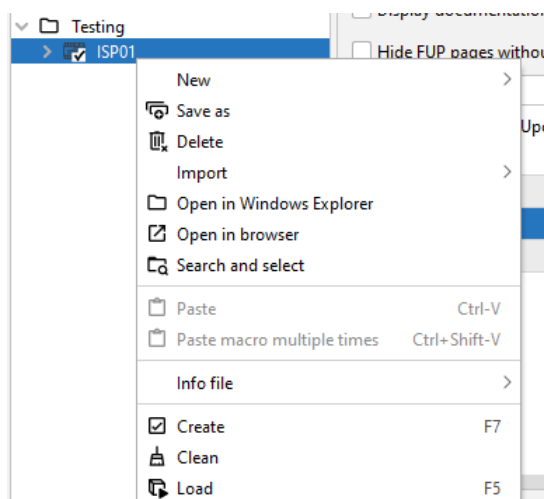
☒ Use the following IP address:

IP address: 192 . 168 . 170 . 97

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

11. To load the controller, click on the controller, right click, select “Load”.



12. Connect your controller to your PC using a network cable. If it is connected successfully, you should see the below screen with the controller information (if not, change the IP to default IP “192.168.170.100”). Tick all the options below until you see the “Load” button is enabled. Click “Load” to load the controller.

Details ISP01 - Loader

Connection settings

IP address: 192.168.170.100

Comment: Test OPEN

Project name: Testing

Controller program name: ISP01

Optimized loading in VPN: ☐ Only recommended for VPN connections, available from firmware 1.056.

Project data

	Local	OPEN EMS
Hardware	COSMOS 600 OPEN	COSMOS 600 OPEN
Version	1.086a	1.086a
IP address	192.168.170.101	192.168.170.100
project name	TESTING	A
Controller program name	ISP01	ISP01
Date of last build.	08.06.2022 11:16	08.06.2022 11:09
Programmer	DEOSHK	DEOSHK
Computername	DESKTOP-FAL9VDI	DESKTOP-FAL9VDI
Encoding	UTF-8	UTF-8
BACnet objects	0	250

Release

☒ Overwrite project data

☒ Overwrite IP address (current: 192.168.170.100 | new: 192.168.170.101)

Cancel Load

13. The load may take a long time. It may also upgrade the controller firmware to the latest version and the controller may need to restart a few times during the upgrade.
14. Wait until you see the following screen, and your controller is now loaded with the new program, and the IP is changed to 192.168.170.101.

The screenshot shows the 'ISP01 - Loader' window. On the left, under 'Connection settings', the IP address is 192.168.170.101, Comment is 'Test OPEN', Project name is 'Testing', and Controller program name is 'ISP01'. There is a checkbox for 'Optimized loading in VPN' which is unchecked. Below this is a 'Project data' table. On the right, the 'Update progress' section shows two steps: '1. Step: Controller program ISP01 Load' and '2. Step: Initialize data', both marked with green checkmarks. At the bottom, there are 'Cancel' and 'Load' buttons, and a status message: 'The OPEN EMS was successfully updated.'

Project data		
	Local	
Hardware	COSMOS 600 OPEN	COSMOS 600 OPEN
Version	1.086a	1.086a
IP address	192.168.170.101	192.168.170.101
project name	TESTING	TESTING
Controller program name	ISP01	ISP01
Date of last build.	08.06.2022 11:16	08.06.2022 11:16
Programmer	DEOSHK	DEOSHK
Computername	DESKTOP-FAL9VDI	DESKTOP-FAL9VDI
Encoding	UTF-8	UTF-8
BACnet objects	0	250

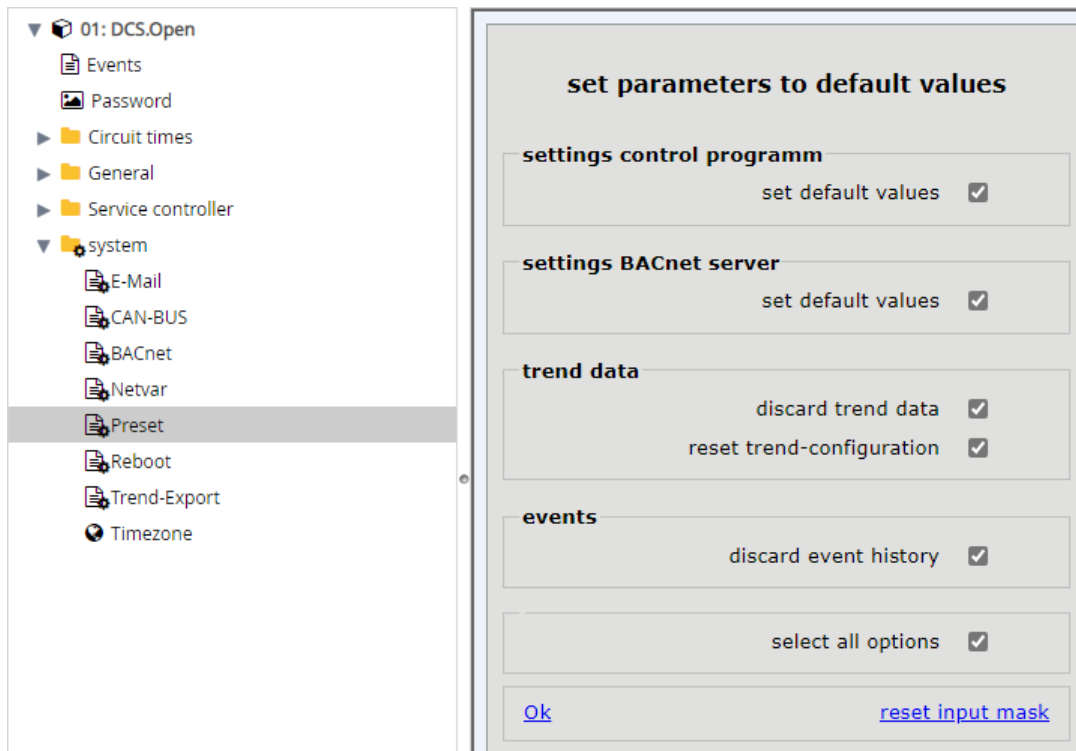
15. Now we can use a HTML5 browser to view and setup the controller, e.g. Chrome or MS Edge.
16. Start browser, and type the controller IP address. Click "Password".

The screenshot shows a web browser window with the address bar displaying '192.168.170.101/client/index.html'. The page title is 'OPENview'. On the left, there is a sidebar with '01: DCS.Open' expanded, showing 'Events' and 'Password' options. The main content area displays a login form with the text 'Please enter your password and press the button Login to sign on or change the user.' Below this is a password input field and a 'Login' button. At the bottom right, it says 'Active password no.: 0'.

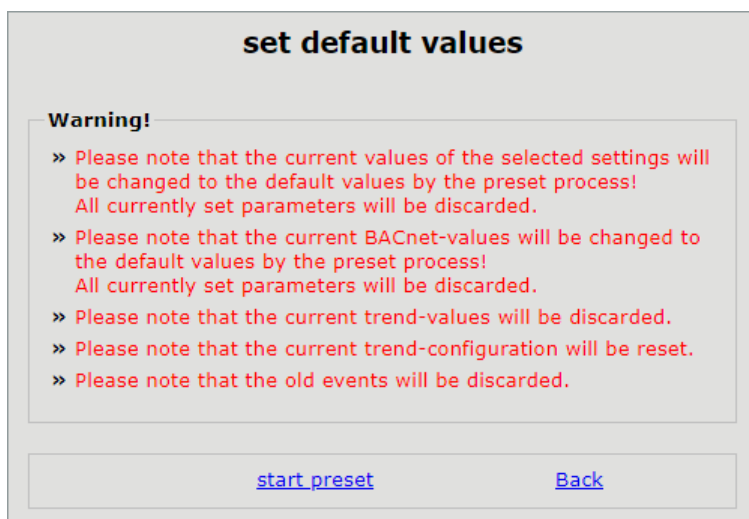
17. Type in the password, and click "Login".

This screenshot is similar to the previous one, but the password input field is now filled with dots, indicating that a password has been entered. The 'Login' button remains visible, and the 'Active password no.: 0' text is still present at the bottom right.

18. For a new controller, we want to clear all the data and set all parameters to default values we set in OPEN FXL. Click "System", "Preset". Click "Select all options" and click OK.



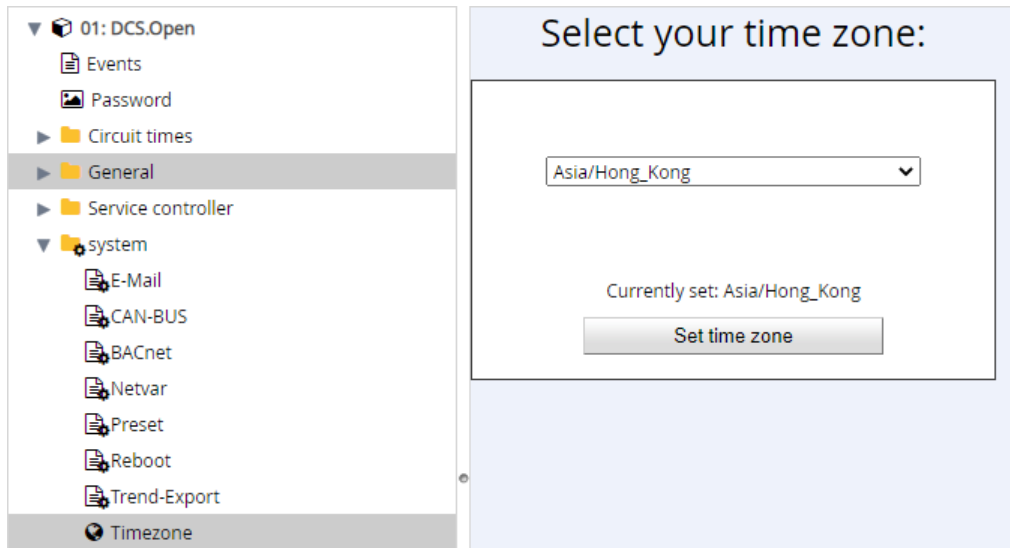
19. Click “Start Preset”, and wait for a few minutes until it finished.



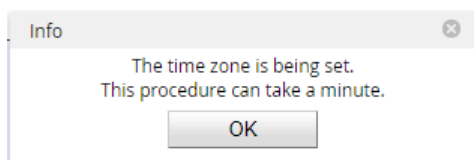
20. If you see the below screen, wait for another 1-2 minutes, click the  button to reload it.



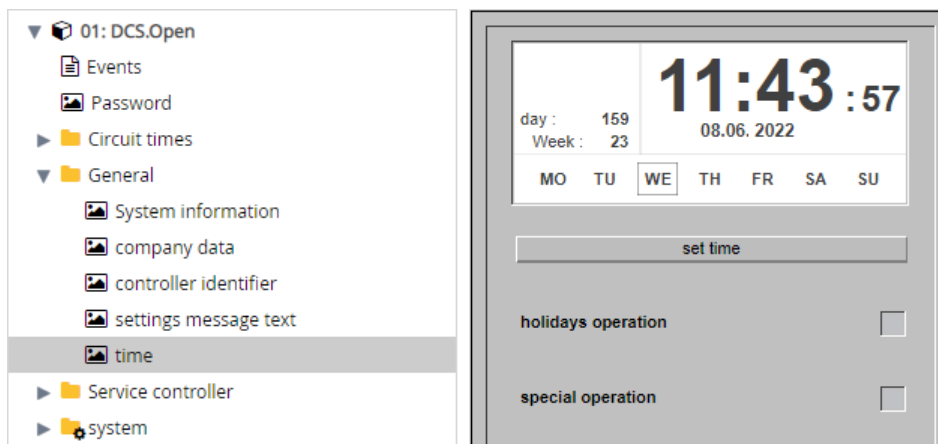
21. Now we need to set the time zone. Login the controller again, under menu “system”, click “Timezone”, select your city (or other city with the same time zone), and click “Set Time Zone”.



22. Click OK, and wait for a while, and reload the page



23. If the time zone is set correctly, the time in the controller should be correct. You can check it by clicking on “General”, “Time”



24. Sometimes the controller language is set to German. To check it, click on “Service controller”, “System”, “Service. Change back to “English” if required.

