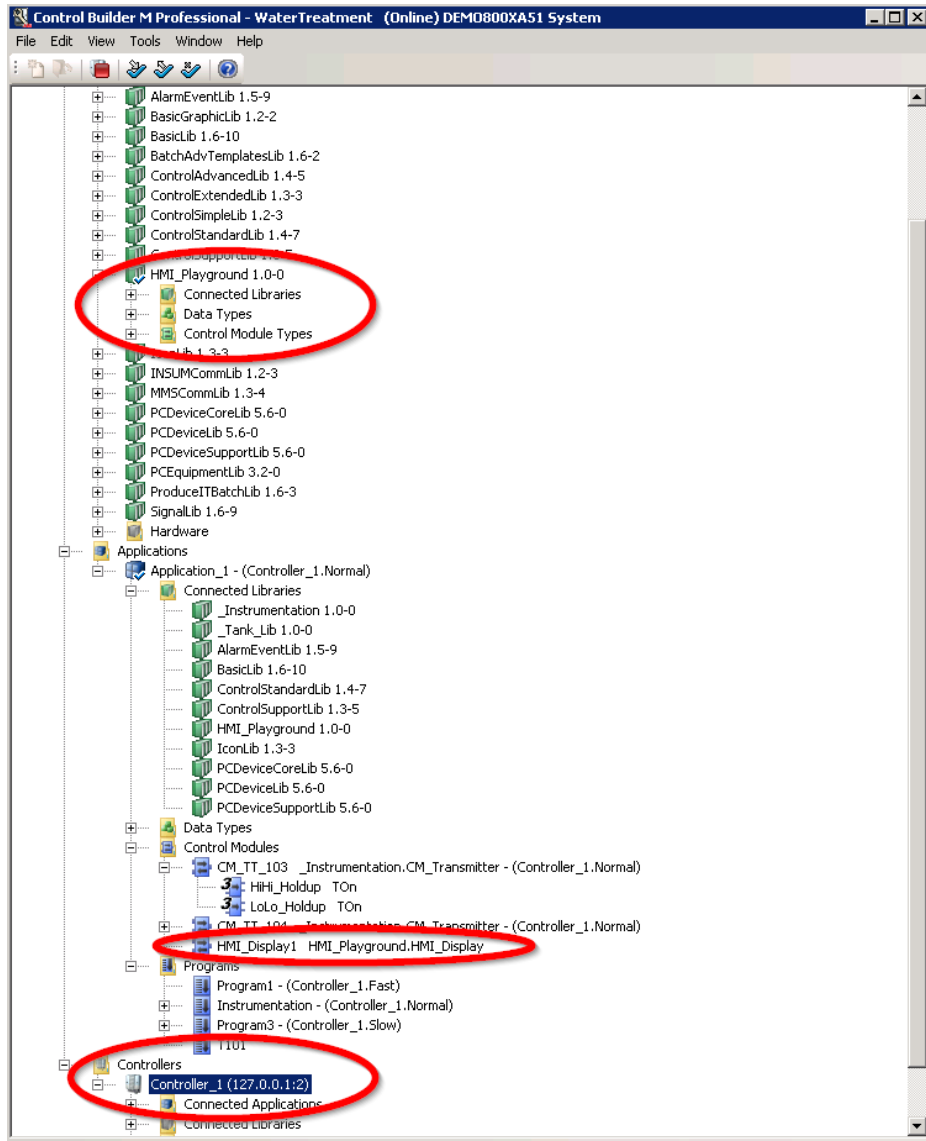


1. I created CM called "HMI\_playground" for the purpose of this test



2. Downloaded it to the soft controller and in the CBM it looks ok. The code just add 1 each cycle to Data points

The screenshot shows the HMI software interface for 'HMI\_Display1'. At the top, there is a menu bar (Editor, Edit, View, Tools, Window, Help) and a toolbar. Below this is a table with the following columns: Name, Current Value, Data Type, Variable, Attributes, Direction, Initial Value, and I/O Address.

Name	Current Value	Data Type	Variable	Attributes	Direction	Initial Value	I/O Address
Data		HMI_Data	HMI_Data		unspecified		
DataOut	6221	dint	HMI_Data.DataOut	retain		0	
DataIn	100	dint	HMI_Data.DataIn	retain		0	
DataInOut	6221	dint	HMI_Data.DataInOu	retain		0	

Below the table is a tabbed interface with 'Parameters', 'Variables', 'External Variables', and 'Function Blocks'. The 'Function Blocks' tab is active, showing the following code:

```
data.DataOut[6221] := data.DataOut[6221] + 1 ;  
data.DataInOut[6221] := data.DataInOut[6221] + 1 ;  
IF data.DataOut[6221] > 10000 THEN  
  data.DataOut[6221] := 0 ;  
END_IF  
IF data.DataInOut[6221] > 10000 THEN  
  data.DataInOut[6221] := 0 ;  
END_IF
```

A red circle highlights the code block.

### 3. Created new graphic display in the engineering workspace

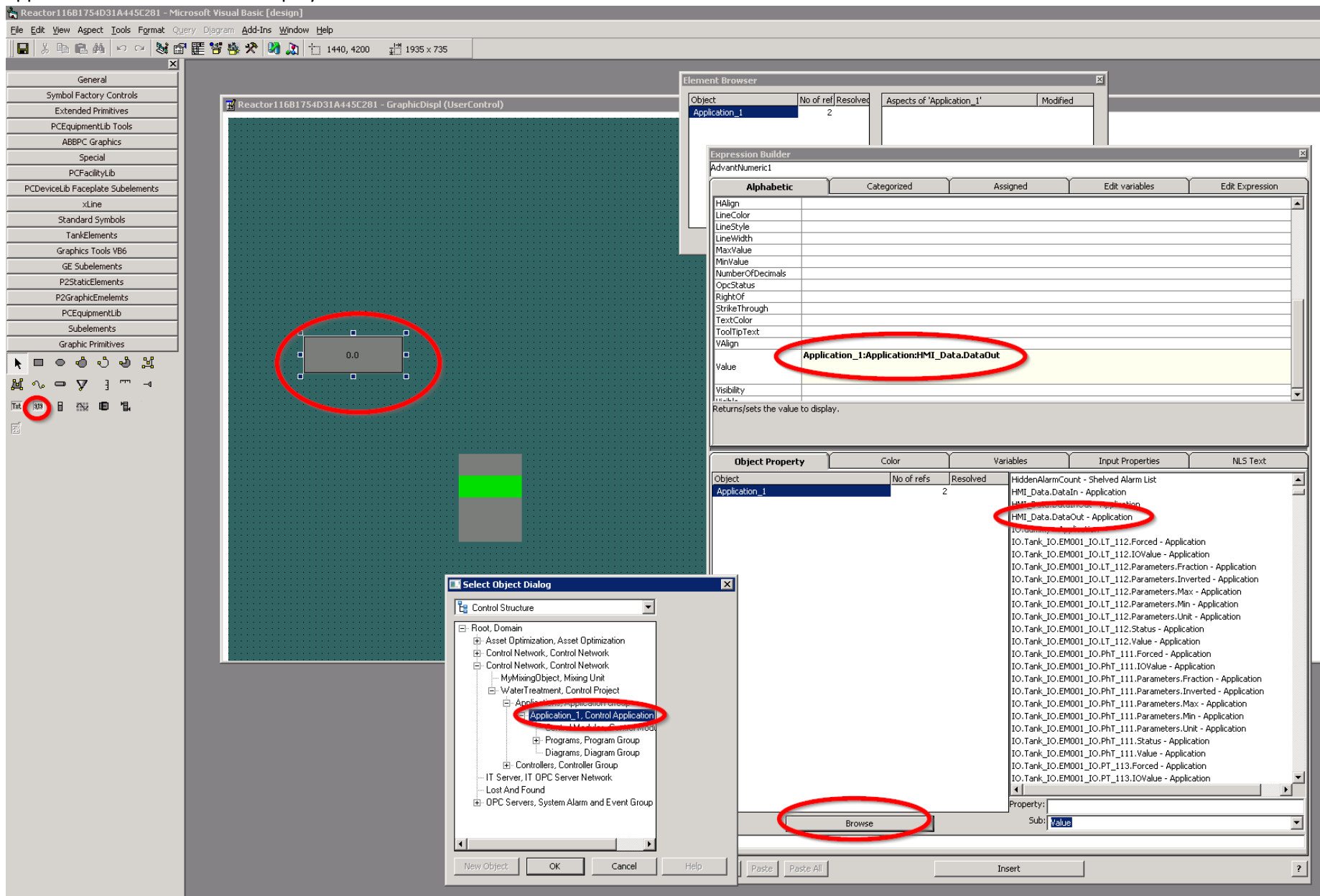
The screenshot displays the 'Engineering Workplace' interface for 'DEMO800XA51 System'. The left pane shows a 'Functional Structure' tree with nodes: Root, Domain; MyFD, Function Diagram A3 Landscape; ProductionPlant; Reactor1; Tabbed Workplace Root, Tabbed Workplace Root; Area, Display Tab; System, Alarm Tab.

The right pane shows 'Aspects of 'Reactor1'' with the following table:

Aspect Name	Modified	Modified by	Desc...	Inherited	Category name	Version
Functional structure	4/27/2016 10:55:...	DemoA	[Fun...	False	Functional Stru...	3
Graphic Display	4/27/2016 11:32:...	DemoA	Grap...	False	Graphic Display	6
Name	4/26/2016 4:38:5...	DemoA	The ...	False	Name	1

The 'Graphic Display' aspect is circled in red. Below the table, a preview window titled 'Reactor1:Graphic Display' shows a dark green background with a grey box containing '0.0' and another grey box.

4. Edited graphic. From Graphic primitives added advent numeric. From Expression builder I changed Value field and pointed it to the tag in my application. Then I saved and deployed



5. When I open the window I am not getting live values. Right click on the screen and diagnostics shows fail items. Any ideas what am I doing wrong?

The image shows a diagnostic window and an HMI display. The diagnostic window is titled "Diagnostics Window" and has three tabs: "General", "OpcData", and "Error messages". The "General" tab is active and shows a "Subscription overview" table with the following data:

Subscription overview	
Total number of items	2
Number of failed items	2
Number of bad items	0
Number of uncertain	0
Non received items	0
Number of good items	0

Below this is an "Error Message Overview" table:

Error Message Overview	
Number of VB Errors	0
Number of expression	0

At the bottom of the "General" tab is a "Workplace GUI Resources Used" table:

Workplace GUI Resources Used	
GDI objects	501
User objects	368

To the right of the "Subscription overview" table is a "Timing summary" table:

Time label	Time ms
Get File Set	18
Create SubsMan	10
Load Subscription	0
CoCreateInstance	6
InplaceActivation	0
RuntimeInit	39
End create (excl. Paint)	87
Paint start	0
First data received	0
Latest data received	247
All data received	0

Below the timing summary is a note: "Note! The time to paint and resize the graphic aspect is outside the measurement."

The HMI display window is titled "HMI\_Display1 - Application\_1.HMI\_Display1 (HMI\_Playground.HM)". It shows a variable "Data" with a current value of 2916. Below this is a "Parameters" window with the following code:

```
data.DataOut[2916] = data.DataOut[2916];
data.DataInOut[2916] = data.DataInOut[2916];
IF data.DataOut[2916] > 10000 THEN
  data.DataOut[2916] = 0;
END_IF
IF data.DataInOut[2916] > 10000 THEN
  data.DataInOut[2916] = 0;
END_IF
```

The HMI display shows a value of 0.0. The code window shows the code for the "Data" variable.