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Milk Mixing 101 / PLC_1 [CPU 1214C AC/DC/Rly] / Program blocks

Main [OB1]

Main Properties										
General										
Name	Main	Number	1	Туре	ОВ	Language	LAD			
Numbering	Automatic									
Information										
		Author		Comment		Family				
	cle)"									
Version	0.1	User-defined ID								

Main								
Name	Data type	Default value	Comment					
▼ Input								
Initial_Call	Bool		Initial call of this OB					
Remanence	Bool		=True, if remanent data are available					
Temp								
Constant								

Network 1: Starting in Auto Mode

Network 2: Checking for parameters

Network 3: Filling Tanks, T1, T2 and T3

```
%DB4
                                                               "Filling_T1_2_3"
                                                                                         %M4.0
                    "SCADA_inputs".
Stop
                                                                     TON
                                                                                      "Filling_T123_
Done"
    %M0.0
                                              %M0.1
                                                                     Time
 "Auto_Start"
                                            "Param_set"
                                                                                          · IN
                                                       T#55 —
                                                               PT
                                                                                 "Timer_ET".
__ FillingTanks_ET
"Filling_T1_2_
3".IN
 %M0.0
"Auto_Start"
                        %M0.1
                       "Param_set"
                                        "Filling_T1_2_3".Q
                                                                                      "Devices".V11
                                                                                          ⊣ ⊢
                                                               "Recipe_
Params".Flavour
                                                                                      "Devices".V12
                                                                    ==
Int
                                                               "Recipe_
Params".Flavour
                                                                                      "Devices".V13
```

Network 4: Tanks T1, T2, T3

Totally Integrated
Automation Portal

Filling_T1_2_3\Q *Filling_W1*\Q

*Recipe_
Params*.Flavour

1

*

Network 5: Filling Tank W1

```
%DB6
"Filling_W1"
                      "SCADA_inputs".
Stop
                                                 TON
                                                                                           %M4.1
"Filling_T1_2_3".Q
                                                                                      "Filling_W1_Done"
                                                                                             T#5S — PT
                                                        "Timer_ET".
ET — FillingW1_ET
 "Filling_W1".IN
      <del>|</del> | |
   "Devices".T1
                       "Filling_W1".Q
                                                                                        "Devices".V21
                            ---
                                                                                             "Devices".V22
   "Devices".T2
                       "Filling_W1".Q
      <del>|</del> | |
                                                                                            \leftarrow \succ
                            ╌
                                                                                         "Devices".V23
   "Devices".T3
                       "Filling_W1".Q
                            -//⊢
                                                                                             \leftarrow
                         "Pumping_
Timer".Q
 "Filling_W1".Q
                                                                                         "Devices".W1
```

Network 6: Mixing

Network 7: Pumping

```
%DB8
"Pumping_Timer'
                   "SCADA_inputs".
Stop
                                            TON
                                                                                  %M4.3
"Mixing_timer".Q
                                                                              "Pumping_Done"
                                        · IN
                               T#5S — PT
  "Pumping_
Timer".IN
                                                         PumpingTimer_
                      "Pumping_
Timer".Q
"Mixing_timer".Q
                                                                              "Devices".Pump
                                                                                  "Devices".V3
                                                                                  "Devices".V4
                                                                                  \prec \longrightarrow
```

Network 8: Pastorizing

Totally Integrated **Automation Portal** %DB9 "Pastorizing_ timer" **%M4.4**"Pastorizing_
Done" TON Time "Pumping_ Timer".Q "SCADA_inputs". Stop $\dashv \vdash$ \leftarrow "Recipe_ Params". Pastorizing_time ____ PT "Timer_ET". pastorizingTimer_ __ ET "Pastorizing_ timer".IN "Devices". Pastrorizer "Pastorizing_ timer".Q "Pumping_ Timer".Q **Network 9: Filler %DB10**"Filler_Timer" "Pastorizing_ timer".Q "SCADA_inputs". Stop **%M4.5** "Filler_Done" TON Time T#5S — PT "Timer_ET".
ET — FillerTimer_ET "Filler_Timer".IN \dashv \vdash "Pastorizing_ timer".Q "Filler_Timer".Q "Devices".Filler **→** → "Devices".v5 **Network 10: Move the Fork Lift %DB11**"Move_Fork" "Devices".Fork_ Lift TON "Filler_Timer".Q Time - IN T#5S — PT %MD4 ET — "MoveFork"