## Interface "graph" between object and PlcPgm

interface graphnamer
SpeedRef = 0.0
ReadyRemote = 0.0
ConvertUp = 0.0

Ap | $PlcFo.RefSpeed → StoAn | $PlcMain.RefSpeed

Dp | $PlcFo.ReadyRemote → StoDg | $PlcMain.ReadyRemote

Page Scrobject
Version = 1
Protocol = Communication, Comm. profile,

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Ap | $PlcMain.PowerUpTime → StoAg | $PowerUpTime.TimerTime
Dp | $PlcFo.PowerOn → Wait PowerUpTime | Or Out2

Normally Ready when power on startup

Dp | $PlcMain.ConvertReady → And StartUpUp

### Power starting up

StoDg | $PlcMain.PowerStartUp
Show in HMI

### Converter ready for remote control

S | $PlcMain.StatusWordSW → MaskToD Mask, out0, out4, out7, out10, out13, Sw_2 → And Ready → StoDg | $PlcFo.ReadyRemote

Sw_2
Bit 0 = Ready
Bit 4 = Switched on
Bit 7 = Enabled run
Bit 10 = Enable run remote
Bit 13 = Enabled run remote

And AlarmOk → StoDg | $PlcMain.AlarmOk

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Preset and control

Dp | $PlcFo.ReadyRemote
Dp | $PlcFo.Start → DiBMask Mask, D1, D2, D3, CW → StoIo | $PlcMain.ControlWordCW

### Interface control converter

Dp | $PlcMain.OpResp → Timer ResetTime | 1

Sw_2
Bit 0 = D1, D2, D3, D3 output = 1
Bit 3 = Mask = Reset fault command

### Converter run

S | $PlcMain.StatusWordSW → MaskToD Mask, out0, Sw_2 → StoDg | $PlcFo.Run

Sw_2
Bit 0 = Run

### IO interface converter

Use this graph instead of a new IO-Signal type

S | $PlcMain.Dis_1 → MaskToD Mask, out1, out2, out3, out4, out5, out6, IO_1_converter → StoDg | $PlcFo.Di1, $PlcFo.Di2, $PlcFo.Di3, $PlcFo.Di4, $PlcFo.Di5, $PlcFo.Di6

S | $PlcMain.StatusWordSW3 → MaskToD Mask, out3, IO_2_converter → StoDg | $PlcFo.Di8

### Alarm

Dp | $PlcMain.AlarmLocalMod
FirstScan
Dp | $PlcMain.PowerStartUp
Dp | $PlcMain.ConvertOk
Dp | $PlcMain.ConvertRemote
Dp | $PlcFo.PowerOn → Wait Wait1 | 1 → And Local

CDiscSig con → DiBug DiBugd, DiBugt DetectFirst, DiBugt Local mode...
In alarm

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Dp | $PlcMain.AlarmTripped
FirstScan
Dp | $PlcMain.AlarmOk
Dp | $PlcMain.ConvertTripped → And Tripped

CDiscSig con → DiBug DiBugd, DiBugt DetectFirst, DiBugt Tripped...
In alarm

Dp | $PlcMain.AlarmFanOld
Dp | $PlcMain.AlarmOk
S | $PlcMain.AlarmWord5 → MaskToD Mask, out0, AlarmWord5_1 → And FanOld

Bit 0 = Replace fan

CDiscSig con → DiBug DiBugd, DiBugt DetectFirst, DiBugt Replace fan...
In alarm

Dp | $PlcMain.AlarmWarning
Dp | $PlcMain.AlarmOk
Dp | $PlcMain.ConvertWarning → And Warning

CDiscSig con → DiBug DiBugd, DiBugt DetectFirst, DiBugt Warning...
In alarm

Dp | $PlcMain.AlarmError
Dp | $PlcMain.AlarmOk
Dp | $PlcMain.ConvertFault → And Error

CDiscSig con → DiBug DiBugd, DiBugt DetectFirst, DiBugt Error

S | $PlcMain.StatusWordSW → MaskToD Mask, out1, out2, out3, out4, out7, out8, out10, Sw_2 → StoDg | $PlcMain.ConvertReady, $PlcMain.ConvertRun, $PlcMain.ConvertTripped, $PlcMain.ConvertFault, $PlcMain.ConvertWarning, $PlcMain.ConvertRemote

### Status, HMI

Show converter status in HMI

Or Out1, Out3 → And Yellow → StoDg | $PlcMain.InvWarning
Blinks when 0.1HM
Yellow = Warning

StoDg | $PlcMain.InvError

Sw_2
Bit 1 = Ready
Bit 3 = Switched on
Bit 8 = Remote run enabled
Bit 10 = Remote run

Page Scrobject
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Dp | $PlcMain.OpResPar → Timer Timer1 | 0.1
Dp | $PlcMain.OpWritePar → Timer Timer2 | 0.1
Dp | $PlcMain.OpBackupPar → Timer Timer3 | 0.1

Ip | $PlcMain.RequestPar
Ip | $PlcMain.WriteValuePar
X | $PlcMain.InsPar
X | $PlcMain.InsPar
X | $PlcMain.InValuePar

→ CAdbIo

In1, In2, In3, In4, In5, In6, In7, In8, In9, In10, In11, In12, In13, In14, In15, In16
Out1, Out2, Out3, Out4, Out5, Out6, Out7, Out8, Out9, Out10, Out11, Out12, Out13, Out14, Out15, Out16
Parameter

Out9 → StoIo | $PlcMain.OutInPar
Out10 → StoIo | $PlcMain.OutInPar
Out11 → StoIo | $PlcMain.OutValuePar
Out12 → StoIp | $PlcMain.ReadValuePar
Out13 → StoIp | $PlcMain.ReadCabelPar
Out14 → StoIp | $PlcMain.ReadCabelSubPar

Request and transmitting data to the client
Write value to the client, Insert data to the client, Response to master
Read value from client, Read cabel from client
Cabel 1 or 2

**NB!**
**The attribute below must always placed last in this PlcPgm.**

RestOp | $PlcMain.OpReset
RestOp | $PlcMain.OpWritePar
RestOp | $PlcMain.OpResPar
RestOp | $PlcMain.OpBackupPar

Page Scrobject
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|---|---|---|---|
| W | | | |
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