PLC_1 [CPU 1511-1 PN]

PLC_1					
General\Project information					
Name	PLC_1	**Author**	i72014	**Comment**	
Rack	0	**Slot**	1		
General\Catalog information					
Short designation	CPU 1511-1 PN	**Description**	CPU with display; work memory 150 KB code and 1 MB data; 60 ns bit operation time; 4-stage protection concept, integrated technology functions: Motion Control, closed-loop control, counting&measuring; integrated tracing; PROFINET IO controller, supports RT/IRT, 2 ports, MRP, transport protocol TCP/IP, S7 communication, Web server, constant bus cycle time, routing; firmware V1.8	**Article number**	6ES7 511-1AK00-0AB0
Firmware version	V1.8		False		
General\Identification & Maintenance					
Plant designation		**Location identifier**		**Installation date**	2016-04-07 13:20:53.143
Additional information					

Connection resources\				
	Station resources - Reserved - Maximum	**Station resources - Reserved - Configured**	**Station resources - Dynamic - Configured**	**Module resources - PLC_1 [CPU 1511-1 PN] - Configured**
Maximum number of resources:		10	54	64
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	1	0	1
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
Other communication:	-	-	0	0
Total resources used:		1	0	1
Available resources:		9	54	63

Overview of addresses\Overview of addresses\Overview of addresses					
Inputs	True	**Outputs**	True	**Address gaps**	False
Slot	True				

Type	Addr. from	Addr. to	Module	PIP	OB	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	15	AI 8xU/I/RTD/TC ST_1	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	2
I	16	31	AI 8xU/I/RTD/TC ST_2	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	3
I	32	47	AI 8xU/I/RTD/TC ST_3	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	4
I	48	63	AI 8xU/I/RTD/TC ST_4	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	5
I	512	513	DI 16x24VDC BA_1	None	-	PLC_1 [CPU 1511-1 PN]	-	2 Bytes	-	0	6

PLC_1 [CPU 1511-1 PN] / Program blocks

MHJ-PLC-Lab-Function-S71500 [FC9000]

MHJ-PLC-Lab-Function-S71500 Properties							
General							
Name	MHJ-PLC-Lab-Function-S71500	**Number**	9000	**Type**	FC	**Language**	SCL
Numbering	Manual						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
Value	Byte	
ForCounter	Int	
▼ Constant		
Value_01_DW	DWord	16#1223_5486
Value_02_DW	DWord	16#A6C9_D1F5
▼ Return		
MHJ-PLC-Lab-Function-S71500	Void	

```
0001
0002 #Value:=PEEK(area := 16#82,
0003    dbNumber := 0,
0004    byteOffset := 511);
0005 #Value := #Value + 1;
0006
0007 POKE(area := 16#82,
0008    dbNumber := 0,
0009    byteOffset := 511,
0010    value := #Value);
0011
0012 POKE(area := 16#82,
0013    dbNumber := 0,
0014    byteOffset := 1016,
0015    value := #Value_01_DW);
0016 POKE(area := 16#82,
0017    dbNumber := 0,
0018    byteOffset := 1020,
0019    value := #Value_02_DW);
0020
0021 FOR #ForCounter := 0 TO 63 DO
0022   #Value:=PEEK(area := 16#1,
0023      dbNumber := 0,
0024      byteOffset := #ForCounter);
0025   POKE(area := 16#81,
0026      dbNumber := 0,
0027      byteOffset := #ForCounter,
0028      value := #Value);
0029 END_FOR;
0030 #Value := PEEK(area := 16#1,
0031          dbNumber := 0,
0032          byteOffset := 512);
0033 POKE(area := 16#82,
0034    dbNumber := 0,
0035    byteOffset := 512,
0036    value := #Value);
0037
0038
```

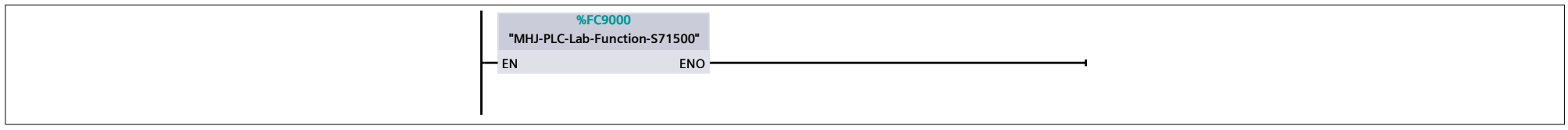
PLC_1 [CPU 1511-1 PN] / Program blocks

Main [OB1]

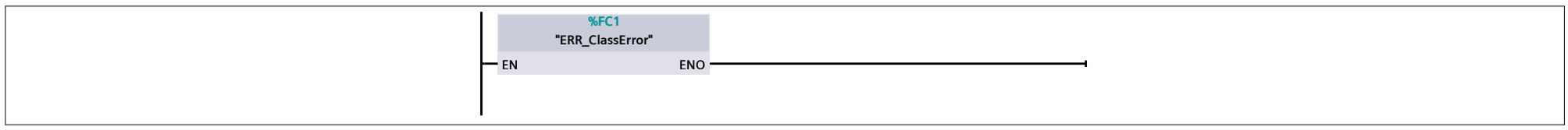
Main Properties							
General							
Name	Main	**Number**	1	**Type**	OB	**Language**	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Initial_Call	Bool	
Remanence	Bool	
Temp		
Constant		

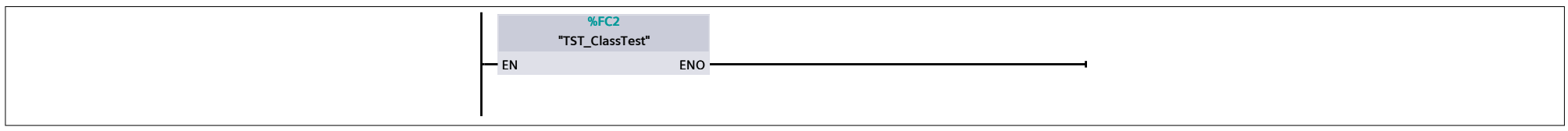
Network 1: Connection of PLC with FactoryIO



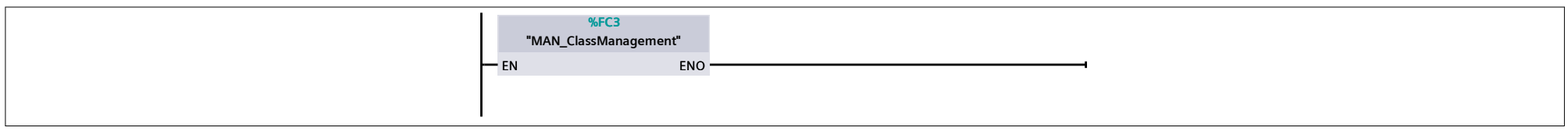
Network 2: Call: ClassError



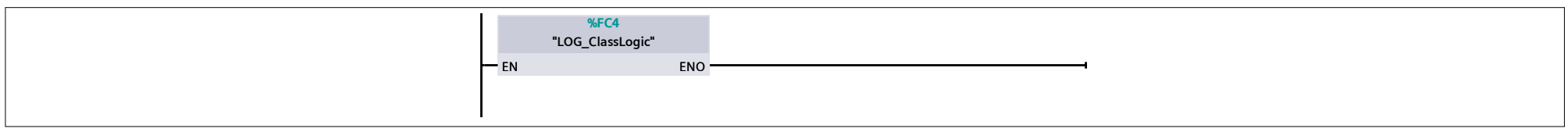
Network 3: Call: ClassTest



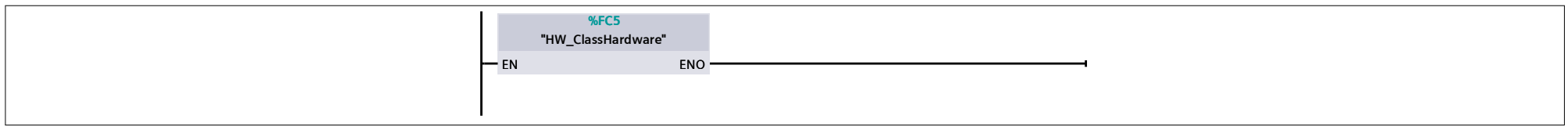
Network 4:



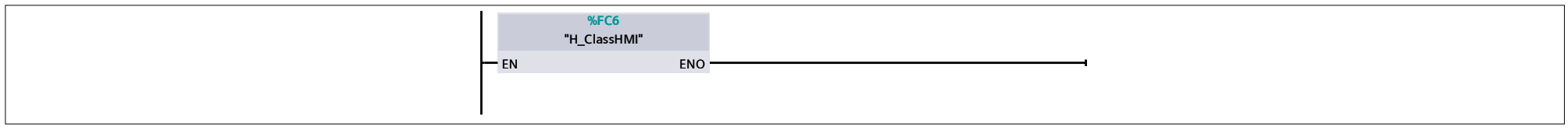
Network 5: Call: ClassLogic



Network 6: Call: ClassHardware



Network 7: Call: ClassHMI



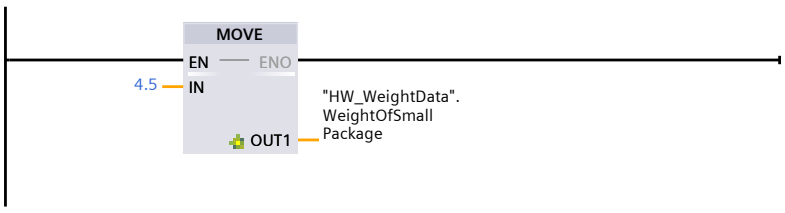
PLC_1 [CPU 1511-1 PN] / Program blocks

Startup [OB100]

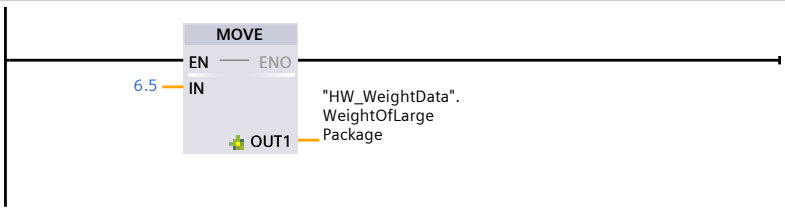
Startup Properties							
General							
Name	Startup	**Number**	100	**Type**	OB	**Language**	LAD
Numbering	Automatic						
Information							
Title	"Complete Restart"	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
LostRetentive	Bool	
LostRTC	Bool	
Temp		
Constant		

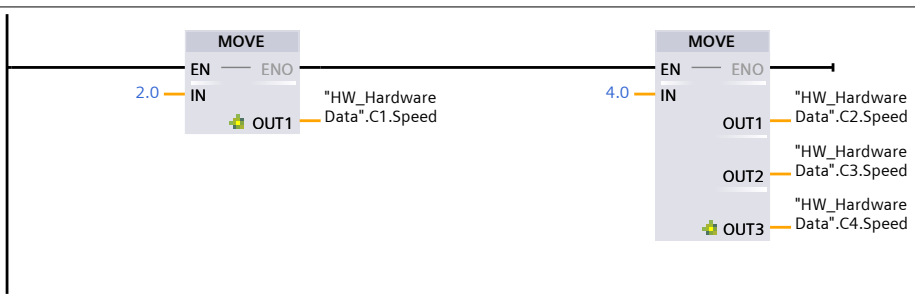
Network 1: Move: WeightOfSmallPackage



Network 2: Move: WeightOfLargelPackage



Network 3: Move: C1,C2,C3,C4 - Speed



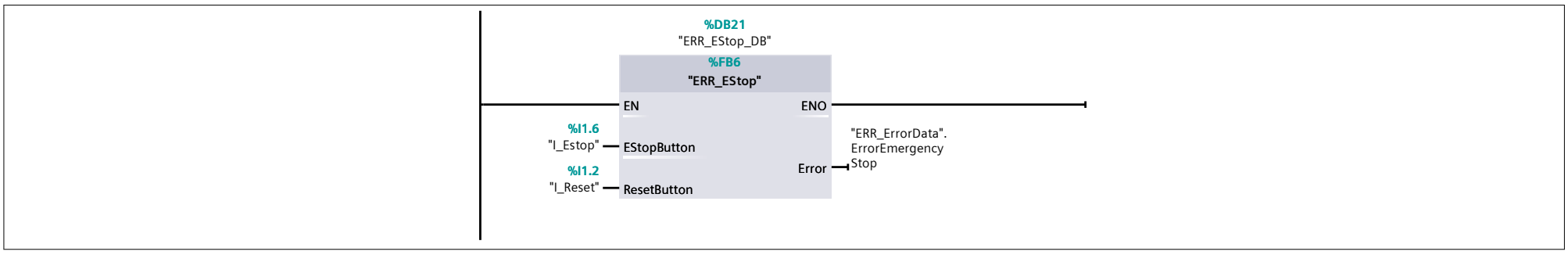
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_ClassError [FC1]

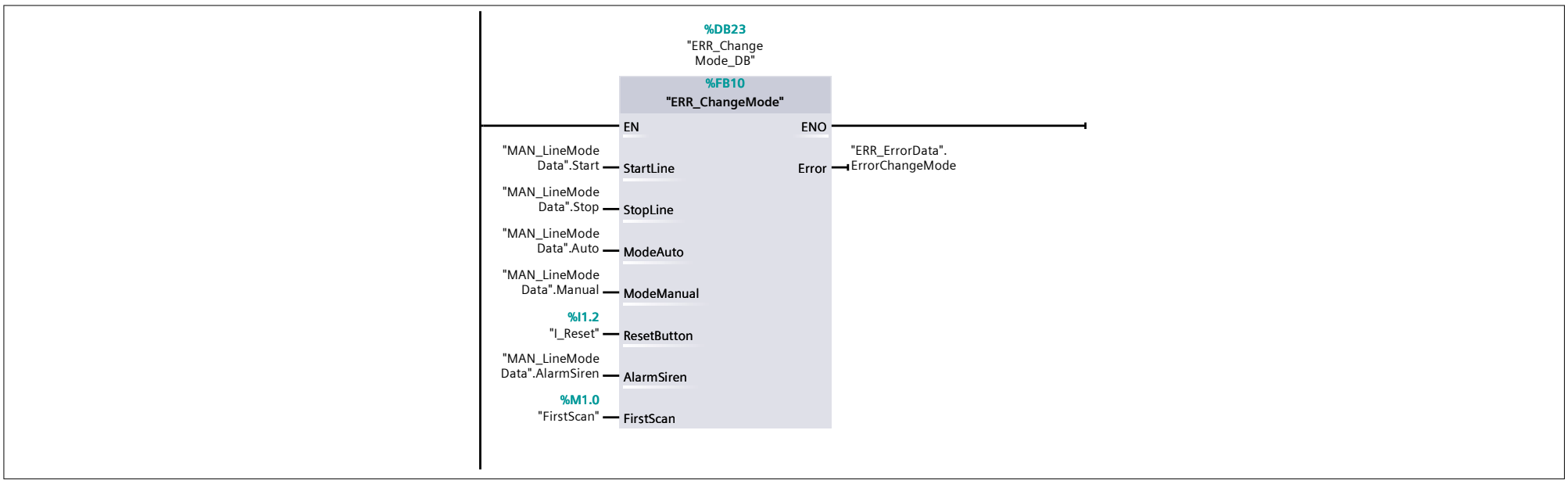
ERR_ClassError Properties							
General							
Name	ERR_ClassError	**Number**	1	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ClassError	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
ERR_ClassError	Void	

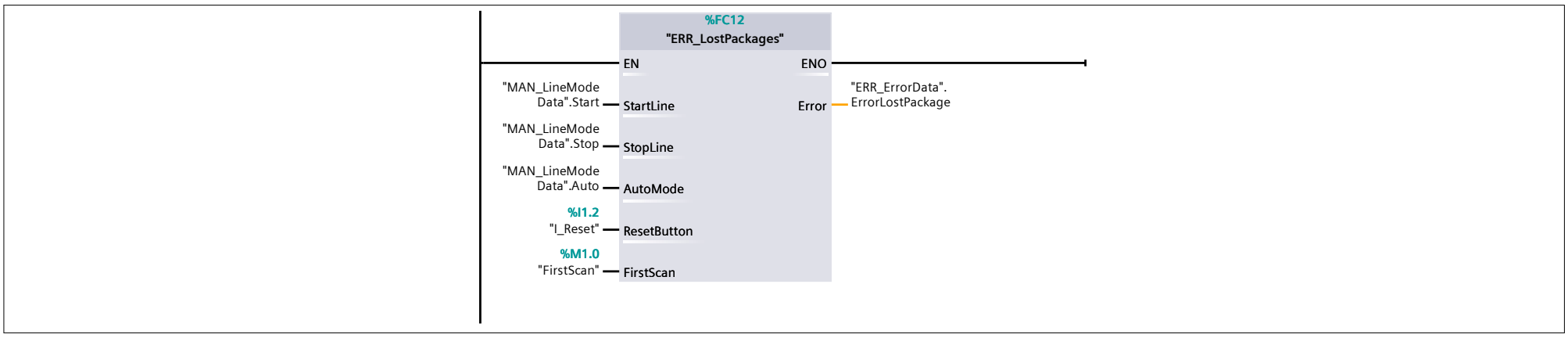
Network 1: Call: EStop



Network 2: Call: ChangeMode

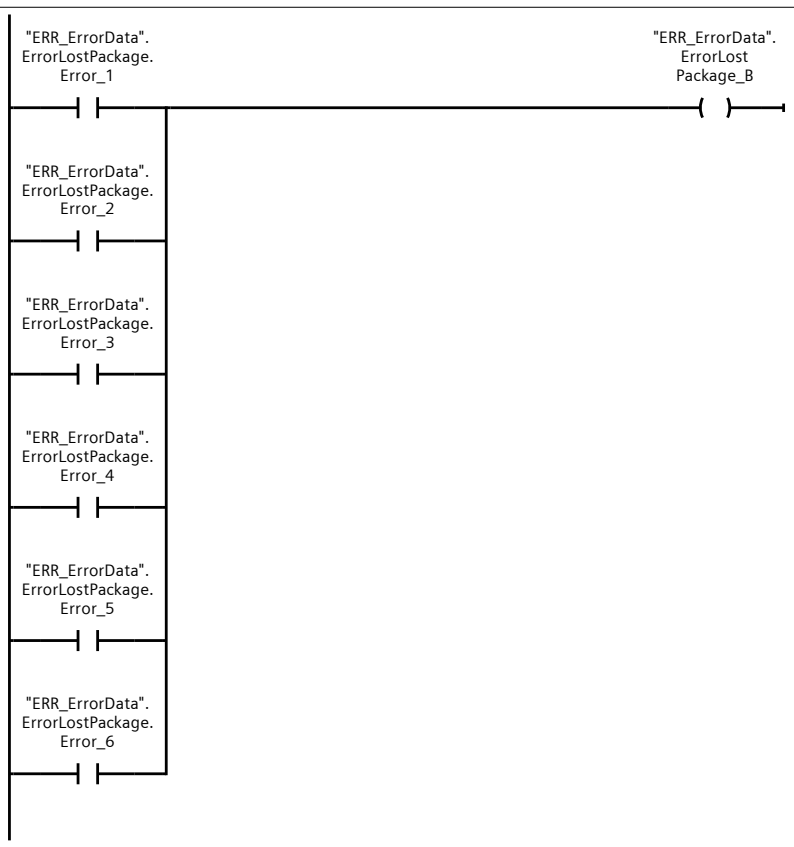


Network 3: Call: LostPackages



Network 4: GlobalError

Network 5: ErrorLostPackage_B



PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_ErrorData [DB27]

ERR_ErrorData Properties							
General							
Name	ERR_ErrorData	**Number**	27	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
ErrorChangeMode	Bool	false	False
ErrorEmergencyStop	Bool	false	False
ErrorLostPackage_B	Bool	false	False
ErrorLostPackage	"stt_LostPackageError"		False

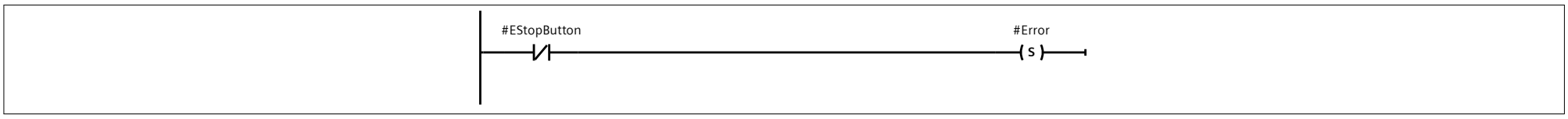
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_EStop [FB6]

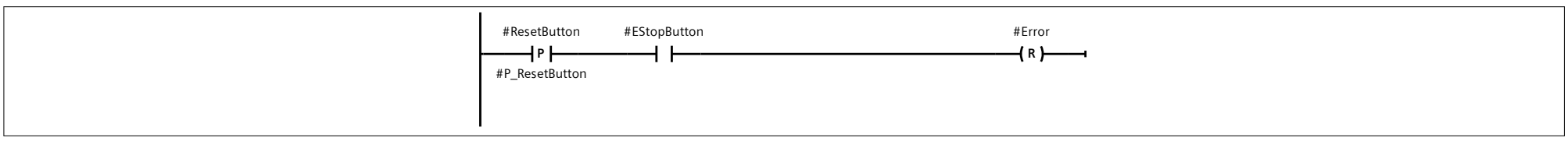
ERR_EStop Properties							
General							
Name	ERR_EStop	**Number**	6	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	EStop	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
EStopButton	Bool	false	Non-retain
ResetButton	Bool	false	Non-retain
▼ Output			
Error	Bool	false	Non-retain
InOut			
▼ Static			
P_ResetButton	Bool	false	Non-retain
Temp			
Constant			

Network 1: Set



Network 2: Reset



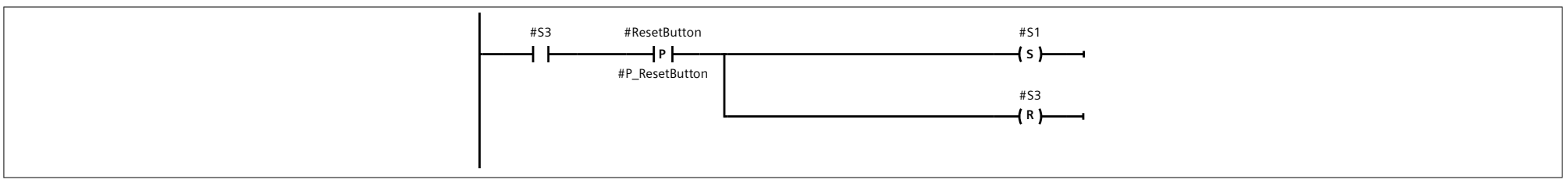
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_LostPackage [FB12]

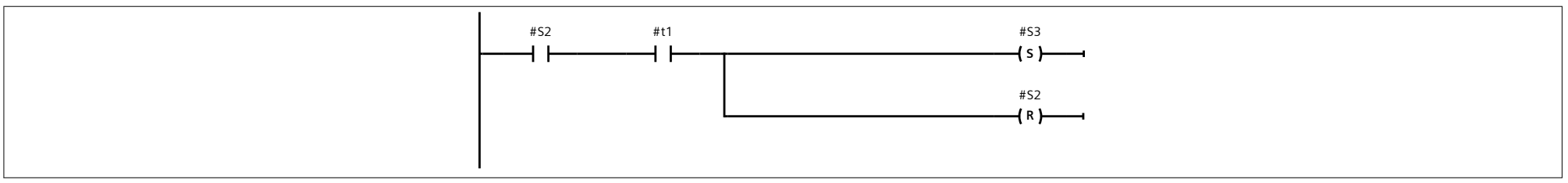
ERR_LostPackage Properties							
General							
Name	ERR_LostPackage	**Number**	12	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	Lost Package - Sequential algorithm	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
StartLine	Bool	false	Non-retain
StopLine	Bool	false	Non-retain
AutoMode	Bool	false	Non-retain
ResetButton	Bool	false	Non-retain
Di	Bool	false	Non-retain
Dj	Bool	false	Non-retain
FirstScan	Bool	false	Non-retain
Time	Time	T#0ms	Non-retain
▼ Output			
Error	Bool	false	Non-retain
InOut			
▼ Static			
S1	Bool	false	Non-retain
S2	Bool	false	Non-retain
S3	Bool	false	Non-retain
t1	Bool	false	Non-retain
P_ResetButton	Bool	false	Non-retain
IEC_Timer_0_Instance	TON_TIME		Non-retain
Temp			
Constant			

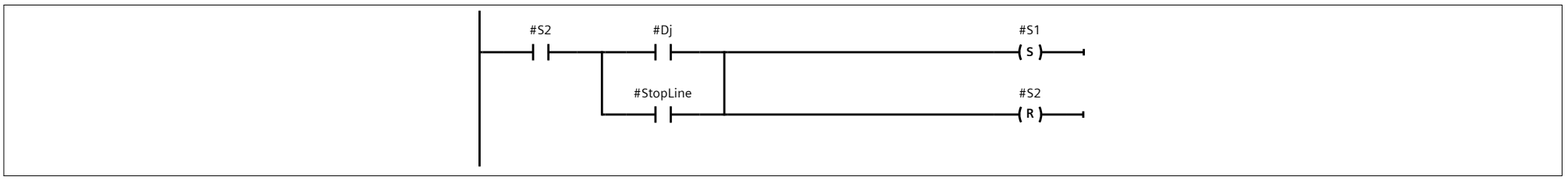
Network 1: Step 3-1



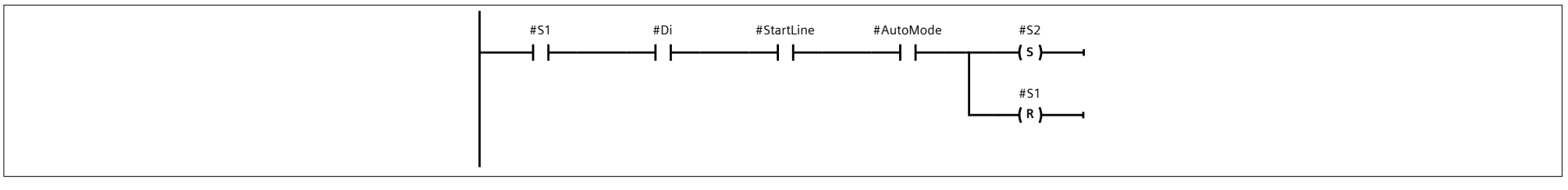
Network 2: Step 2-3



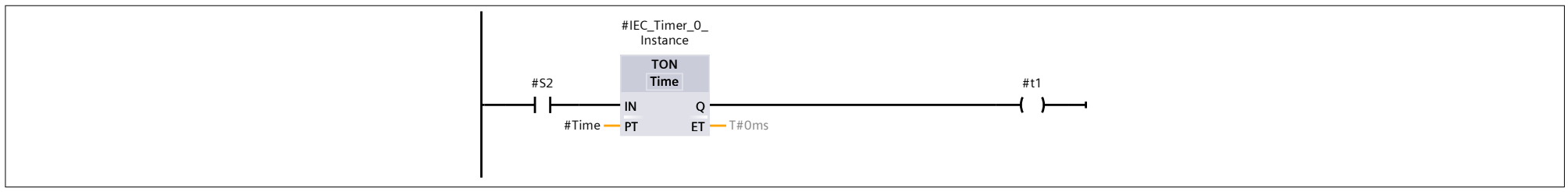
Network 3: Step 2-1



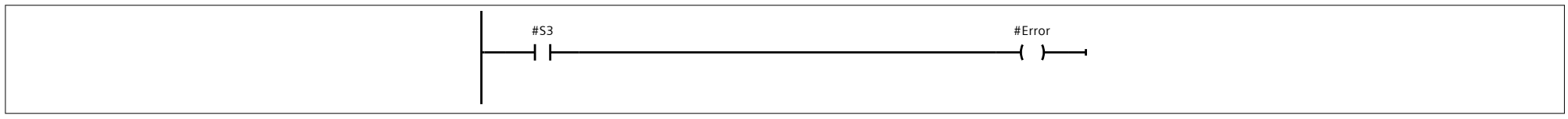
Network 4: Step 1-2



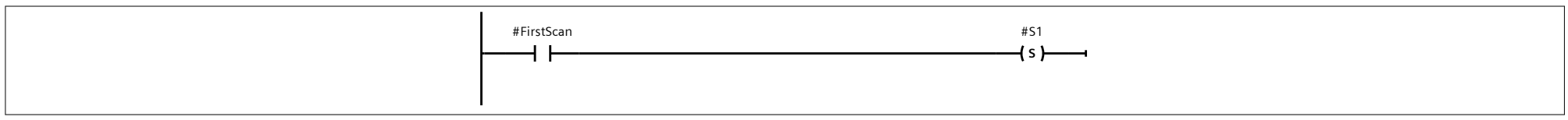
Network 5: Output Step 2



Network 6: Output Step 3



Network 7: First Scan



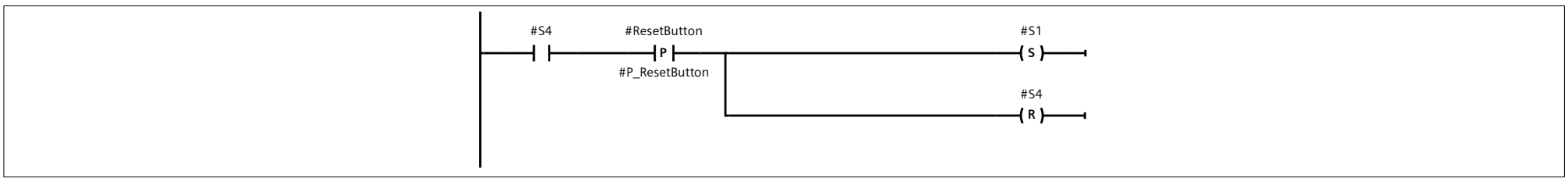
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_ChangeMode [FB10]

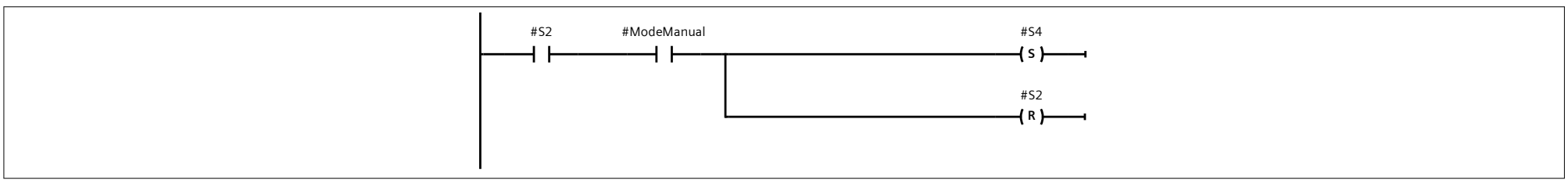
ERR_ChangeMode Properties							
General							
Name	ERR_ChangeMode	**Number**	10	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	ChangeMode - Sequential algorithm	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
StartLine	Bool	false	Non-retain
StopLine	Bool	false	Non-retain
ModeAuto	Bool	false	Non-retain
ModeManual	Bool	false	Non-retain
ResetButton	Bool	false	Non-retain
AlarmSiren	Bool	false	Non-retain
FirstScan	Bool	false	Non-retain
▼ Output			
Error	Bool	false	Non-retain
InOut			
▼ Static			
S1	Bool	false	Non-retain
S2	Bool	false	Non-retain
S3	Bool	false	Non-retain
S4	Bool	false	Non-retain
S5	Bool	false	Non-retain
P_ResetButton	Bool	false	Non-retain
Temp			
Constant			

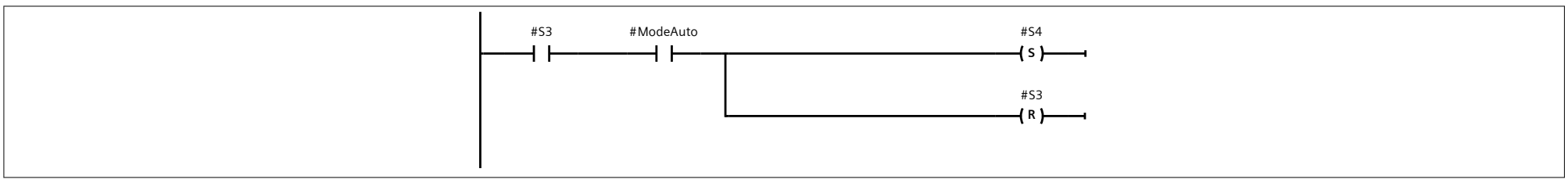
Network 1: Step 4-1



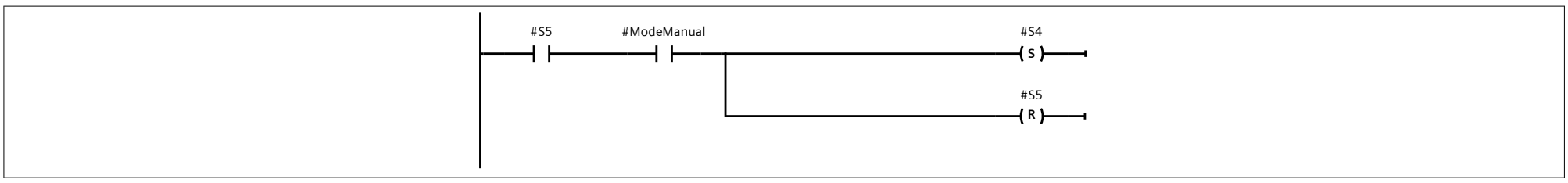
Network 2: Step 2-4



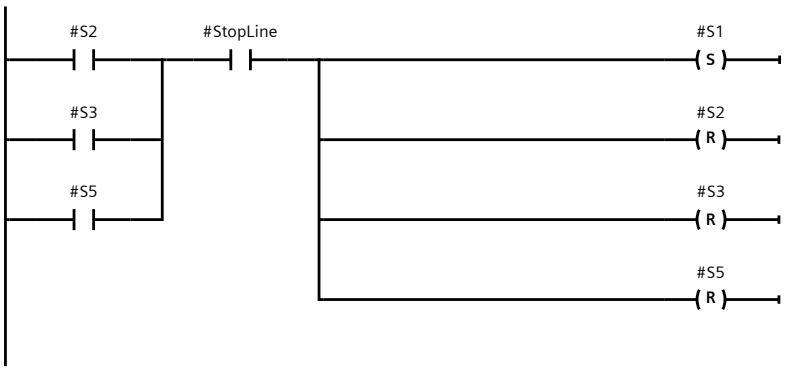
Network 3: Step 3-4



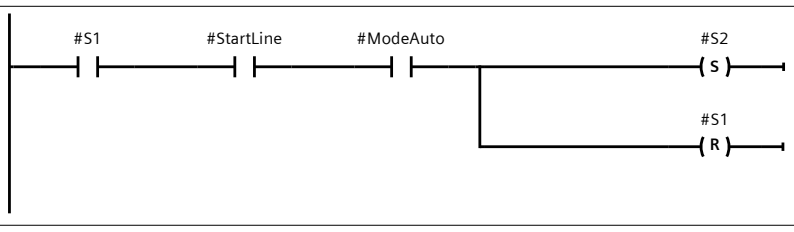
Network 4: Step 5-4



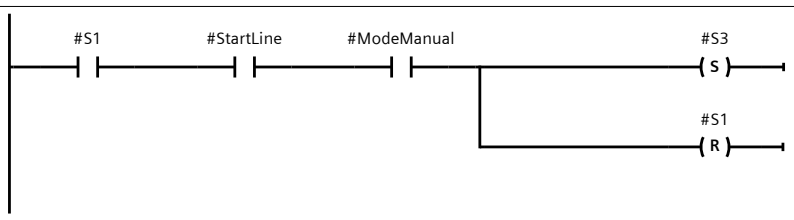
Network 5: Step 2,3,5 - 1



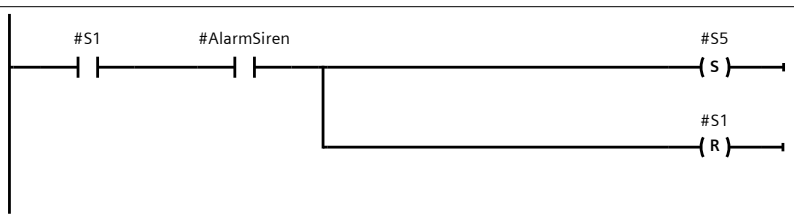
Network 6: Step 1-2



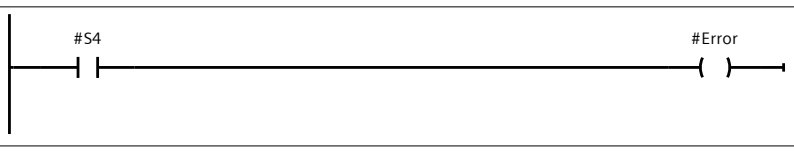
Network 7: Step 1-3



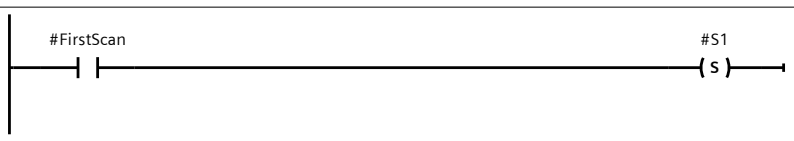
Network 8: Step 1-5



Network 9: Step 4 output



Network 10: FirstScan



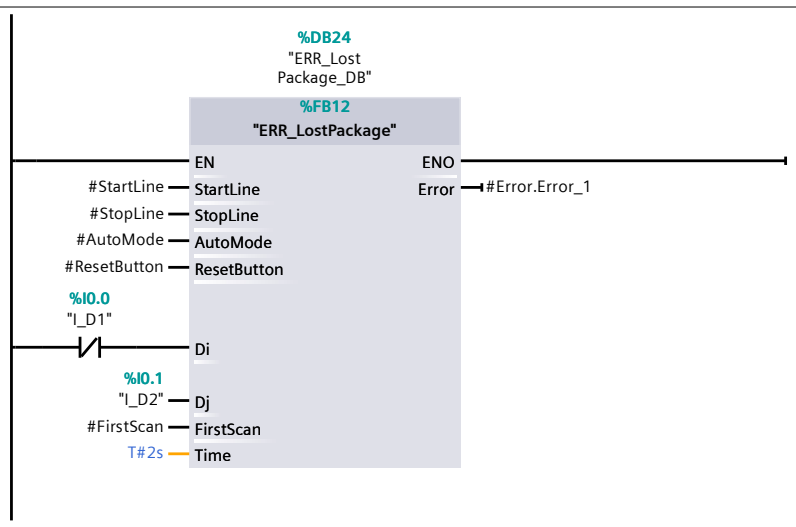
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_LostPackages [FC12]

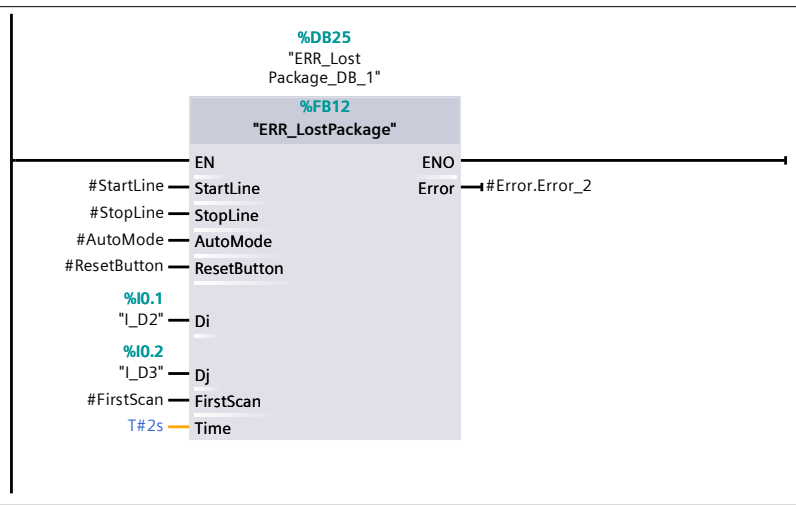
ERR_LostPackages Properties							
General							
Name	ERR_LostPackages	**Number**	12	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	LostPackages	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
StartLine	Bool	
StopLine	Bool	
AutoMode	Bool	
ResetButton	Bool	
FirstScan	Bool	
▼ Output		
Error	"stt_LostPackageError"	
InOut		
Temp		
Constant		
▼ Return		
ERR_LostPackages	Void	

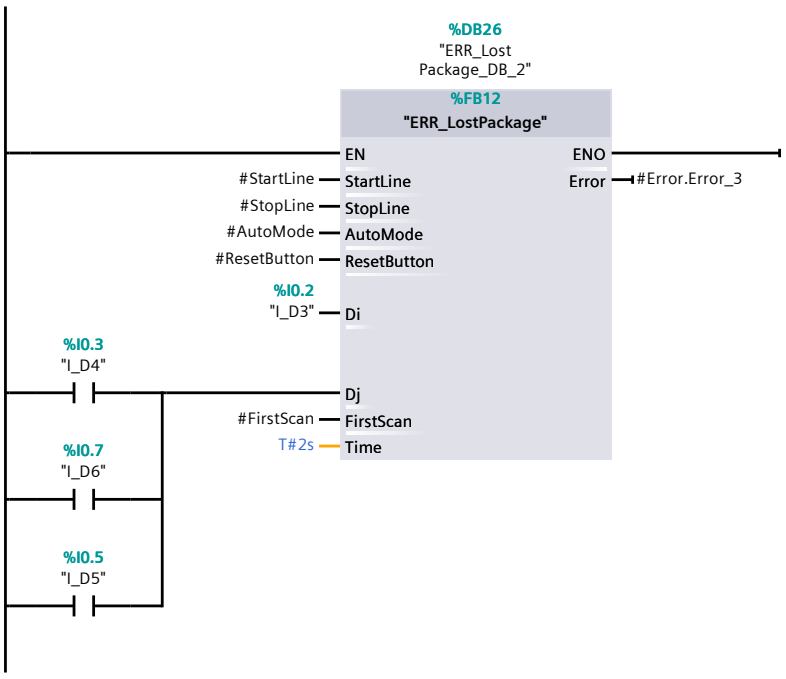
Network 1: Call: LostPackage - error 1



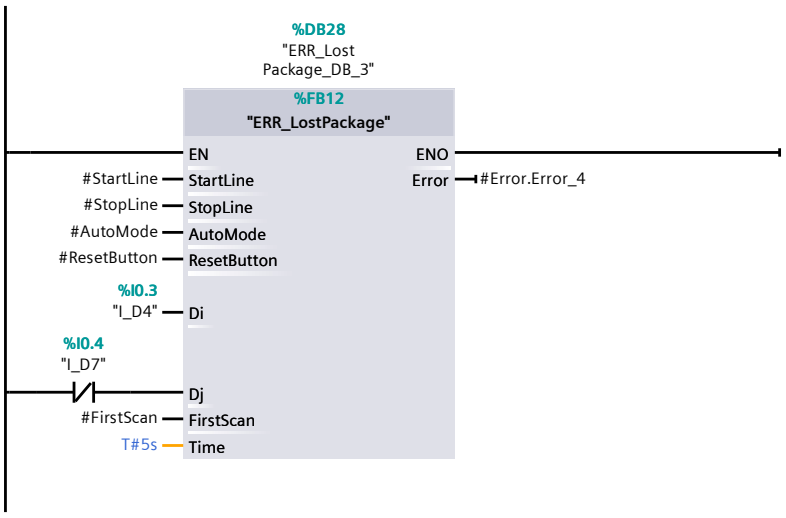
Network 2: Call: LostPackage - error 2



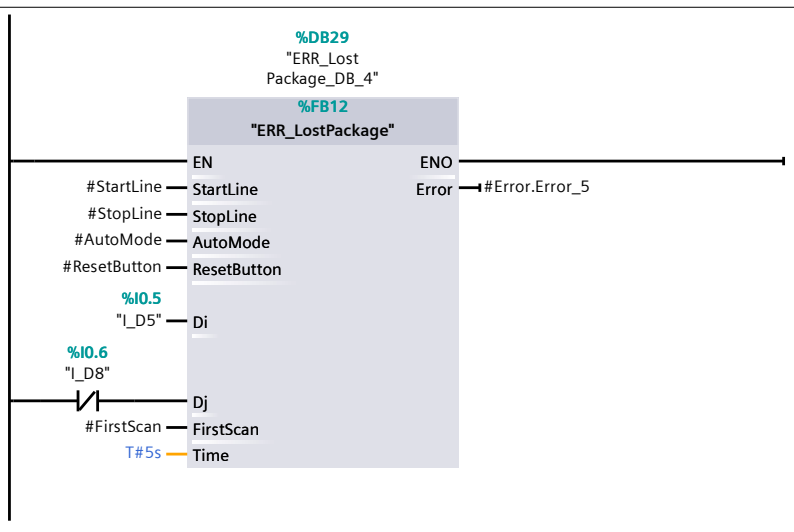
Network 3: Call: LostPackage - error 3



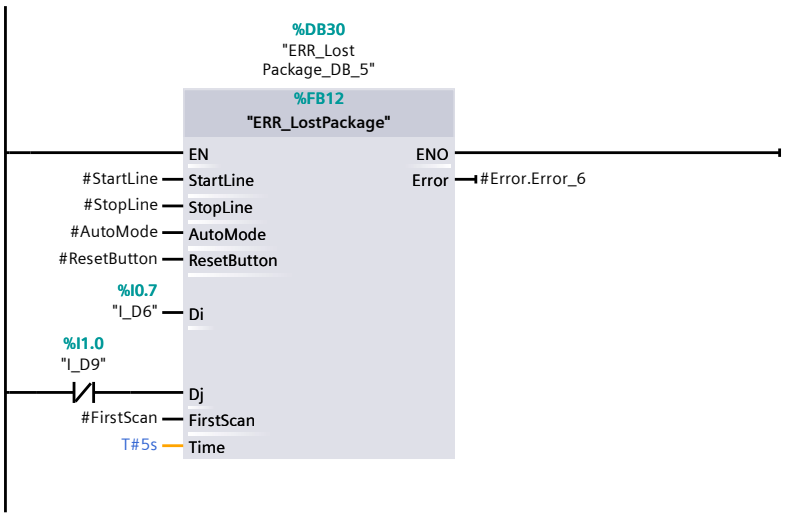
Network 4: Call: LostPackage - error 4



Network 5: Call: LostPackage - error 5



Network 6: Call: LostPackage - error 6



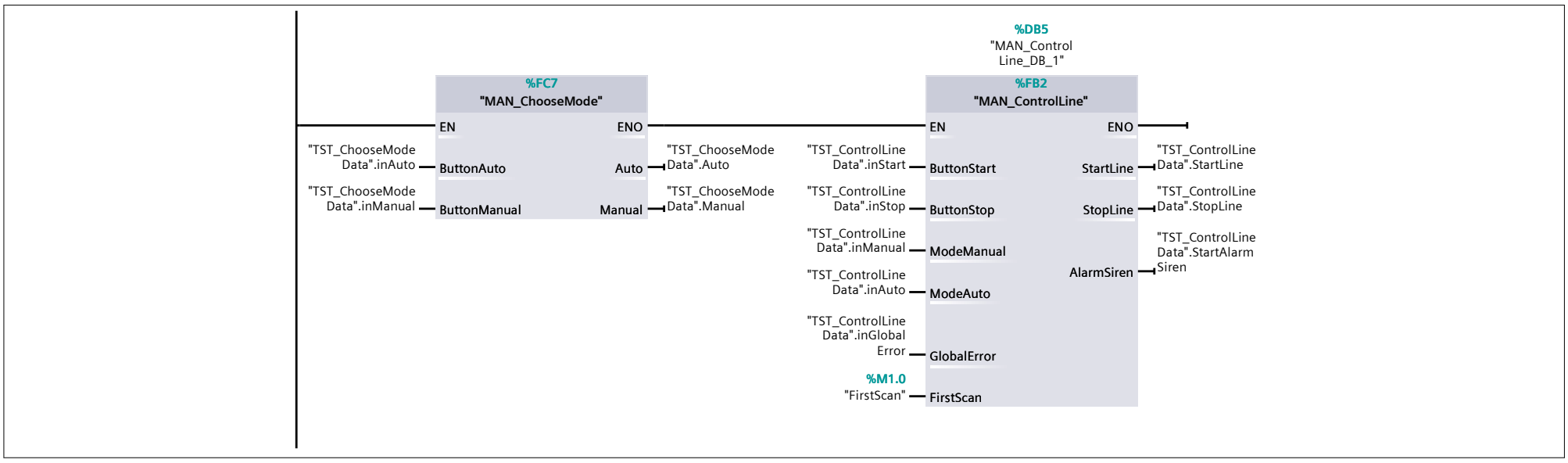
PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_ClassTest [FC2]

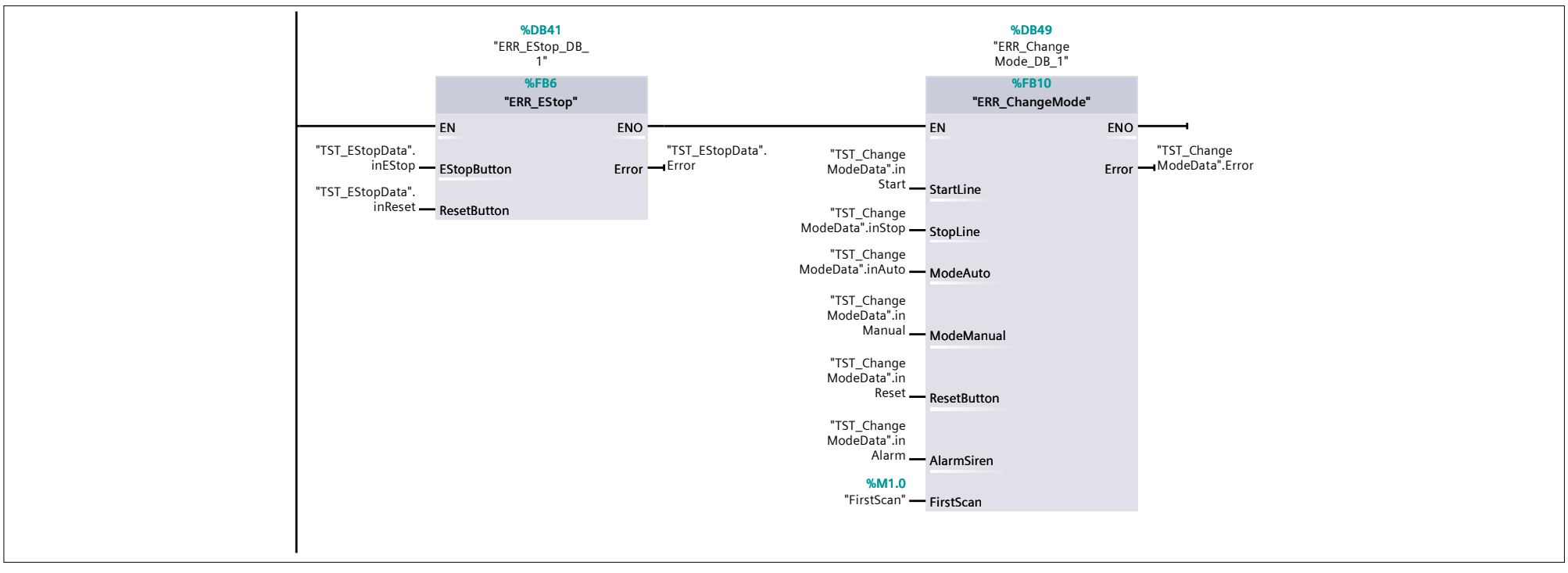
TST_ClassTest Properties							
General							
Name	TST_ClassTest	**Number**	2	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ClassTest	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
TST_ClassTest	Void	

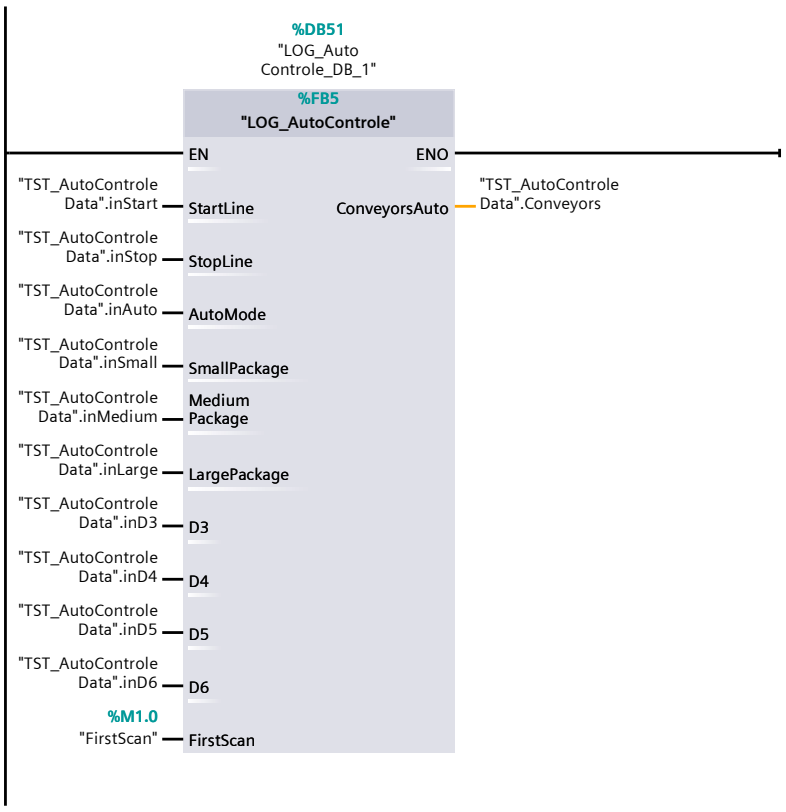
Network 1: Test: Management



Network 2: Test: Error



Network 3: Test: Logic


%DB51
"LOG_Auto
Controle_DB_1"
%FB5
"LOG_AutoControle"
EN
ENO
"TST_AutoControle
Data".inStart
StartLine
ConveyorsAuto
"TST_AutoControle
Data".Conveyors
"TST_AutoControle
Data".inStop
StopLine
"TST_AutoControle
Data".inAuto
AutoMode
"TST_AutoControle
Data".inSmall
SmallPackage
"TST_AutoControle
Data".inMedium
Medium
Package
"TST_AutoControle
Data".inLarge
LargePackage
"TST_AutoControle
Data".inD3
D3
"TST_AutoControle
Data".inD4
D4
"TST_AutoControle
Data".inD5
D5
"TST_AutoControle
Data".inD6
D6
%M1.0
"FirstScan"
FirstScan

PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_ChooseModeData [DB4]

TST_ChooseModeData Properties							
General							
Name	TST_ChooseModeData	**Number**	4	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
Auto	Bool	false	False
Manual	Bool	false	False
inAuto	Bool	false	False
inManual	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_ControlLineData [DB7]

TST_ControlLineData Properties							
General							
Name	TST_ControlLineData	**Number**	7	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
inAuto	Bool	false	False
inManual	Bool	false	False
inStart	Bool	false	False
inStop	Bool	false	False
inGlobalError	Bool	false	False
inRunLine	Bool	false	False
StartLine	Bool	false	False
StopLine	Bool	false	False
StartAlarmSiren	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_EStopData [DB48]

TST_EStopData Properties							
General							
Name	TST_EStopData	**Number**	48	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
inEStop	Bool	false	False
inReset	Bool	false	False
Error	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_ChangeModeData [DB50]

TST_ChangeModeData Properties							
General							
Name	TST_ChangeModeData	**Number**	50	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
inStart	Bool	false	False
inStop	Bool	false	False
inReset	Bool	false	False
inAuto	Bool	false	False
inManual	Bool	false	False
inAlarm	Bool	false	False
Error	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_AutoControleData [DB52]

TST_AutoControleData Properties							
General							
Name	TST_AutoControleData	**Number**	52	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
inStart	Bool	false	False
inStop	Bool	false	False
inAuto	Bool	false	False
inSmall	Bool	false	False
inMedium	Bool	false	False
inLarge	Bool	false	False
inD3	Bool	false	False
inD4	Bool	false	False
inD5	Bool	false	False
inD6	Bool	false	False
Conveyors	"stt_Conveyor"		False

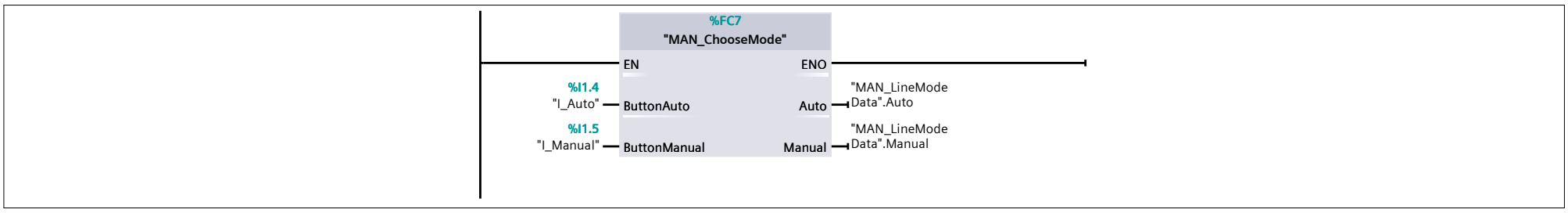
PLC_1 [CPU 1511-1 PN] / Program blocks / 02_Management

MAN_ClassManagement [FC3]

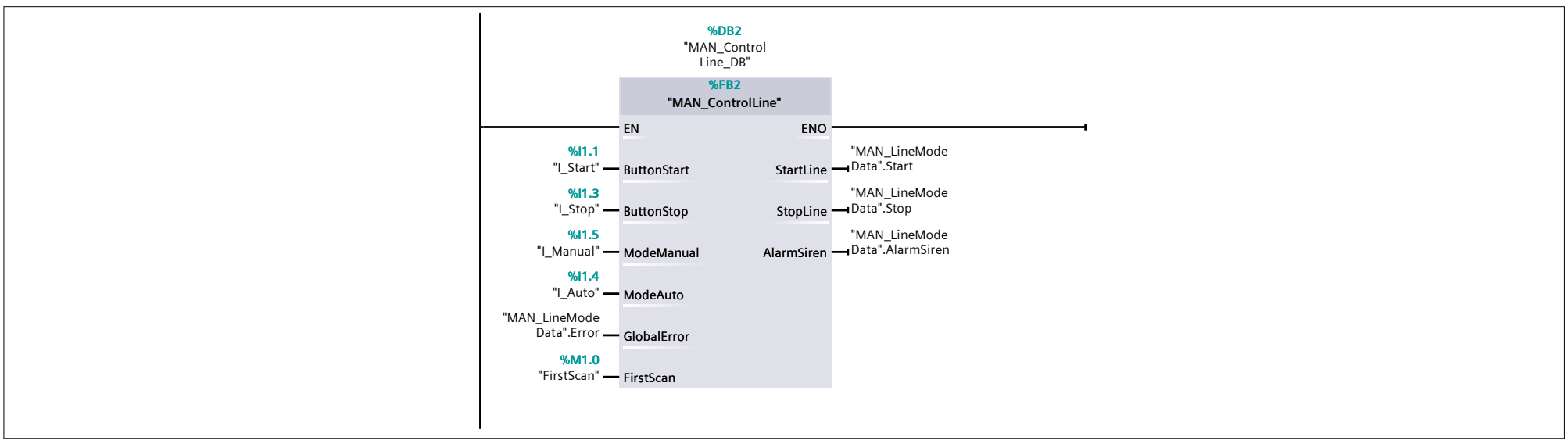
MAN_ClassManagement Properties							
General							
Name	MAN_ClassManagement	**Number**	3	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ClassManagement	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
MAN_ClassManagement	Void	

Network 1: Call: ChooseMode



Network 2: Call: ControlLine



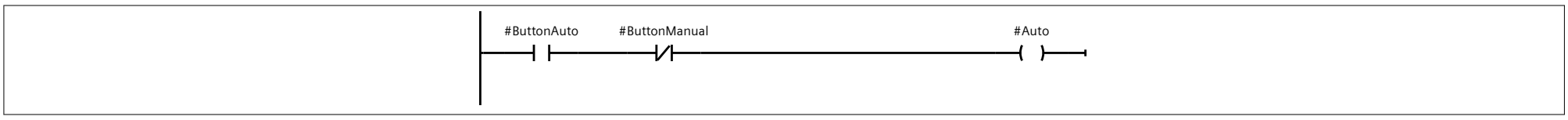
PLC_1 [CPU 1511-1 PN] / Program blocks / 02_Management

MAN_ChooseMode [FC7]

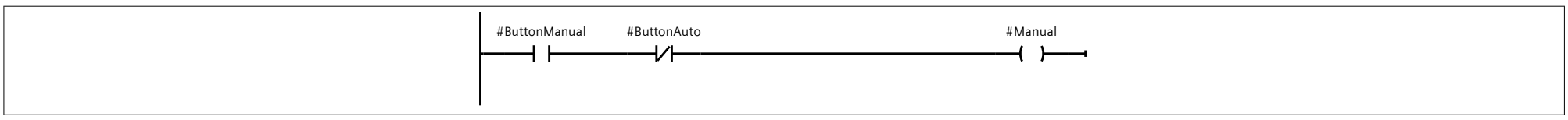
MAN_ChooseMode Properties							
General							
Name	MAN_ChooseMode	**Number**	7	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ChooseMode	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
ButtonAuto	Bool	
ButtonManual	Bool	
▼ Output		
Auto	Bool	
Manual	Bool	
InOut		
Temp		
Constant		
▼ Return		
MAN_ChooseMode	Void	

Network 1: Auto



Network 2: Manual



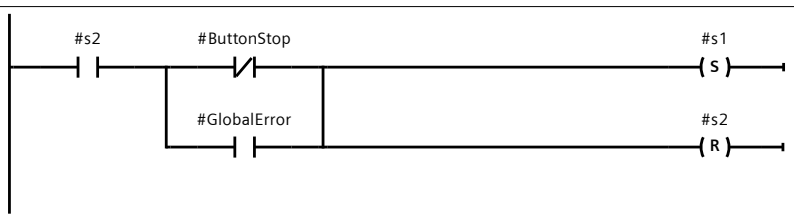
PLC_1 [CPU 1511-1 PN] / Program blocks / 02_Management

MAN_ControlLine [FB2]

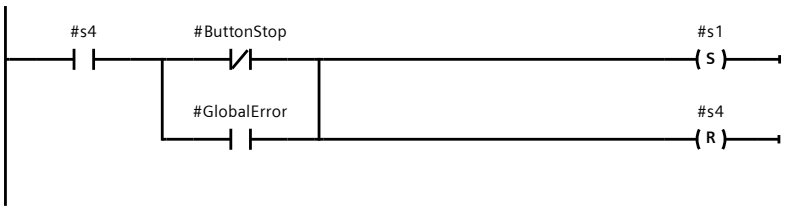
MAN_ControlLine Properties							
General							
Name	MAN_ControlLine	**Number**	2	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	Control Line - Sequential algorithm	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
ButtonStart	Bool	false	Non-retain
ButtonStop	Bool	false	Non-retain
ModeManual	Bool	false	Non-retain
ModeAuto	Bool	false	Non-retain
GlobalError	Bool	false	Non-retain
FirstScan	Bool	false	Non-retain
▼ Output			
StartLine	Bool	false	Non-retain
StopLine	Bool	false	Non-retain
AlarmSiren	Bool	false	Non-retain
InOut			
▼ Static			
s1	Bool	false	Non-retain
s2	Bool	false	Non-retain
s3	Bool	false	Non-retain
s4	Bool	false	Non-retain
P_ButtonStart_1	Bool	false	Non-retain
P_ButtonStart_2	Bool	false	Non-retain
IEC_Timer_0_Instance	TP_TIME		Non-retain
Run	Bool	false	Non-retain
N_Run	Bool	false	Non-retain
Temp			
Constant			

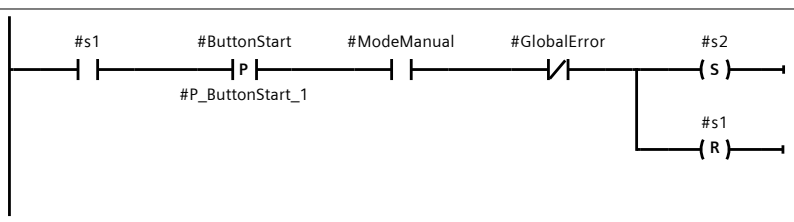
Network 1: Step 2-1



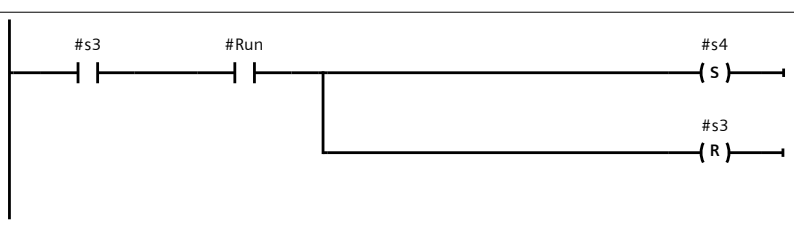
Network 2: Step 4-1



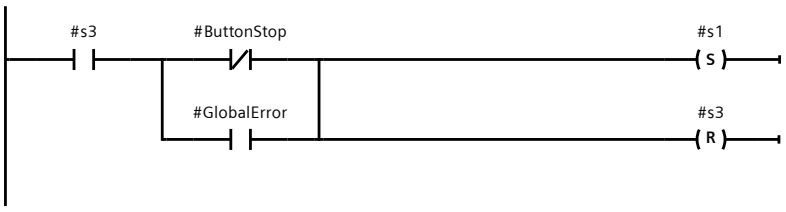
Network 3: Step 1-2



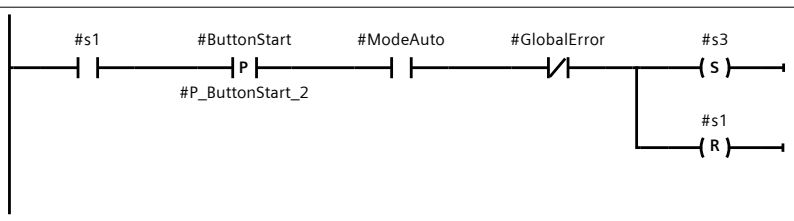
Network 4: Step 3-4



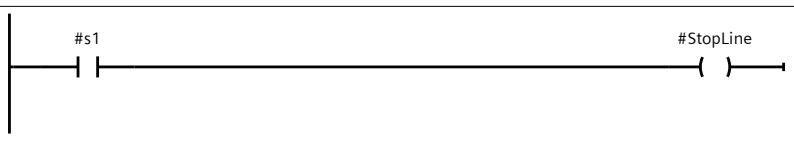
Network 5: Step 3-1



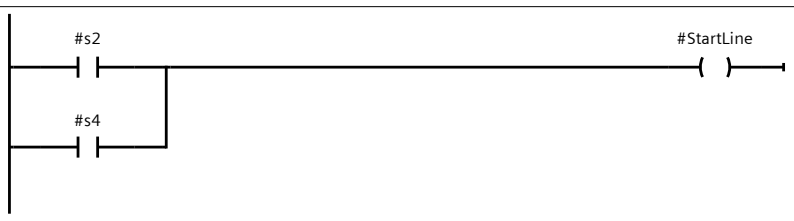
Network 6: Step 1-3



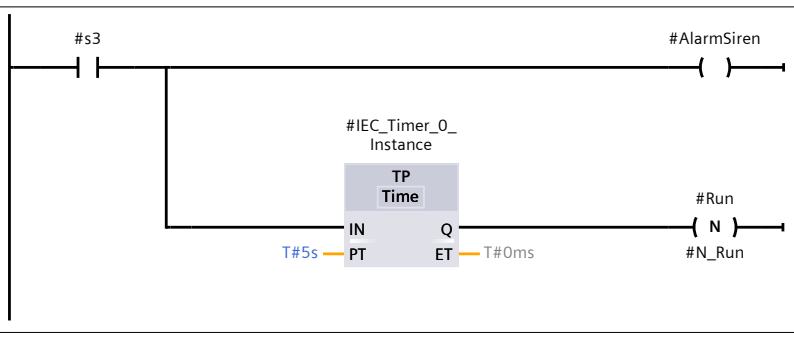
Network 7: Step 1 Output



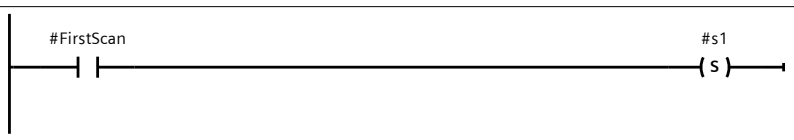
Network 8: Step 2 and 4 Output



Network 9: Step 3 Output



Network 10: First Scan



PLC_1 [CPU 1511-1 PN] / Program blocks / 02_Management

MAN_LineModeData [DB1]

MAN_LineModeData Properties							
General							
Name	MAN_LineModeData	**Number**	1	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
Start	Bool	false	False
Stop	Bool	false	False
Manual	Bool	false	False
Auto	Bool	false	False
Error	Bool	false	False
RunLine	Bool	false	False
AlarmSiren	Bool	false	False

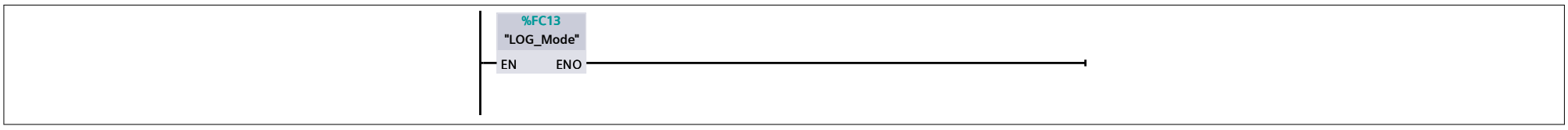
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic

LOG_ClassLogic [FC4]

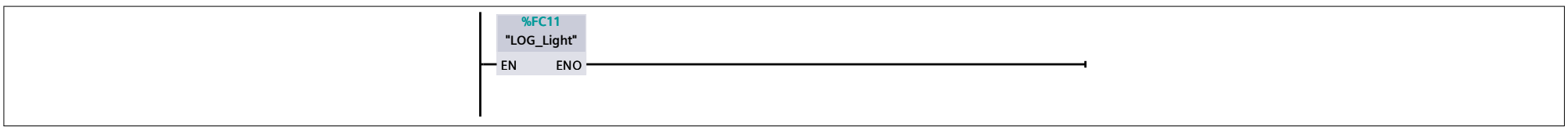
LOG_ClassLogic Properties							
General							
Name	LOG_ClassLogic	**Number**	4	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ClassLogic	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
LOG_ClassLogic	Void	

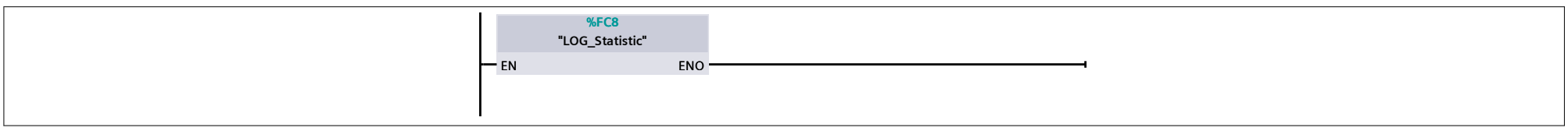
Network 1: Call: Mode



Network 2: Call: Light



Network 3: Call: Statistic



PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic

LOG_LogicData [DB55]

LOG_LogicData Properties							
General							
Name	LOG_LogicData	**Number**	55	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
ConveyorsManual	"stt_Conveyor"		False
ConveyorsAuto	"stt_Conveyor"		False

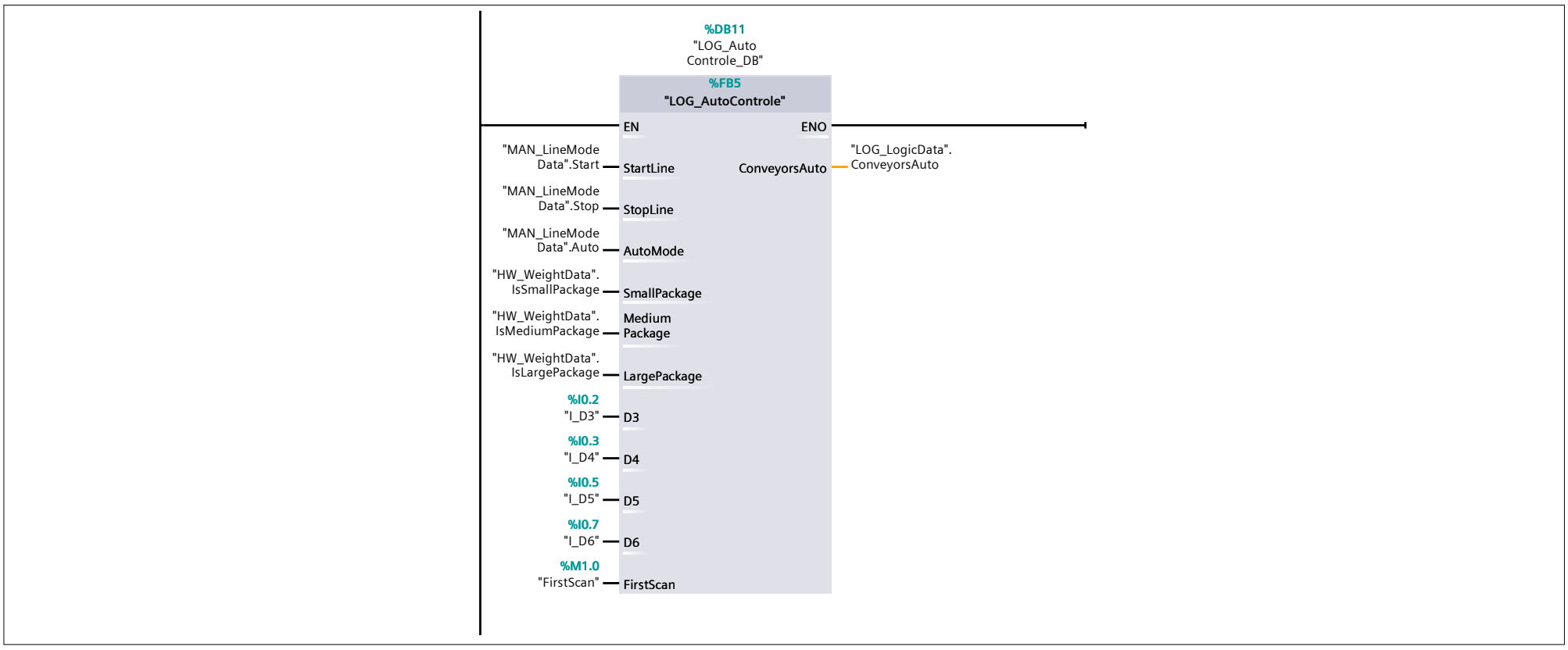
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode

LOG_Mode [FC13]

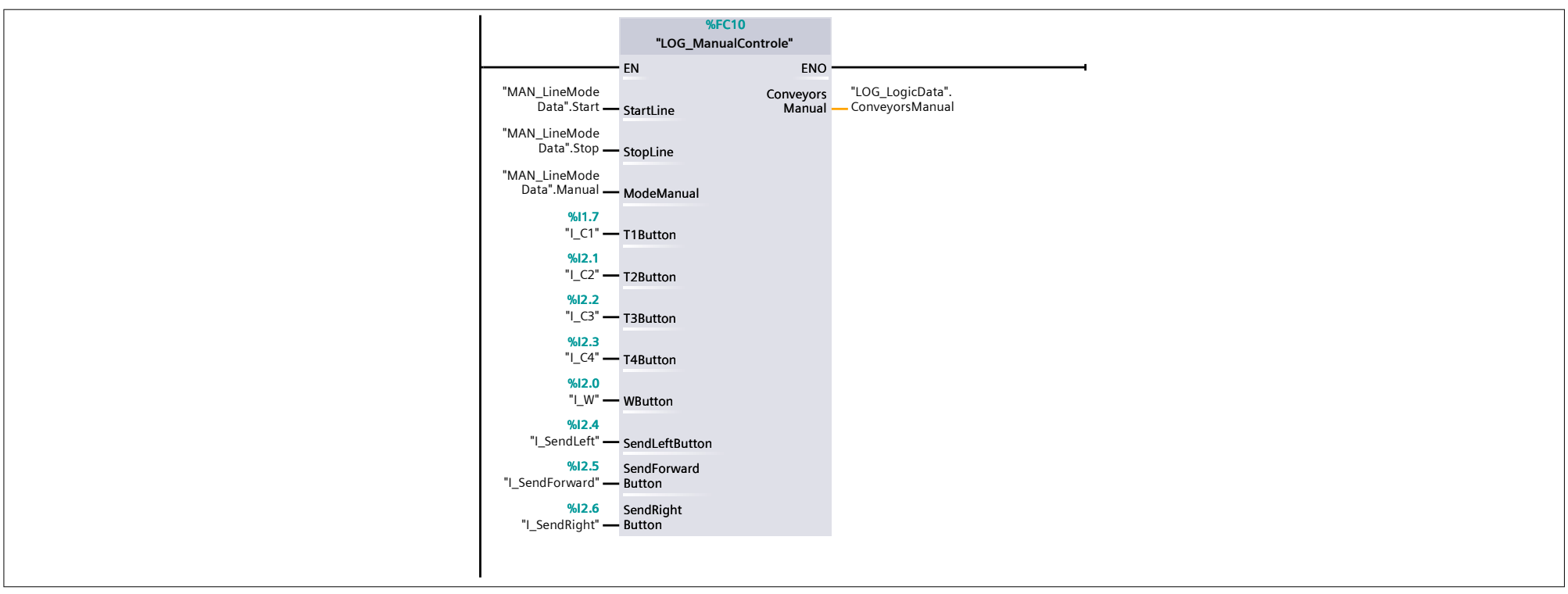
LOG_Mode Properties							
General							
Name	LOG_Mode	**Number**	13	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	Mode	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
LOG_Mode	Void	

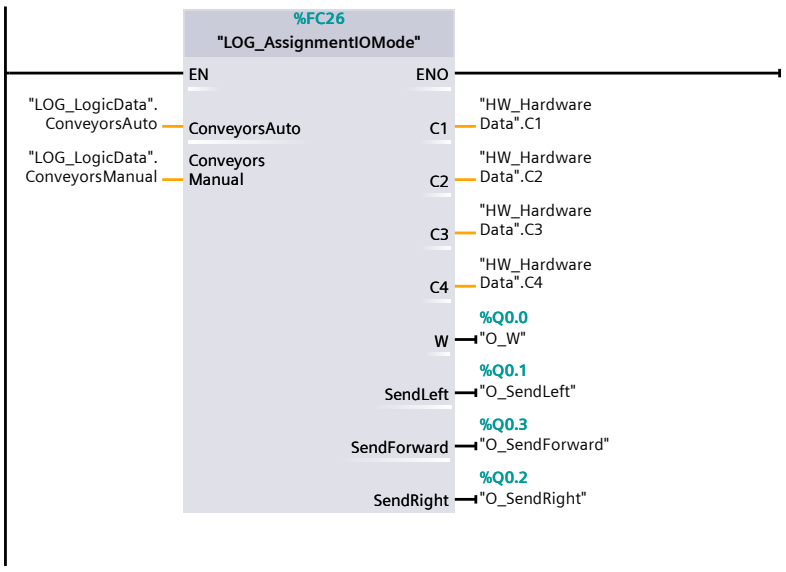
Network 1: Call: AutoControle



Network 2: Call: ManualControle



Network 3: Call: AssigmentIOMode


%FC26
"LOG_AssignmentIOMode"
EN
ENO
"LOG_LogicData".
ConveyorsAuto
ConveyorsAuto
C1
"HW_Hardware
Data".C1
"LOG_LogicData".
ConveyorsManual
Conveyors
Manual
C2
"HW_Hardware
Data".C2
C3
"HW_Hardware
Data".C3
C4
"HW_Hardware
Data".C4
%Q0.0
W
"O_W"
%Q0.1
SendLeft
"O_SendLeft"
%Q0.3
SendForward
"O_SendForward"
%Q0.2
SendRight
"O_SendRight"

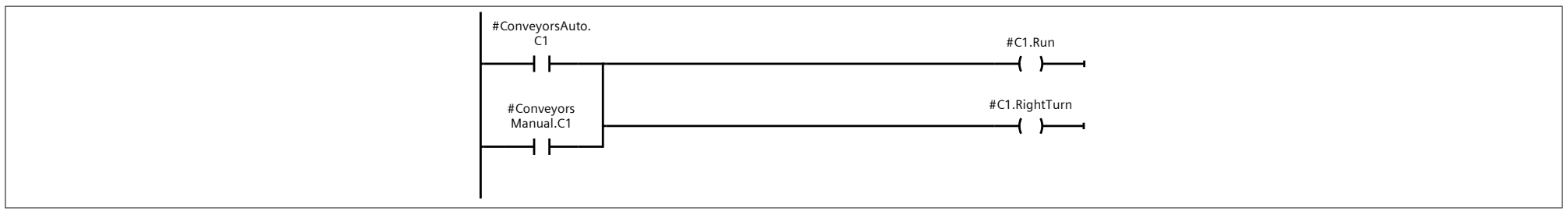
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode

LOG_AssignmentIOMode [FC26]

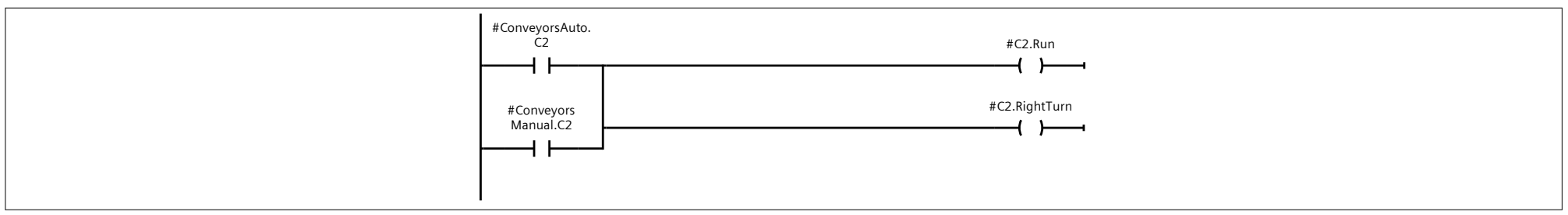
LOG_AssignmentIOMode Properties							
General							
Name	LOG_AssignmentIOMode	**Number**	26	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	AssigmentIOMode	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
ConveyorsAuto	"stt_Conveyor"	
ConveyorsManual	"stt_Conveyor"	
▼ Output		
C1	"stt_Motor"	
C2	"stt_Motor"	
C3	"stt_Motor"	
C4	"stt_Motor"	
W	Bool	
SendLeft	Bool	
SendForward	Bool	
SendRight	Bool	
InOut		
Temp		
Constant		
▼ Return		
LOG_AssignmentIOMode	Void	

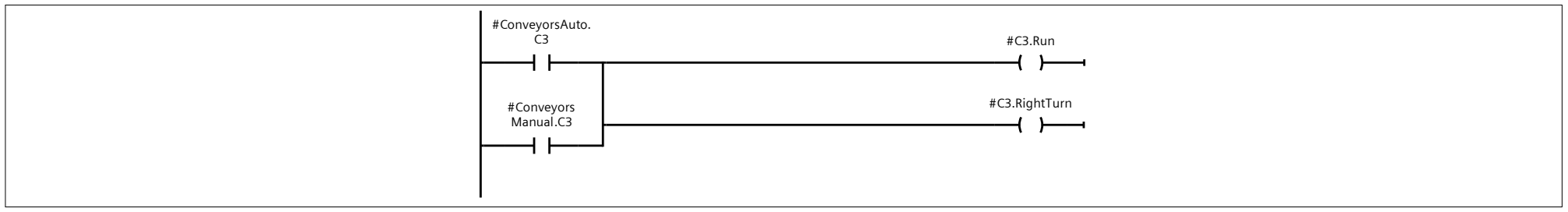
Network 1: C1



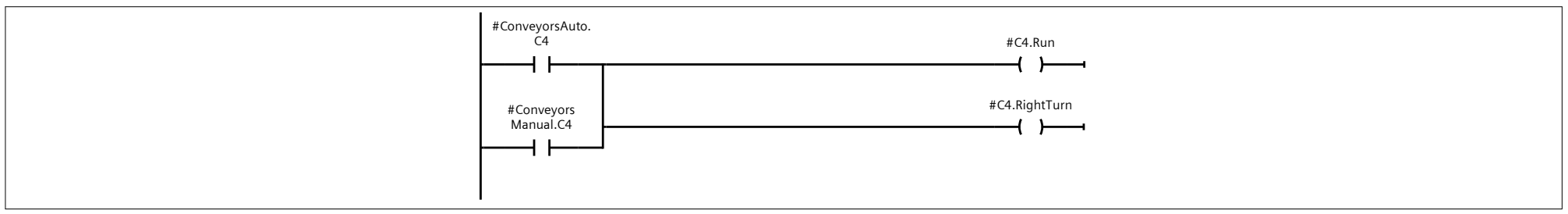
Network 2: C2



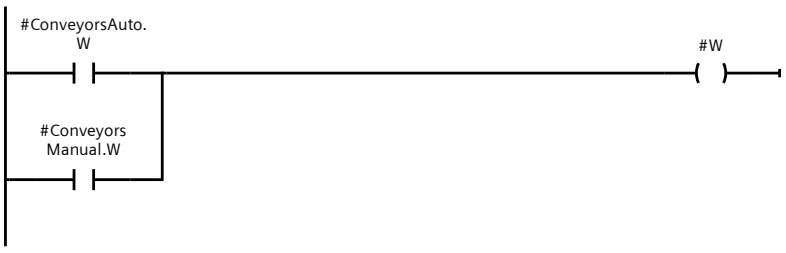
Network 3: C3



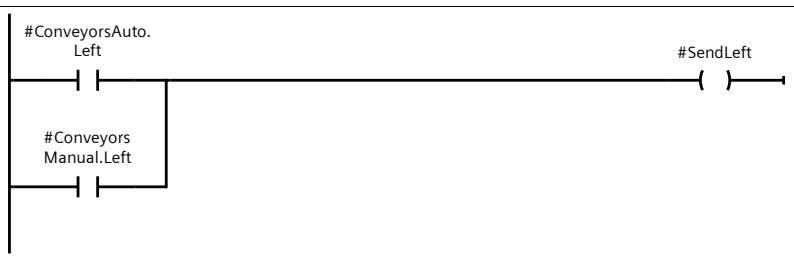
Network 4: C4



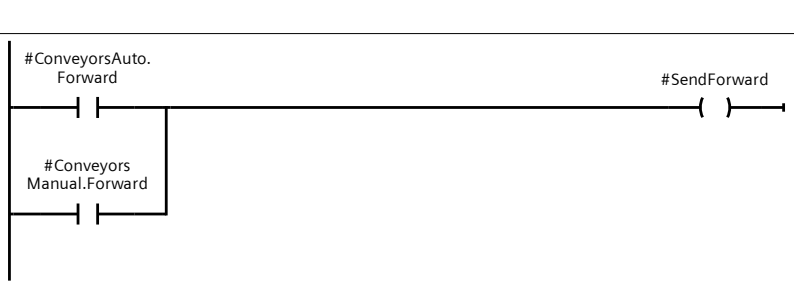
Network 5: W



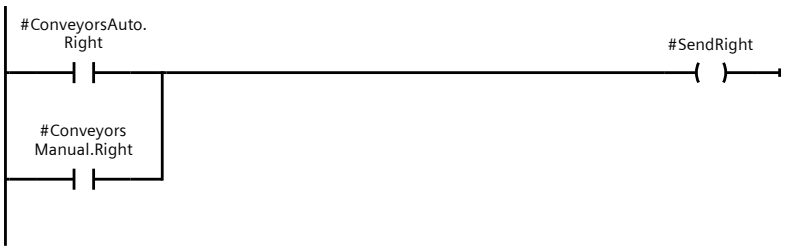
Network 6: Left



Network 7: Forward



Network 8: Right



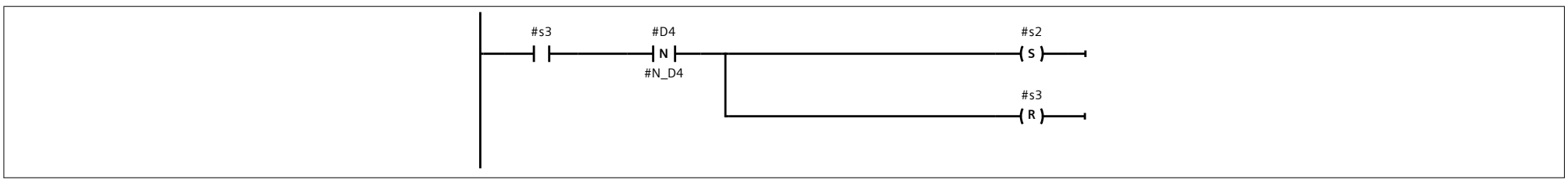
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode / Auto

LOG_AutoControle [FB5]

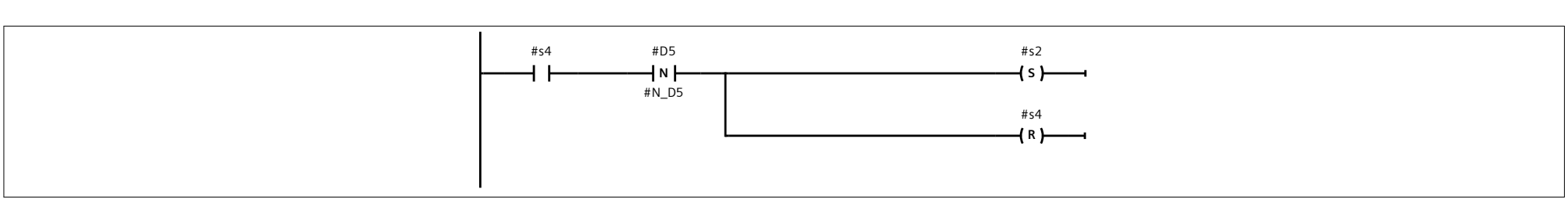
LOG_AutoControle Properties							
General							
Name	LOG_AutoControle	**Number**	5	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	Auto Controle - Sequential algorithm	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
Input			
StartLine	Bool	false	Non-retain
StopLine	Bool	false	Non-retain
AutoMode	Bool	false	Non-retain
SmallPackage	Bool	false	Non-retain
MediumPackage	Bool	false	Non-retain
LargePackage	Bool	false	Non-retain
D3	Bool	false	Non-retain
D4	Bool	false	Non-retain
D5	Bool	false	Non-retain
D6	Bool	false	Non-retain
FirstScan	Bool	false	Non-retain
Output			
ConveyorsAuto	"stt_Conveyor"		Non-retain
InOut			
Static			
s1	Bool	false	Non-retain
s2	Bool	false	Non-retain
s3	Bool	false	Non-retain
s4	Bool	false	Non-retain
s5	Bool	false	Non-retain
P_D3_1	Bool	false	Non-retain
P_D3_2	Bool	false	Non-retain
P_D3_3	Bool	false	Non-retain
N_D4	Bool	false	Non-retain
N_D5	Bool	false	Non-retain
N_D6	Bool	false	Non-retain
Temp			
Constant			

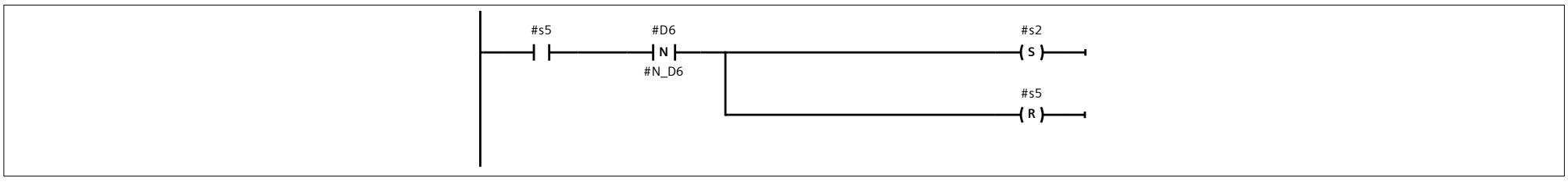
Network 1: Step 3-2



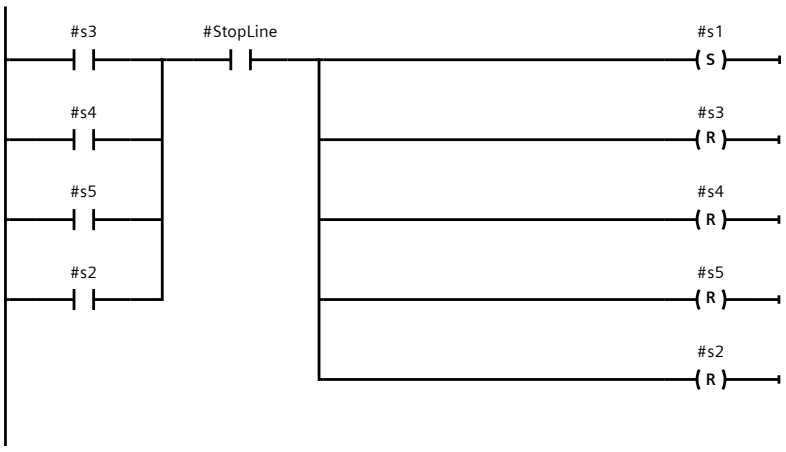
Network 2: Step 4-2



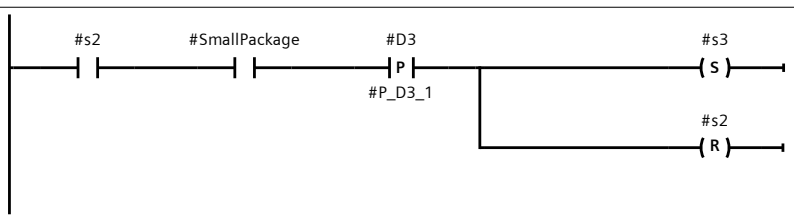
Network 3: Step 5-2



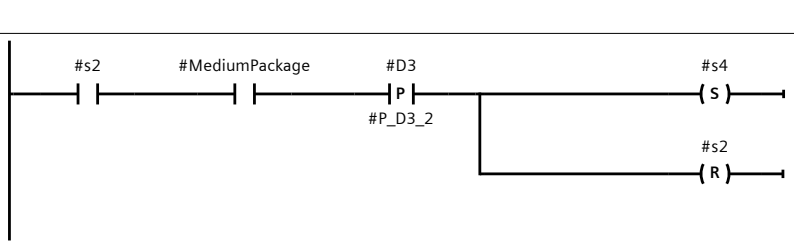
Network 4: Step 2,3,4,5 - 1



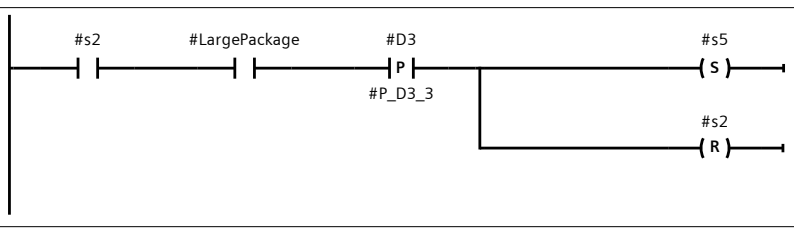
Network 5: Step 2-3



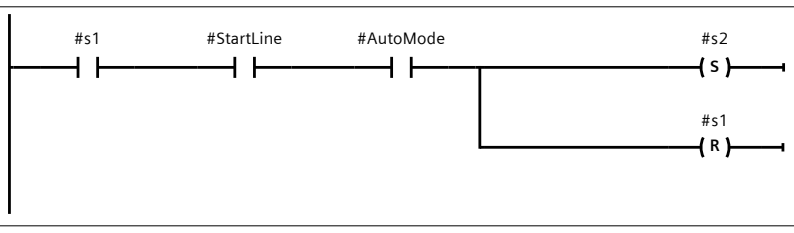
Network 6: Step 2-4



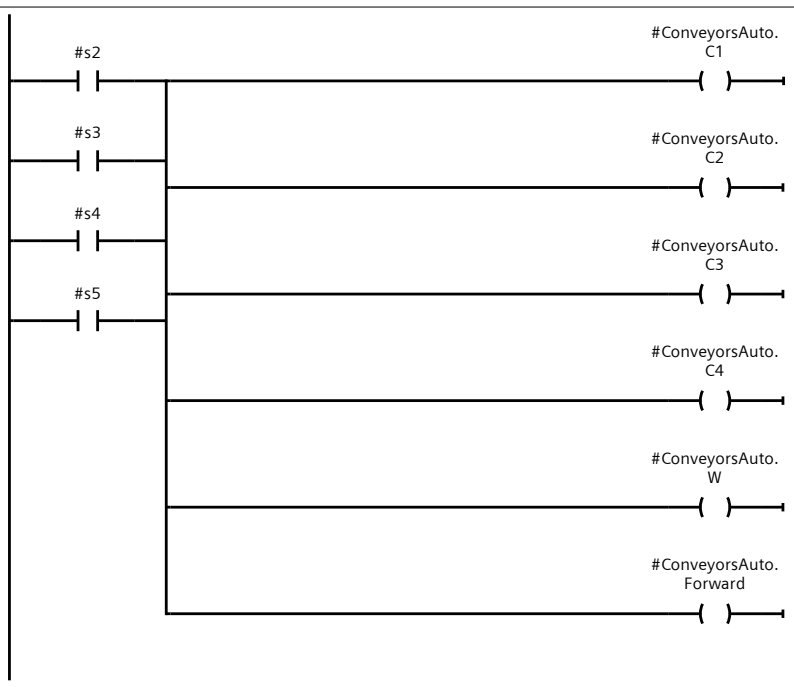
Network 7: Step 2-5



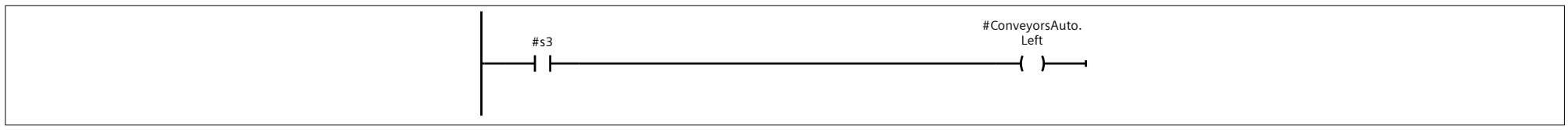
Network 8: Step 1-2



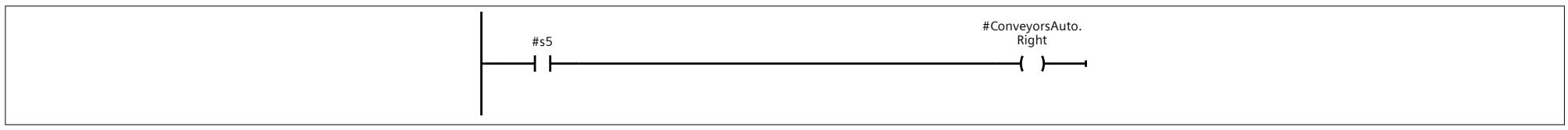
Network 9: Step 2,3,4,5 Output



Network 10: Step 3 Output

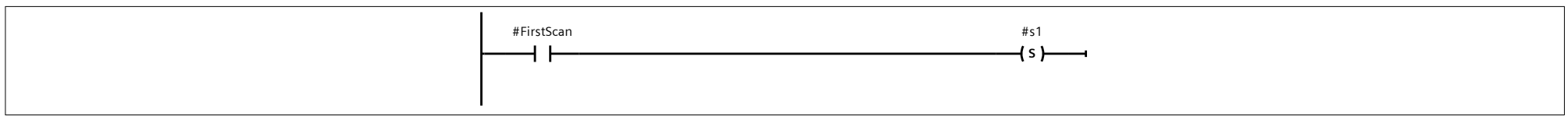


Network 11: Step 5 Output



Network 12: First Scan

First Scan



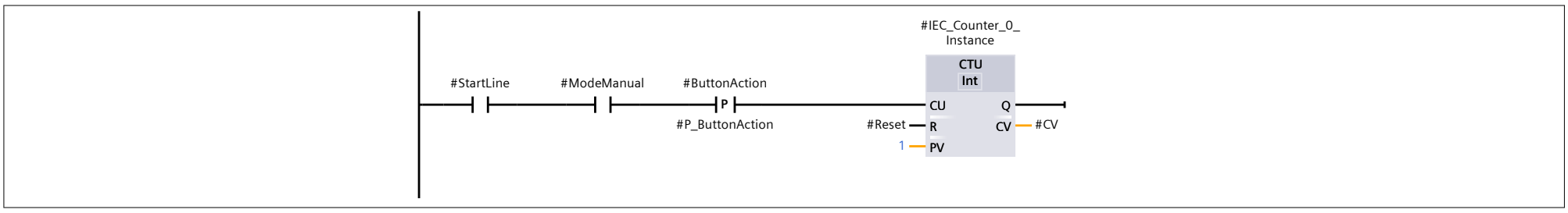
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode / Manual

LOG_ManualModule [FB14]

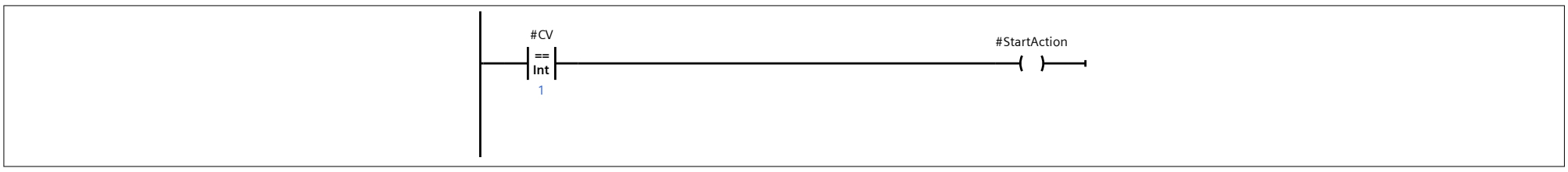
LOG_ManualModule Properties							
General							
Name	LOG_ManualModule	**Number**	14	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	ManualMode	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
Input			
StartLine	Bool	false	Non-retain
StopLine	Bool	false	Non-retain
ModeManual	Bool	false	Non-retain
ButtonAction	Bool	false	Non-retain
Output			
StartAction	Bool	false	Non-retain
InOut			
Static			
IEC_Counter_0_Instance	CTU_INT		Retain
P_ButtonAction	Bool	false	Non-retain
CV	Int	0	Non-retain
Reset	Bool	false	Non-retain
Temp			
Constant			

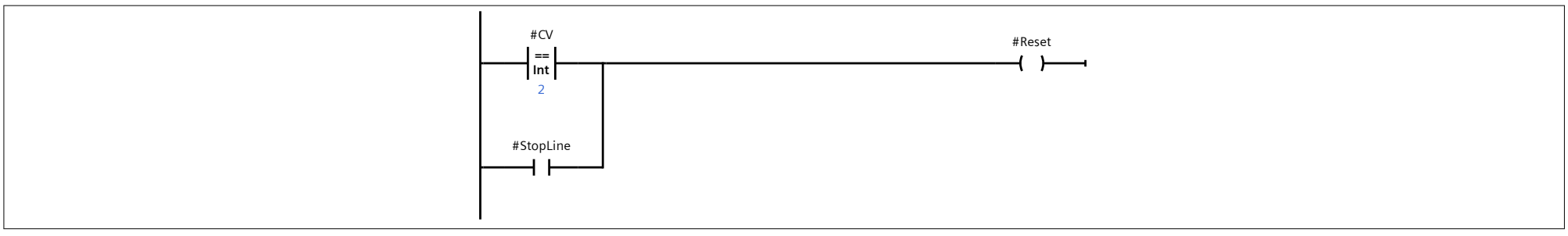
Network 1: CTU



Network 2: StartAction



Network 3: Reset



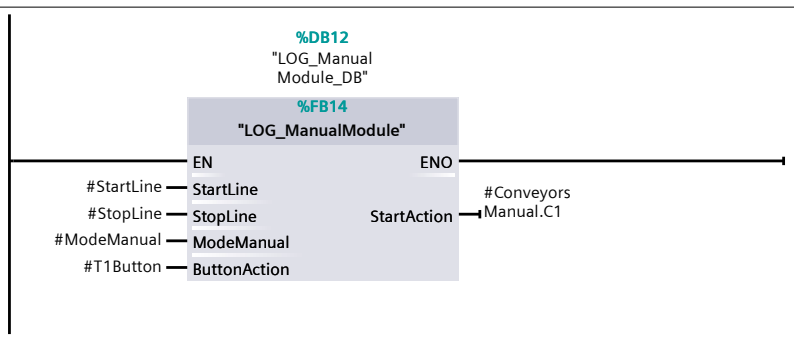
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode / Manual

LOG_ManualControle [FC10]

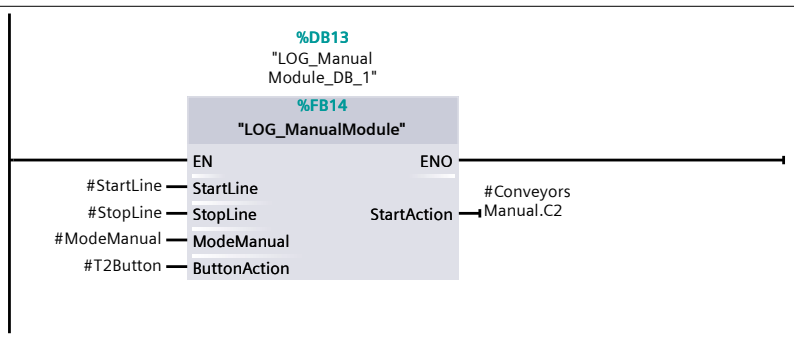
LOG_ManualControle Properties							
General							
Name	LOG_ManualControle	**Number**	10	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ManualControle	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
StartLine	Bool	
StopLine	Bool	
ModeManual	Bool	
T1Button	Bool	
T2Button	Bool	
T3Button	Bool	
T4Button	Bool	
WButton	Bool	
SendLeftButton	Bool	
SendForwardButton	Bool	
SendRightButton	Bool	
▼ Output		
ConveyorsManual	"stt_Conveyor"	
InOut		
Temp		
Constant		
▼ Return		
LOG_ManualControle	Void	

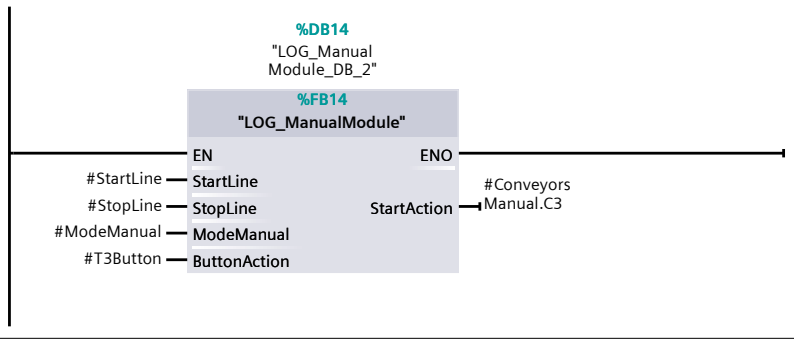
Network 1: Call: ManualModule - C1



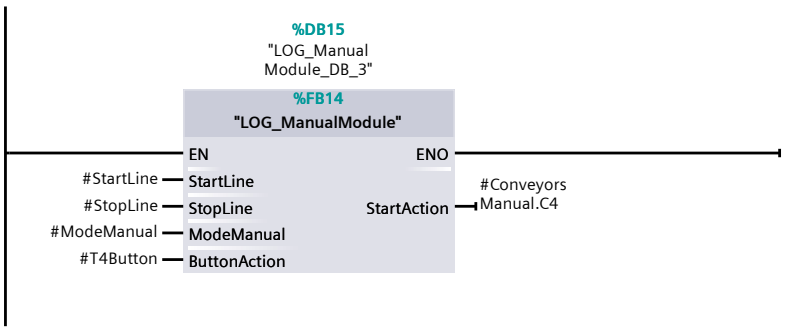
Network 2: Call: ManualModule - C2



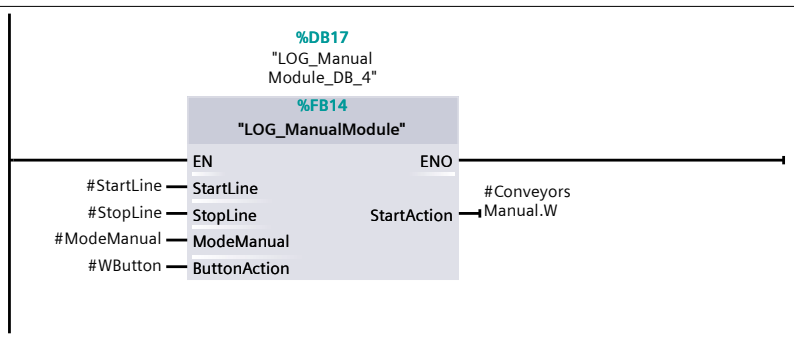
Network 3: Call: ManualModule - C3



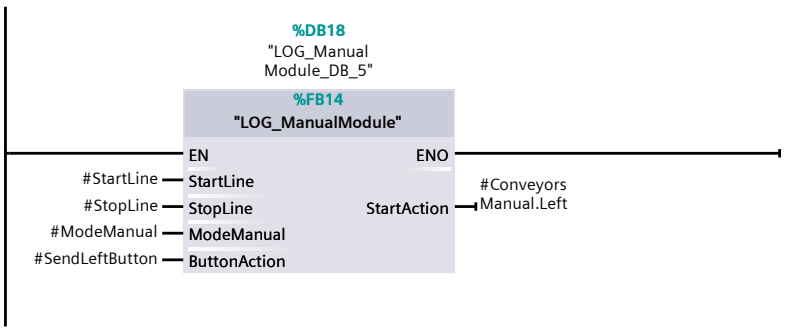
Network 4: Call: ManualModule - C4



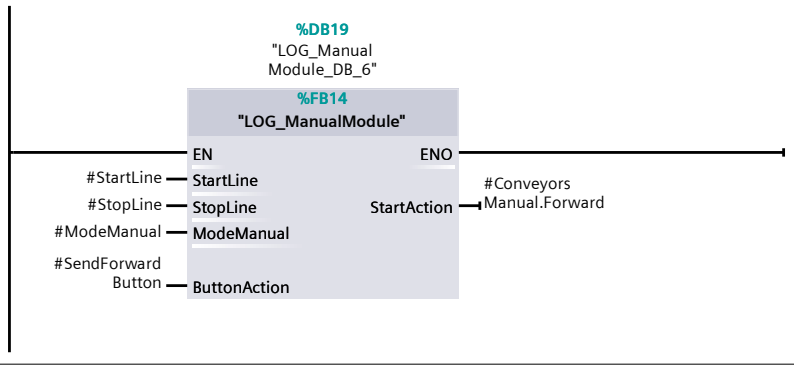
Network 5: Call: ManualModule - W



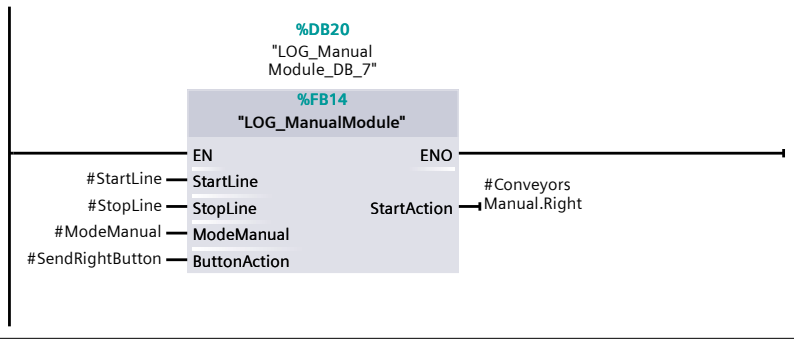
Network 6: Call: ManualModule - Send left



Network 7: Call: ManualModule - Send forward



Network 8: Call: ManualModule - Send right



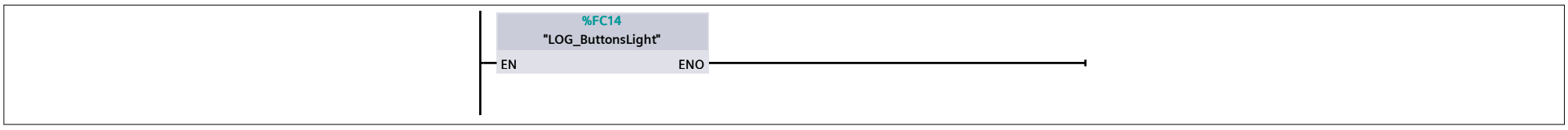
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Light

LOG_Light [FC11]

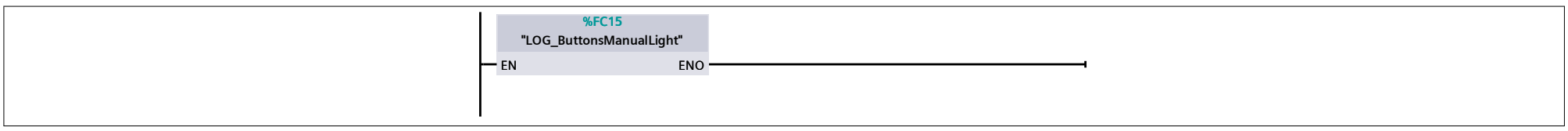
LOG_Light Properties							
General							
Name	LOG_Light	**Number**	11	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	Light	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
LOG_Light	Void	

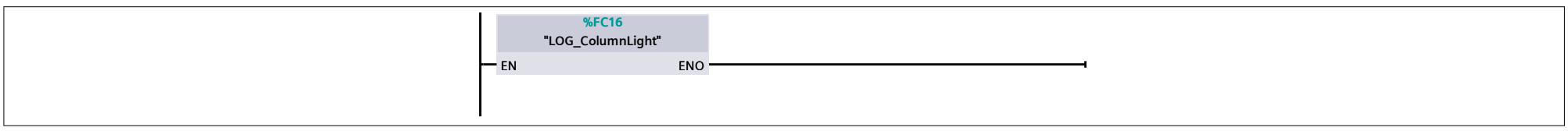
Network 1: Call: ButtonsLight



Network 2: Call: ButtonsManualLight



Network 3: Call: ColumnLight



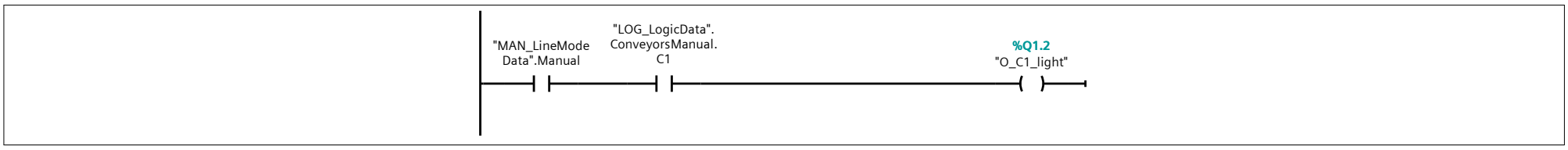
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Light

LOG_ButtonsManualLight [FC15]

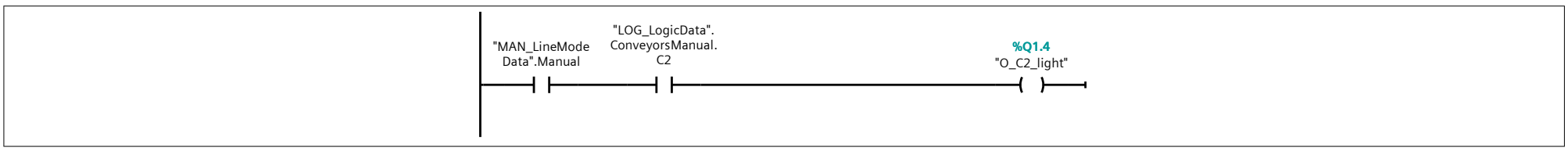
LOG_ButtonsManualLight Properties							
General							
Name	LOG_ButtonsManualLight	**Number**	15	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ButtonsManualLight	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
LOG_ButtonsManualLight	Void	

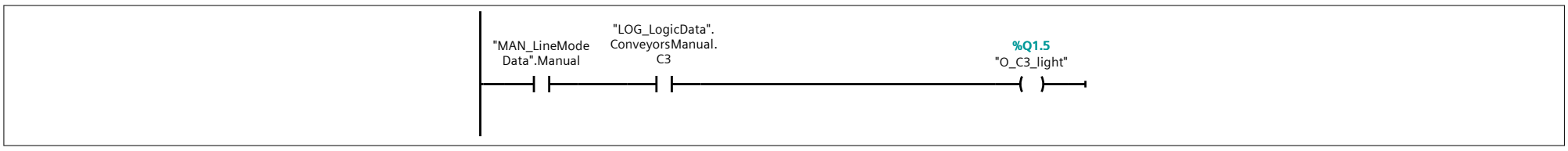
Network 1: Button C1 light



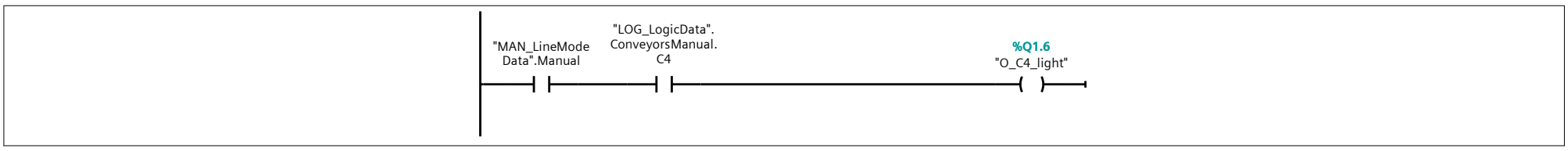
Network 2: Button C2 light



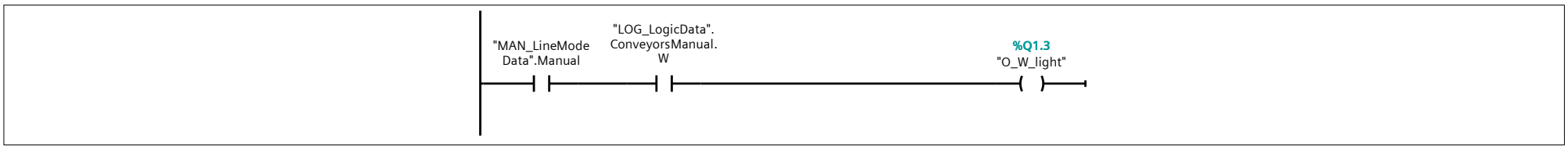
Network 3: Button C3 light



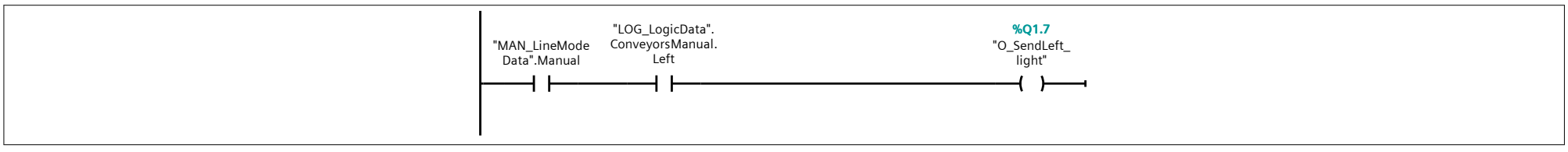
Network 4: Button C4 light



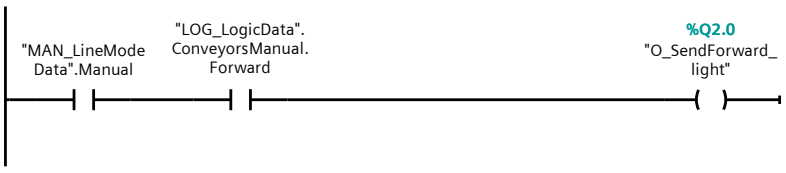
Network 5: Button W light



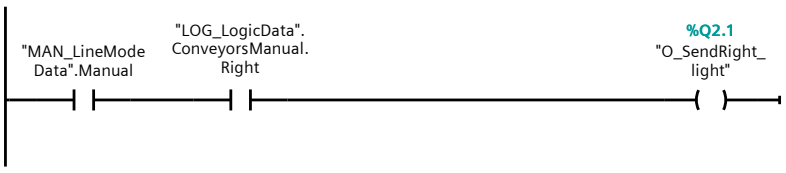
Network 6: Button Send left light



Network 7: Button Send forward light



Network 8: Button Send right light



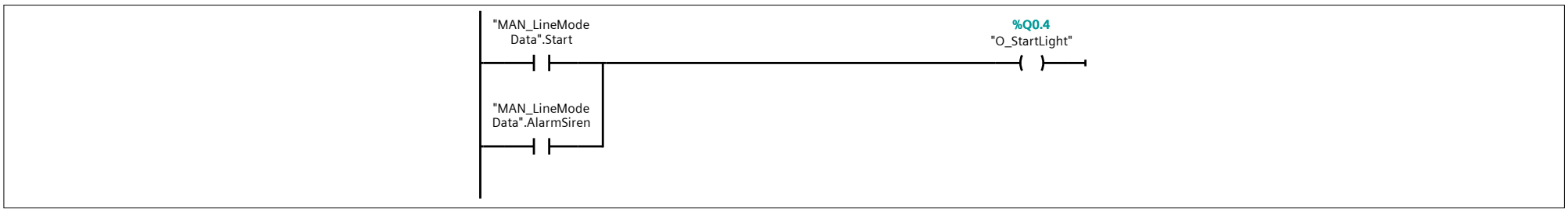
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Light

LOG_ButtonsLight [FC14]

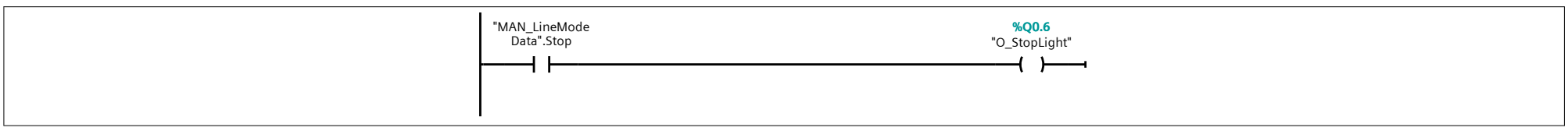
LOG_ButtonsLight Properties							
General							
Name	LOG_ButtonsLight	**Number**	14	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ButtonLight	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
LOG_ButtonsLight	Void	

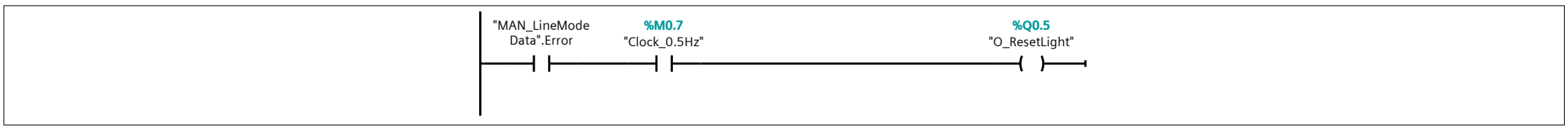
Network 1: Button Start



Network 2: Button Stop



Network 3: Button Reset



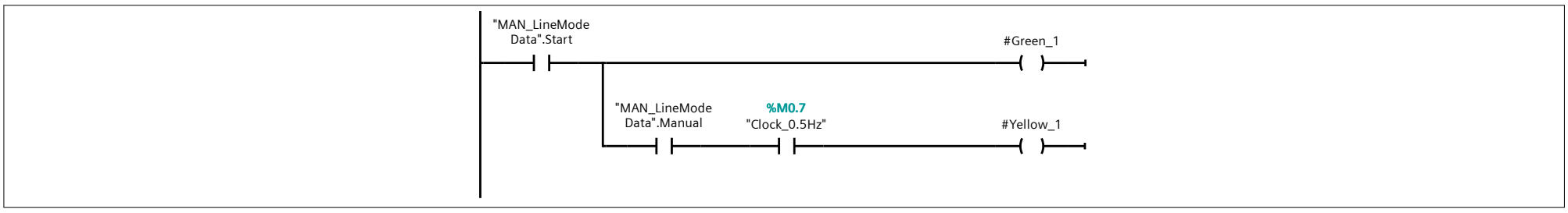
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Light

LOG_ColumnLight [FC16]

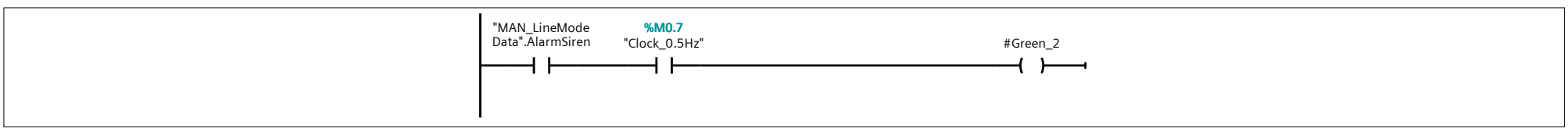
LOG_ColumnLight Properties							
General							
Name	LOG_ColumnLight	**Number**	16	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ColumnLight	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
Green_1	Bool	
Green_2	Bool	
Yellow_1	Bool	
Yellow_2	Bool	
Constant		
▼ Return		
LOG_ColumnLight	Void	

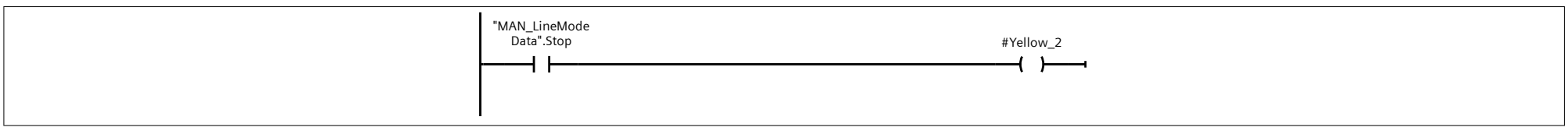
Network 1: Start line manual mode signaling



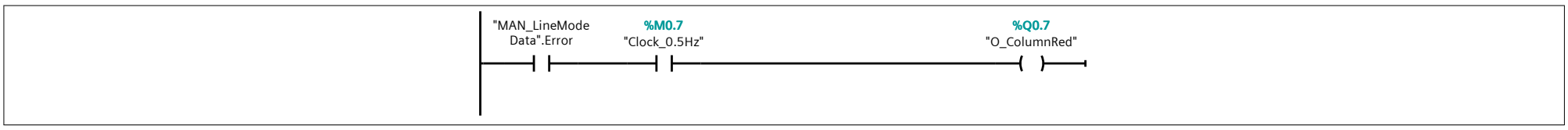
Network 2: Alarm siren signaling



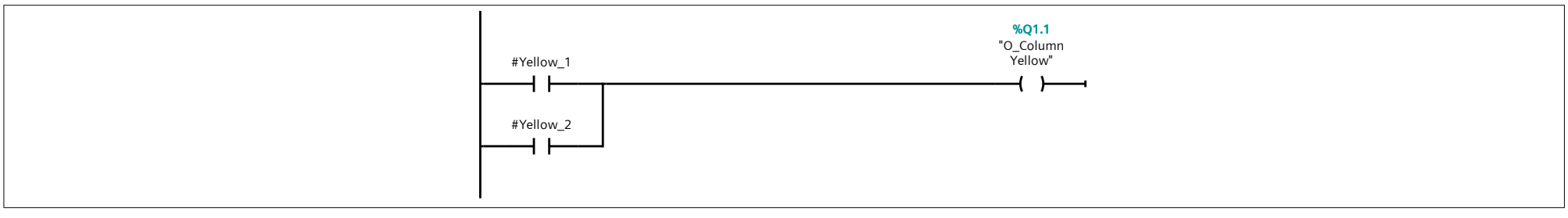
Network 3: Stop line signaling



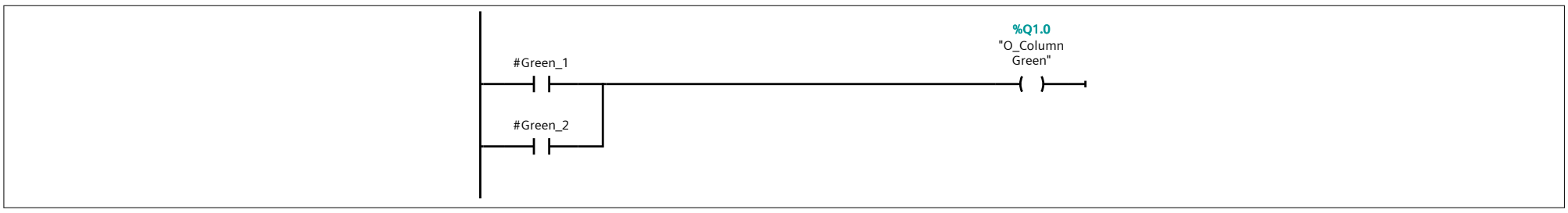
Network 4: Error signaling



Network 5: Output yellow



Network 6: Output green


%Q1.0
"O_Column
Green"
#Green_1
#Green_2

PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic

LOG_TotalProduction [DB39]

LOG_TotalProduction Properties							
General							
Name	LOG_TotalProduction	**Number**	39	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
SmallPackage	Int	0	False
MediumPackage	Int	0	False
LargePackage	Int	0	False

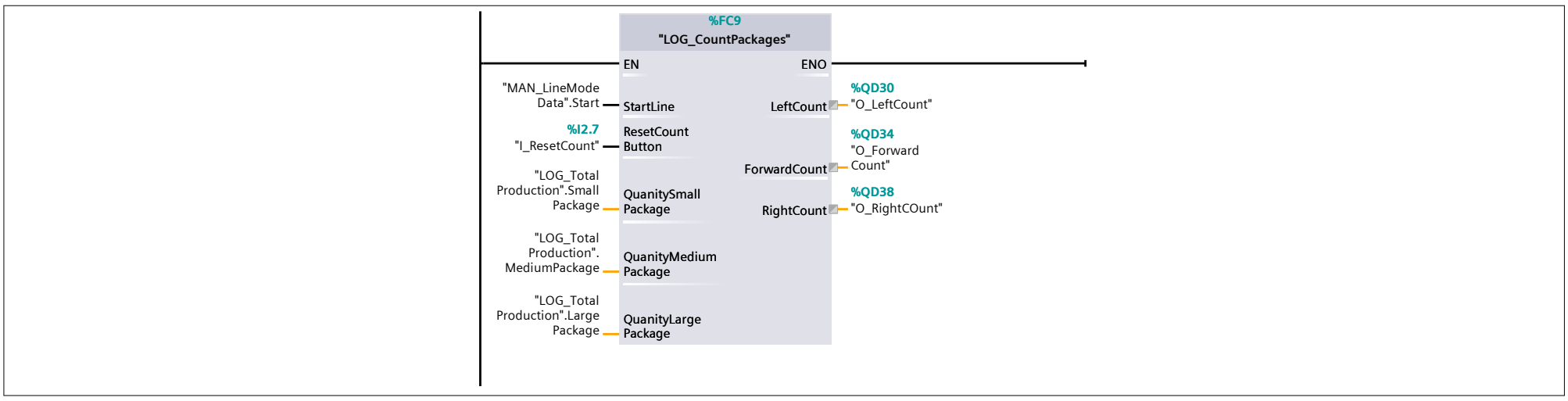
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic

LOG_Statistic [FC8]

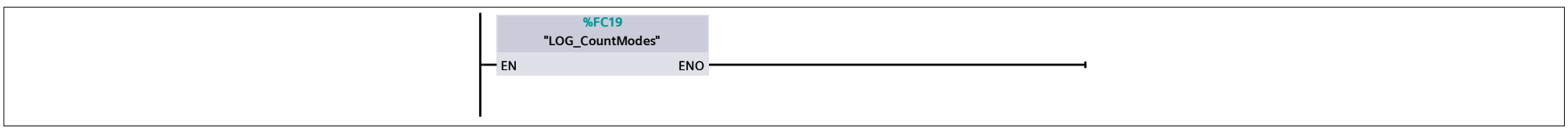
LOG_Statistic Properties							
General							
Name	LOG_Statistic	**Number**	8	**Type**	FC	**Language**	LAD
Numbering	Manual						
Information							
Title	Statistic	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
t_RisingEdge	Bool	
Constant		
▼ Return		
LOG_Statistic	Void	

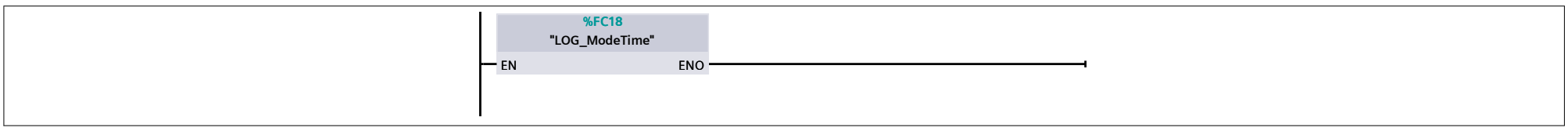
Network 1: Call: CountPackages



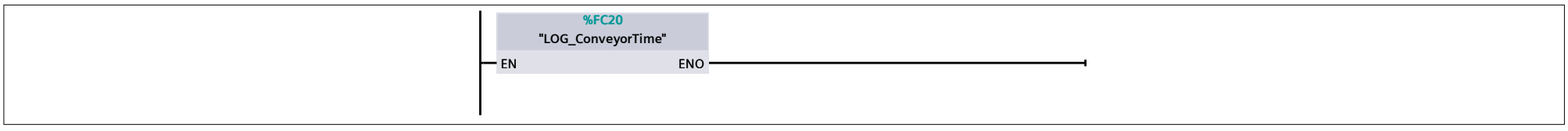
Network 2: Call: CountModes



Network 3: Call: ModeTime



Network 4: Call: ConveyorTime



PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic

LOG_ConveyorWorkTime [DB47]

LOG_ConveyorWorkTime Properties							
General							
Name	LOG_ConveyorWorkTime	**Number**	47	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
C1	"stt_TimeWork"		True
C2	"stt_TimeWork"		True
C3	"stt_TimeWork"		True
C4	"stt_TimeWork"		False
W	"stt_TimeWork"		False
Send	"stt_TimeWork"		False

PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic

LOG_LineModeTurnOn [DB46]

LOG_LineModeTurnOn Properties							
General							
Name	LOG_LineModeTurnOn	**Number**	46	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
ModeAuto	UDInt	0	True
ModeManual	UDInt	0	True
EmergencyButton	Int	0	False
ErrorLostPackage	UDInt	0	False
ErrorChangeMode	UDInt	0	False

PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic

LOG_LineTimeStatistic [DB44]

LOG_LineTimeStatistic Properties							
General							
Name	LOG_LineTimeStatistic	**Number**	44	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
StartLine	"stt_TimeWork"		True
StopLine	"stt_TimeWork"		True
AutoMode	"stt_TimeWork"		True
ManualMode	"stt_TimeWork"		True
Error	"stt_TimeWork"		True

PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic

LOG_StatisticData [DB43]

LOG_StatisticData Properties							
General							
Name	LOG_StatisticData	**Number**	43	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
P_StartLine	Bool	false	False

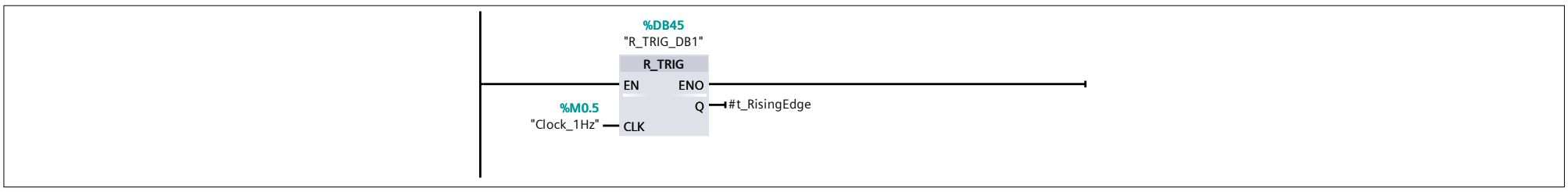
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Time

LOG_ModeTime [FC18]

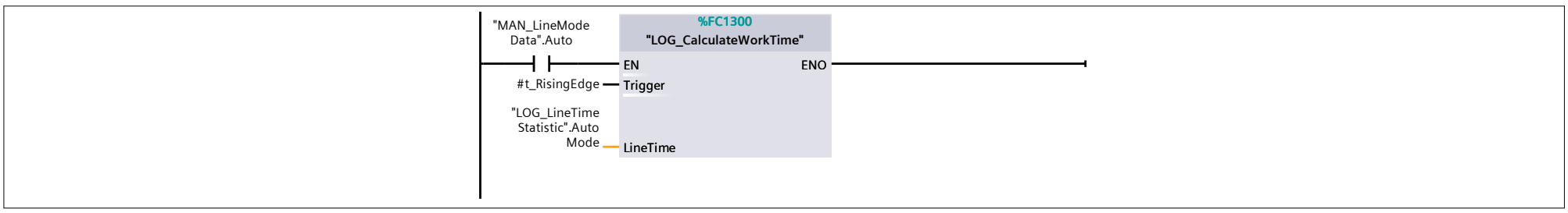
LOG_ModeTime Properties							
General							
Name	LOG_ModeTime	**Number**	18	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ModeTime	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
t_RisingEdge	Bool	
Constant		
▼ Return		
LOG_ModeTime	Void	

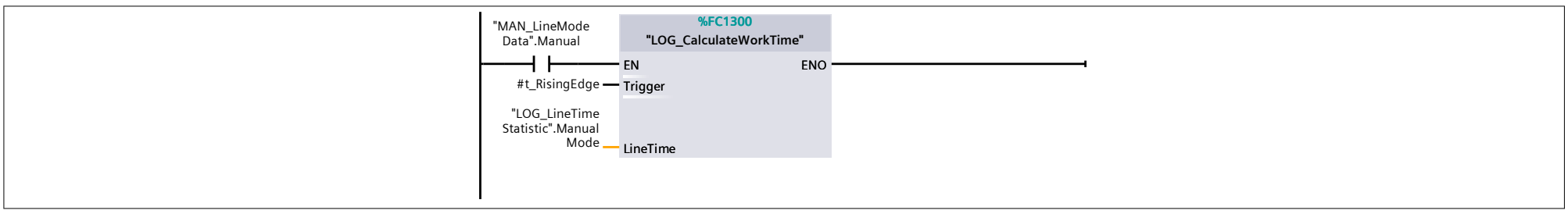
Network 1: Trigger



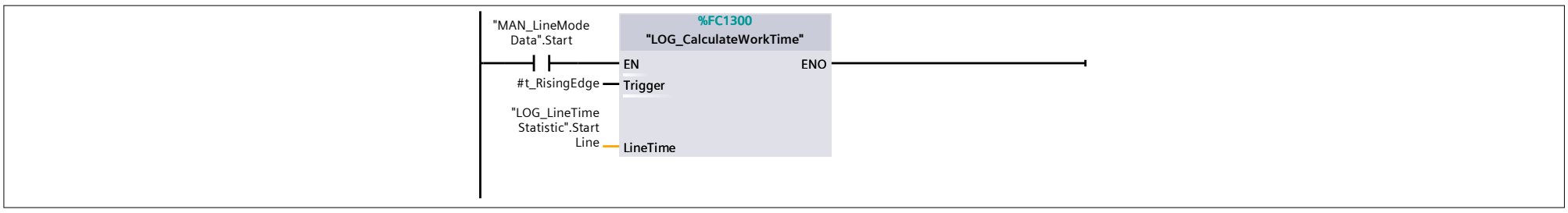
Network 2: Call: CalculateWorkTime - Auto



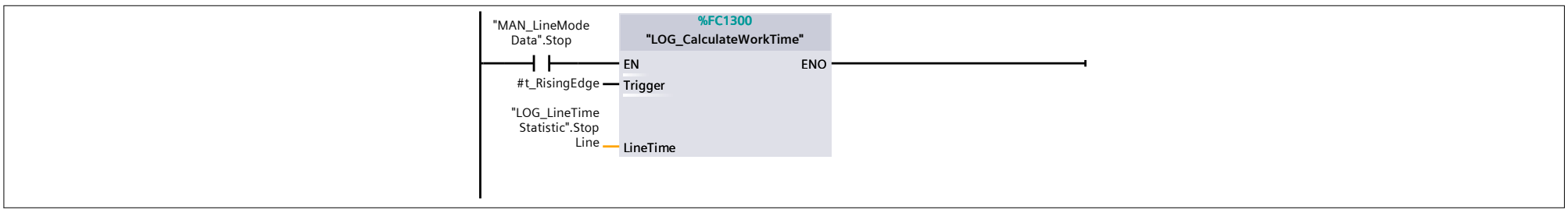
Network 3: Call: CalculateWorkTime - Manual



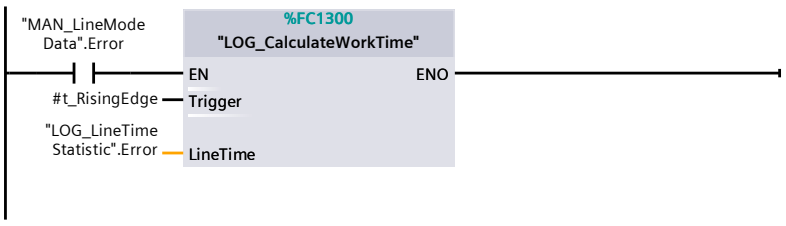
Network 4: Call: CalculateWorkTime - Start



Network 5: Call: CalculateWorkTime - Stop



Network 6: Call: CalculateWorkTime - Error


"MAN_LineMode Data".Error
#t_RisingEdge
"LOG_LineTime Statistic".Error
%FC1300
"LOG_CalculateWorkTime"
EN
Trigger
LineTime
ENO

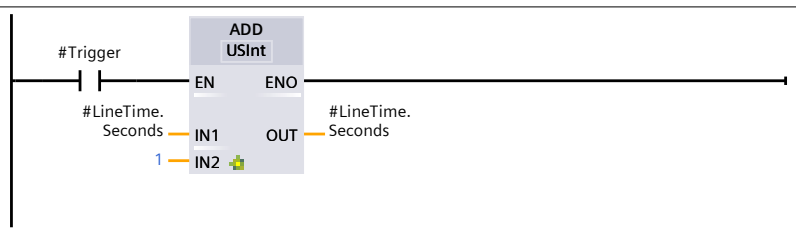
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Time

LOG_CalculateWorkTime [FC1300]

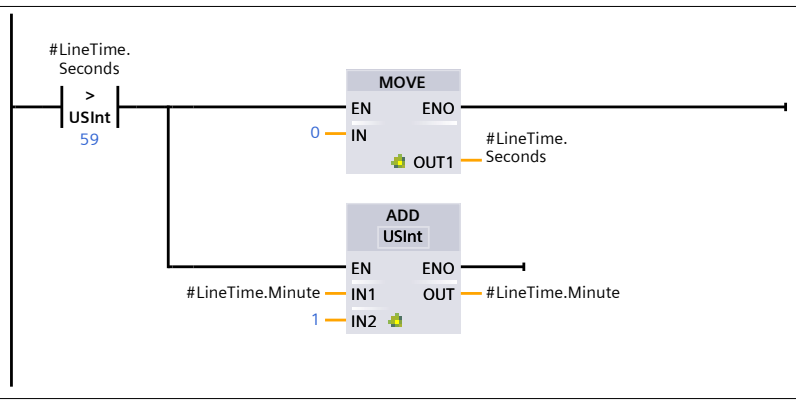
LOG_CalculateWorkTime Properties							
General							
Name	LOG_CalculateWorkTime	**Number**	1300	**Type**	FC	**Language**	LAD
Numbering	Manual						
Information							
Title	CalculateWorkTime	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
Trigger	Bool	
Output		
▼ InOut		
LineTime	"stt_TimeWork"	
Temp		
Constant		
▼ Return		
LOG_CalculateWorkTime	Void	

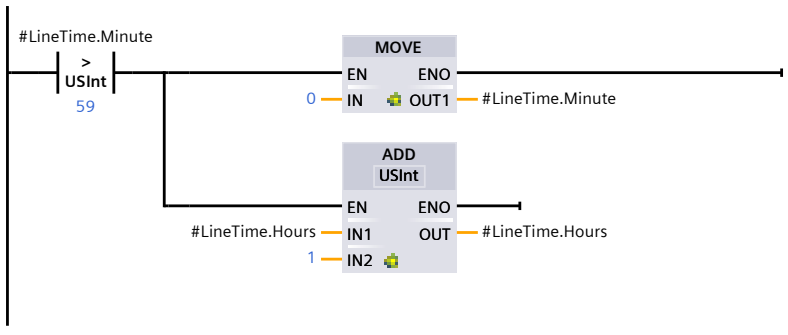
Network 1: Seconds



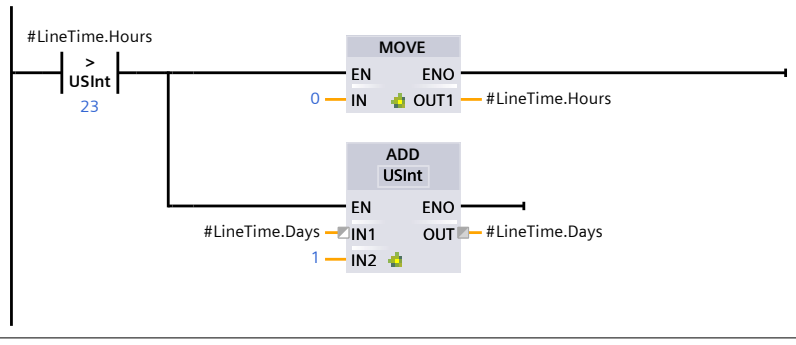
Network 2: Minute



Network 3: Hours



Network 4: Days



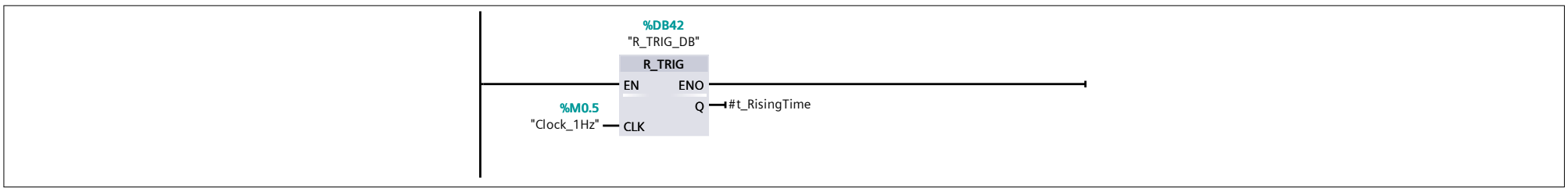
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Time

LOG_ConveyorTime [FC20]

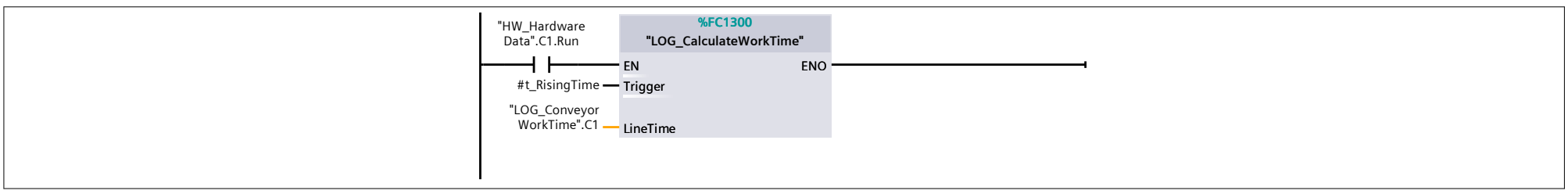
LOG_ConveyorTime Properties							
General							
Name	LOG_ConveyorTime	**Number**	20	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ConveyorTime	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
t_RisingTime	Bool	
Constant		
▼ Return		
LOG_ConveyorTime	Void	

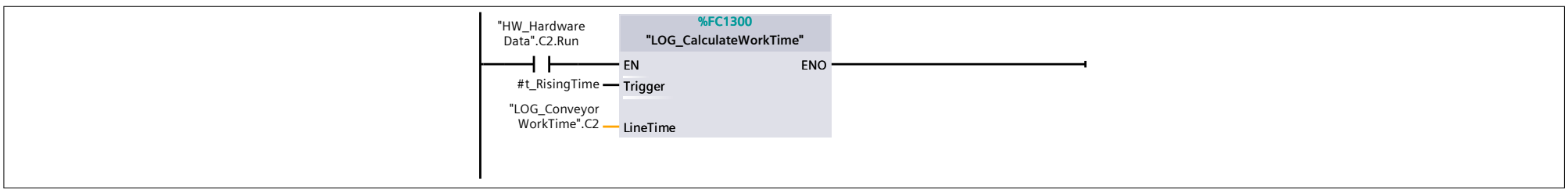
Network 1: Trigger



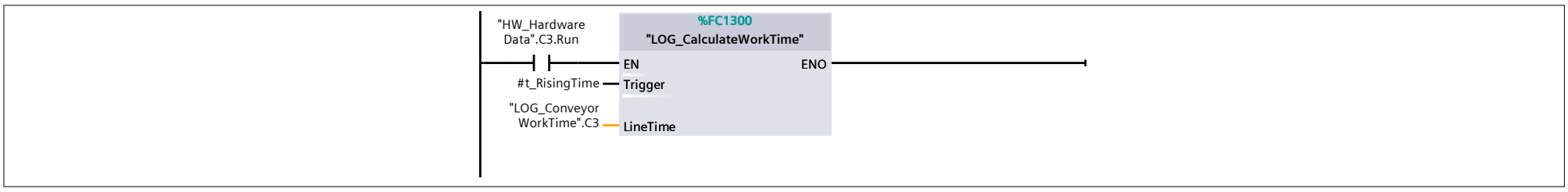
Network 2: Call: CalculateWorkTime - C1



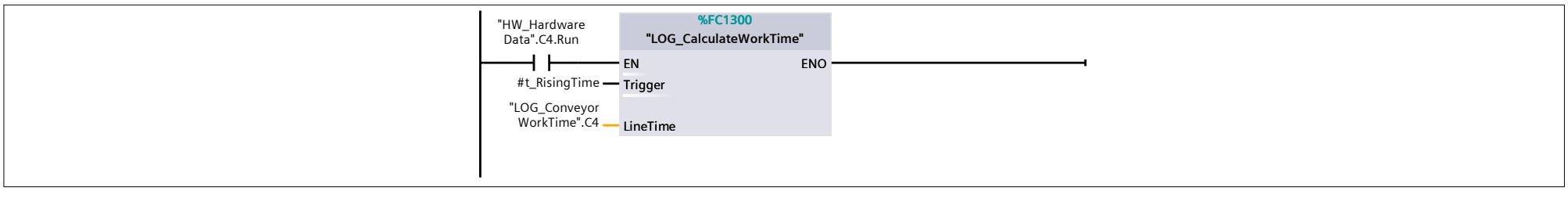
Network 3: Call: CalculateWorkTime - C2



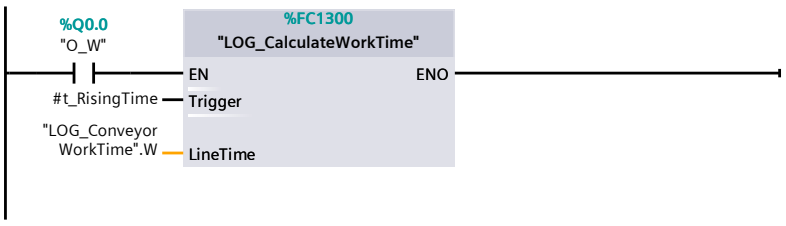
Network 4: Call: CalculateWorkTime - C3



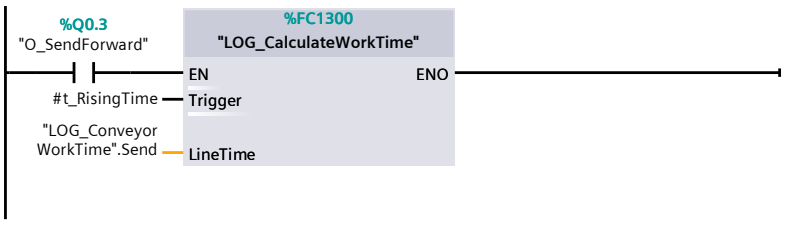
Network 5: Call: CalculateWorkTime - C4



Network 6: Call: CalculateWorkTime - W



Network 7: Call: CalculateWorkTime - Send



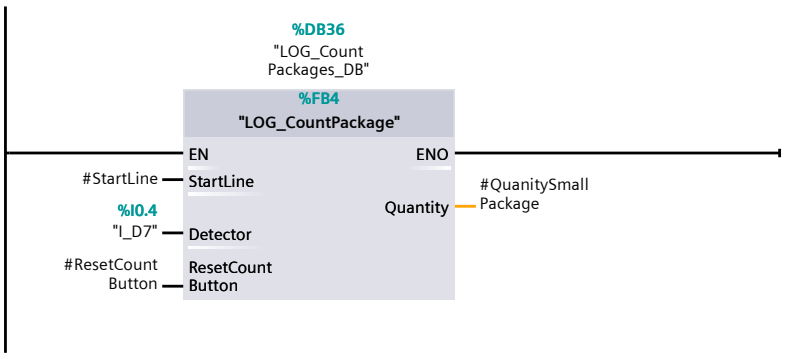
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Count

LOG_CountPackages [FC9]

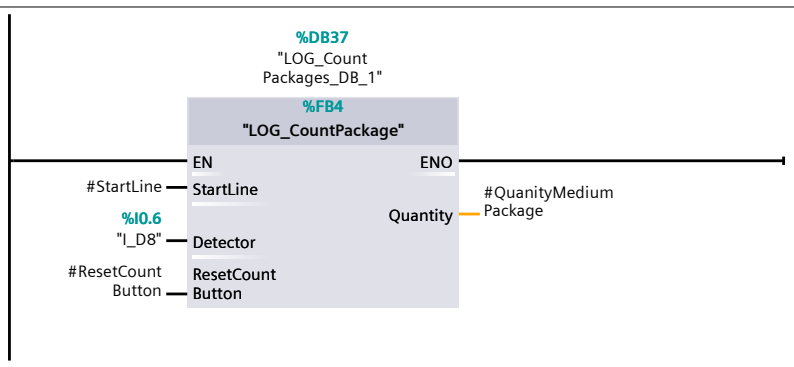
LOG_CountPackages Properties							
General							
Name	LOG_CountPackages	**Number**	9	**Type**	FC	**Language**	LAD
Numbering	Manual						
Information							
Title	CountPackages	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
StartLine	Bool	
ResetCountButton	Bool	
▼ Output		
LeftCount	Int	
ForwardCount	Int	
RightCount	Int	
▼ InOut		
QuanitySmallPackage	Int	
QuanityMediumPackage	Int	
QuanityLargePackage	Int	
Temp		
Constant		
▼ Return		
LOG_CountPackages	Void	

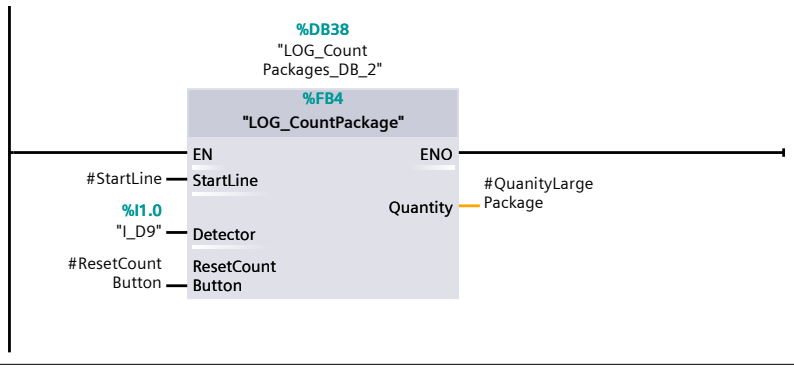
Network 1: Call: CountPackage - Small



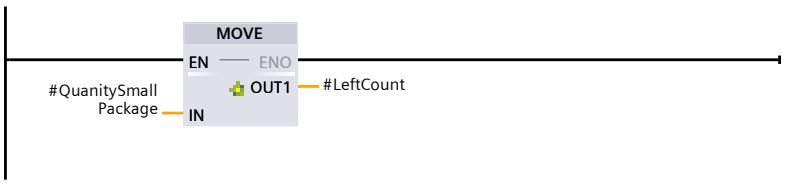
Network 2: Call: CountPackage - Medium



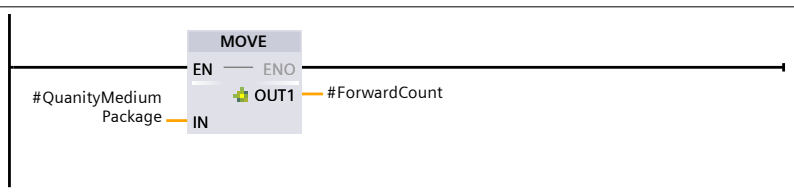
Network 3: Call: CountPackage - Large



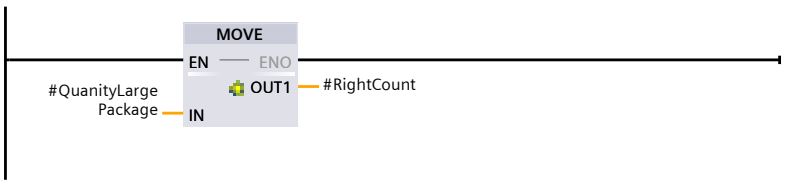
Network 4: Move: LeftCount



Network 5: Move: ForwardCount



Network 6: Move: RightCount



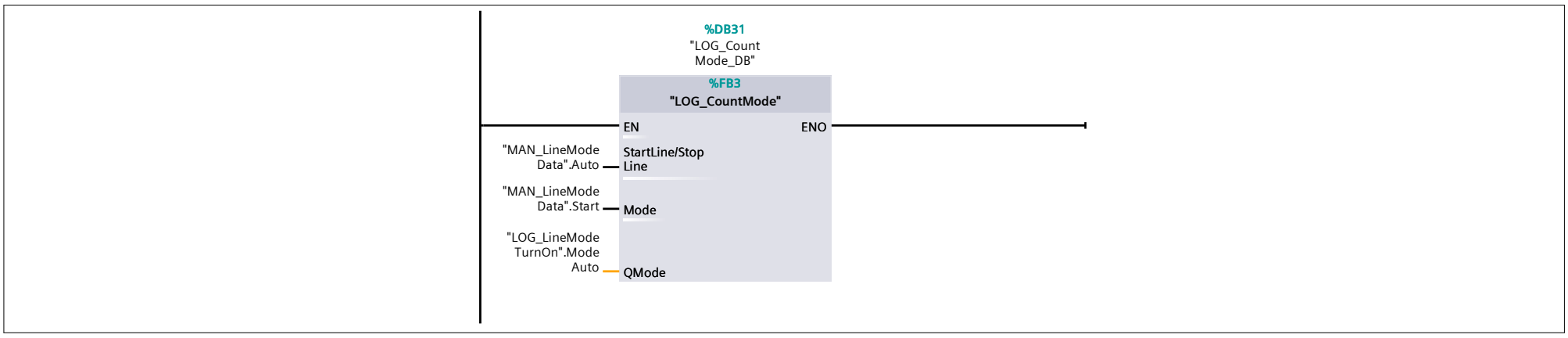
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Count

LOG_CountModes [FC19]

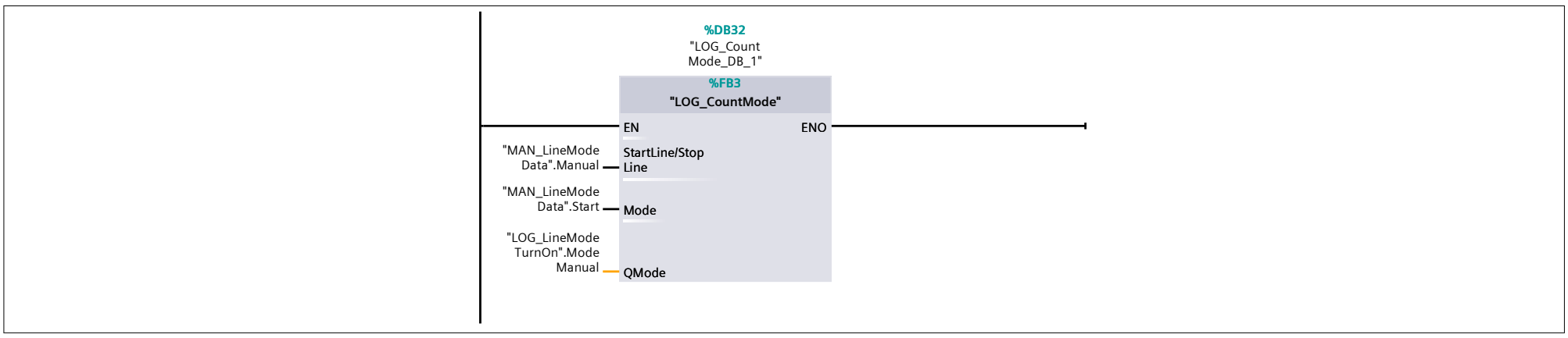
LOG_CountModes Properties							
General							
Name	LOG_CountModes	**Number**	19	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	CountModes	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
LOG_CountModes	Void	

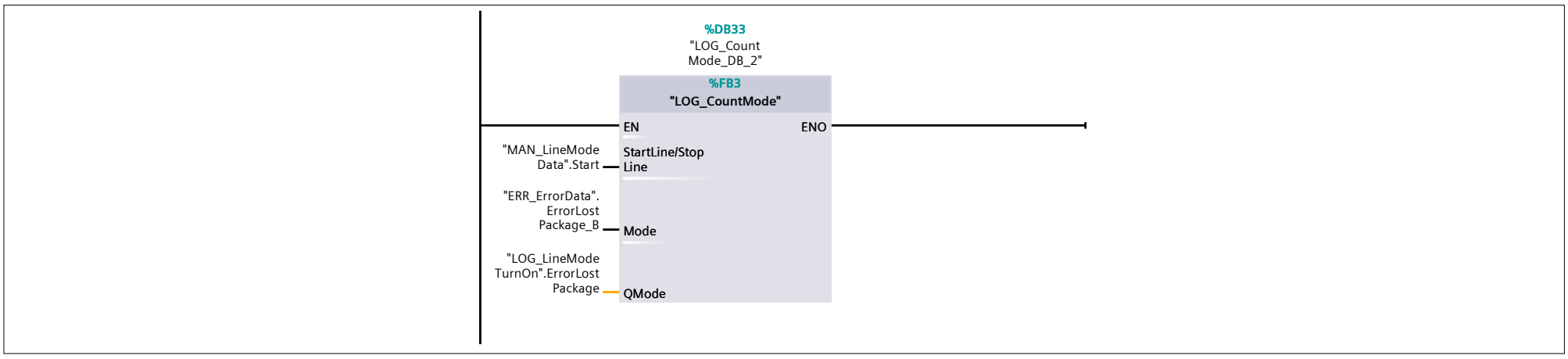
Network 1: Call: CountMode - Auto



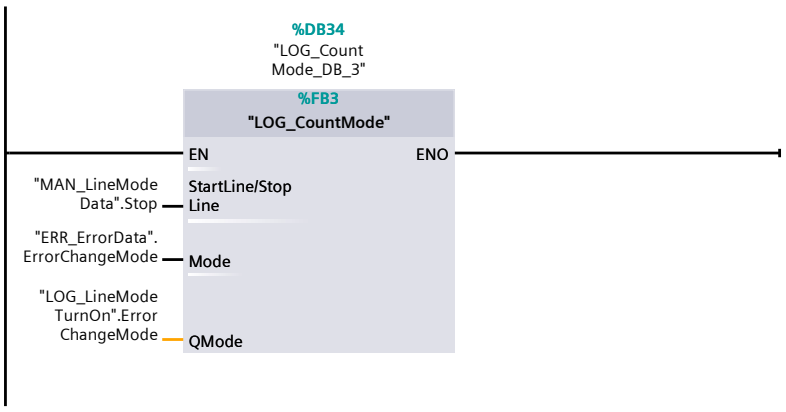
Network 2: Call: CountMode - Manual



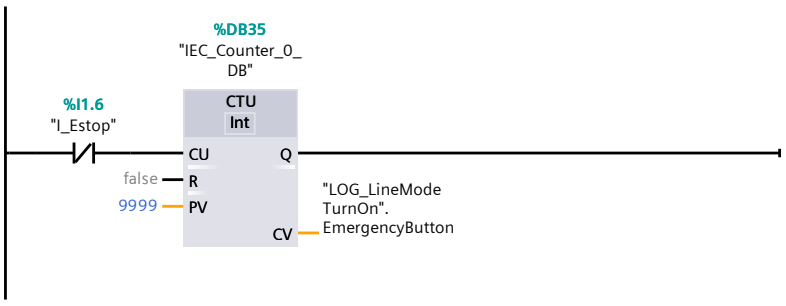
Network 3: Call: CountMode - ErrorLostPackage



Network 4: Call: CountMode - ErrorChangeMode



Network 5: Call: CountMode - ErrorEmergencyStop



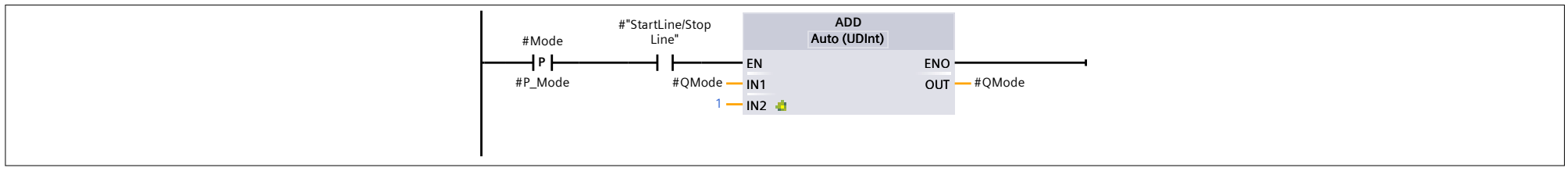
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Count

LOG_CountMode [FB3]

LOG_CountMode Properties							
General							
Name	LOG_CountMode	**Number**	3	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	CountMode	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
StartLine/StopLine	Bool	false	Non-retain
Mode	Bool	false	Non-retain
Output			
▼ InOut			
QMode	UDInt	0	Non-retain
▼ Static			
P_Mode	Bool	false	Non-retain
Temp			
Constant			

Network 1: count



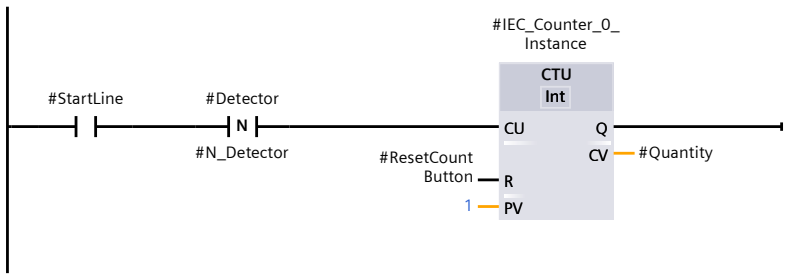
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Statistic / Count

LOG_CountPackage [FB4]

LOG_CountPackage Properties							
General							
Name	LOG_CountPackage	**Number**	4	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	CountPackage	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
StartLine	Bool	false	Non-retain
Detector	Bool	false	Non-retain
ResetCountButton	Bool	false	Non-retain
▼ Output			
Quantity	Int	0	Non-retain
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		Retain
N_Detector	Bool	false	Retain
Temp			
Constant			

Network 1: count



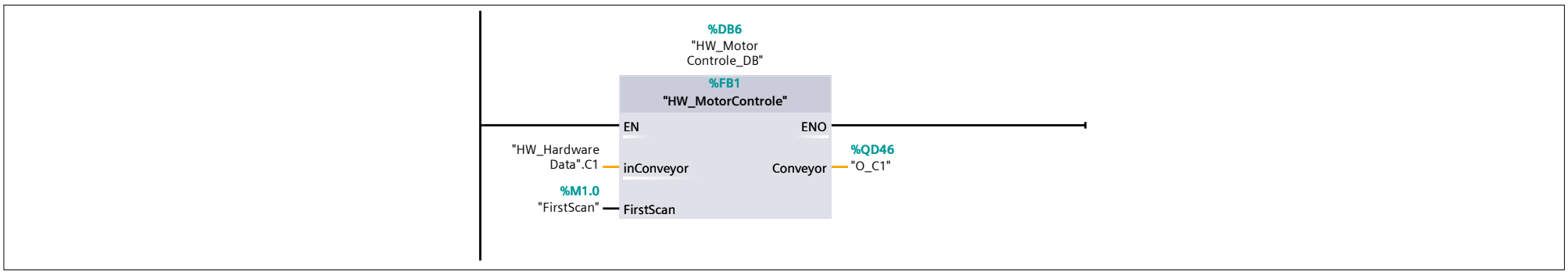
PLC_1 [CPU 1511-1 PN] / Program blocks / 04_Hardware

HW_ClassHardware [FC5]

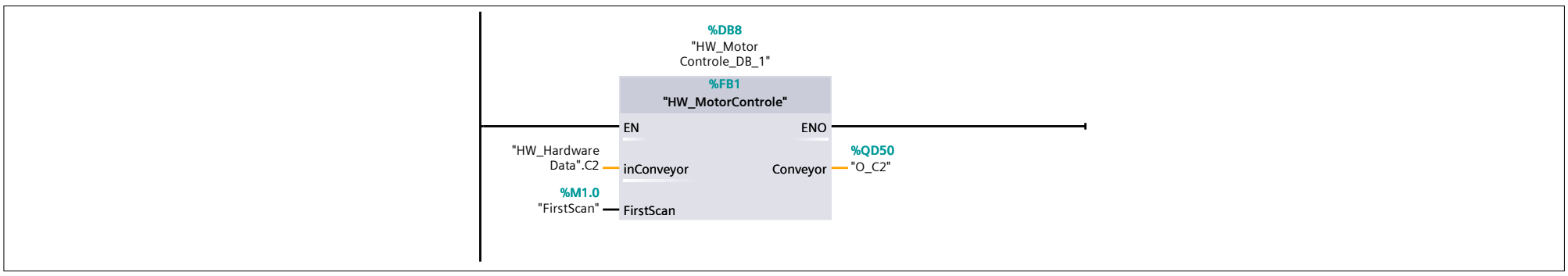
HW_ClassHardware Properties							
General							
Name	HW_ClassHardware	**Number**	5	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ClassHardware	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
HW_ClassHardware	Void	

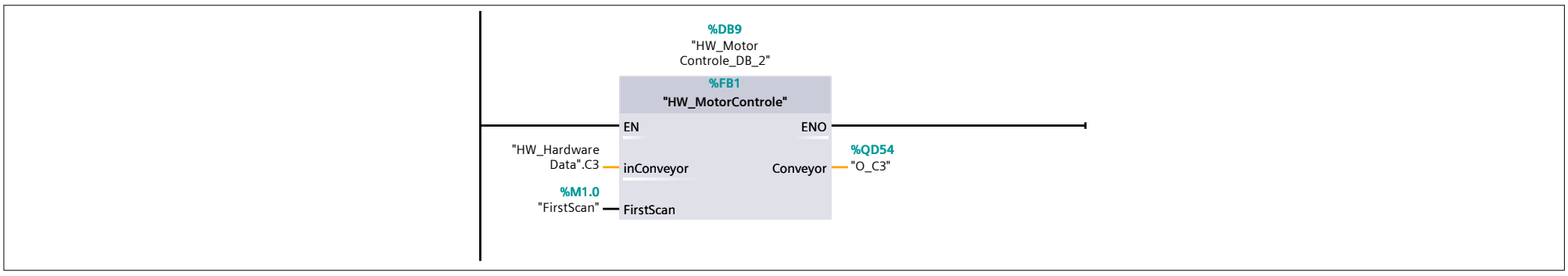
Network 1: Call: MotorControle - C1



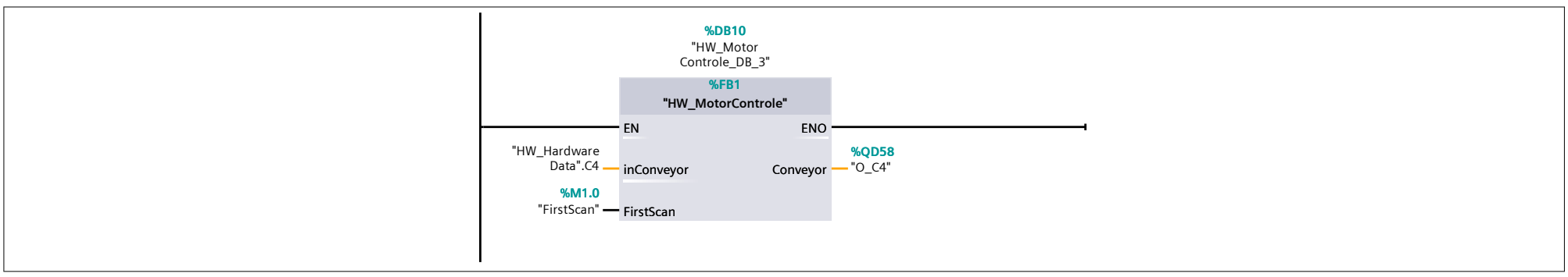
Network 2: Call: MotorControle - C2



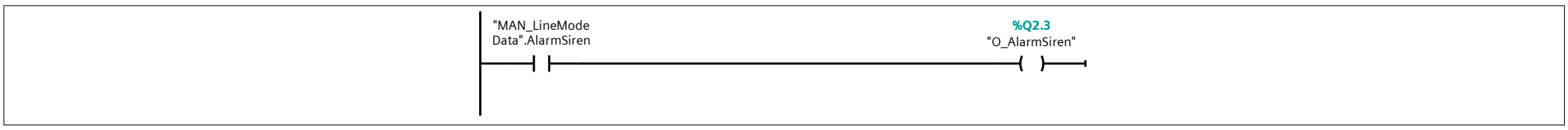
Network 3: Call: MotorControle - C3



Network 4: Call: MotorControle - C4



Network 5: AlarmSiren


"MAN_LineMode
Data".AlarmSiren
%Q2.3
"O_AlarmSiren"

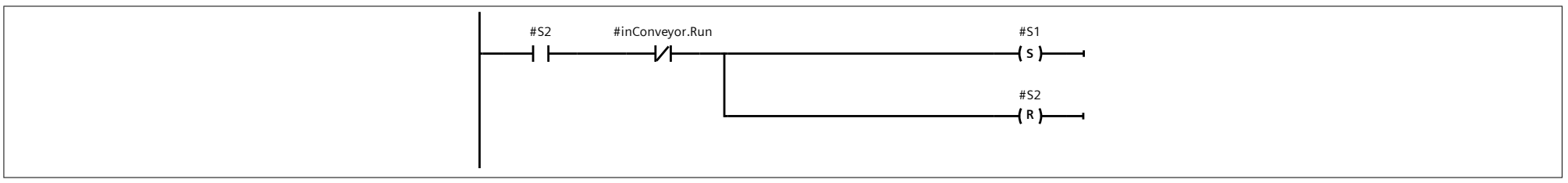
PLC_1 [CPU 1511-1 PN] / Program blocks / 04_Hardware

HW_MotorControle [FB1]

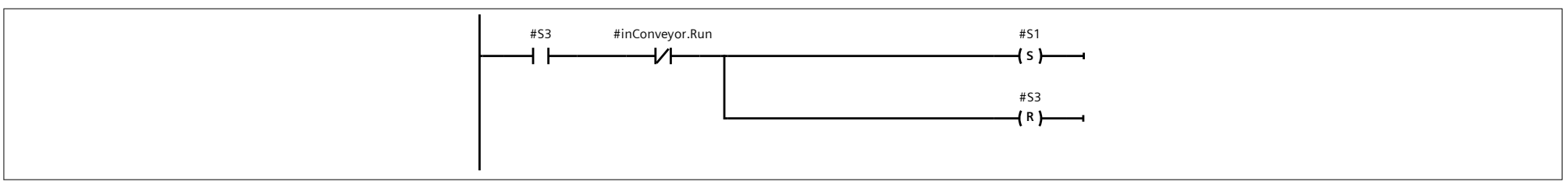
HW_MotorControle Properties							
General							
Name	HW_MotorControle	**Number**	1	**Type**	FB	**Language**	LAD
Numbering	Automatic						
Information							
Title	MotorControle - Sequential algorithm	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
Input			
inConveyor	"stt_Motor"		Non-retain
FirstScan	Bool	false	Non-retain
Output			
Conveyor	Real	0.0	Non-retain
InOut			
Static			
S1	Bool	false	Non-retain
S2	Bool	false	Non-retain
S3	Bool	false	Non-retain
S4	Bool	false	Non-retain
S5	Bool	false	Non-retain
t1	Bool	false	Non-retain
t2	Bool	false	Non-retain
speedLeft	Real	0.0	Non-retain
IEC_Timer_0_Instance	TON_TIME		Non-retain
IEC_Timer_0_Instance_1	TON_TIME		Non-retain
Temp			
Constant			

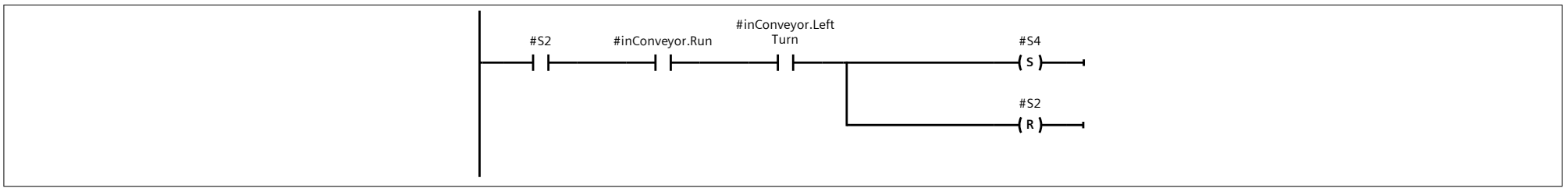
Network 1: Step 2-1



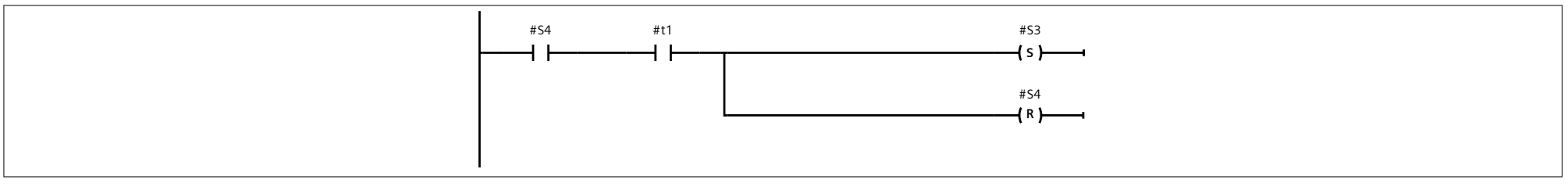
Network 2: Step 3-1



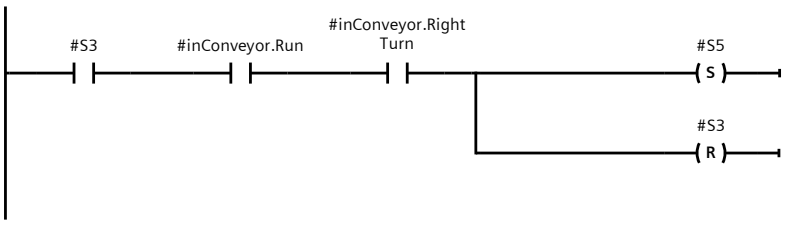
Network 3: Step 2-4



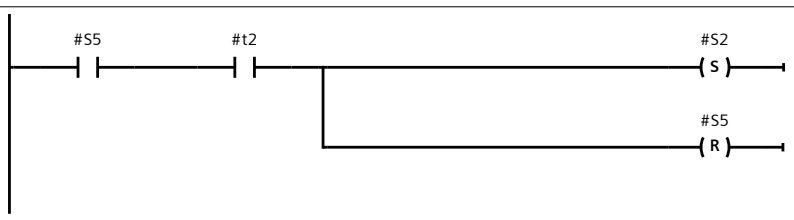
Network 4: Step 4-3



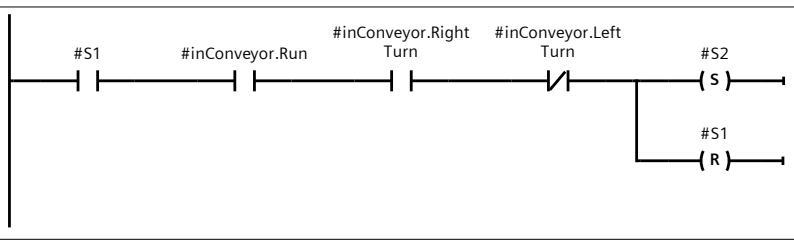
Network 5: Step 3-5



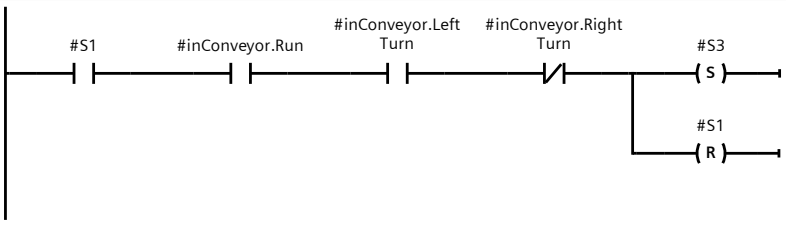
Network 6: Step 5-2



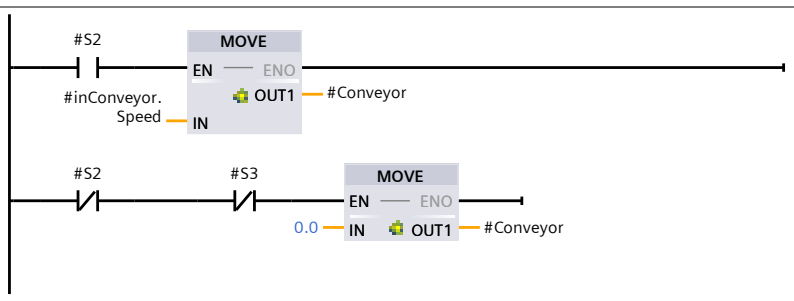
Network 7: Step 1-2



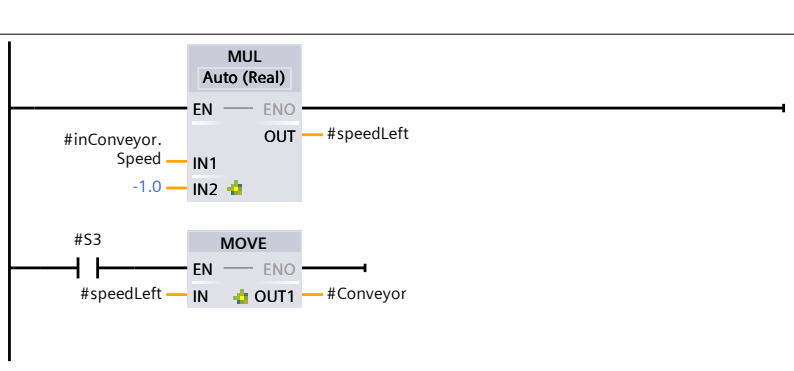
Network 8: Step 1-3



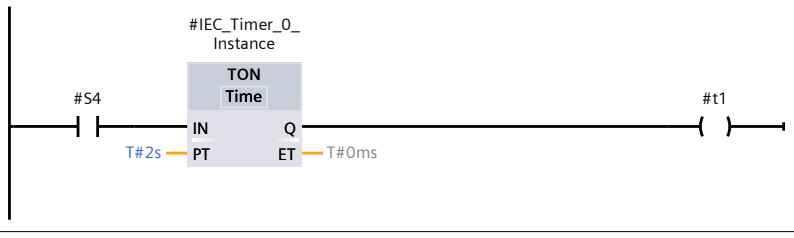
Network 9: Step 2 output



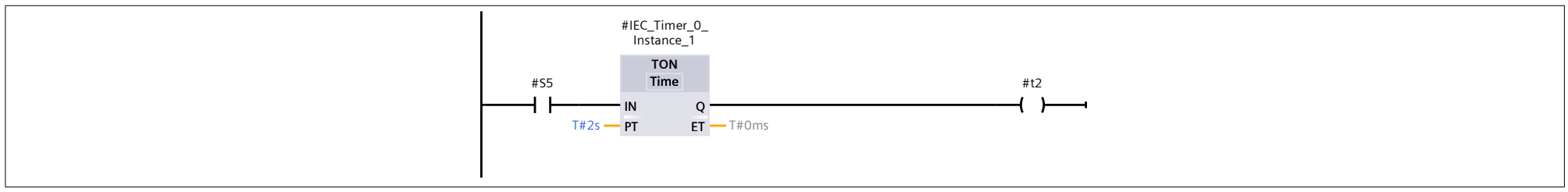
Network 10: Step 3 output



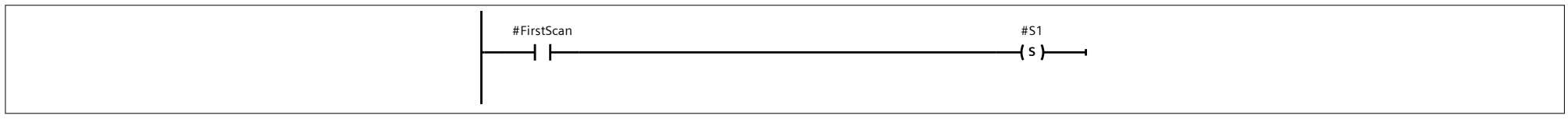
Network 11: Step 4 output



Network 12: Step 5 output



Network 13: First Scan



PLC_1 [CPU 1511-1 PN] / Program blocks / 04_Hardware

HW_HardwareData [DB16]

HW_HardwareData Properties							
General							
Name	HW_HardwareData	**Number**	16	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
C1	"stt_Motor"		False
C2	"stt_Motor"		False
C3	"stt_Motor"		False
C4	"stt_Motor"		False
W	Bool	false	False
SendLeft	Bool	false	False
SendForward	Bool	false	False
SendRight	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / 04_Hardware / Weight

HW_MovingAverageFilter [FB8]

HW_MovingAverageFilter Properties							
General							
Name	HW_MovingAverageFilter	**Number**	8	**Type**	FB	**Language**	SCL
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
Start	Bool	false	Non-retain
Samples	Int	0	Non-retain
Weight	Real	0.0	Non-retain
▼ Output			
WeightFilter	Real	0.0	Non-retain
InOut			
▼ Static			
Bufor	Array[0..99] of Real		Non-retain
▼ Temp			
Sum	Real		
index	Int		
Constant			

```
0001 IF #Start THEN
0002   FOR #index := (#Samples - 2) TO 0 BY -1 DO
0003     #Bufor[#index + 1] := #Bufor[#index];
0004   END_FOR;
0005
0006   #Bufor[0] := #Weight;
0007   #Sum := 0;
0008
0009   FOR #index := 0 TO (#Samples - 1) DO
0010     #Sum := #Sum + #Bufor[#index];
0011   END_FOR;
0012
0013   #WeightFilter := #Sum / #Samples;
0014 ELSE
0015   #WeightFilter := 0;
0016 END_IF;
0017
0018
0019
0020
0021
0022
0023
0024
0025
```

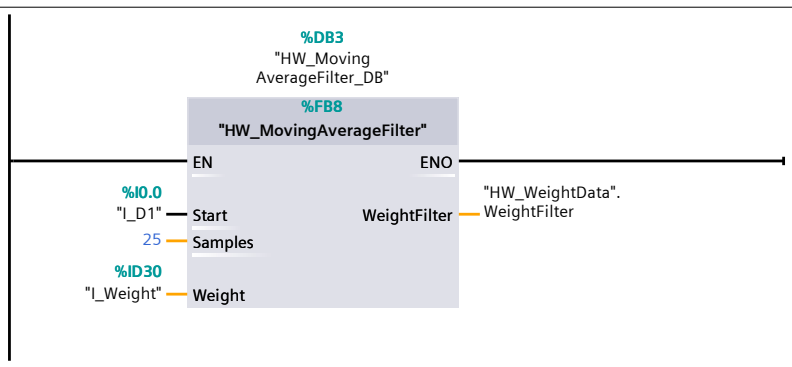
PLC_1 [CPU 1511-1 PN] / Program blocks / 04_Hardware / Weight

HW_Weight [OB30]

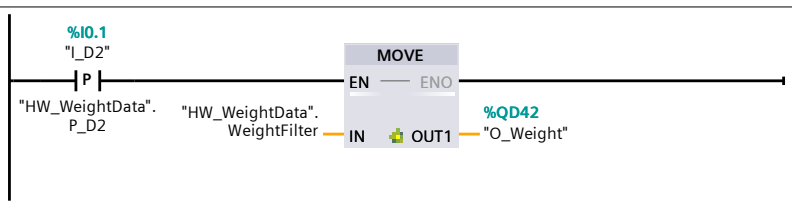
HW_Weight Properties							
General							
Name	HW_Weight	**Number**	30	**Type**	OB	**Language**	LAD
Numbering	Automatic						
Information							
Title	Weight	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Initial_Call	Bool	
Event_Count	Int	
Temp		
Work	Bool	
Constant		

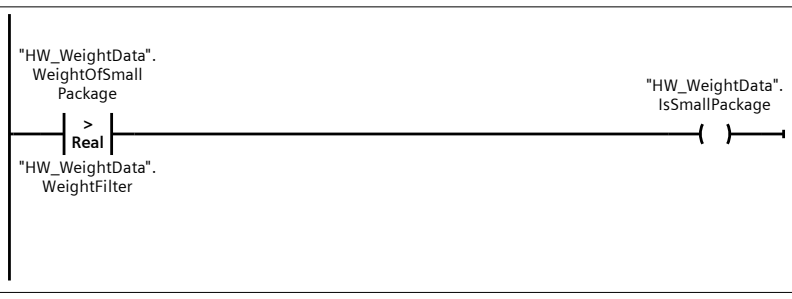
Network 1: Call: MovingAverageFilter



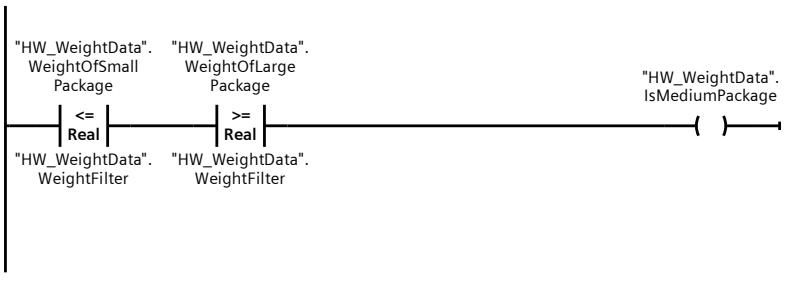
Network 2: Move: WeightFilter -> O_Weight



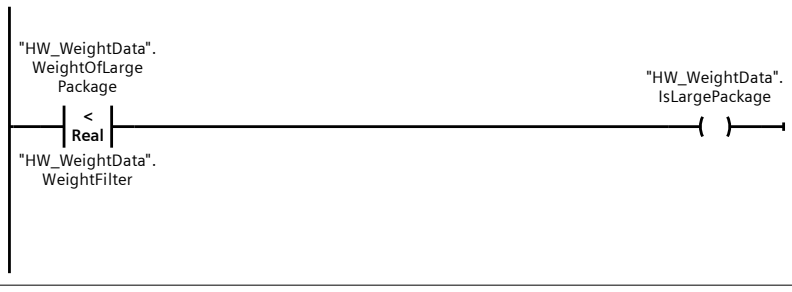
Network 3: CMP: isSmallPackage



Network 4: CMP: isMediumPackage



Network 5: CMP: isLargePackage



PLC_1 [CPU 1511-1 PN] / Program blocks / 04_Hardware / Weight

HW_WeightData [DB22]

HW_WeightData Properties							
General							
Name	HW_WeightData	**Number**	22	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
WeightFilter	Real	0.0	False
P_D2	Bool	false	False
WeightOfSmallPackage	Real	0.0	False
WeightOfLargePackage	Real	0.0	False
IsSmallPackage	Bool	false	False
IsMediumPackage	Bool	false	False
IsLargePackage	Bool	false	False

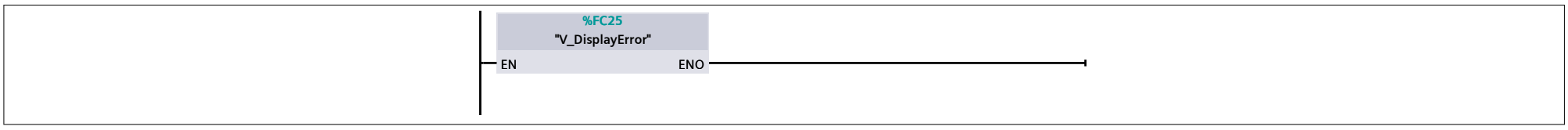
PLC_1 [CPU 1511-1 PN] / Program blocks / 05_HMI

H_ClassHMI [FC6]

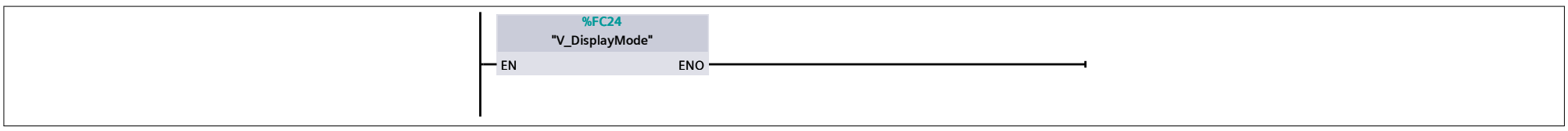
H_ClassHMI Properties							
General							
Name	H_ClassHMI	**Number**	6	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	ClassHMI	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
H_ClassHMI	Void	

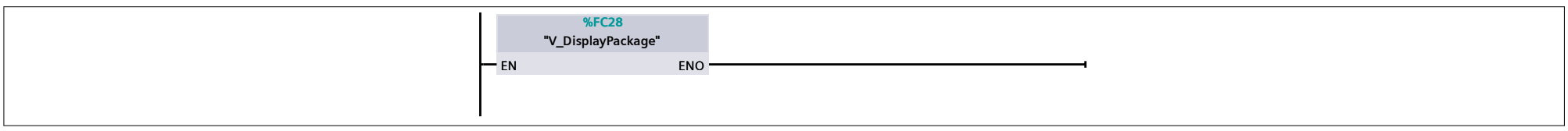
Network 1: Call: DisplayError



Network 2: Call: DisplayMode



Network 3: Call: DisplayPackage



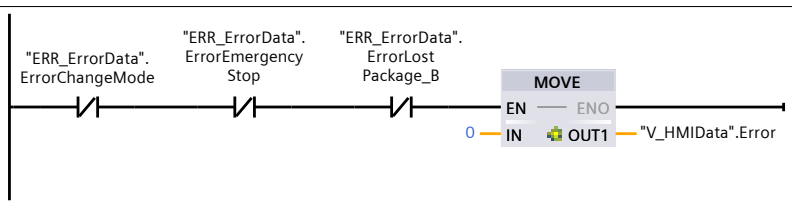
PLC_1 [CPU 1511-1 PN] / Program blocks / 05_HMI

V_DisplayError [FC25]

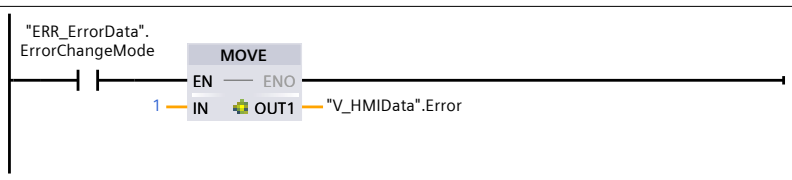
V_DisplayError Properties							
General							
Name	V_DisplayError	**Number**	25	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	DisplayError	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
V_DisplayError	Void	

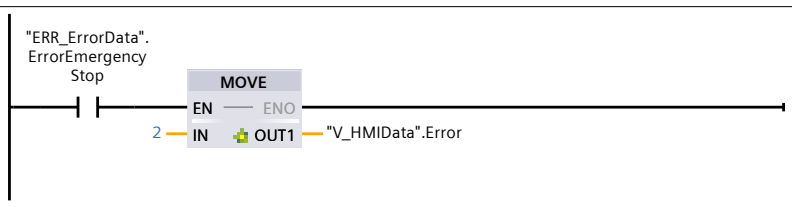
Network 1: 0 - Error



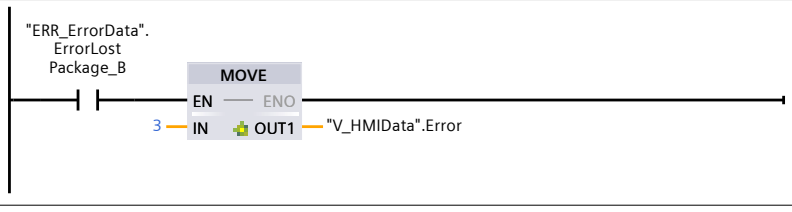
Network 2: 1 - Error



Network 3: 2 - Error



Network 4: 3 - Error



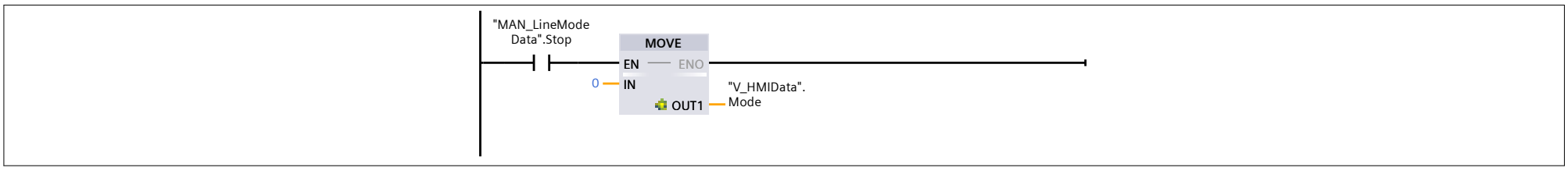
PLC_1 [CPU 1511-1 PN] / Program blocks / 05_HMI

V_DisplayMode [FC24]

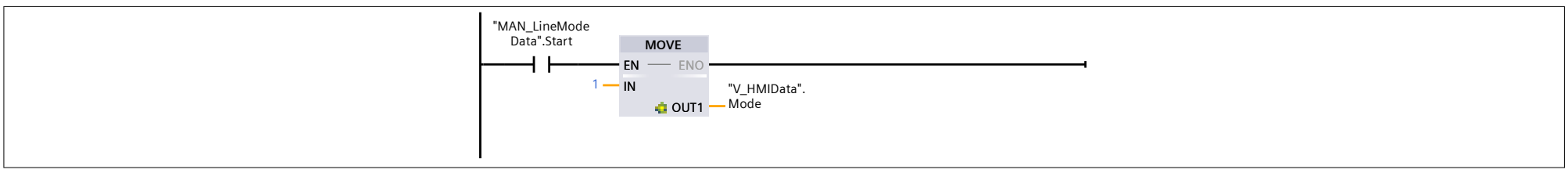
V_DisplayMode Properties							
General							
Name	V_DisplayMode	**Number**	24	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	DisplayMode	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
V_DisplayMode	Void	

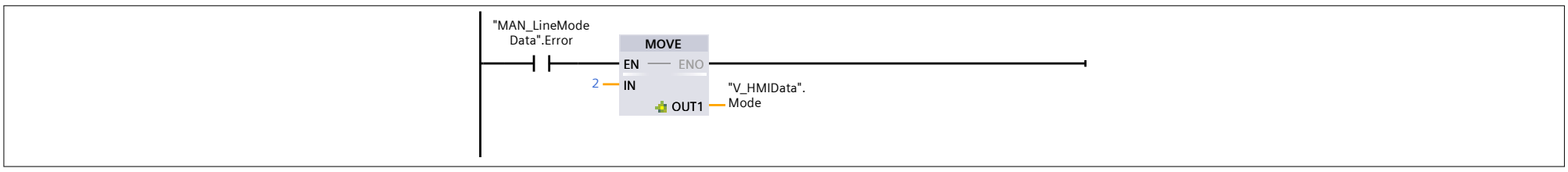
Network 1: 0 - Mode



Network 2: 1 - Mode



Network 3: 2 - Mode



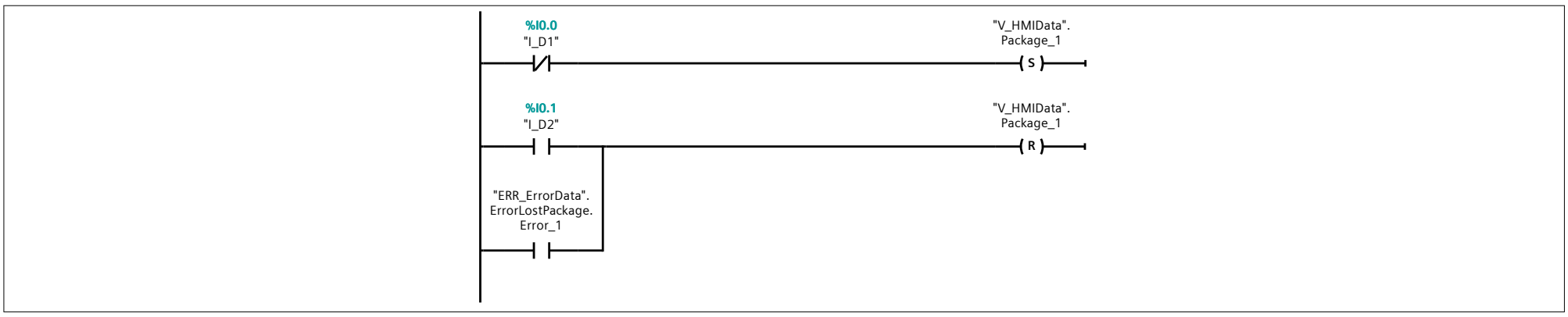
PLC_1 [CPU 1511-1 PN] / Program blocks / 05_HMI

V_DisplayPackage [FC28]

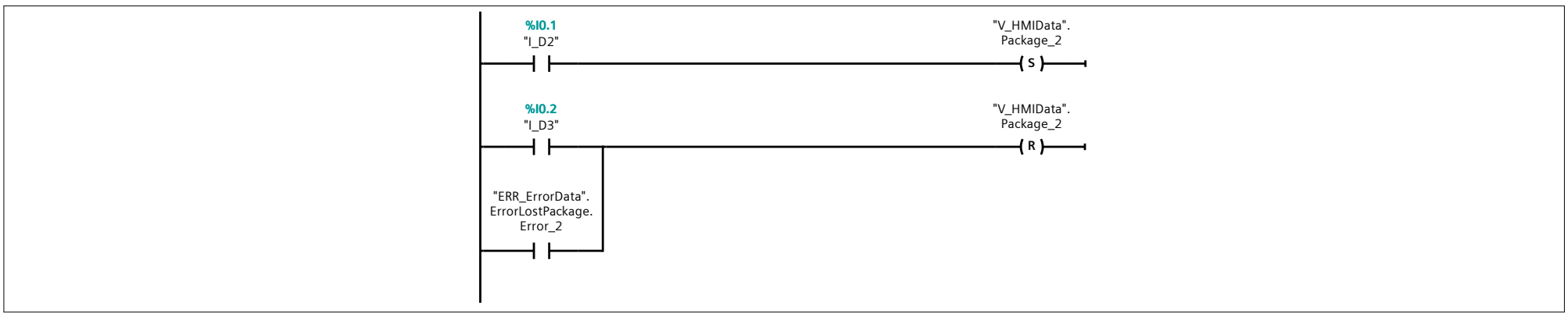
V_DisplayPackage Properties							
General							
Name	V_DisplayPackage	**Number**	28	**Type**	FC	**Language**	LAD
Numbering	Automatic						
Information							
Title	DisplayPackage	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
tp1	Bool	
Constant		
▼ Return		
V_DisplayPackage	Void	

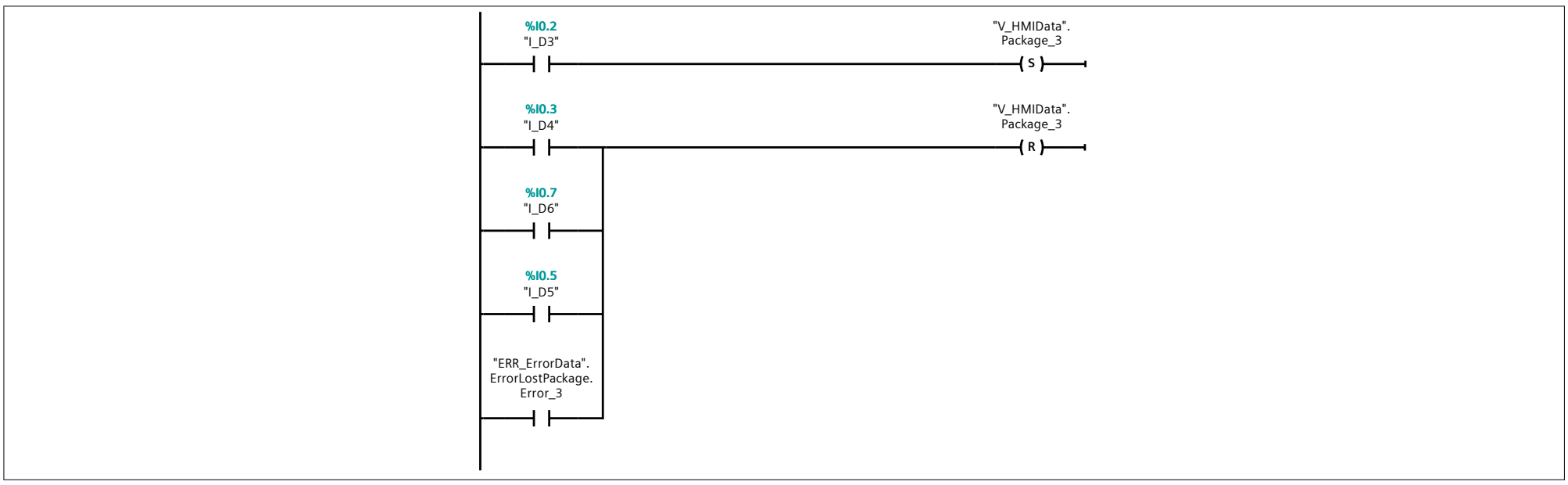
Network 1: Package_1



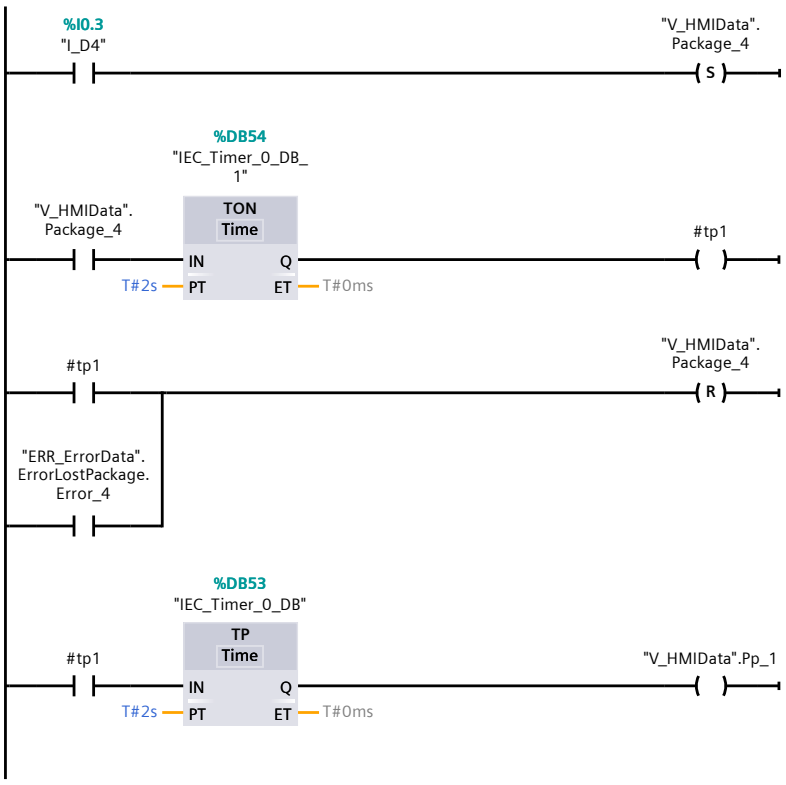
Network 2: Package_2



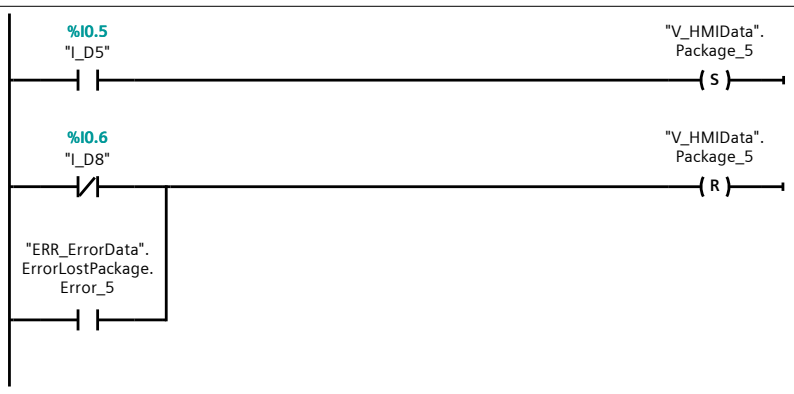
Network 3: Package_3



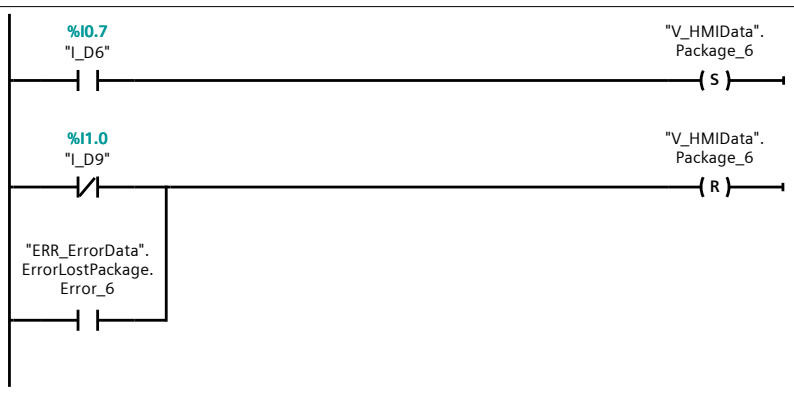
Network 4: Package_4 - New Version



Network 5: Package_5



Network 6: Package_6



PLC_1 [CPU 1511-1 PN] / Program blocks / 05_HMI

V_HMIData [DB40]

V_HMIData Properties							
General							
Name	V_HMIData	**Number**	40	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Static			
Mode	Int	0	False
Error	Int	0	False
Package_1	Bool	false	False
Package_2	Bool	false	False
Package_3	Bool	false	False
Package_4	Bool	false	False
Package_5	Bool	false	False
Package_6	Bool	false	False
Pp_1	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

MAN_ControlLine_DB [DB2]

MAN_ControlLine_DB Properties							
General							
Name	MAN_ControlLine_DB	**Number**	2	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
ButtonStart	Bool	false	False
ButtonStop	Bool	false	False
ModeManual	Bool	false	False
ModeAuto	Bool	false	False
GlobalError	Bool	false	False
FirstScan	Bool	false	False
▼ Output			
StartLine	Bool	false	False
StopLine	Bool	false	False
AlarmSiren	Bool	false	False
InOut			
▼ Static			
s1	Bool	false	False
s2	Bool	false	False
s3	Bool	false	False
s4	Bool	false	False
P_ButtonStart_1	Bool	false	False
P_ButtonStart_2	Bool	false	False
IEC_Timer_0_Instance	TP_TIME		False
Run	Bool	false	False
N_Run	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

MAN_ControlLine_DB_1 [DB5]

MAN_ControlLine_DB_1 Properties							
General							
Name	MAN_ControlLine_DB_1	**Number**	5	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
ButtonStart	Bool	false	False
ButtonStop	Bool	false	False
ModeManual	Bool	false	False
ModeAuto	Bool	false	False
GlobalError	Bool	false	False
FirstScan	Bool	false	False
▼ Output			
StartLine	Bool	false	False
StopLine	Bool	false	False
AlarmSiren	Bool	false	False
InOut			
▼ Static			
s1	Bool	false	False
s2	Bool	false	False
s3	Bool	false	False
s4	Bool	false	False
P_ButtonStart_1	Bool	false	False
P_ButtonStart_2	Bool	false	False
IEC_Timer_0_Instance	TP_TIME		False
Run	Bool	false	False
N_Run	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

HW_MovingAverageFilter_DB [DB3]

HW_MovingAverageFilter_DB Properties							
General							
Name	HW_MovingAverageFil-ter_DB	**Number**	3	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
Start	Bool	false	False
Samples	Int	0	False
Weight	Real	0.0	False
▼ Output			
WeightFilter	Real	0.0	False
InOut			
▼ Static			
Bufor	Array[0..99] of Real		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

HW_MotorControle_DB [DB6]

HW_MotorControle_DB Properties							
General							
Name	HW_MotorControle_DB	**Number**	6	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
inConveyor	"stt_Motor"		False
FirstScan	Bool	false	False
▼ Output			
Conveyor	Real	0.0	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
S4	Bool	false	False
S5	Bool	false	False
t1	Bool	false	False
t2	Bool	false	False
speedLeft	Real	0.0	False
IEC_Timer_0_Instance	TON_TIME		False
IEC_Timer_0_Instance_1	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

HW_MotorControle_DB_1 [DB8]

HW_MotorControle_DB_1 Properties							
General							
Name	HW_MotorControle_DB_1	**Number**	8	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
inConveyor	"stt_Motor"		False
FirstScan	Bool	false	False
▼ Output			
Conveyor	Real	0.0	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
S4	Bool	false	False
S5	Bool	false	False
t1	Bool	false	False
t2	Bool	false	False
speedLeft	Real	0.0	False
IEC_Timer_0_Instance	TON_TIME		False
IEC_Timer_0_Instance_1	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

HW_MotorControle_DB_2 [DB9]

HW_MotorControle_DB_2 Properties							
General							
Name	HW_MotorControle_DB_2	**Number**	9	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
inConveyor	"stt_Motor"		False
FirstScan	Bool	false	False
▼ Output			
Conveyor	Real	0.0	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
S4	Bool	false	False
S5	Bool	false	False
t1	Bool	false	False
t2	Bool	false	False
speedLeft	Real	0.0	False
IEC_Timer_0_Instance	TON_TIME		False
IEC_Timer_0_Instance_1	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

HW_MotorControle_DB_3 [DB10]

HW_MotorControle_DB_3 Properties							
General							
Name	HW_MotorControle_DB_3	**Number**	10	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
inConveyor	"stt_Motor"		False
FirstScan	Bool	false	False
▼ Output			
Conveyor	Real	0.0	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
S4	Bool	false	False
S5	Bool	false	False
t1	Bool	false	False
t2	Bool	false	False
speedLeft	Real	0.0	False
IEC_Timer_0_Instance	TON_TIME		False
IEC_Timer_0_Instance_1	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB [DB12]

LOG_ManualModule_DB Properties							
General							
Name	LOG_ManualModule_DB	**Number**	12	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_1 [DB13]

LOG_ManualModule_DB_1 Properties							
General							
Name	LOG_ManualModule_DB_1	**Number**	13	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_2 [DB14]

LOG_ManualModule_DB_2 Properties							
General							
Name	LOG_ManualModule_DB_2	**Number**	14	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_3 [DB15]

LOG_ManualModule_DB_3 Properties							
General							
Name	LOG_ManualModule_DB_3	**Number**	15	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_4 [DB17]

LOG_ManualModule_DB_4 Properties							
General							
Name	LOG_ManualModule_DB_4	**Number**	17	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_5 [DB18]

LOG_ManualModule_DB_5 Properties							
General							
Name	LOG_ManualModule_DB_5	**Number**	18	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_6 [DB19]

LOG_ManualModule_DB_6 Properties							
General							
Name	LOG_ManualModule_DB_6	**Number**	19	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_ManualModule_DB_7 [DB20]

LOG_ManualModule_DB_7 Properties							
General							
Name	LOG_ManualModule_DB_7	**Number**	20	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeManual	Bool	false	False
ButtonAction	Bool	false	False
▼ Output			
StartAction	Bool	false	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
P_ButtonAction	Bool	false	False
CV	Int	0	False
Reset	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_AutoControle_DB [DB11]

LOG_AutoControle_DB Properties							
General							
Name	LOG_AutoControle_DB	**Number**	11	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
SmallPackage	Bool	false	False
MediumPackage	Bool	false	False
LargePackage	Bool	false	False
D3	Bool	false	False
D4	Bool	false	False
D5	Bool	false	False
D6	Bool	false	False
FirstScan	Bool	false	False
▼ Output			
ConveyorsAuto	"stt_Conveyor"		False
InOut			
▼ Static			
s1	Bool	false	False
s2	Bool	false	False
s3	Bool	false	False
s4	Bool	false	False
s5	Bool	false	False
P_D3_1	Bool	false	False
P_D3_2	Bool	false	False
P_D3_3	Bool	false	False
N_D4	Bool	false	False
N_D5	Bool	false	False
N_D6	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_EStop_DB [DB21]

ERR_EStop_DB Properties							
General							
Name	ERR_EStop_DB	**Number**	21	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
EStopButton	Bool	false	False
ResetButton	Bool	false	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
P_ResetButton	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_LostPackage_DB [DB24]

ERR_LostPackage_DB Properties							
General							
Name	ERR_LostPackage_DB	**Number**	24	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
ResetButton	Bool	false	False
Di	Bool	false	False
Dj	Bool	false	False
FirstScan	Bool	false	False
Time	Time	T#0ms	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
t1	Bool	false	False
P_ResetButton	Bool	false	False
IEC_Timer_0_Instance	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_LostPackage_DB_1 [DB25]

ERR_LostPackage_DB_1 Properties							
General							
Name	ERR_LostPackage_DB_1	**Number**	25	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
ResetButton	Bool	false	False
Di	Bool	false	False
Dj	Bool	false	False
FirstScan	Bool	false	False
Time	Time	T#0ms	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
t1	Bool	false	False
P_ResetButton	Bool	false	False
IEC_Timer_0_Instance	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_LostPackage_DB_2 [DB26]

ERR_LostPackage_DB_2 Properties							
General							
Name	ERR_LostPackage_DB_2	**Number**	26	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
ResetButton	Bool	false	False
Di	Bool	false	False
Dj	Bool	false	False
FirstScan	Bool	false	False
Time	Time	T#0ms	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
t1	Bool	false	False
P_ResetButton	Bool	false	False
IEC_Timer_0_Instance	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_LostPackage_DB_3 [DB28]

ERR_LostPackage_DB_3 Properties							
General							
Name	ERR_LostPackage_DB_3	**Number**	28	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
ResetButton	Bool	false	False
Di	Bool	false	False
Dj	Bool	false	False
FirstScan	Bool	false	False
Time	Time	T#0ms	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
t1	Bool	false	False
P_ResetButton	Bool	false	False
IEC_Timer_0_Instance	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_LostPackage_DB_4 [DB29]

ERR_LostPackage_DB_4 Properties							
General							
Name	ERR_LostPackage_DB_4	**Number**	29	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
ResetButton	Bool	false	False
Di	Bool	false	False
Dj	Bool	false	False
FirstScan	Bool	false	False
Time	Time	T#0ms	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
t1	Bool	false	False
P_ResetButton	Bool	false	False
IEC_Timer_0_Instance	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_LostPackage_DB_5 [DB30]

ERR_LostPackage_DB_5 Properties							
General							
Name	ERR_LostPackage_DB_5	**Number**	30	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
ResetButton	Bool	false	False
Di	Bool	false	False
Dj	Bool	false	False
FirstScan	Bool	false	False
Time	Time	T#0ms	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
t1	Bool	false	False
P_ResetButton	Bool	false	False
IEC_Timer_0_Instance	TON_TIME		False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_ChangeMode_DB [DB23]

ERR_ChangeMode_DB Properties							
General							
Name	ERR_ChangeMode_DB	**Number**	23	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeAuto	Bool	false	False
ModeManual	Bool	false	False
ResetButton	Bool	false	False
AlarmSiren	Bool	false	False
FirstScan	Bool	false	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
S4	Bool	false	False
S5	Bool	false	False
P_ResetButton	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

IEC_Counter_0_DB [DB35]

IEC_Counter_0_DB Properties							
General							
Name	IEC_Counter_0_DB	**Number**	35	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**	Simatic	**Comment**		**Family**	IEC
Version	1.0	**User-defined ID**	CNTR				

Name	Data type	Start value	Retain
▼ Static			
CU	Bool	false	True
CD	Bool	false	True
R	Bool	false	True
LD	Bool	false	True
QU	Bool	false	True
QD	Bool	false	True
PV	Int	0	True
CV	Int	0	True

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountMode_DB [DB31]

LOG_CountMode_DB Properties							
General							
Name	LOG_CountMode_DB	**Number**	31	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine/StopLine	Bool	false	False
Mode	Bool	false	False
Output			
▼ InOut			
QMode	UDInt	0	False
▼ Static			
P_Mode	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountMode_DB_1 [DB32]

LOG_CountMode_DB_1 Properties							
General							
Name	LOG_CountMode_DB_1	**Number**	32	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine/StopLine	Bool	false	False
Mode	Bool	false	False
Output			
▼ InOut			
QMode	UDInt	0	False
▼ Static			
P_Mode	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountMode_DB_2 [DB33]

LOG_CountMode_DB_2 Properties							
General							
Name	LOG_CountMode_DB_2	**Number**	33	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine/StopLine	Bool	false	False
Mode	Bool	false	False
Output			
▼ InOut			
QMode	UDInt	0	False
▼ Static			
P_Mode	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountMode_DB_3 [DB34]

LOG_CountMode_DB_3 Properties							
General							
Name	LOG_CountMode_DB_3	**Number**	34	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine/StopLine	Bool	false	False
Mode	Bool	false	False
Output			
▼ InOut			
QMode	UDInt	0	False
▼ Static			
P_Mode	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

R_TRIG [FB1001]

R_TRIG Properties							
General							
Name	R_TRIG	**Number**	1001	**Type**	FB	**Language**	SCL
Numbering	Automatic						
Information							
Title		**Author**	SIMATIC	**Comment**		**Family**	BIT
Version	1.0	**User-defined ID**	R_TRIG				

Name	Data type	Default value	Retain
▼ Input			
CLK	Bool	false	Non-retain
▼ Output			
Q	Bool	false	Non-retain
InOut			
▼ Static			
Stat_Bit	Bool	false	Non-retain

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

R_TRIG_DB1 [DB45]

R_TRIG_DB1 Properties							
General							
Name	R_TRIG_DB1	**Number**	45	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**	SIMATIC	**Comment**		**Family**	BIT
Version	1.0	**User-defined ID**	R_TRIG				

Name	Data type	Start value	Retain
▼ Input			
CLK	Bool	false	False
▼ Output			
Q	Bool	false	False
InOut			
▼ Static			
Stat_Bit	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

R_TRIG_DB [DB42]

R_TRIG_DB Properties							
General							
Name	R_TRIG_DB	**Number**	42	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**	SIMATIC	**Comment**		**Family**	BIT
Version	1.0	**User-defined ID**	R_TRIG				

Name	Data type	Start value	Retain
▼ Input			
CLK	Bool	false	False
▼ Output			
Q	Bool	false	False
InOut			
▼ Static			
Stat_Bit	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountPackages_DB [DB36]

LOG_CountPackages_DB Properties							
General							
Name	LOG_CountPackages_DB	**Number**	36	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
Detector	Bool	false	False
ResetCountButton	Bool	false	False
▼ Output			
Quantity	Int	0	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
N_Detector	Bool	false	True

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountPackages_DB_1 [DB37]

LOG_CountPackages_DB_1 Properties							
General							
Name	LOG_CountPackages_DB_1	**Number**	37	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
Detector	Bool	false	False
ResetCountButton	Bool	false	False
▼ Output			
Quantity	Int	0	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
N_Detector	Bool	false	True

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_CountPackages_DB_2 [DB38]

LOG_CountPackages_DB_2 Properties							
General							
Name	LOG_CountPackages_DB_2	**Number**	38	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
Detector	Bool	false	False
ResetCountButton	Bool	false	False
▼ Output			
Quantity	Int	0	False
InOut			
▼ Static			
IEC_Counter_0_Instance	CTU_INT		True
N_Detector	Bool	false	True

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_EStop_DB_1 [DB41]

ERR_EStop_DB_1 Properties							
General							
Name	ERR_EStop_DB_1	**Number**	41	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
EStopButton	Bool	false	False
ResetButton	Bool	false	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
P_ResetButton	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

ERR_ChangeMode_DB_1 [DB49]

ERR_ChangeMode_DB_1 Properties							
General							
Name	ERR_ChangeMode_DB_1	**Number**	49	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
ModeAuto	Bool	false	False
ModeManual	Bool	false	False
ResetButton	Bool	false	False
AlarmSiren	Bool	false	False
FirstScan	Bool	false	False
▼ Output			
Error	Bool	false	False
InOut			
▼ Static			
S1	Bool	false	False
S2	Bool	false	False
S3	Bool	false	False
S4	Bool	false	False
S5	Bool	false	False
P_ResetButton	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

LOG_AutoControle_DB_1 [DB51]

LOG_AutoControle_DB_1 Properties							
General							
Name	LOG_AutoControle_DB_1	**Number**	51	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
SmallPackage	Bool	false	False
MediumPackage	Bool	false	False
LargePackage	Bool	false	False
D3	Bool	false	False
D4	Bool	false	False
D5	Bool	false	False
D6	Bool	false	False
FirstScan	Bool	false	False
▼ Output			
ConveyorsAuto	"stt_Conveyor"		False
InOut			
▼ Static			
s1	Bool	false	False
s2	Bool	false	False
s3	Bool	false	False
s4	Bool	false	False
s5	Bool	false	False
P_D3_1	Bool	false	False
P_D3_2	Bool	false	False
P_D3_3	Bool	false	False
N_D4	Bool	false	False
N_D5	Bool	false	False
N_D6	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

IEC_Timer_0_DB [DB53]

IEC_Timer_0_DB Properties							
General							
Name	IEC_Timer_0_DB	**Number**	53	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**	Simatic	**Comment**		**Family**	IEC
Version	1.0	**User-defined ID**	IEC_TMR				

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

IEC_Timer_0_DB_1 [DB54]

IEC_Timer_0_DB_1 Properties							
General							
Name	IEC_Timer_0_DB_1	**Number**	54	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**	Simatic	**Comment**		**Family**	IEC
Version	1.0	**User-defined ID**	IEC_TMR				

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources

R_TRIG_DB_1 [DB56]

R_TRIG_DB_1 Properties							
General							
Name	R_TRIG_DB_1	**Number**	56	**Type**	DB	**Language**	DB
Numbering	Automatic						
Information							
Title		**Author**	SIMATIC	**Comment**		**Family**	BIT
Version	1.0	**User-defined ID**	R_TRIG				

Name	Data type	Start value	Retain
▼ Input			
CLK	Bool	false	False
▼ Output			
Q	Bool	false	False
InOut			
▼ Static			
Stat_Bit	Bool	false	False

PLC_1 [CPU 1511-1 PN]

Technology objects

This folder is empty.

PLC_1 [CPU 1511-1 PN] / PLC tags / Standard-Variablentabelle [66]

PLC tags

PLC tags				
	Name	**Data type**	**Address**	**Retain**
	System_Byte	Byte	%MB1	False
	FirstScan	Bool	%M1.0	False
	DiagStatusUpdate	Bool	%M1.1	False
	AlwaysTRUE	Bool	%M1.2	False
	AlwaysFALSE	Bool	%M1.3	False
	Clock_Byte	Byte	%MB0	False
	Clock_10Hz	Bool	%M0.0	False
	Clock_5Hz	Bool	%M0.1	False
	Clock_2.5Hz	Bool	%M0.2	False
	Clock_2Hz	Bool	%M0.3	False
	Clock_1.25Hz	Bool	%M0.4	False
	Clock_1Hz	Bool	%M0.5	False
	Clock_0.625Hz	Bool	%M0.6	False
	Clock_0.5Hz	Bool	%M0.7	False

PLC_1 [CPU 1511-1 PN] / PLC tags / Standard-Variablentabelle [66]

User constants

User constants			
	Name	Data type	Value

PLC_1 [CPU 1511-1 PN] / PLC tags / Input [25]

PLC tags

PLC tags				
	Name	**Data type**	**Address**	**Retain**
	I_D1	Bool	%I0.0	False
	I_D2	Bool	%I0.1	False
	I_D3	Bool	%I0.2	False
	I_D4	Bool	%I0.3	False
	I_D7	Bool	%I0.4	False
	I_D5	Bool	%I0.5	False
	I_D8	Bool	%I0.6	False
	I_D6	Bool	%I0.7	False
	I_D9	Bool	%I1.0	False
	I_Start	Bool	%I1.1	False
	I_Reset	Bool	%I1.2	False
	I_Stop	Bool	%I1.3	False
	I_Auto	Bool	%I1.4	False
	I_Manual	Bool	%I1.5	False
	I_Estop	Bool	%I1.6	False
	I_C1	Bool	%I1.7	False
	I_W	Bool	%I2.0	False
	I_C2	Bool	%I2.1	False
	I_C3	Bool	%I2.2	False
	I_C4	Bool	%I2.3	False
	I_SendLeft	Bool	%I2.4	False
	I_SendForward	Bool	%I2.5	False
	I_SendRight	Bool	%I2.6	False
	I_ResetCount	Bool	%I2.7	False
	I_Weight	Real	%ID30	False

PLC_1 [CPU 1511-1 PN] / PLC tags / Input [25]

User constants

User constants			
	Name	Data type	Value

PLC_1 [CPU 1511-1 PN] / PLC tags / Output [28]

PLC tags

PLC tags				
	Name	**Data type**	**Address**	**Retain**
	O_W	Bool	%Q0.0	False
	O_SendLeft	Bool	%Q0.1	False
	O_SendRight	Bool	%Q0.2	False
	O_SendForward	Bool	%Q0.3	False
	O_StartLight	Bool	%Q0.4	False
	O_ResetLight	Bool	%Q0.5	False
	O_StopLight	Bool	%Q0.6	False
	O_ColumnRed	Bool	%Q0.7	False
	O_ColumnGreen	Bool	%Q1.0	False
	O_ColumnYellow	Bool	%Q1.1	False
	O_C1_light	Bool	%Q1.2	False
	O_C2_light	Bool	%Q1.4	False
	O_C3_light	Bool	%Q1.5	False
	O_C4_light	Bool	%Q1.6	False
	O_SendLeft_light	Bool	%Q1.7	False
	O_SendForward_light	Bool	%Q2.0	False
	O_SendRight_light	Bool	%Q2.1	False
	O_ResetCount_light	Bool	%Q2.2	False
	O_AlarmSiren	Bool	%Q2.3	False
	O_W_light	Bool	%Q1.3	False
	O_LeftCount	DInt	%QD30	False
	O_ForwardCount	DInt	%QD34	False
	O_RightCOunt	DInt	%QD38	False
	O_Weight	Real	%QD42	False
	O_C1	Real	%QD46	False
	O_C2	Real	%QD50	False
	O_C3	Real	%QD54	False
	O_C4	Real	%QD58	False

PLC_1 [CPU 1511-1 PN] / PLC tags / Output [28]

User constants

User constants			
	Name	Data type	Value

PLC_1 [CPU 1511-1 PN] / PLC data types

stt_Conveyor

stt_Conveyor Properties							
General							
Name	stt_Conveyor	**Number**	3	**Type**	UDT	**Language**	
Numbering							
Information							
Title		**Author**		**Comment**		**Family**	
Version		**User-defined ID**					

Name	Data type	Default value
C1	Bool	false
C2	Bool	false
C3	Bool	false
C4	Bool	false
W	Bool	false
Left	Bool	false
Forward	Bool	false
Right	Bool	false

PLC_1 [CPU 1511-1 PN] / PLC data types

stt_Motor

stt_Motor Properties							
General							
Name	stt_Motor	**Number**	1	**Type**	UDT	**Language**	
Numbering							
Information							
Title		**Author**		**Comment**		**Family**	
Version		**User-defined ID**					

Name	Data type	Default value
Run	Bool	false
LeftTurn	Bool	false
RightTurn	Bool	false
Speed	Real	0.0

PLC_1 [CPU 1511-1 PN] / PLC data types

stt_LostPackageError

stt_LostPackageError Properties							
General							
Name	stt_LostPackageError	**Number**	4	**Type**	UDT	**Language**	
Numbering							
Information							
Title		**Author**		**Comment**		**Family**	
Version		**User-defined ID**					

Name	Data type	Default value
Error_1	Bool	false
Error_2	Bool	false
Error_3	Bool	false
Error_4	Bool	false
Error_5	Bool	false
Error_6	Bool	false

PLC_1 [CPU 1511-1 PN] / PLC data types

stt_TimeWork

stt_TimeWork Properties							
General							
Name	stt_TimeWork	**Number**	2	**Type**	UDT	**Language**	
Numbering							
Information							
Title		**Author**		**Comment**		**Family**	
Version		**User-defined ID**					

Name	Data type	Default value
Seconds	USInt	0
Minute	USInt	0
Hours	USInt	0
Days	UDInt	0

PLC_1 [CPU 1511-1 PN] / PLC data types

System data types

This folder is empty.

PLC_1 [CPU 1511-1 PN] / Watch and force tables

Forcetabelle

Name	Address	Display format	Force value

PLC_1 [CPU 1511-1 PN]

Traces

Name
Trace

PLC_1 [CPU 1511-1 PN] / Traces

Measurements

This folder is empty.

PLC_1 [CPU 1511-1 PN] / Traces

Combined measurements

Name

PLC_1 [CPU 1511-1 PN] / PLC supervisions & alarms

Supervisions

This folder is empty.

PLC_1 [CPU 1511-1 PN] / PLC supervisions & alarms

PLC alarms

PLC alarms					
Name	**Type**	**ID**	**Alarm text**	**Info text**	**Informa-tion only**

PLC_1 [CPU 1511-1 PN] / PLC supervisions & alarms

System alarms

System alarms					
Name	**Type**	**ID**	**Alarm text**	**Info text**	**Information only**
SDIAG_AL-CAT_CPU_IN-FO_MSG_000F	PLC alarm	1	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CPU_ERR_MSG_0010	PLC alarm	2	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CPU_ERR_MSG_0110	PLC alarm	3	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CPU_MD_MSG_0011	PLC alarm	4	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CPU_MD_MSG_0111	PLC alarm	5	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CPU_MR_MSG1_0012	PLC alarm	6	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CPU_MR_MSG1_0112	PLC alarm	7	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CPU_TMPERR_MSG_0013	PLC alarm	8	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_RACK_MSG_0004	PLC alarm	9	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_RACK_MSG_0104	PLC alarm	10	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_ALCAT_DE-VICE_MSG_0005	PLC alarm	11	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_ALCAT_DE-VICE_MSG_0105	PLC alarm	12	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_ALCAT_IO-SYSTEM_MSG_0006	PLC alarm	13	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_ALCAT_IO-SYSTEM_MSG_0106	PLC alarm	14	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_MOD-UL_MSG_0003	PLC alarm	15	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_MOD-UL_MSG_0103	PLC alarm	16	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_ALCAT_SUB-MODUL_MSG_0002	PLC alarm	17	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_ALCAT_SUB-MODUL_MSG_0102	PLC alarm	18	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CPU_OST_MSG_000D	PLC alarm	19	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CPU_OST_MSG_010D	PLC alarm	20	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_PLC_MSG_00FF	PLC alarm	21	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_PLC_MSG_01FF	PLC alarm	22	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_ALCAT_CON-FIG_REPORT_0029	PLC alarm	23	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_USER_MSG_0080	PLC alarm	24	User message: @1W%t#2W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_ALCAT_SE-CU_EV_MSG_005E	PLC alarm	25	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_ALCAT_SE-CU_EV_INFO_005F	PLC alarm	26	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_SUB_ERR_MSG_001E	PLC alarm	27	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_SUB_ERR_MSG_011E	PLC alarm	28	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False

Name	Type	ID	Alarm text	Info text	Information only
SDIAG_AL-CAT_SUB_MD_MSG_0021	PLC alarm	29	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_SUB_MD_MSG_0121	PLC alarm	30	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_SUB_MR_MSG_0024	PLC alarm	31	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_SUB_MR_MSG_0124	PLC alarm	32	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CH_ERR_MSG_0015	PLC alarm	33	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CH_ERR_MSG_0115	PLC alarm	34	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CH_MD_MSG_0018	PLC alarm	35	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CH_MD_MSG_0118	PLC alarm	36	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_CH_MR_MSG_001B	PLC alarm	37	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_CH_MR_MSG_011B	PLC alarm	38	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_ALCAT_CON-FIG_INFO_0028	PLC alarm	39	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_ALCAT_CON-FIG_INFO_0128	PLC alarm	40	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_ESUB_ERR_MSG_001F	PLC alarm	41	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_ESUB_ERR_MSG_011F	PLC alarm	42	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_ESUB_MD_MSG_0022	PLC alarm	43	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_ESUB_MD_MSG_0122	PLC alarm	44	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_ESUB_MR_MSG_0025	PLC alarm	45	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_ESUB_MR_MSG_0125	PLC alarm	46	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_ECH_ERR_MSG_0016	PLC alarm	47	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_ECH_ERR_MSG_0116	PLC alarm	48	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_ECH_MD_MSG_0019	PLC alarm	49	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_ECH_MD_MSG_0119	PLC alarm	50	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
SDIAG_AL-CAT_ECH_MR_MSG_001C	PLC alarm	51	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
SDIAG_AL-CAT_ECH_MR_MSG_011C	PLC alarm	52	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False

PLC_1 [CPU 1511-1 PN]

PLC alarm text lists

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PLC_1 [CPU 1511-1 PN] / Local modules

PLC_1 [CPU 1511-1 PN]

PLC_1					
General\Project information					
Name	PLC_1	**Author**	i72014	**Comment**	
Rack	0	**Slot**	1		
General\Catalog information					
Short designation	CPU 1511-1 PN	**Description**	CPU with display; work memory 150 KB code and 1 MB data; 60 ns bit operation time; 4-stage protection concept, integrated technology functions: Motion Control, closed-loop control, counting&measuring; integrated tracing; PROFINET IO controller, supports RT/IRT, 2 ports, MRP, transport protocol TCP/IP, S7 communication, Web server, constant bus cycle time, routing; firmware V1.8	**Article number**	6ES7 511-1AK00-0AB0
Firmware version	V1.8		False		
General\Identification & Maintenance					
Plant designation		**Location identifier**		**Installation date**	2016-04-07 13:20:53.143
Additional information					

Connection resources				
	Station resources - Reserved - Maximum	**Station resources - Reserved - Configured**	**Station resources - Dynamic - Configured**	**Module resources - PLC_1 [CPU 1511-1 PN] - Configured**
Maximum number of resources:		10	54	64
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	1	0	1
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
Other communication:	-	-	0	0
Total resources used:		1	0	1
Available resources:		9	54	63

Overview of addresses\Overview of addresses\Overview of addresses					
Inputs	True	**Outputs**	True	**Address gaps**	False
Slot	True				

Type	Addr. from	Addr. to	Module	PIP	OB	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	15	AI 8xU/I/RTD/TC ST_1	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	2
I	16	31	AI 8xU/I/RTD/TC ST_2	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	3
I	32	47	AI 8xU/I/RTD/TC ST_3	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	4
I	48	63	AI 8xU/I/RTD/TC ST_4	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	5
I	512	513	DI 16x24VDC BA_1	None	-	PLC_1 [CPU 1511-1 PN]	-	2 Bytes	-	0	6

PLC_1 [CPU 1511-1 PN] / Local modules

AI 8xU/I/RTD/TC ST_1

AI 8xU/I/RTD/TC ST_1					
Name	AI 8xU/I/RTD/TC ST_1	**Rack**	0	**Slot**	2
Article number	6ES7 531-7KF00-0AB0	**Short designation**	AI 8xU/I/RTD/TC ST	**Firmware version**	V2.0

PLC_1 [CPU 1511-1 PN] / Local modules

AI 8xU/I/RTD/TC ST_2

AI 8xU/I/RTD/TC ST_2					
Name	AI 8xU/I/RTD/TC ST_2	**Rack**	0	**Slot**	3
Article number	6ES7 531-7KF00-0AB0	**Short designation**	AI 8xU/I/RTD/TC ST	**Firmware version**	V2.0

PLC_1 [CPU 1511-1 PN] / Local modules

AI 8xU/I/RTD/TC ST_3

AI 8xU/I/RTD/TC ST_3					
Name	AI 8xU/I/RTD/TC ST_3	**Rack**	0	**Slot**	4
Article number	6ES7 531-7KF00-0AB0	**Short designation**	AI 8xU/I/RTD/TC ST	**Firmware version**	V2.0

PLC_1 [CPU 1511-1 PN] / Local modules

AI 8xU/I/RTD/TC ST_4

AI 8xU/I/RTD/TC ST_4					
Name	AI 8xU/I/RTD/TC ST_4	**Rack**	0	**Slot**	5
Article number	6ES7 531-7KF00-0AB0	**Short designation**	AI 8xU/I/RTD/TC ST	**Firmware version**	V2.0

PLC_1 [CPU 1511-1 PN] / Local modules

DI 16x24VDC BA_1

DI 16x24VDC BA_1					
Name	DI 16x24VDC BA_1	**Rack**	0	**Slot**	6
Article number	6ES7 521-1BH10-0AA0	**Short designation**	DI 16x24VDC BA	**Firmware version**	V1.0