Totally Integrated Automation Porta					
PLC_1 [CPU 15 PLC_1					·
General\Project info					
Name	PLC_1	Author	i72014	Comment	
Rack	0	Slot	1		
General\Catalog info	rmation				
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	n & Maintenance				
Plant designation		Location identifier		Installation date	2016-04-07 13:20:53.143

Connection resources\				
	Station resources - Reserved - Max- imum	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	w of addresses\Overview of addresses			
Inputs True	Outputs	True	Address gaps	False

Additional informa-

tion

Inputs		True			Outputs		True		Address ga	ı ps False		
Slot True Type Addr. from Addr. to								·				
Туре	Addr. f	rom	Addr. to	Module	PIP	ОВ	Device name	Device num- ber	Size	Master / IO system	Rack	Slot
l	0		15	AI 8xU/I/RTD/TC ST_1	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	2
l	16		31	AI 8xU/I/RTD/TC ST_2	None	-	PLC_1 [CPU 1511-1 PN]	-	16 Bytes	-	0	3
l	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

Total	lly Integrated	l
Auto	mation Porta	ı

PLC_1 [CPU 1511-1 PN] / Program blocks

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

MHJ-PLC-Lab-Fu	nction-S71500 Properties						
General							
Name	MHJ-PLC-Lab-Function- S71500	Number	9000	Туре	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,
        dbNumber := 0,
0003
0004
        byteOffset := 511);
0005 #Value := #Value + 1;
0006
0007 POKE (area := 16#82,
        dbNumber := 0,
8000
0009
        byteOffset := 511,
0010
        value := #Value);
0011
0012 POKE (area := 16#82,
        dbNumber := 0,
0013
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
```

Totally Integr Automation	rated Portal								
	PU 1511-1 PN]/	Program blo	cks						
Main [OB1]									
Main Properties General									
Name Numbering	Main Automatic	Number	1		Туре	ОВ		Language	LAD
Information Title	"Main Program Sweep (Cy	- Author			Comment			Family	
	cle)"				Comment			lanny	
Version	0.1	User-defined ID		Data tum	_		Defections		
Name ✓ Input				Data typ	e		Default value		
Initial_Cal				Bool					
Remanen Temp	ce			Bool					
Constant									
Network 1: C	Connection of PLC wit	h FactorylO							
			%FC9000						
		"МН — EN	J-PLC-Lab-Function-S71500" ENO						
Network 2: C	Call: ClassError								
			%FC1						
		— EN	"ERR_ClassError" ENO						
Network 3: 0	Call: ClassTest								
Network 5. C	dir. Classiest								
			W.F.C.						
			%FC2 "TST_ClassTest"						
		— EN	ENO						
		l							
Network 4:									
			%FC3						
		EN	MAN_Class Management" ENO						
Network 5: C	Call: ClassLogic								
			%FC4 "LOG_ClassLogic"						
		— EN	ENO						
Network 6: C	Call: ClassHardware								
			%FC5						
		— EN	"HW_ClassHardware" ENO						
Notare 1. 7: 6	Calle Class UNA	ı							
Network /: C	Call: ClassHMI								
			%FC6 "H_ClassHMI"						
		— EN	ENO						

Totally Integ	grated Portal								
PI C 1 [CI	PII 1511-1 PN	N] / Program blo	ncks						
Startup [O			Jeks						
Startup Propert	ties								
Name Numbering	Startup Automatic	Number	100		Туре	ОВ		Language	LAD
Information Title Version	"Complete Restart"	Author User-defined II			Comment			Family	
Name	0.1	Oser-defined it	,	Data type	•		Default value		
▼ Input LostReter	ntive			Bool					
LostRTC Temp				Bool					
Constant Network 1: I	Move: WeightOfS	SmallPackage							
			MOVE EN — EN						
			4.5 — IN - ≟ OUT	"HW_Weig WeightOfS T1 — Package	htData". Small				
Network 2: I	Move: WeightOfL	_argelPackage							
			MOVE						
			6.5 — EN	"HW_Weig WeightOfl	htData". .arge				
			d out	T1 — Package					
Network 3: I	Move: C1,C2,C3,C	C4 - Speed							
			MOVE EN ENO "HW OUT1 Data	_Hardware	4.0	MOVE EN ENO	"HW_Hardware		
			d OUT1 — Data	a".C1.Speed		OUT1	"HW_Hardware Data".C3.Speed		
						d OUT3	"HW_Hardware Data".C4.Speed		
		<u> </u>							

Totally Integrated	
Automation Portal	

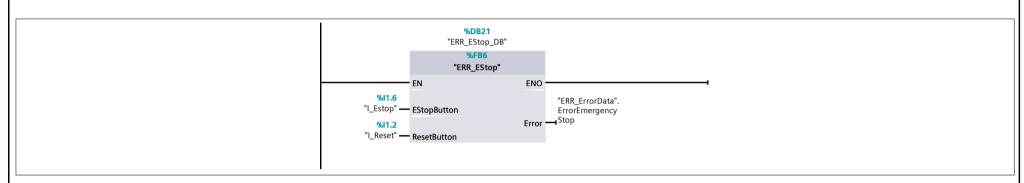
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_ClassError [FC1]

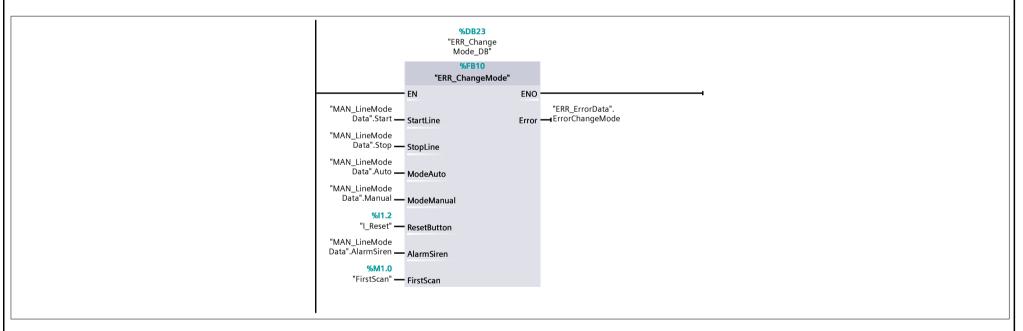
ERR_ClassError F	roperties						
General							
Name	ERR_ClassError	Number	1	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title	ClassError	Author		Comment		Family	
Version	0.1	User-defined ID					

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

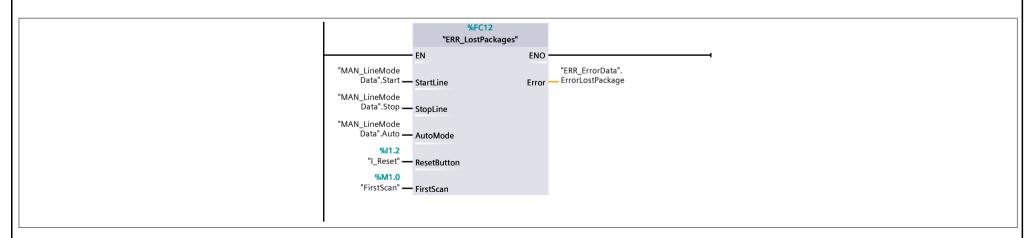
Network 1: Call: EStop



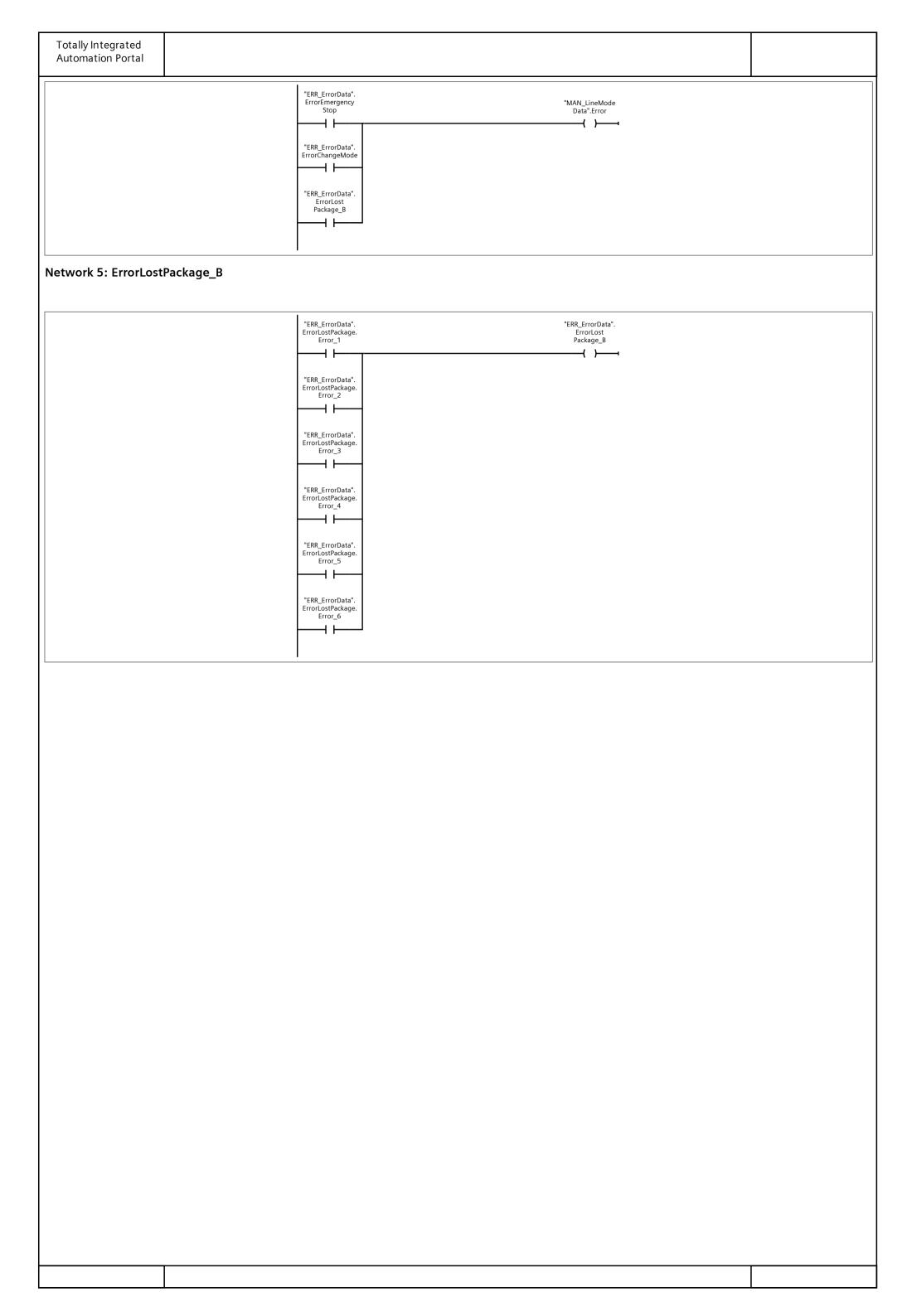
Network 2: Call: ChangeMode



Network 3: Call: LostPackages



Network 4: GlobalError



Seneral Seneral Sumbering Automatic Internation Outside Brand Bround Brand
Name ERR_ErrorData Number 27 Type DB Language DB Numbering Automatic Information
If it le
Author User-defined ID Name ErrorChangeMode ErrorEmergencyStop ErrorLostPackage_B Author User-defined ID Data type Start value Family Start value I false I fa
Version 0.1 User-defined ID Idame ✓ Static ErrorChangeMode ErrorEmergencyStop ErrorLostPackage_B Bool Bool False
JameData typeStart value✓ StaticFrorChangeModeBoolfalseErrorEmergencyStopBoolfalseFalseErrorLostPackage_BBoolfalse
ErrorChangeMode Bool false FrorEmergencyStop Bool false FrrorLostPackage_B Bool false
ErrorChangeMode Bool false FrorEmergencyStop Bool false FrorLostPackage_B Bool false
ErrorEmergencyStop Bool false Footbase F
ErrorEmergencyStopBoolfalseErrorLostPackage_BBoolfalse
v –
ErrorLostPackage "stt_LostPackageError"

Totally Integr Automation F	ated ortal					
PLC 1 [CP	U 1511-1 PN	l] / Program bloc	ks / 00 Error			1
ERR_EStop		1.				
ERR_EStop Prope General						
Name Numbering Information	ERR_EStop Automatic	Number	5	ype FB	Language	LAD
Title Version	EStop 0.1	Author User-defined ID		Comment	Family	
Name ▼ Input			Data type	Default value	Retain	
EStopButto ResetButto				false false	Non-retain Non-retain	
✓ Output Error			Bool	false	Non-retain	
InOut ▼ Static						
P_ResetBu Temp	ton		Bool	false	Non-retain	
Constant Network 1: S	et					
		#EStopE		#Error		
Nationalia 2 - B						
Network 2: R	eset					
		#ResetB	·	#Error		
		#P_Reset	Button			
		<u> </u>				

Totally Integ Automation								
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error ERR_LostPackage [FB12] ERR_LostPackage Properties								
General	9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							
Name	ERR_LostPackage	Number	12	Туре	FB	Language	LAD	
Numbering	Automatic							
nformation								
Title .	Lost Package - Sequential algorithm	Author		Comment		Family		
/ersion	0.1	User-defined ID						
Name			Data type	Default value		Retain		
✓ Input								
StartLine			Bool	false		Non-retain		
StopLine			Bool	false		Non-retain		

ame	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

```
#53 #ResetButton #51

#P_ResetButton #53

(R)
```

Network 2: Step 2-3

```
#S2 #t1 #S3

(s) #S2

(R) #S2
```

Network 3: Step 2-1

```
#52 #Dj #51

(s) #StopLine #52

(R) #StopLine #52
```

Network 4: Step 1-2

Network 5: Output Step 2

Totally Integrated Automation Portal			
	#IEC_Timer_0_ Instance TON Time #S2 #Time PT ET T#0	#t1 ()——•	<u>.</u>
Network 6: Output Step 3			
	#S3	#Error	
Network 7: First Scan			
	#FirstScan	#S1 { S }	

	ngeMode [FB10] Mode Properties						
eneral	Mode Properties						
ame	ERR_ChangeMode	Number	10	Туре	FB	Language LAD	
lumbering nformation	Automatic						
itle	ChangeMode - Sequential	Author		Comment		Family	
ersion	algorithm 0.1	User-defined	ID				
	0.1	oser-defined					
ame Input			Data type	Default valu	ie	Retain	
▼ Input StartLii	20		Bool	false		Non-retain	
StartLii			Bool	false		Non-retain	
ModeA			Bool	false		Non-retain	
ModeN			Bool	false		Non-retain	
ResetB			Bool	false		Non-retain	
AlarmS FirstSc			Bool Bool	false false		Non-retain Non-retain	
✓ Output	мп		5001	laise		NOTI TETAIT	
Error			Bool	false		Non-retain	
InOut							
▼ Static							
S1			Bool	false		Non-retain	
S2			Bool	false		Non-retain	
S3 S4			Bool Bool	false false		Non-retain Non-retain	
S5			Bool	false		Non-retain	
	tButton		Bool	false		Non-retain	
Temp Constant etwork 1	: Step 4-1						
Constant	: Step 4-1		#S4 #ResetButton #P_ResetButton		#S1 { S }		
Constant	: Step 4-1						
Constant	: Step 4-1		→ 		(S) #54		
Constant Jetwork 1			→ 		(S) #54		
			#P_ResetButton		#S4 (R)		
Constant Network 1			→ 		#S4 (R) #S4		
Constant			#P_ResetButton		#S4 #S4 (R) #S4 (S)		
Constant			#P_ResetButton		#S4 (R) #S4		
Constant			#P_ResetButton		#S4 #S4 (R) #S4 (s) #S2		
Constant Network 1	: Step 2-4		#P_ResetButton		#S4 #S4 (R) #S4 (s) #S2		
Constant Jetwork 1			#P_ResetButton		#S4 #S4 (R) #S4 (s) #S2		
Constant Network 1	: Step 2-4		#P_ResetButton		#S4 #S4 (R) #S2 (R) #S2		
Constant Network 1	: Step 2-4		#P_ResetButton #S2 #ModeManual		#S4 #S2 (R) #S2 (R) #S4 (S)		
Constant Network 1	: Step 2-4		#P_ResetButton #S2 #ModeManual		#S4 #S4 (R) #S2 (R) #S2		
Constant Network 1	: Step 2-4		#P_ResetButton #S2 #ModeManual		#S4 (S) #S4 (S) #S2 (R) #S4 (S) #S4 (S) #S4 (S)		
Ietwork 1	: Step 2-4		#P_ResetButton #S2 #ModeManual		#S4 (S) #S4 (S) #S2 (R) #S4 (S) #S4 (S) #S4 (S)		
etwork 2 etwork 3	: Step 2-4		#P_ResetButton #S2 #ModeManual		#S4 (S) #S4 (S) #S2 (R) #S4 (S) #S4 (S) #S4 (S)		
Network 2	: Step 2-4		#P_ResetButton #S2 #ModeManual		#S4 #S2 (R) #S2 (R) #S3 (R) #S4		
Constant Network 1	: Step 2-4		#S2 #ModeManual #S3 #ModeAuto		#S4 #S2 (R) #S2 (R) #S3 (R)		
Network 1	: Step 2-4		#S2 #ModeManual #S3 #ModeAuto		#S4 #S2 (R) #S2 (R) #S3 (R) #S4		

Totally Integrated Automation Portal		
	#52 #StopLine #53 #55 #55	#S1 (s) #S2 (R) #S3 (R) #S5 (R)
Network 6: Step 1-2		
	#51 #StartLine #ModeAuto	#S2 —(s)—— #S1 —(R)——
Network 7: Step 1-3		
	#S1 #StartLine #ModeManual	#S3 —(s)——(#S1 —(R)——
Network 8: Step 1-5		
	#S1 #AlarmSiren	#S5 —(s)—— #S1 —(R)——
Network 9: Step 4 output		
	#S4 	#Error
Network 10: FirstScan		
	#FirstScan	#S1 (S }

Totally Integrated
Automation Portal

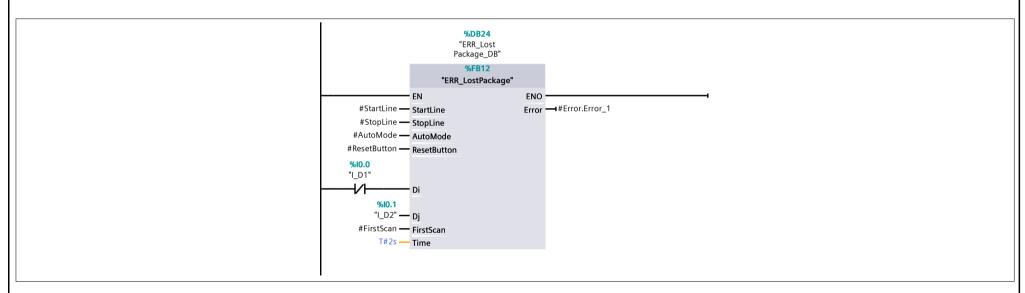
PLC_1 [CPU 1511-1 PN] / Program blocks / 00_Error

ERR_LostPackages [FC12]

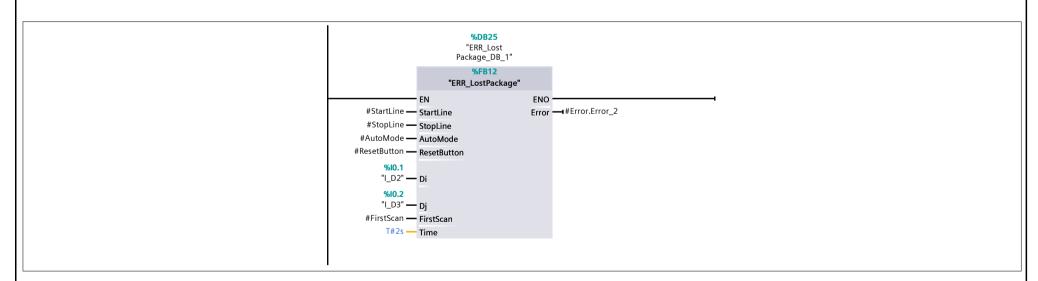
ERR_LostPackages Properties								
General								
Name	ERR_LostPackages	Number	12	Туре	FC	Language	LAD	
Numbering	Automatic							
Information								
Title	LostPackages	Author		Comment		Family		
Version	0.1	User-defined ID						

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

Totally Integrated **Automation Portal** %DB26 "ERR_Lost Package_DB_2" %FB12 "ERR_LostPackage" #StartLine — StartLine Error #Error.Error_3 #StopLine — StopLine #AutoMode — AutoMode #ResetButton — ResetButton %10.2 "I_D3" — Di **%I0.3** "I_D4" - Dj #FirstScan — FirstScan T#2s — Time **%I0.7** "I_D6" +%10.5 "I_D5" Network 4: Call: LostPackage - error 4 %DB28 "ERR_Lost Package_DB_3" %FB12 "ERR_LostPackage" ENO #StartLine — StartLine Error →#Error.Error_4 #StopLine — StopLine #AutoMode — AutoMode #ResetButton — ResetButton <mark>%I0.3</mark> "I_D4" **—** Di %10.4 "I_D7" #FirstScan — FirstScan T#5s — Time Network 5: Call: LostPackage - error 5 **%DB29**"ERR_Lost
Package_DB_4" %FB12 "ERR_LostPackage" ENO Error —#Error.Error_5 #StartLine — StartLine #StopLine — StopLine #AutoMode — AutoMode #ResetButton — ResetButton %10.5 "I_D5" — **Di** %10.6 "I_D8"

- Dj #FirstScan — FirstScan T#5s — Time

Network 6: Call: LostPackage - error 6

%DB30 "ERR Lost Package_DB_5" %FB12 "ERR_LostPackage" EN ENO -#StartLine — StartLine Error —#Error.Error_6 #StopLine — StopLine #AutoMode — AutoMode #ResetButton — ResetButton %10.7 "I_D6" — Di **%I1.0** "I_D9" - Dj #FirstScan — FirstScan T#5s — Time

Totally Integrated
Automation Portal

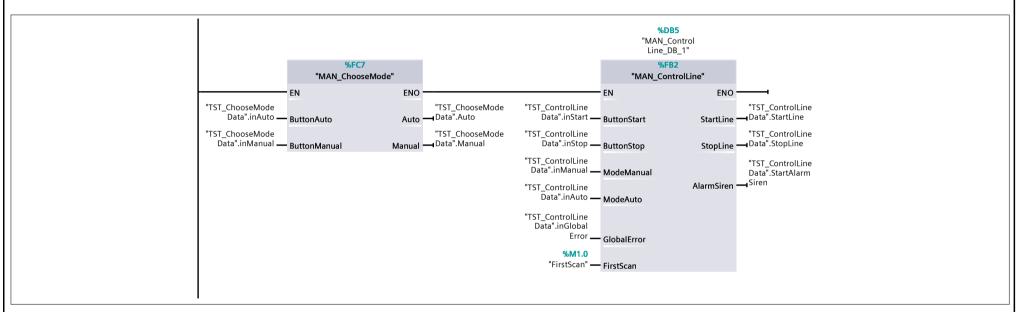
PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test

TST_ClassTest [FC2]

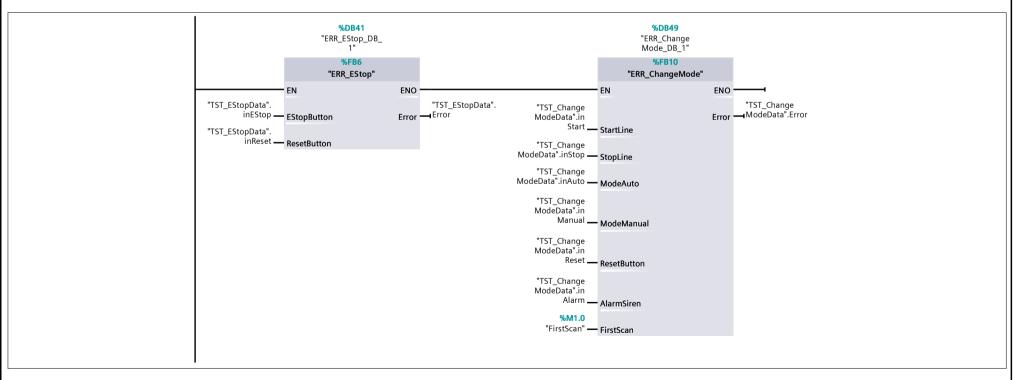
TST_ClassTest Properties							
General							
Name	TST_ClassTest	Number	2	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title	ClassTest	Author		Comment		Family	
Version	0.1	User-defined ID					

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

Totally Integrated **Automation Portal %DB51**"LOG_Auto
Controle_DB_1" %FB5 "LOG_AutoControle" "TST_AutoControle
Data".inStart — StartLine "TST_AutoControle
ConveyorsAuto — Data".Conveyors "TST_AutoControle
Data".inStop — StopLine "TST_AutoControle Data".inAuto — AutoMode "TST_AutoControle Data".inSmall — SmallPackage "TST_AutoControle Data".inMedium — 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

Totally Integ									
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					1		
Name				Data type		Start value		Reta	ain
▼ Static									

Bool

Bool

Bool Bool

Auto Manual

inAuto

in Manual

false

false

false

false

False

False

False

False

Totally Integrated Automation Portal	

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

TST_ControlLineData [DB7]

TST_ControlLine	Data Properties						
General							
Name	TST_ControlLineData	Number	7	Туре	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
in Global Error	Bool	false	False
inRunLine	Bool	false	False
StartLine	Bool	false	False
StopLine	Bool	false	False
StartAlarmSiren	Bool	false	False

ST_EStopDat ieneral	a Properties						
lame	TST_EStopData	Number	48	Туре	DB	Language	DB
umbering	Automatic		<u> </u>		<u> </u>		
ormation							
e		Author		Comment		Family	
sion	0.1	User-defined	ID				
ne			Data type	e e	Start value		Retain
Static							
inEStop			Bool		false		False
inReset			Bool		false		False
Error			Bool		false		False

Totally Integ								
PI C 1 [C	PLC_1 [CPU 1511-1 PN] / Program blocks / 01_Test							
_			10CK3 / 01_	1630				
TST_Chang	geModeData [DB50]							
TST_ChangeMe	odeData Properties							
General								
Name	TST_ChangeModeData	Number	50	Туре	DB	Languag	je DB	
Numbering	Automatic							

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									

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

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / 01_Test	

TST_AutoControleData [DB52]

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

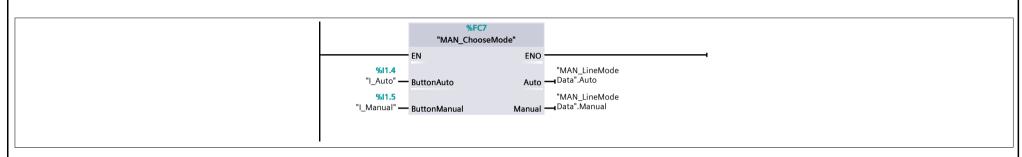
Name	Data type	Start value	Retain
▼ Static			
inStart	Bool	false	False
inStop	Bool	false	False
inAuto	Bool	false	False
inSmall	Bool	false	False
inMedium	Bool	false	False
inLarge	Bool	false	False
inD3	Bool	false	False
inD4	Bool	false	False
inD5	Bool	false	False
inD6	Bool	false	False
Conveyors	"stt_Conveyor"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

		_
Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / 02_Management	
MAN_ClassManag	ement [FC3]	

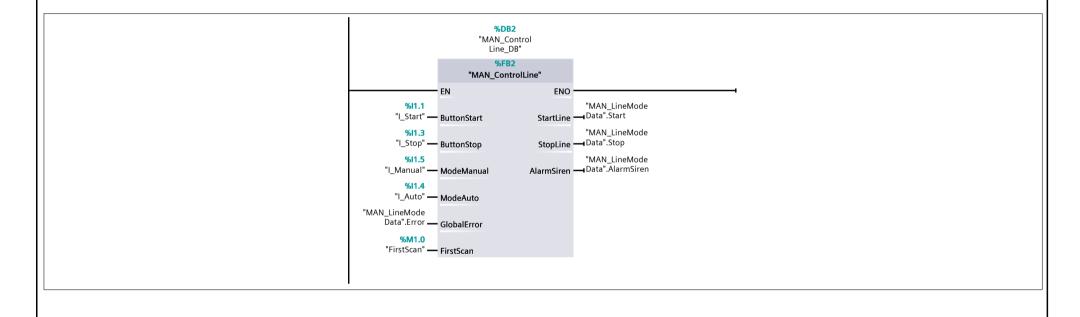
MAN_ClassManagement Properties							
General							
Name	MAN_ClassManagement	Number	3	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title	Title ClassManagement Author Comment Family						
Version	0.1	User-defined ID					

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

Network 1: Call: ChooseMode



Network 2: Call: ControlLine



Totally Integ	grated Portal									
PLC_1 [C	PU 151	1-1 PN] / Pr	ogram	blocks / 0)2_Manag	ement				·
MAN_Cho										
/IAN_ChooseN General Jame		ooseMode	Number	7		Туре	FC		Languago	LAD
Numbering nformation	Automati	С		/			PC		Language	LAD
itle /ersion	ChooseM 0.1	ode	Author User-define	ed ID		Comment			Family	
lame ▼ Input					Data	type		Default value		
ButtonAi ButtonM					Bool Bool					
Output Auto					Bool					
Manual InOut					Bool					
Temp Constant Return										
MAN_Ch	ooseMode				Void					
etwork 1:	Auto									
				#ButtonAuto	#ButtonManual			#Auto		
				- •						
letwork 2:	Manual									
				#ButtonManual	#ButtonAuto			#Manual		
				———	<i>V</i>					

Totally Integ							
_	PU 1511-1 PN] / Pr trolLine [FB2]	ogram blo	cks / 02_Manage	ment			
General							
Name	MAN_ControlLine	Number	2	Туре	FB	Language	LAD
Numbering	Automatic				•		
Information							
Title	Control Line - Sequential algorithm	Author		Comment		Family	
Version	0.1	User-defined ID			-	-	'

User-defined ID		
Data type	Default value	Retain
Bool	false	Non-retain
Bool	false	Non-retain
Bool	false	Non-retain
Bool	false	Non-retain
Bool	false	Non-retain
TP_TIME		Non-retain
Bool	false	Non-retain
Bool	false	Non-retain
	Bool Bool Bool Bool Bool Bool Bool Bool	Bool false

Network 1: Step 2-1

```
#s2 #ButtonStop #s1

(s)

#GlobalError #s2

(R)
```

Network 2: Step 4-1

Network 3: Step 1-2

```
#s1 #ButtonStart #ModeManual #GlobalError #s2

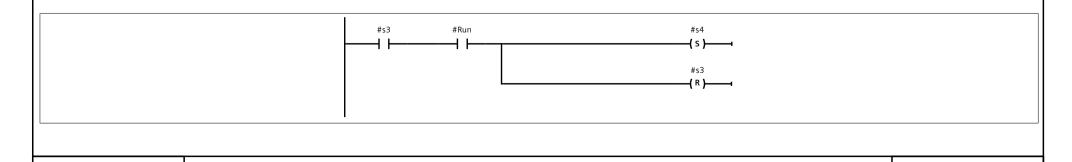
HP_ButtonStart_1

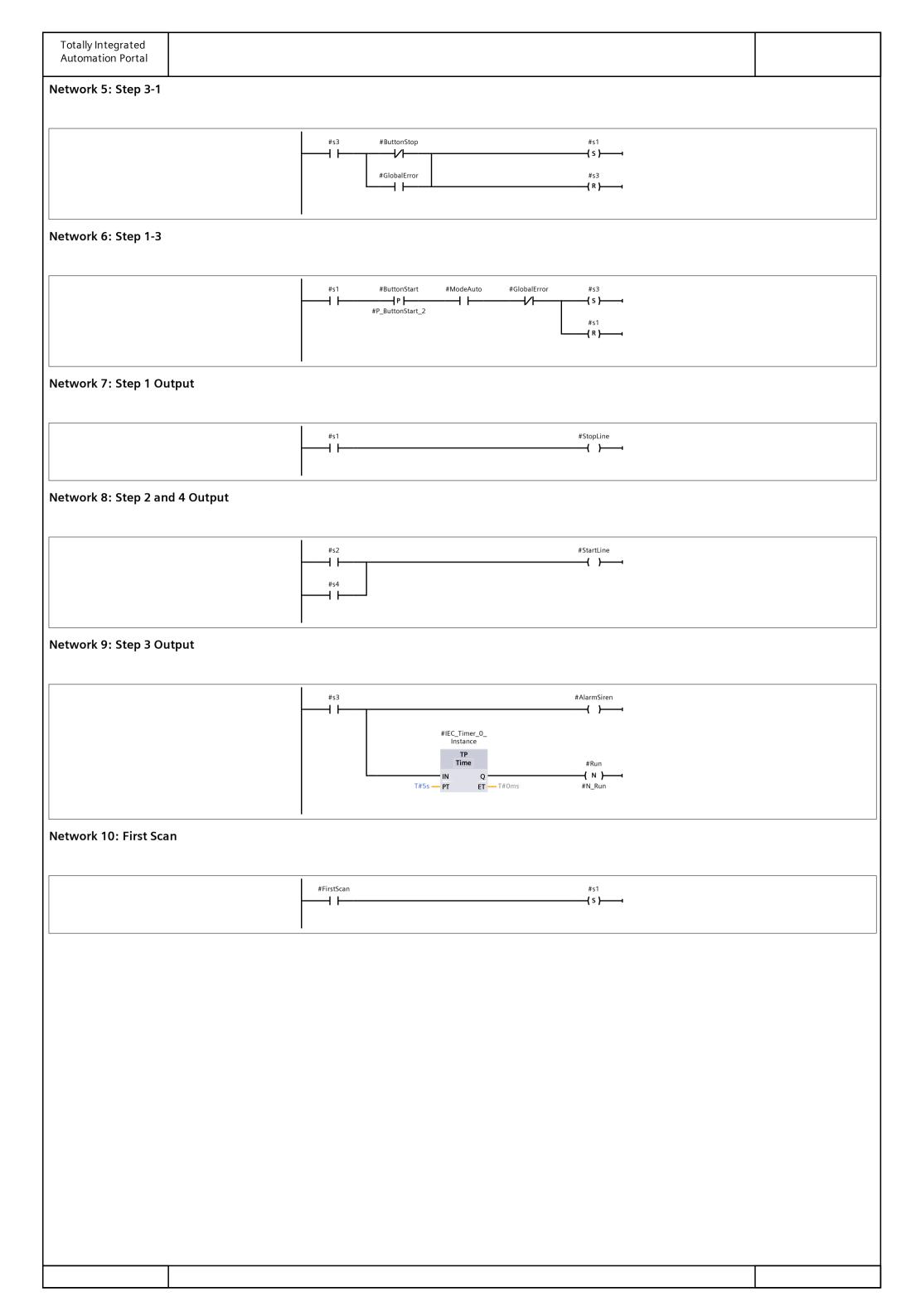
#s1

#s1

#R}
```

Network 4: Step 3-4





Totally Integ Automation							
PLC_1 [C	PU 1511-1 PN]/	Program block	s / 02_Manage	ement			
MAN_Line	ModeData [DB1]						
MAN LineMod	leData Properties						
General							
Name	MAN_LineModeData	Number 1		Туре	DB	Language	DB
Numbering	Automatic			, ,,		<u> </u>	
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
	en		Bool		false		False

systematics Seriologic Author Comment Family read Data type Default value Insur Contact Contact Insur Constant Contact Insure Constant Insure Constant Insure Contact Insure Cont	me Imbering	LOG_ClassLogic Automatic	Number	4		Туре	FC		Language	LAD
Input Output InfoUt Temp Constant EloG_ClassLogic Void LOG_ClassLogic Void	le					Comment			Family	
Output Infout Temp Constant Return LOG_ClassLogic Void twork 1: Call: Mode ***C13 ***C0, Ughrt* -EN ENO twork 3: Call: Statistic ***C3** ***C6, Mode** -EN ENO ***C11** ***C2. Ughrt* -EN ENO ***C3** *					Data type	e		Default value		
Temp Constant Every LOG_ClassLogic Void work 1: Call: Mode **C13 **105_Mode** -EN ENO work 2: Call: Light **C11 **105_Light** -EN ENO **C11 **105_Light* -EN ENO **105_Light	Output									
teturn LOG_ClassLogic Work 1: Call: Mode Work 2: Call: Light Work 3: Call: Statistic Work 3: Call: Statistic	emp									
work 1: Call: Mode SEC13 TOG_Mode EN										
work 2: Call: Light **FC13 **LOG_Mode* -EN ENO **FC11 **LOG_Light* -EN ENO work 3: Call: Statistic					Void					
work 2: Call: Light Second	work 1:	Call: Mode								
work 2: Call: Light Second			961	FC13						
work 3: Call: Statistic ##FC11 "LOG_Light" EN ENO ##FC8 "LOG_Statistic"			"LOG	_Mode"						
work 3: Call: Statistic ##FC11 "LOG_Light" EN ENO ##FC8 "LOG_Statistic"										
work 3: Call: Statistic #FC8 "LOG_Light" EN ENO WFC8 "LOG_Statistic"	work 2:	Call: Light								
work 3: Call: Statistic #FC8 "LOG_Light" EN ENO WFC8 "LOG_Statistic"										
work 3: Call: Statistic			"LOG	_Light"						
%FC8 "LOG_Statistic"			— EN	ENO						
%FC8 "LOG_Statistic"			ı							
"LOG_Statistic"	work 3:	Call: Statistic								
"LOG_Statistic"										
				%FC8						
			— EN	"LOG_Statistic"	ENO -					
			— EN	"LOG_Statistic"	ENO -					
			— EN	"LOG_Statistic"	ENO —————					
			— EN	"LOG_Statistic"	ENO					
			— EN	"LOG_Statistic"	ENO					
			— EN	"LOG_Statistic"	ENO —					
			EN	"LOG_Statistic"	ENO					
			EN	"LOG_Statistic"	ENO					
			— EN	"LOG_Statistic"	ENO					
			EN .	"LOG_Statistic"	ENO					
			— EN	"LOG_Statistic"	ENO					
			EN EN	"LOG_Statistic"	ENO					
			— EN	"LOG_Statistic"	ENO					
			EN EN	"LOG_Statistic"	ENO					
			EN EN	"LOG_Statistic"	ENO					
			EN EN	"LOG_Statistic"	ENO					
			EN EN	"LOG_Statistic"	ENO					
			EN EN	"LOG_Statistic"	ENO					
			EN .	"LOG_Statistic"	ENO					

6_LogicDat	a Properties								
ne mbering ormation	LOG_LogicData Automatic	Number	55		Туре	DB	Language	DB	
е		Author			Comment		Family		
rsion	0.1	User-defined	I ID						
me Static				Data type		Start value		Retain	
	rcManual			"stt_Conveyor"				False	
Conveyo	rsManual rsAuto			"stt_Conveyor"				False	

Totally Integrated	
Automation Portal	

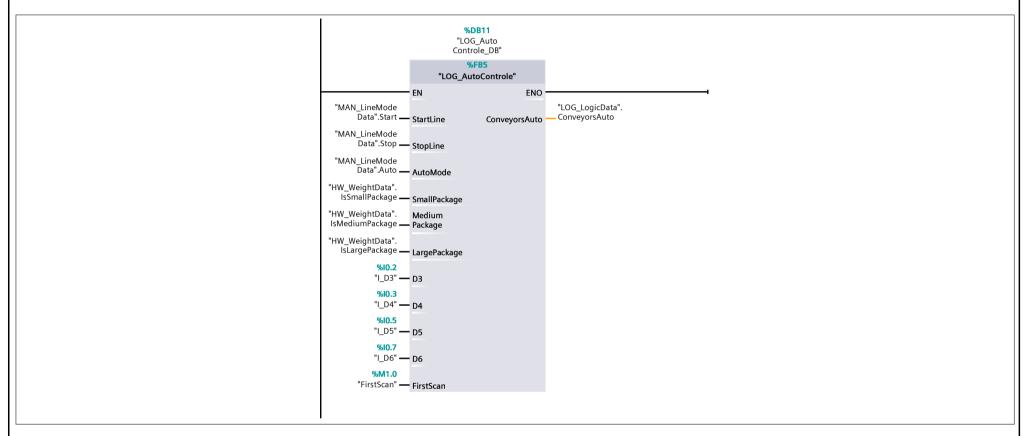
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode

LOG_Mode [FC13]

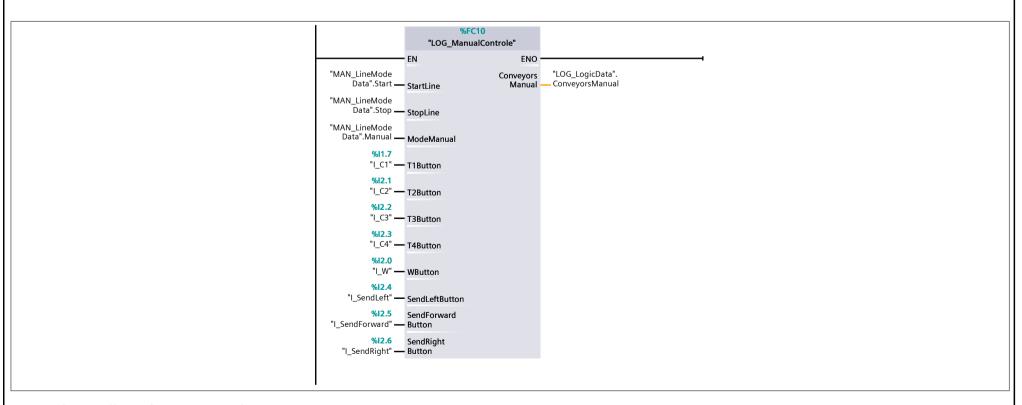
LOG_Mode Prope	erties						
General							
Name	LOG_Mode	Number	13	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title	Mode	Author		Comment		Family	
Version	0.1	User-defined ID					

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

Totally Integrated			
Totally Integrated Automation Portal			
		%FC26 "LOG_AssignmentIOMode"	
	"LOG_LogicDat ConveyorsAu	a". to ConveyorsAuto ENO "HW_Hardware "HW_Hardware "Data".C1	
	"LOG_LogicDat ConveyorsManu	a". Conveyors "HW_Hardware lal — Manual C2 — Data".C2	
		"HW_Hardware C3 — Data".C3 "HW_Hardware C4 — Data".C4	
		C4 — Data".C4 %Q0.0 W — "O_W"	
		%Q0.1 SendLeft — "O_SendLeft"	
		%Q0.3 SendForward →"O_SendForward" %Q0.2 SendRight →"O_SendRight"	
		SendRight → *O_SendRight*	

•

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

LOG_AssignmentIOMode [FC26]

LOG_AssignmentIOMode Properties							
General	General						
Name	LOG_AssignmentIOMode	Number	26	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title	Assigment IOM ode	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value
▼ Input		
ConveyorsAuto	"stt_Conveyor"	
Conveyors Manual	"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_Assignment IOM ode	Void	

Network 1: C1

```
#ConveyorsAuto.
C1 #C1.Run

#Conveyors
#Conveyors
Manual.C1

#C1.RightTurn

Manual.C1
```

Network 2: C2

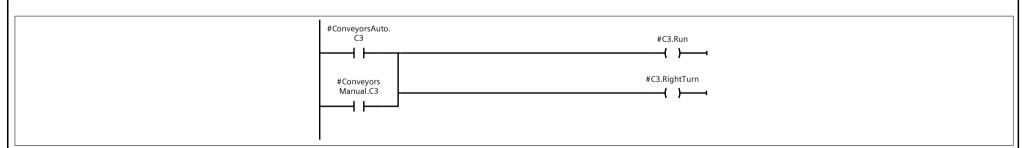
```
#ConveyorsAuto.
C2 #C2.Run

#Conveyors
#Conveyors
Manual.C2

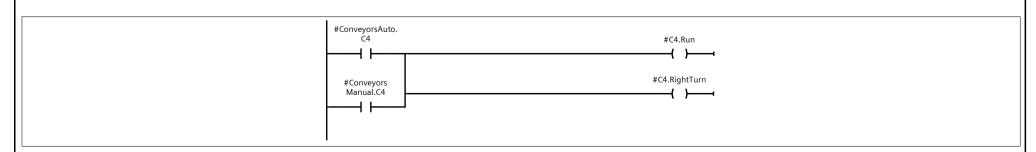
#C2.RightTurn

( )
```

Network 3: C3



Network 4: C4



Network 5: W

Totally Integrated Automation Portal			
	#ConveyorsAuto. W #Conveyors Manual.W	#W	
Network 6: Left			
	#ConveyorsAuto. Left #Conveyors Manual.Left	#SendLeft	
Network 7: Forward			
	#ConveyorsAuto. Forward #Conveyors Manual.Forward	#SendForward	
Network 8: Right			
	#ConveyorsAuto. Right #Conveyors #Conveyors Manual.Right	#SendRight	

Totally Integrated Automation Portal

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

LOG_AutoControle [FB5]

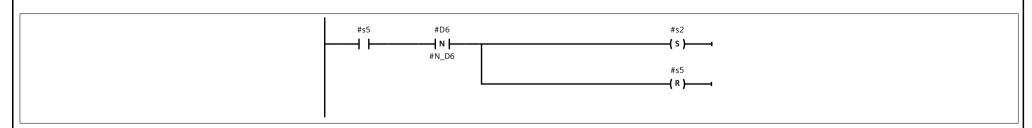
LOG_AutoControle Properties							
General							
Name	LOG_AutoControle	Number	5	Туре	FB	Language	LAD
Numbering	Automatic						
Information							
Title	Auto Controle - Sequential algorithm	Author		Comment		Family	
Version	0.1	User-defined ID					

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			
Conveyors Auto	"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

```
Totally Integrated
  Automation Portal
                                                                               #StopLine
                                                                  #s3
                                                                                                                               (s)——
                                                                  #s4
                                                                                                                               #s3
                                                                  #s5
                                                                                                                               -( R )--
                                                                  #s2
                                                                                                                               #s5
                                                                                                                               #s2
                                                                                                                               -( R )--
Network 5: Step 2-3
                                                                             #SmallPackage
                                                                                              #P_D3_1
                                                                                                                               -( s )-----
                                                                                                                               #s2
Network 6: Step 2-4
                                                                            #MediumPackage
                                                                  #s2
                                                                                                #D3
                                                                                              #P_D3_2
                                                                                                                               -( s )-----
                                                                                                                               #s2
Network 7: Step 2-5
                                                                             #LargePackage
                                                                                              P P_D3_3
                                                                                                                               -( s )−
                                                                                \dashv \vdash
Network 8: Step 1-2
                                                                               #StartLine
                                                                                             #AutoMode
                                                                                                                               -( s }−
                                                                                                                               #s1
Network 9: Step 2,3,4,5 Output
                                                                                                                          #ConveyorsAuto.
C1
                                                                  #s2
                                                                  #s3
                                                                                                                          #ConveyorsAuto.
C2
                                                                  #s4
                                                                                                                          #ConveyorsAuto.
C3
                                                                  #s5
                                                                                                                          #ConveyorsAuto.
C4
                                                                                                                          #ConveyorsAuto.
W
                                                                                                                               →
                                                                                                                          #ConveyorsAuto.
Forward
Network 10: Step 3 Output
```

Totally Integrated Automation Portal								
		#s3	#ConveyorsAuto. Left					
Network 11: Step 5 Output								
		#s5	#ConveyorsAuto. Right					
		1 [()					
Network 12: First Scar First Scan	in							
		#FirstScan	#s1 { S }					
			(5)					
	T							

Totally Integrated Automation Portal

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

LOG_ManualModule [FB14]

LOG_ManualModule Properties								
General	General							
Name	LOG_ManualModule	Number	14	Туре	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

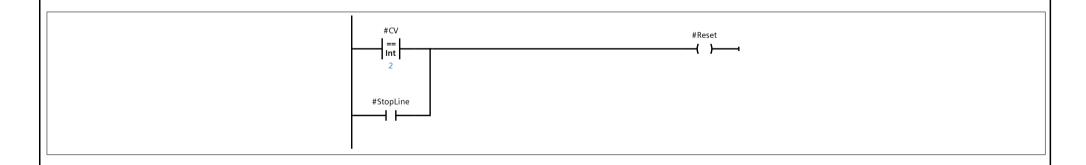
```
#StartLine #ModeManual #ButtonAction

#StartLine #ModeManual #ButtonAction

#Reset — R CV PV
```

Network 2: StartAction

Network 3: Reset



Totally Integrated	
Automation Portal	

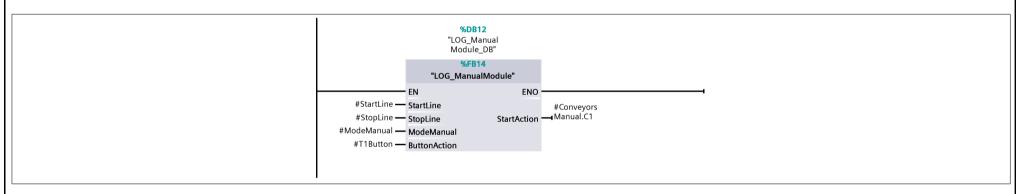
PLC_1 [CPU 1511-1 PN] / Program blocks / 03_Logic / Mode / Manual

LOG_ManualControle [FC10]

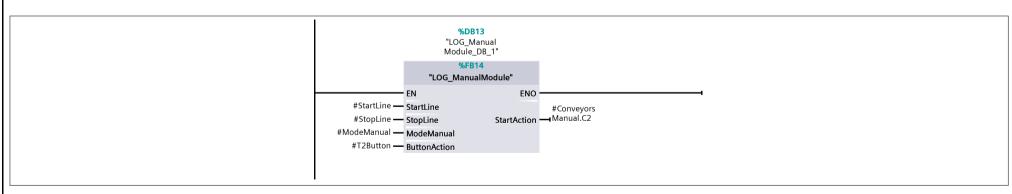
LOG_ManualCo	LOG_ManualControle Properties								
General									
Name	LOG_ManualControle	Number	10	Туре	FC	Language	LAD		
Numbering	Automatic								
Information									
Title	ManualControle	Author		Comment		Family			
Version	0.1	User-defined ID							

me	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		
Conveyors Manual	"stt_Conveyor"	
InOut		
Temp		
Constant		
Return		
LOG_ManualControle	Void	

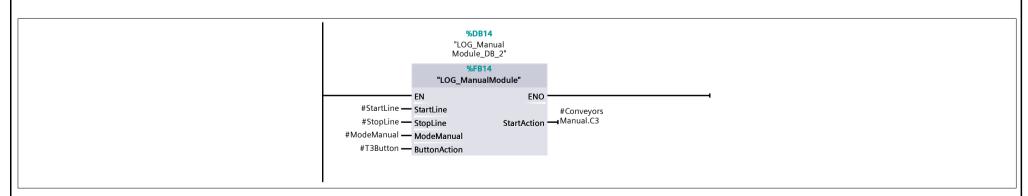
Network 1: Call: ManualModule - C1



Network 2: Call: ManualModule - C2



Network 3: Call: ManualModule - C3



Network 4: Call: ManualModule - C4

Totally Integrated Automation Portal		
	#StartLine — #StopLine — #ModeManual #ModeManual #T4Button — #T4Button — #ModeManual #ButtonAction **Conveyors #Conveyors #Conveyors #Conveyors #Manual.C4 #Manual.C4 #Manual.C4	
Network 5: Call: Man	nualModule - W	
	**StartLine StartLine StartLine StopLine StopLine ModeManual #WButton ButtonAction **ButtonAction **ButtonAction **ButtonAction **Conveyors #Conveyors	
Network 6: Call: Man	nualModule - Send left	
Network 7: Call: Man	#StartLine StartLine StartLine StartAction #Conveyors Manual.Left #ModeManual #SendLeftButton ButtonAction #StartLine ButtonAction #StartAction #StartAction #StartLine #ModeManual #SendLeftButton ButtonAction	
	#StartLine — StartLine StopLine StopLine StopLine StopLone #SendForward Button — ButtonAction #Models #StopLone ButtonAction #StopLone StopLone St	
Network 8: Call: Man	nualModule - Send right	
	#StartLine — StartLine #Conveyors #StopLine StopLine StartAction #ModeManual #SendRightButton — ButtonAction #StopLine ButtonAction	

Totally Integ Automation	grated Portal									
PLC_1 [C	PU 1511	-1 PN] / Pr	ogram l	blocks / 03_Log	gic / Li	ight				
LOG_Light	: [FC11]									
LOG_Light Pro General			11							
Name Numbering	LOG_Light Automatic		Number	11		Туре	FC		Language	LAD
Information Title Version	Light 0.1		Author User-define	ed ID		Comment			Family	
Name					Data typ	e e		Default value		
Input Output InOut										
Temp Constant										
▼ Return	ht				Void					
Network 1:		nsLight			Void					
	%FC14									
			-	"LOG_ButtonsLight" EN ENO)			-		
	6 II -		<u> </u>							
Network 2:	Call: Butto	nsManualLigh	it							
				%FC15 "LOG_ButtonsManualLight" EN ENO						
				EN ENO	,			-		
Network 3:	Call: Colun	nnLight								
			1	%FC16						
			-	"LOG_ColumnLight" · EN ENO						
			l							

Totally Integ Automation	grated Portal					
		rogram blocks / 03_Lo	gic / Light			
	onsManualLight [FC	15] 				
General Name	LOG_ButtonsManualLight	Number 15	Туре	FC	Language LAD	
Numbering Information	Automatic	TVAIII DEL	1762		Language	
Title Version	Buttons Manual Light 0.1	Author User-defined ID	Comment		Family	
Name Input			Data type	Default valu	ie	
Output						
Temp Constant						
▼ Return	tons Manual Light		Void			
	Button C1 light		1010			
		"LOG_LogicDa "MAN_LineMode ConveyorsMar Data".Manual C1	ata". nual.	%Q1.2 "O C1 light"		
		Jaca .ivialitidi		"O_C1_light"		
Network 2: I	Button C2 light	l				
		"LOG_LogicDa "MAN_LineMode ConveyorsMar	ata". nual.	%Q1.4		
		Data".Manual C2		"O_C2_light"		
Notwork 3: 1	Putton C2 limbs	l				
NELWOLK 3: I	Button C3 light					
		"LOG_LogicDa "MAN_LineMode ConveyorsMar	ata". nual.	%Q1.5		
		Data".Manual C3		"O_C3_light"		
Network 4: I	Button C4 light					
		"LOG_LogicDa "MAN_LineMode ConveyorsMar	ata".			
		"MAN_LineMode ConveyorsMar Data".Manual C4	iual.	%Q1.6 "O_C4_light" 		
Network 5: I	Button W light					
		"LOG_LogicDa	ata".			
		"MAN_LineMode ConveyorsMar Data".Manual W	nual.	%Q1.3 "O_W_light"		
Network 6: I	Button Send left light					
		<u> </u>				
		"LOG_LogicDa "MAN_LineMode ConveyorsMar Data".Manual Left	ota . nual.	%Q1.7 "O_SendLeft_ light"		
				()—		
Network 7: I	Button Send forward lig	Jht				
					I	

Totally Integrated Automation Portal						
		"MAN_LineMode Data".Manual	"LOG_LogicData". ConveyorsManual. Forward	9 "O_Ser	6Q2.0 dForward_ light"	•
Network 8: Button Se	end right light					
		"MAN_LineMode Data".Manual	"LOG_LogicData". ConveyorsManual. Right	9 "O_S	6Q2.1 endRight_ light" { }	
	T					

Totally Integ Automation	grated Portal										
PLC_1 [Cl	PU 151	1-1 PN] / Pr	ogram l	blocks / (03_Log	jic / Li	ght				
LOG_Butto											
LOG_ButtonsLi General Name	LOG_Butt		Number	14	_		Туре	FC		Language	LAD
Numbering Information	Automati	С									
Title Version	ButtonLig 0.1	jnt	Author User-define	ed ID			Comment			Family	
Name Input Output						Data type	e		Default value		
InOut Temp											
Constant Return											
LOG_But	tonsLight Button St	art				Void					
			-	"MAN_LineMode Data".Start				"O_	%Q0.4 StartLight" ()		
				"MAN_LineMode Data".AlarmSiren							
Network 2:	Button St	ор									
			1	"MAN LineMode					%Q0.6		
			-	"MAN_LineMode Data".Stop				"O_	StopLight"		
Network 3:	Button Re	eset	<u>'</u>								
				"MAN_LineMode Data".Error	%M0.7 "Clock_0.5Hz"			"O_I	%Q0.5 ResetLight"		
				11							

nbering Automatic	Number 16	Туре	FC	Language LAD	
rmation ColumnLight	Author	Comment		Family	
0.1	User-defined ID				
ne Input		Data type	Default v	alue	
Output					
nOut					
Гетр					
Green_1		Bool Bool			
Green_2 Yellow_1		Bool			
Yellow_2		Bool			
Constant					
Return		\/c:-l			
LOG_ColumnLight		Void			
work 1: Start line manual mod	le signaling				
	"MAN_LineMode Data".Start		#Green_1		
	"MAN_Lii Data".N		#Yellow_1		
		,			
work 3: Stop line signaling	"MAN_LineMode %MI Data".AlarmSiren "Clock_(#Green_2		
	"MAN_LineMode Data".Stop		#Yellow_2		
work 4: Error signaling					
	"MAN_LineMode %M I Data".Error "Clock_(% Q0.7 "O_ColumnRed"		
			()—		
work 5: Output yellow					
	#Yellow_1		%Q1.1 "O_Column Yellow"		
	#Yellow_2		()		
	-				

Totally Integrated Automation Portal			
	#Green_1	%Q1.0 "O_Column Green"	
			T

	lProduction [DB39]						
G_TotalPro	duction Properties						
neral							
me	LOG_TotalProduction	Number	39	Туре	DB	Language	DB
mbering	Automatic						
ormation				-			
e .		Author		Comme	nt	Family	
sion	0.1	User-defined	ID				
ne			Dat	a type	Start value		Retain
Static				71			
SmallP	nckaga		Int		0		False
	nPackage		Int		0		False
LargeP			Int		0		False

Totally Integ Automation	grated Portal				
PLC_1 [C	PU 1511-1 PN]	/ Program blocks / 03_	Logic / Statistic		
LOG_Stati	stic [FC8]				
LOG_Statistic F General	Properties				
Name Numbering	LOG_Statistic Manual	Number 8	Type FC	Language	LAD
Information Title	Statistic	Author	Comment	Family	
Version	0.1	User-defined ID	Data trus	Defections to a	
Name Input			Data type	Default value	
Output InOut					
▼ Temp t_RisingE	Edge		Bool		
Constant ▼ Return					
LOG_Sta	tistic		Void		
Network 1:	Call: CountPackage	s			
			%FC9 "LOG_CountPackages" ENO		
		"MAN_LineMode Data".Start — StartI.	%OD30	'	
		"I_ResetCount" — Butto	Count %QD34 n "O_Forward ForwardCount" — Count"		
		"LOG_Total Production".5mall Package — Packa			
		"LOG_Total Production". MediumPackage — Packa	ityMedium ge		
		"LOG_Total Production".Large Package — Package			
		Package — Packa	ge		
Network 2:	Call: CountModes	l			
	cam countinous				
		%FC19 "LOG_CountModes	,		
		— EN	ENO		
Network 3:	Call: ModeTime	<u>'</u>			
		%FC18 "LOG_ModeTime"	ENO -		
Network 4:	Call: ConveyorTime				
		%FC20			
		"LOG_ConveyorTim — EN	e" ENO		

Totally Integ							
_	PU 1511-1 PN] / P reyorWorkTime [DB4		cks / 03_Logic / :	Statistic			
LOG_Conveyo	rWorkTime 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

False

False

False

"stt_TimeWork"

"stt_TimeWork"

"stt_TimeWork"

C4 W

Send

me LOG_LineModeTurnOn Number 46 Type DB Language DB Imbering Automatic Automatic	deTurnOn Properties				
Author Comment Family Comment Comment Family Comment Comment	_	Joer 46	Type DB	Language	DB
StaticStaticImage: Comparison of the Comparison of			Comment	Family	
ModeAutoUDInt0ModeManualUDInt0EmergencyButtonInt0ErrorLostPackageUDInt0		Data type	Start value		Retain
ModeManualUDInt0EmergencyButtonInt0ErrorLostPackageUDInt0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1101			т.
EmergencyButtonInt0ErrorLostPackageUDInt0					True True
ErrorLostPackage UDInt 0					False
					False
					False

OG_LineTime	Statistic Properties						
eneral ame	LOG_LineTimeStatistic	Number	44	Tyr	pe DB	Languago	DB
ımbering	Automatic	Number	44	Тур	DB DB	Language	DB
ormation							
le		Author		Сог	mment	Family	
rsion	0.1	User-defined	1 ID				
me			Da	ta type	Start value		Retain
Static							
StartLine			"st	t_TimeWork"			True
StopLine				t_TimeWork"			True
AutoMod				t_TimeWork"			True
Manual N Error	lode			t_TimeWork"			True True
			51	t_TimeWork"			
			51	<u></u>			
			51	<u></u>			
			51	<u></u>			
			51	Timework			
			51	Timework			
			51	Timework			
			51	Timework			
			51	Timework			
			51	Timework			
			51	Timework			
			51	Timework			
			51	<u></u>			
			51	<u></u>			
			51	<u>. Timework</u>			
			51	<u></u>			
			51	<u>. Timework</u>			

me Data type Start value Retair		a Properties						
Primation Author Comment Family Story 0.1 Data type Start value Retain	ı	LOG_StatisticData	Number 43		Туре	DB	Language	DB
rsion 0.1 User-defined ID Start value Retain Static	ation	Automatic						
Static Static	n (0.1			Comment		Family	
			,	Data type		Start value		Retain
7,30TLUB DOO 1998 POS				Dool		falos		Falsa
	P_StartLine			воог		laise		raise

Totally Inte	grated					
Automation						
PLC_1 [C	PU 1511-1 PN]	/ Program blocks / 03	B_Logic / Statistic /	' Time		
OG_Mod	eTime [FC18]					
eneral	ne Properties			-		
ame umbering Iformation	LOG_ModeTime Automatic	Number 18	Туре	FC	Language	LAD
tle ersion	ModeTime 0.1	Author User-defined ID	Comment		Family	
i me Input			Data type	Dei	fault value	
Output InOut						
Temp t_Rising	Edge		Bool			
Constant Return	. d. Tire		V-:-I			
LOG_Mo			Void			
		"R	%DB45 L_TRIG_DB1" R_TRIG			
		%M0.5 "Clock_1Hz" — Cl	N ENO#t_RisingEdge			
etwork 2:	Call: CalculateWork	Time - Auto				
		"MAN_LineMode	%FC1300			
		Data".Auto				
		"LOG_LineTime Statistic".Auto Mode Li	neTime			
etwork 3:	Call: CalculateWork	Time - Manual				
		"MAN_LineMode Data".Manual	%FC1300 "LOG_CalculateWorkTime"			
		#_RisingEdge — Tr	N ENO		<u> </u>	
		"LOG_LineTime Statistic".Manual Mode <u>L</u> ii	neTime			
etwork 4:	Call: CalculateWork	Time - Start				
		"MAN_LineMode Data".Start	%FC1300 "LOG_CalculateWorkTime"			
		#t_RisingEdge — Tr				
		"LOG_LineTime Statistic".Start Line Li	neTime			
otwork E.	Call: CalculateWork	Time - Ston				
etwork D:	can. CalculateWork	. пш е - этор				
		"MAN_LineMode Data".Stop	%FC1300 "LOG_CalculateWorkTime"			
		#t_RisingEdge — Tr				
		Statistic".Stop LineLi	neTime			

Network 6: Call: CalculateWorkTime - Error

Totally Integrated Automation Portal		
	"MAN_LineMode Data".Error	

Totally Integrated	
Automation Portal	

LOG_CalculateWorkTime [FC1300]

LOG_CalculateV	LOG_CalculateWorkTime Properties										
General											
Name	LOG_CalculateWorkTime	Number	1300	Туре	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

```
#Trigger USInt

EN ENO

#LineTime.
Seconds
IN1 OUT

1 IN2 

ADD
USInt

#LineTime.
Seconds

Seconds
```

Network 2: Minute

```
#LineTime.
Seconds

| VISInt | Seconds | Move | EN ENO | #LineTime.
| Seconds | Move | EN ENO | #LineTime.
| ADD USInt | Seconds | EN ENO | #LineTime.Minute | IN1 OUT | #LineTime.Minute | IN1 OUT | #LineTime.Minute | IN2 & IN2 &
```

Network 3: Hours

```
#LineTime.Minute

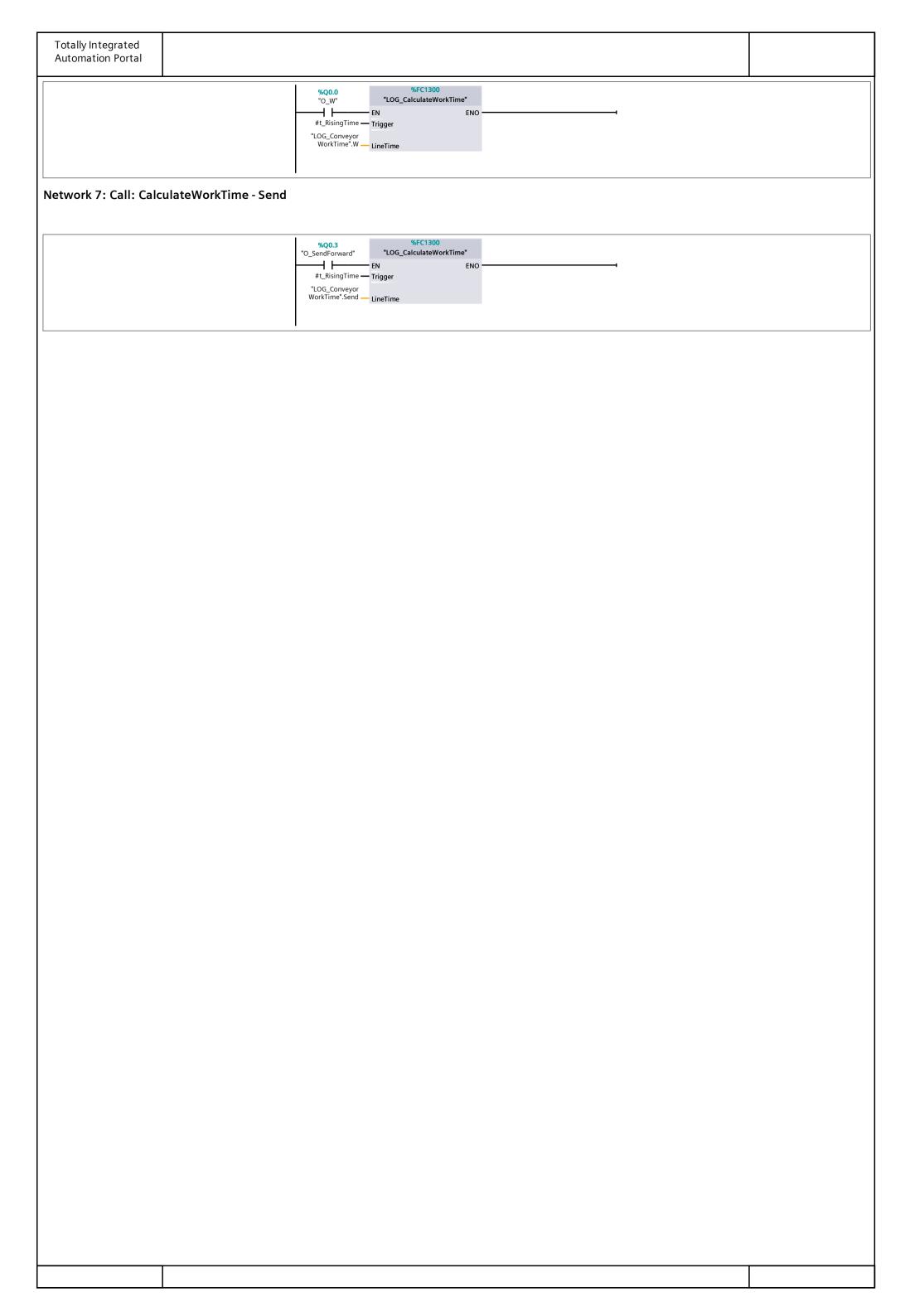
| Solution | So
```

Network 4: Days

```
#LineTime.Hours

| Solution | Sol
```

Totally Inte Automation	egrated n Portal									
		1-1 PN] / ne [FC20]	Program bl	ocks / 03_	_Logic / S	Statistic /	Time			
G_Conveyo eneral	orTime Prope	rties								
ame umbering	LOG_Conv	veyorTime c	Number	20		Туре	FC		Language	LAD
formation tle	Conveyor		Author			Comment			Family	
ersion	0.1		User-defined I	D					,	
ame Input					Data ty	/pe		Default value		
Output InOut										
r Temp										
t_Rising Constant	Time				Bool					
Return										
LOG_Co	onveyorTime				Void					
etwork 1:	Trigger									
					DB42 TRIG_DB"					
				R_ EN	ENO —					
				%M0.5 "Clock_1Hz" — CLK	Q → #t_Risi	ngTime				
			"1	#t_RisingTime — Trigg OG_Conveyor WorkTime".C1 — LineT		ENO				
etwork 3:	Call: Calc	ulate Work Tii	me - C2							
			Da	/_Hardware ta".C2.Run "I		cTime" ENO				
etwork 4:	Call: Calc	ulate Work Tii	me - C3							
				/_Hardware ta".C3.Run "I	%FC1300 LOG_CalculateWork	Time"				
				#t_RisingTime — Trigg	_	ENO —				
				OG_Conveyor WorkTime".C3 LineT						
etwork 5:	Call: Calc	ulate Work Tii	me - C4							
				/_Hardware ta".C4.Run "I	%FC1300 LOG_CalculateWork	Timo"				
				#t_RisingTime — Trigg		ENO ———				
				oG_Conveyor WorkTime".C4 — LineT						
				Linel	HILE					
	Callega									
etwork 6:	Call: Calc	ulateWorkTii	me - W							



Totally Integrated	
utomation Portal	

LOG_CountPackages [FC9]

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

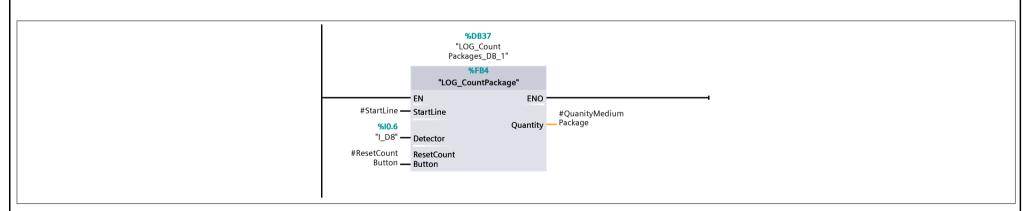
Name	Data type	Default value	
▼ Input			
StartLine	Bool		
ResetCountButton	Bool		
▼ Output			
LeftCount	Int		
ForwardCount	Int		
RightCount	Int		
▼ InOut			
QuanitySmallPackage	Int		
QuanityMediumPackage	Int		
QuanityLargePackage	Int		
Temp			
Constant			
▼ Return			
LOG_CountPackages	Void		

Network 1: Call: CountPackage - Small

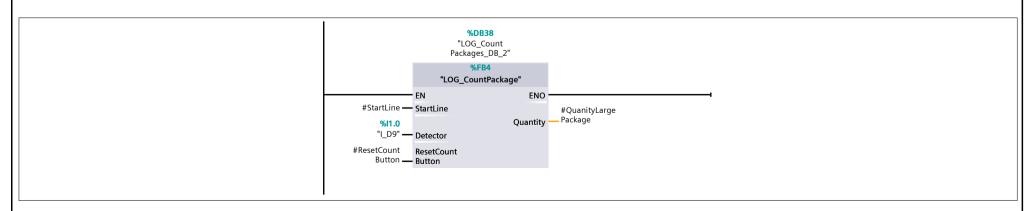
```
#StartLine — StartLine — Quantity
#Cond Count Packages DB*

#StartLine — StartLine — Package
#Quantity — Package
#ResetCount Button — Button
```

Network 2: Call: CountPackage - Medium



Network 3: Call: CountPackage - Large



Network 4: Move: LeftCount

Totally Integrated Automation Portal		
, acomation i ortal		
	#QuanitySmall PackageIN#LeftCount	
Network 5: Move: Fo	orwardCount	
	MOVE	
	#QuanityMedium Package — IN — ENO — #ForwardCount	
Network 6: Move: Ri	ghtCount	
	MOVE EN — ENO	
	#QuanityLarge Package — IN #RightCount	

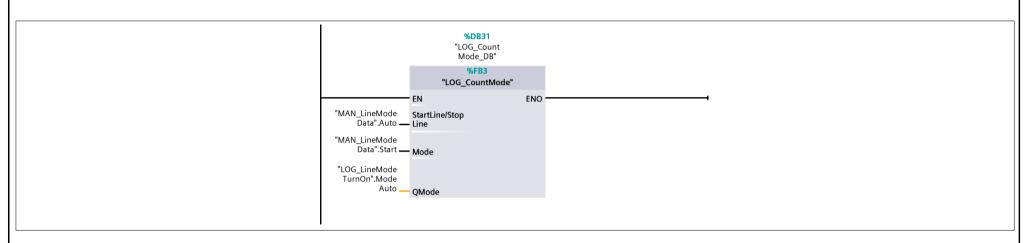
|--|--|

LOG_CountModes [FC19]

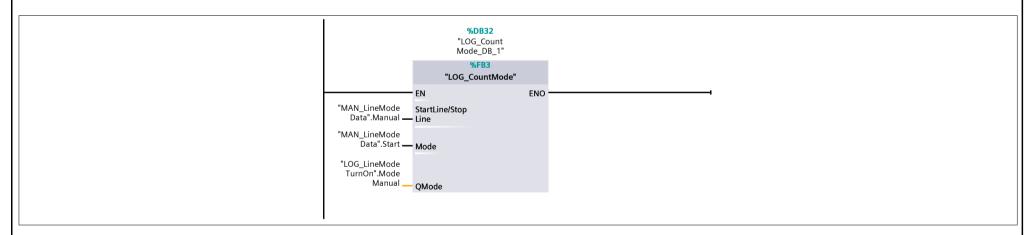
LOG_CountModes Properties							
General							
Name	LOG_CountModes	Number	19	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title	CountModes	Author		Comment		Family	
Version	0.1	User-defined ID					

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

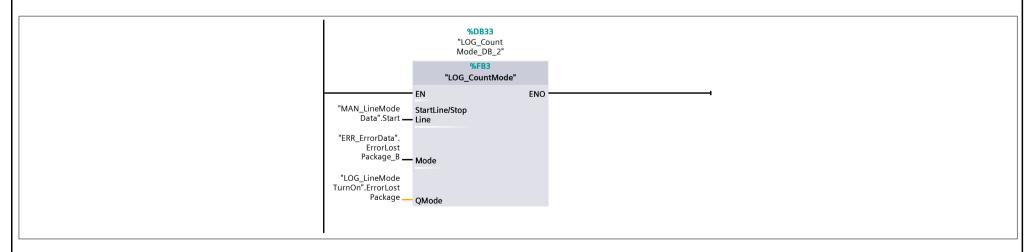
Network 1: Call: CountMode - Auto



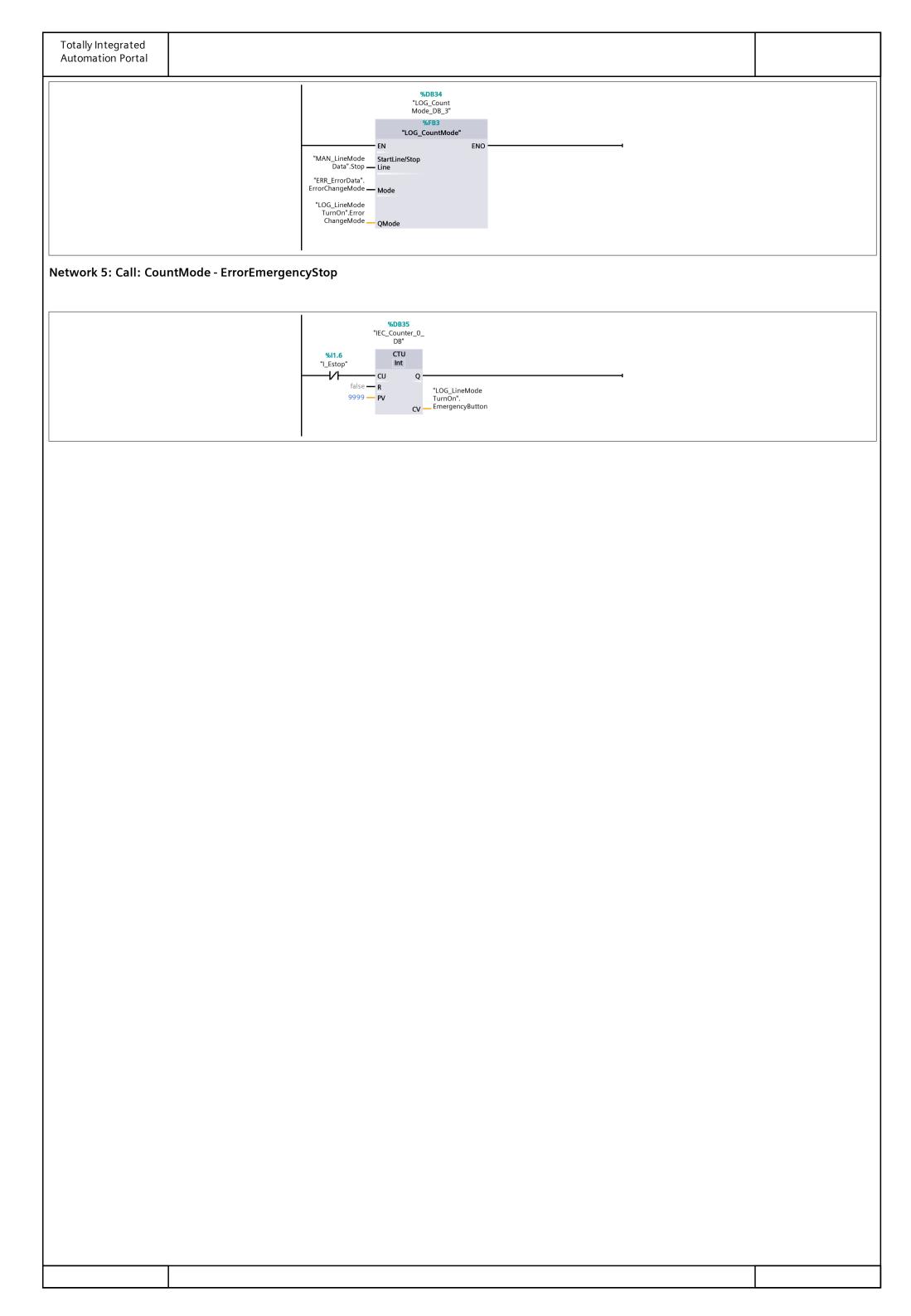
Network 2: Call: CountMode - Manual



Network 3: Call: CountMode - ErrorLostPackage



Network 4: Call: CountMode - ErrorChangeMode



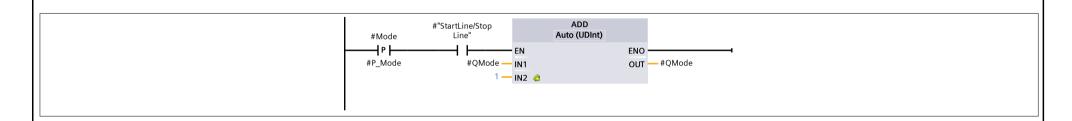
Totally Integrated Automation Portal	Automation Portal
--------------------------------------	-------------------

LOG_CountMode [FB3]

LOG_CountMode Properties							
General							
Name	LOG_CountMode	Number	3	Туре	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



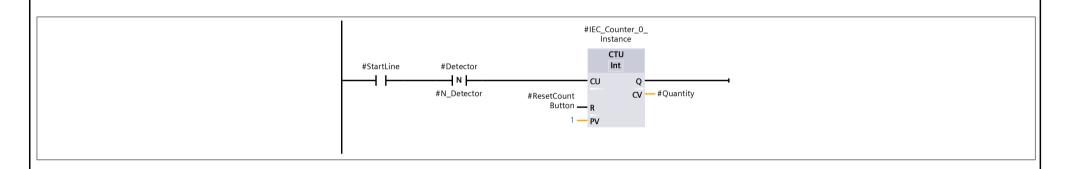
Totally Integrated	
Automation Portal	

LOG_CountPackage [FB4]

LOG_CountPackage Properties							
General							
Name	LOG_CountPackage	Number	4	Туре	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



Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / 04_Hardware	

HW_ClassHardware [FC5]

HW_ClassHardw	are Properties						
General							
Name	HW_ClassHardware	Number	5	Туре	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

```
**MDB6
"HW_Motor Controle_DB"

**FB1
"HW_MotorControle"

EN ENO

*HW_Hardware
Data".C1 — inConveyor Conveyor

**M1.0
"FirstScan" — FirstScan
```

Network 2: Call: MotorControle - C2

```
**MDB8

"HW_Motor
Controle_DB_1"

**FB1

"HW_MotorControle"
EN ENO

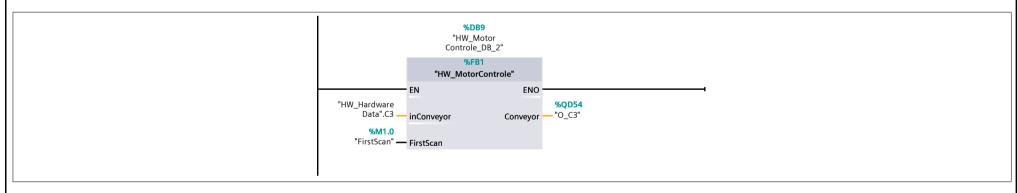
"HW_Hardware
Data".C2

**M0D50

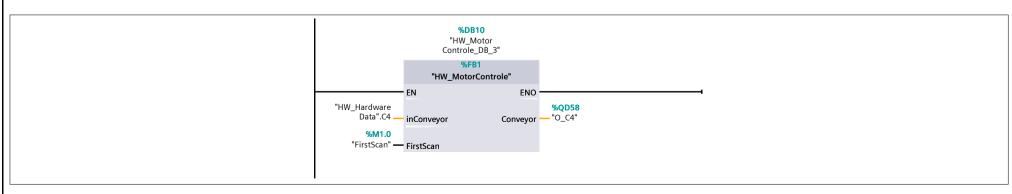
inConveyor Conveyor

**FirstScan" — FirstScan
```

Network 3: Call: MotorControle - C3



Network 4: Call: MotorControle - C4



Network 5: AlarmSiren

Totally Integrated Automation Portal			
	"MAN_LineMode Data".AlarmSiren	%Q2.3 "O_AlarmSiren"	

W_Moto	rcontrole legal				
	trole Properties				
eneral ime	HW_MotorControle	Number	1	Type FB	Language LAD
umbering	Automatic	Itumber	, ·	Type I b	Language
formation tle	MotorControle - Sequential	Author		Comment	Family
	algorithm			Comment	ranniy
rsion	0.1	User-defined ID			
ime			Data type	Default value	Retain
Input			Unit Makauli		Non-matrix
inConvey FirstScan			"stt_Motor" Bool	false	Non-retain Non-retain
Output					
Conveyo	r		Real	0.0	Non-retain
InOut					
Static S1			Bool	false	Non-retain
S2			Bool	false	Non-retain
S3			Bool	false	Non-retain
S4 S5			Bool Bool	false false	Non-retain Non-retain
t1			Bool	false	Non-retain
t2			Bool	false	Non-retain
speedLef	ft er_O_Instance		Real TON_TIME	0.0	Non-retain
					Non-retain
IEC_Time	er_0_Instance_1		TON_TIME		Non-retain Non-retain
Temp Constant		#			#S1
Temp Constant etwork 1:	Step 2-1	#	TON_TIME S2 #inConveyor.Run		Non-retain #S1 (s)
Temp Constant etwork 1:	Step 2-1	#	TON_TIME S2 #inConveyor.Run		#S1
Temp Constant etwork 1:	Step 2-1		TON_TIME S2 #inConveyor.Run		#S1
Temp Constant etwork 1:	Step 2-1		TON_TIME S2 #inConveyor.Run		#S1
Temp Constant	Step 2-1		TON_TIME S2 #inConveyor.Run		#S1
Temp Constant	Step 2-1		TON_TIME S2 #inConveyor.Run		#S1
Temp Constant etwork 1:	Step 2-1 Step 3-1		TON_TIME S2 #inConveyor.Run		#S1
Temp	Step 2-1 Step 3-1		S2 #inConveyor.Run #inConveyor.Run #inConveyor.Run #inConveyor.Run	Conveyor.Left Turn	#S1
Temp Constant etwork 1:	Step 2-1 Step 3-1		S2 #inConveyor.Run S3 #inConveyor.Run #int	Conveyor.Left Turn	#S1
Temp Constant etwork 1:	Step 2-1 Step 3-1		S2 #inConveyor.Run #inConveyor.Run #inConveyor.Run #inConveyor.Run		#S1
Temp Constant etwork 1:	Step 2-1 Step 3-1		S2 #inConveyor.Run #inConveyor.Run #inConveyor.Run #inConveyor.Run		#S1
Temp Constant etwork 1: 9	Step 2-1 Step 3-1 Step 2-4		S2 #inConveyor.Run #inConveyor.Run #inConveyor.Run #inConveyor.Run		#S1
Temp Constant etwork 1:	Step 2-1 Step 3-1 Step 2-4		S2 #inConveyor.Run S3 #inConveyor.Run S2 #inConveyor.Run		
Temp Constant etwork 1: 9	Step 2-1 Step 3-1 Step 2-4		S2 #inConveyor.Run S3 #inConveyor.Run S2 #inConveyor.Run		#51
Temp Constant etwork 1: 9	Step 2-1 Step 3-1 Step 2-4		S2 #inConveyor.Run S3 #inConveyor.Run S2 #inConveyor.Run		

```
Totally Integrated
  Automation Portal
                                                                 #inConveyor.Right
#inConveyor.Run Turn
                                                           #S3
                                                                                                                   #S5
                                                                                                                   #S3
                                                                                                                   -( R )-
Network 6: Step 5-2
                                                           #S5
                                                           \dashv \vdash
Network 7: Step 1-2
                                                           #inConveyor.Right #inConveyor.Left
#S1 #inConveyor.Run Turn Turn
                                                                                      \dashv \vdash
                                                                                                                  -( s )-----
Network 8: Step 1-3
                                                           #InConveyor.Left #InConveyor.Right
#S1 #InConveyor.Run Turn Turn
                                                                     --+\vdash
Network 9: Step 2 output
                                                                     MOVE
                                                                     EN - ENO
                                                          #S3 MOVE
EN — ENO —
                                                                             0.0 — IN d OUT1 — #Conveyor
Network 10: Step 3 output
                                                                      MUL
Auto (Real)
                                                                      EN - ENO
                                                          #inConveyor. OUT — #speedLeft Speed — IN1
                                                                -1.0 — IN2 📥
                                                                EN — ENO -
                                                            #speedLeft — IN 👍 OUT1 — #Conveyor
Network 11: Step 4 output
                                                                     #IEC_Timer_0_
Instance
                                                                         TON
                                                                         Time
                                                                                                                   #t1
                                                                             ET — T#0ms
                                                                T#2s — PT
Network 12: Step 5 output
```

Totally Integrated Automation Portal			
Network 13: First Scan	#IEC_Timer_0_ Instance_1 TON Time IN Q T#2s PT ET T#0ms	#t2 — () ——•	
	#FirstScan	#S1 —{ s }——•	
1			ı

Totally Integrated Automation Portal	

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

HW_HardwareData [DB16]

HW_HardwareD	ata Properties						
General							
Name	HW_HardwareData	Number	16	Туре	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

Totally Integrated
Automation Portal

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

HW_MovingAverageFilter [FB8]

rageFilter Properties						
HW_MovingAverageFilter	Number	8	Туре	FB	Language	SCL
Automatic						
	Author		Comment		Family	
0.1	User-defined ID					
	Automatic	HW_MovingAverageFilter Automatic Author	HW_MovingAverageFilter	HW_MovingAverageFilter	HW_MovingAverageFilter	HW_MovingAverageFilter

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[099] 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
       #Bufor[0] := #Weight;
0006
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 [OB30] HW_Weight Properties General Name	
Seeneral	
Number HW_Weight Number 30 Type OB Language LAD Numbering Automatic Information Ititle Weight Author User-defined ID Input Initial_Call Bool Event_Count Int Work Constant Wumber 30 Type OB Language LAD Inpud Comment Interval Family Inpud Default value Interval Int Interval Bool Interval Bool Interval Bool Interval Bool Interval Bool Interval Interval Interval Bool Interval Inter	
Title Weight Author User-defined ID Name Default value ✓ Input Initial_Call Bool Event_Count Int ✓ Temp Work Bool Comment Family	
Input Initial_Call Event_Count Int Temp Work Constant Bool Bool Bool Bool Bool	
Event_Count Int Temp Work Constant Int Bool Constant	
Work Bool Constant	
Network 1: Call: MovingAverageFilter	
%DB3 "HW_Moving AverageFilter_DB" %FB8	
"HW_MovingAverageFilter" EN ENO "HW_WeightData".	
"I_D1" — Start WeightFilter 25 — Samples %ID30	
"I_Weight" — Weight	
Network 2: Move: WeightFilter -> O_Weight	
%I0.1 "LD2" MOVE	
"I_D2" A P	
letwork 3: CMP: isSmallPackage	
"HW_WeightData". WeightOfSmall "HW_WeightData"	
Package IsSmallPackage	
"HW_WeightData". WeightFilter	
letwork 4: CMP: isMediumPackage	
Tetwork 4. Civir. Isinedidilir ackage	
"HW_WeightData". "HW_WeightData". WeightOfSmall WeightOfLarge "HW_WeightData". Package Package "IsMadiumPackage	
<= >= Real Control Control	
"HW_WeightData". "HW_WeightData". WeightFilter WeightFilter	
l Network 5: CMP: isLargePackage	
"HW_WeightData". WeightOfLarge "HW_WeightData". Package IsLargePackage	
C ISLargerackage C ISL	

Totally Integrated Automation Portal								
_	PU 1511-1 PN] / Pi htData [DB22]	rogram blo	cks / (04_Hardw	/are / Wei	ght		•
HW_WeightDa	ta Properties							
General								
Name	HW_WeightData	Number 22		Туре		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

	roperties						
eneral ime	H_ClassHMI	Number	6	Туре	FC	Language	LAD
mbering	Automatic	Number	0	Турс	li C	Language	L (U
ormation e	ClassHMI	Author		Comment		Family	
sion	0.1	User-defined ID		D-1		N. f k	
ne Input				Data type	L	Default value	
Output InOut							
Temp							
Constant							
Return H_Class	LINAI			Void			
work 1:	Call: DisplayError	— EN	%FC25 "V_DisplayError" ENc	0			
work 2:	Call: DisplayMode	EN	%FC24 "V_DisplayMode"	0			
		— EN	%FC28 "V_DisplayPackage" ENG	0			

Totally Inte	egrated n Portal									
PLC_1 [C	PU 1511-1 PN	l] / Program blo	cks / 05_	НМІ						
V_DisplayError [FC25] V_DisplayError Properties										
General Name	V_DisplayError	Number	25	Туре	FC	Lang	uage l	LAD		
Numbering Information Title	Automatic	Author		Commer	•	Fami	lv.			
Version	DisplayError 0.1	User-defined ID				,	ıy			
Input Output InOut Temp				Data type		Default value				
Constant Return										
V_Displa	ayError			Void						
Network 1:	0 - Error									
			"ERR_EI	rrorData". "ERR_ErrorData".						
			rrorData". ErrorEr angeMode S	mergency ErrorLost top Package_B	MOVE EN — ENO					
				0 —	IN 🤹 OUT1 — "V_HMI	Data".Error				
Network 2:	1 - Error	<u>'</u>								
		ErrorCh		OVE						
				OUT1 — "V_HMIData".Error						
Network 3:	2 Error									
network 5.	2 - 11101									
		"ERR_E	rrorData".							
	ErrorEmergency Stop MOVE EN — EN — ENO									
			2 — IN	<mark>å OUT1 ── "</mark> V_HMlData".Error						
Network 4:	3 - Error									
		Erre	rrorData". orLost kage_B	OVE						
			EN -	— ENO						

Totally Integ Automation	rated Portal									
PLC 1 [CI	PU 151	1-1 PN] / Pr	ogram blo	ocks / 05_HM	11					
 V_DisplayI			3	_						
V_DisplayMode General	Properties	5								
Name Numbering	V_Display Automati		Number	24		Туре	FC		Language	LAD
Information Title	DisplayMo	ode	Author			Comment			Family	
Version Name	0.1		User-defined II		Data typ			Default value		
Input Output					Duta typ			Default value		
InOut Temp										
Constant Return										
V_Display					Void					
Network 1: (0 - Mode									
			"MAN	_LineMode						
				_LineMode ta".Stop	"V_HMID	ata"				
				di OUT1	"V_HMIDa — Mode	ala .				
Network 2:	1 - Mode		I							
	· Wode									
			"MAN Da	_LineMode ta".Start MOVE						
				EN — ENC	"V_HMIDa	ata".				
				- OUI1	Mode					
Network 3: 2	2 - Mode									
			Da	_LineMode ta".Error MOVE 						
				2 — IN	"V_HMIDa — Mode	ata".		·		

•

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

V_DisplayPackage [FC28]

V_DisplayPackage Properties								
General								
Name	V_DisplayPackage	Number	28	Туре	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

```
%I0.0
"I_D1"
Package_1
(S)

%I0.1
"U_HMIData".
Package_1

"V_HMIData".
Package_1

(R)

"ERR_ErrorData".
ErrorLostPackage.
Error_1
```

Network 2: Package_2

```
#ID2" "V_HMIData".
Package_2

(S)

#ID3" "V_HMIData".
Package_2

"LD3" Package_2

(R)

"ERR_ErrorData".
ErrorLostPackage.
Error_2
```

Network 3: Package_3

Network 4: Package_4 - New Version

Totally Integrated **Automation Portal %I0.3** "I_D4" "V_HMIData". Package_4 \dashv \vdash **%DB54**"IEC_Timer_0_DB_
1" "V_HMIData". Package_4 TON Time #tp1 Q ET — T#0ms T#2s — PT "V_HMIData". Package_4 #tp1 —(R)— "ERR_ErrorData". ErrorLostPackage. Error_4 **%DB53**"IEC_Timer_0_DB" TP Time "V_HMIData".Pp_1 **—**()—— - IN Q-T#2s — PT ET — T#0ms Network 5: Package_5 "V_HMIData". Package_5 -------(S)---------**%I0.5** "I_D5" "V_HMIData". Package_5 **%I0.6** "I_D8" ---**-(** R **)**--"ERR_ErrorData". ErrorLostPackage. Error_5 Network 6: Package_6 "V_HMIData". Package_6 **%l0.7** "l_D6" **-(** s **)**--**%l1.0** "I_D9" "V_HMIData". Package_6 —(R)—— "ERR_ErrorData". ErrorLostPackage. Error_6

Totally Integrated Automation Portal	

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

V_HMIData [DB40]

V_HMIData Properties							
General							
Name	V_HMIData	Number	40	Туре	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

Totally Integrated Automation Portal	

MAN_ControlLine_DB [DB2]

MAN_ControlLine_DB Properties							
General							
Name	MAN_ControlLine_DB	Number	2	Туре	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

Totally Integrated Automation Portal	

MAN_ControlLine_DB_1 [DB5]

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

ame	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

vingAv I		11					
	HW_MovingAverageFil- ter_DB	Number	3	Туре	DB	Language	DB
ring tion	Automatic						
	0.1	Author User-defined	LID	Comment		Family	
	0.1	oser defined	Data typ	oe	Start value		Retain
:				-			
art mples			Bool Int		false 0		False False
eight			Real		0.0		False
ut					0.0		E I
eightFi t	iter		Real		0.0		False
:							
for			Array[0	99] of Real			False

Totally Integ							
PI C 1 [C	PU 1511-1 PN] / P	rogram blo	cks / System bloo	rks / Progra	am resources		
_			cks / System blo	cks / i rogic	ann resources		
OTOINI_WH	rControle_DB [DB6]						
HW_MotorCon	trole_DB Properties						
General							
Name	HW_MotorControle_DB	Number	6	Туре	DB	Language	DB
Numbering	Automatic				·		•
nformation							
Title		Author		Comment		Family	
	0.1	11			!		!

Title		Author		Comment	Family	
Version	0.1	User-defined ID				
Name			Data type	Start value		Retain
▼ Input						
inConve	eyor		"stt_Motor"			False
FirstSca	n		Bool	false		False
▼ Output						
Convey	or		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
speedLe	eft		Real	0.0		False

False

False

TON_TIME

TON_TIME

IEC_Timer_0_Instance

IEC_Timer_0_Instance_1

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / System blocks / Program resources	
HW_MotorContro	e_DB_1 [DB8]	
HW_MotorControle_DB_1	Properties	
General		

HW_MotorCon	trole_DB_1 Properties									
General										
Name	HW_MotorControle_DB_1	Number	8		Type	DB	La	nguage	DB	
Numbering	Automatic									
Information										
Title		Author			Comment		Fa	mily		
Version	0.1	User-defined ID					'			
	:									
Name				Data type		Start value			Retain	

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

Totally Integr Automation F							
PLC_1 [CP	U 1511-1 PN] / Pr	ogram blo	cks / System bloc	:ks / Progra	m resources		
HW_Motor	Controle_DB_2 [DB9	9]					
_	Controle_DB_2 [DB9 ole_DB_2 Properties	9]					
_		9]					
HW_MotorContr		Number	9	Туре	DB	Language	DB
HW_MotorContr	ole_DB_2 Properties		9	Туре	DB	Language	DB
HW_MotorContr General Name	role_DB_2 Properties HW_MotorControle_DB_2		9	Туре	DB	Language	DB

Title		Author		Comment	Family	
Version	0.1	User-defined ID				
Name			Data type	Start v	value	Retain
▼ Input						
inConveyo	r		"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

False

False

TON_TIME

TON_TIME

IEC_Timer_0_Instance

IEC_Timer_0_Instance_1

Totally Integ Automation							
	PU 1511-1 PN] / Pr Controle_DB_3 [DB1		ocks / System blo	cks / Progra	am resources		
	crole_DB_3 Properties						
General Name	HW_MotorControle_DB_3	Number	10	Туре	DB	Language	DB
Numbering	Automatic						

Numbering	ratornatic					
Information						
Title		Author		Comment	Family	
Version	0.1	User-defined ID				
No.			Data tura	Cha sh walls a		Datain
Name			Data type	Start value		Retain
▼ Input						
inConve	/or		"stt_Motor"			False
FirstScar			Bool	false		False
▼ Output						
Conveyo	r		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
speedLet	t		Real	0.0		False
IEC_Time	er_0_Instance		TON_TIME			False
IEC_Time	er_0_Instance_1		TON_TIME			False

Numbering Automatic Information Title Version 0.1 Name ✓ Input StartLine StopLine ModeManual ButtonAction ✓ Output StartAction	Author User-define	d ID Data typ	Comment	Start value	Family	Retain
Title Version 0.1 Name ✓ Input StartLine StopLine ModeManual ButtonAction ✓ Output		Data typ		Start value	Family	Retain
Version 0.1 Name ✓ Input StartLine StopLine ModeManual ButtonAction ✓ Output		Data typ		Start value	anny	Retain
Iame ✓ Input StartLine StopLine ModeManual ButtonAction ✓ Output	-11	Data typ	e	Start value		Retain
StartLine StopLine ModeManual ButtonAction Output			e e	Start value		KATSIN
StartLine StopLine ModeManual ButtonAction Output		Rool				Ketaiii
StopLine ModeManual ButtonAction Output				false		False
ModeManual ButtonAction Output		Bool		false		False
ButtonAction Output		Bool		false		False
		Bool		false		False
StartAction						
		Bool		false		False
InOut						
Static						
IEC_Counter_0_Instance		CTU_INT				True
P_ButtonAction		Bool		false		False
CV		Int		0 false		False False
Reset		Bool		laise		i dise

Retain
Retain
Retain
Retain
rtetairi
False
raise
True
False
False
False

nformation itle					DB		
ille		Author		Comment		Family	
	0.1	User-defined ID		Comment		raility	
ame			Data type		Start value		Retain
ame ▼ Input			Data type		Start value		Retain
StartLine			Bool		false		False
StopLine			Bool		false		False
ModeManu	al		Bool		false		False
ButtonActio			Bool		false		False
Output							
StartAction			Bool		false		False
InOut							
Static							
IEC Counte	r_0_Instance		CTU_INT				True
P_ButtonAc			Bool		false		False
CV			Int		0		False
Reset			Bool		false		False
CV			Int		0		False

Totally Integ							
	PU 1511-1 PN] / Pr alModule_DB_3 [DE		cks / System b	locks / Prog	ram resource	es	,
LOG_ManualMo	odule_DB_3 Properties						
General							
Name	LOG_ManualModule_DB_3	Number	15	Туре	DB	Language	DB
Numbering	Automatic						
Information		11 -		-		- ::	
Title		Author		Comment		Family	
Version	0.1	User-defined ID					
Name			Data type	S	itart value		Retain
▼ Input							
StartLine			Bool	f	alse		False
StopLine			Bool		alse		False
ModeMar	nual		Bool		alse		False
ButtonAct			Bool		alse		False
✓ Output							
StartActio	un .		Bool	f	alse		False
InOut	···		5001		u.5c		i disc
▼ Static							
	ter_0_Instance		CTU_INT				True
P_Button/			Bool	f.	alse		False
	CHOIL		Int	C			False
CV			Bool		alse		False

Name Numbering	LOG_ManualModule_DB_4 Automatic	Number 17		Туре	DB	Language	DB
nformation Title		Author		Comment		Family	
/ersion	0.1	User-defined ID					
ame			Data type		Start value		Retain
▼ Input							
StartLine			Bool		false		False
StopLine			Bool		false		False
ModeMa			Bool		false		False
ButtonA	ction		Bool		false		False
Output	·		D I		6-1		r L
StartActi InOut	ion		Bool		false		False
✓ Static							
	nter_0_Instance		CTU_INT				True
P_Buttor			Bool		false		False
CV	n tetrori		Int		0		False
Reset			Bool		false		False

Start value Reta false False false false False false False	Comment	uthor ser-defined ID		nbering Auton rmation
Start value Reta false False false False				
Start value Reta false False false False				, I
false False False	e			sion 0.1
false False False		Data t		ne
false		Data (nput
false		Bool		StartLine
falso		Bool		StopLine
		Bool		ModeManual
false		Bool		ButtonAction
				tput
false		Bool		StartAction
false True			ıstance	
		Int		P_ButtonAction
0 False				CV
false Fa		CTU_IN Bool	nstance	nOut Static IEC_Counter_O_Ir P_ButtonAction

	LOG_ManualModule_DB_6	Number	19	Туре	DB	Language	DB
ame umbering	Automatic		1.5	. , , , ,	00	Language	100
formation							
:le		Author		Comment		Family	
sion	0.1	User-defined ID					
me			Data type		Start value		Retain
Input							
StartLine			Bool		false		False
StopLine			Bool		false		False
ModeMa	nual		Bool		false		False
ButtonAc	tion		Bool		false		False
utput							
StartActio	on		Bool		false		False
nOut							
tatic							
IEC_Cour	nter_0_Instance		CTU_INT				True
P_Button	Action		Bool		false		False
CV			Int		0		False

	OG_ManualModule_DB_7 Itomatic	Author User-defined ID	20	Type DB	Language	DB
ormation le rsion 0.7						
rsion 0.	1					
rsion 0.	1			Comment	Family	
<u> </u>		Hoser-aerinea ID			- 	
ne		'				
			Data type	Start value		Retain
Input						
StartLine			Bool	false		False
StopLine			Bool	false		False
ModeManual			Bool	false		False
ButtonAction			Bool	false		False
put						
StartAction			Bool	false		False
Out						
atic						
IEC_Counter_0	0 Instance		CTU_INT			True
P_ButtonAction			Bool	false		False
			Int	0		False
			Bool	false		False
Reset			ROOI	Talse		False

Totally Integrated	
Automation Portal	

LOG_AutoControle_DB [DB11]

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

ime	Data type	Start value	Retain
r Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
SmallPackage	Bool	false	False
Medium Package	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			
Conveyors Auto	"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

ral						
ering	ERR_EStop_DB Automatic	Number	21	Type DB	Language	DB
nation		Author		Comment	Family	
n	0.1	User-defined ID	<u>'</u>	Start value		Retain
ut			Data type			
EStopBu ResetBu			Bool Bool	false false		False False
tput Error			Bool	false		False
out tic						
P_Reset	Button		Bool	false		False

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / System blocks / Program resources	
ERR_LostPackage_	_DB [DB24]	

ERR_LostPackag	ERR_LostPackage_DB Properties						
General	General						
Name	ERR_LostPackage_DB	Number	24	Туре	DB	Language	DB
Numbering	Automatic						
Information	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

Totally Integrated Automation Portal	

ERR_LostPackage_DB_1 [DB25]

ERR_LostPackage_DB_1 Properties							
General							
Name	ERR_LostPackage_DB_1	Number	25	Туре	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

Totally Integrated Automation Portal						
PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources						
ERR LostPackage	DB 2 [DB26]					

ERR_LostPacka	ERR_LostPackage_DB_2 Properties						
General	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

Totally Integrated Automation Portal					
PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources					
ERR_LostPackage_DB_3 [DB28]					

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

ame	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

Totally Integrated Automation Portal					
PLC_1 [CPU 1511-1 PN] / Program blocks / System blocks / Program resources					
ERR_LostPackage_DB_4 [DB29]					

ERR_LostPackage	e_DB_4 Properties						
General							
Name	ERR_LostPackage_DB_4	Number	29	Туре	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author		Comment		Family	

					·
Version	0.1	User-defined ID			
Name			Data type	Start value	Retain
▼ Input					
StartLine	2		Bool	false	False
StopLine	2		Bool	false	False
AutoMo	de		Bool	false	False
ResetBu	tton		Bool	false	False
Di			Bool	false	False
Dj			Bool	false	False
FirstScar	1		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_ResetI	Button		Bool	false	False
IEC_Tim	er_0_Instance		TON_TIME		False

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / System blocks / Program resources	

ERR_LostPackage_DB_5 [DB30]

ERR_LostPackag	e_DB_5 Properties						
General							
Name	ERR_LostPackage_DB_5	Number	30	Туре	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_O_Instance	TON_TIME		False

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Program blocks / System blocks / Program resources	
ERR_ChangeMode	_DB [DB23]	

ERR_ChangeMe	ode_DB Properties						
General							
Name	ERR_ChangeMode_DB	Number	23	Туре	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

Totally Integr Automation F							
PLC_1 [CP	U 1511-1 PN] / Pr	ogram blo	ocks / System bloc	:ks / Progra	m resources		
IEC_Counte	r_0_DB [DB35]						
IEC_Counter_0_							
_		_		_			
IEC_Counter_0_		Number	35	Туре	DB	Language	DB
IEC_Counter_0_I	DB Properties	Number	35	Туре	DB	Language	DB
IEC_Counter_0_I General Name	DB Properties IEC_Counter_0_DB	Number	35	Туре	DB	Language	DB

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

User-defined ID CNTR

Version

1.0

al	de_DB Properties					
ering	LOG_CountMode_DB Automatic	Number	31	Type DB	Language	DB
nation		Author		Comment	Family	
n	0.1	User-defined ID	Data type	Start value		Retain
out	e/StopLine		Bool	false		False
Mode tput	луюрение		Bool	false		False
Out			UDInt	0		False
QMode tic						
P_Mode			Bool	false		False

ral	de_DB_1 Properties					
e pering	LOG_CountMode_DB_1 Automatic	Number	32	Type DB	Langu	uage DB
mation		Author		Comment	Famil	у
n	0.1	User-defined ID	Data type	Start value		Retain
ut StartLine	e/StopLine		Bool	false		False
Mode tput			Bool	false		False
out QMode			UDInt	0		False
tic			Bool	false		False
P_Mode			ВООІ	laise		raise

al						
ering	LOG_CountMode_DB_2 Automatic	Number	33	Type DB	Language	DB
nation		Author		Comment	Family	
n	0.1	User-defined ID	Data type	Start value		Retain
ut	15.					
Mode	e/StopLine		Bool Bool	false false		False False
tput)ut						
QMode tic			UDInt	0		False
P_Mode			Bool	false		False

al	de_DB_3 Properties					
ering	LOG_CountMode_DB_3 Automatic	Number	34	Type DB	Language	DB
nation		Author		Comment	Family	
n	0.1	User-defined ID	Data type	Start value		Retain
ut	ICh I.'.					
Mode	/StopLine		Bool Bool	false false		False False
tput Out						
QMode tic			UDInt	0		False
P_Mode			Bool	false		False

me	D LDIC	Number	1001	T	FB	1	SCL
umbering	R_TRIG Automatic	Number	1001	Туре	FB	Language	SCL
ormation le		Author	SIMATIC	Comment		Family	BIT
sion	1.0	User-defined	ID R_TRIG				
ne Input			Data type	Default val	ue	Retain	
CLK			Bool	false		Non-re	tain
Output							
Q nOut			Bool	false		Non-re	tain
Static							
Stat_Bit			Bool	false		Non-re	tain

or SIMATIC defined ID R_TRIG	Comment	- ••	
-		Family	BIT
Data type	Start value		Retain
Bool	false		False
Bool	false		False
Bool	false		False
	Bool	Bool false	Bool false

Automatic 1.0	Author User-defined ID	SIMATIC R TRIG			
1.0	Oser-defined it	I K I KIG	Comment	Family	BIT
		Data type	Start value		Retain
		Bool	false		False
		Bool	false		False
		Bool	false		False

OG_CountPackages_DB Properties eneral					
ame LOG_CountPackages_ umbering Automatic	DB Number 36	5	Type DB	Language	DB
formation					
tle ersion 0.1	Author User-defined ID		Comment	Family	
me		Data type	Start value		Retain
Input		Sata type	Juit value		Netum
StartLine		Bool	false		False
Detector		Bool	false		False
ResetCountButton		Bool	false		False
Output					
Quantity		Int	0		False
InOut Static					
		CTU_INT			True
IEC_Counter_O_Instance N_Detector		Bool	false		True

G_CountPackages_DB_1 Properties neral me	1 Number 37	7	Туре	DB	Language	DB
mbering Automatic prmation e	Author		Comment		Family	
sion 0.1	User-defined ID				,	
me Input		Data type		Start value		Retain
StartLine		Bool		false		False
Detector		Bool		false		False
ResetCountButton Output		Bool		false		False
Quantity		Int		0		False
InOut						
Static						
IEC_Counter_O_Instance N_Detector		CTU_INT Bool		false		True True
50.0000		5001		. 4150		iiue

Totally Integral Automation	rated Portal						
LC_1 [CF	PU 1511-1 PN] / Pr	ogram blocks	/ System blo	ocks / Progr	am resources	6	
	tPackages_DB_2 [DE	338]					
G_CountPack eneral	ages_DB_2 Properties						
ame		Number 38		Туре	DB	Language	DB
umbering formation	Automatic						
tle ersion	0.1	Author User-defined ID		Comment		Family	
a me r Input],,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Data type	St	art value		Retain
StartLine			Bool		lse		False
Detector	1B. H		Bool		lse		False
ResetCour	ntButton		Bool	та	lse		False
Quantity			Int	0			False
InOut							
Static							
IEC_Coun N_Detecto	ter_0_Instance		CTU_INT Bool	£ 1	lse		True True
N_Detection	or		БООІ	Idi	ise		True

al	3_1 Properties					
ering	ERR_EStop_DB_1 Automatic	Number	41	Type DB	Language	DB
nation		Author		Comment	Family	
n	0.1	User-defined ID	Data type	Start value		Retain
ut EStopBu	tton		Bool	false		False
esetBu tput			Bool	false		False
Error			Bool	false		False
ut tic						
P_Reset	Button		Bool	false		False

Totally Integr Automation F							
_	U 1511-1 PN] / Pr eMode_DB_1 [DB49		ocks / System bloo	cks / Progra	am resources		
ERR_ChangeMo	de_DB_1 Properties						
General							
Name	ERR_ChangeMode_DB_1	Number	49	Туре	DB	Language	DB
Numbering	Automatic						
Information							

imormation					
Title		Author	C	omment	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 ResetButto	n		Bool	false	False

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

LOG_AutoControle_DB_1 [DB51]

LOG_AutoContr	ole_DB_1 Properties						
General							
Name	LOG_AutoControle_DB_1	Number	51	Туре	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

lame	Data type	Start value	Retain
▼ Input			
StartLine	Bool	false	False
StopLine	Bool	false	False
AutoMode	Bool	false	False
SmallPackage	Bool	false	False
Medium Package	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

	DB Properties						
	IEC_Timer_0_DB	Number	53	Туре	e DB	Language	DB
ring	Automatic						
ition						_ 	l
	1.0	Author	Simatic	Com	nment	Family	IEC
	1.0	User-defined	ID IEC_IMR				
			Dat	a type	Start value		Retain
ic							
Т			Tim	e	T#0ms		False
Γ			Tim	e	T#0ms		False
ı			Воо	ı	false		False
1			Воо				
N Q			Воо		false		False

	_O_DB_1 [DB54] DB_1 Properties						
eral e	IEC_Timer_0_DB_1	Number	54	Туре	DB	Language	DB
bering	Automatic	Italibei		Type	DD	Language	
nation		Author	Simatic	Comment	<u>.</u>	Family	IEC
on	1.0	User-defined		Commen	L	railliy	iEC
			Data ty	/pe	Start value		Retain
atic				P-			
PT			Time		T#0ms		False
ET			Time		T#0ms		False
IN Q			Bool Bool		false false		False False
			, , , , , , , , , , , , , , , , , , ,				
			, pass				

	rated Portal						
	O 1511-1 PN] _1 [DB56]	/ Program bl	ocks / System b	locks / Program	resources		
RIG_DB_1 Pr							
neral ne	R_TRIG_DB_1	Number	56	Type DB	Lang	Juage DB	
mbering ormation	Automatic						
e sion	1.0	Author User-defined	SIMATIC ID R_TRIG	Comment	Fam	ily BIT	
ne Input			Data type	Start val	ue	Retain	
CLK			Bool	false		False	
Output Q			Bool	false		False	
InOut Static							
Stat_Bit			Bool	false		False	

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN]	
Technology objec		
This folder is empty.		

tegrated	
utomation Portal	

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

PLC tags

PLC tag	js –			
	Name	Data type	Address	Retain
90	System_Byte	Byte	%MB1	False
	FirstScan	Bool	%M1.0	False
101	DiagStatusUpdate	Bool	%M1.1	False
100	AlwaysTRUE	Bool	%M1.2	False
100	AlwaysFALSE	Bool	%M1.3	False
101	Clock_Byte	Byte	%МВО	False
100	Clock_10Hz	Bool	%M0.0	False
100	Clock_5Hz	Bool	%M0.1	False
101	Clock_2.5Hz	Bool	%M0.2	False
TON .	Clock_2Hz	Bool	%M0.3	False
(B)	Clock_1.25Hz	Bool	%M0.4	False
01	Clock_1Hz	Bool	%M0.5	False
128	Clock_0.625Hz	Bool	%M0.6	False
OII	Clock_0.5Hz	Bool	%M0.7	False

Totally Integrated Automation Portal			
PLC_1 [CPU 1511-1 PN] / PLC ta	ags / Standard-Variablentabe	lle [66]	•
User constants			
User constants Name	Data type	Value	
	,		

Totally Integrated	
utomation Portal	

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

PLC tags

PLC tag	S			
	Name	Data type	Address	Retain
(1)	I_D1	Bool	%IO.O	False
-01	I_D2	Bool	%IO.1	False
-	I_D3	Bool	%10.2	False
40	I_D4	Bool	%10.3	False
-	I_D7	Bool	%10.4	False
-	I_D5	Bool	%10.5	False
41	I_D8	Bool	%10.6	False
-	I_D6	Bool	%10.7	False
41	I_D9	Bool	%I1.0	False
-	I_Start	Bool	%I1.1	False
-	I_Reset	Bool	%I1.2	False
-01	I_Stop	Bool	%I1.3	False
-	I_Auto	Bool	%11.4	False
-	l_Manual	Bool	%I1.5	False
-01	I_Estop	Bool	%I1.6	False
-01	L_C1	Bool	%11.7	False
- 10	I_W	Bool	%I2.0	False
-	I_C2	Bool	%I2.1	False
- 12	L_C3	Bool	%I2.2	False
- 12	I_C4	Bool	%I2.3	False
40	I_SendLeft	Bool	%12.4	False
-01	I_SendForward	Bool	%12.5	False
-01	I_SendRight	Bool	%I2.6	False
-	I_ResetCount	Bool	%12.7	False
-01	I_Weight	Real	%ID30	False

PLC_1 [CPU 1511-1 PN] / PLC tags / Input [25] User constants Neare Date type Value	Totally Integrated Automation Portal				
Jser constants		1-1 PN] / PLC tags / Input [25]			
			Data type	Value	

Totally Integrated	
utomation Portal	

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

PLC tags

PLC tag	js			
	Name	Data type	Address	Retain
(0)	O_W	Bool	%Q0.0	False
-	O_SendLeft	Bool	%Q0.1	False
-(10)	O_SendRight	Bool	%Q0.2	False
(B)	O_SendForward	Bool	%Q0.3	False
(III)	O_StartLight	Bool	%Q0.4	False
-QUI	O_ResetLight	Bool	%Q0.5	False
-(10)	O_StopLight	Bool	%Q0.6	False
(III)	O_ColumnRed	Bool	%Q0.7	False
(III)	O_ColumnGreen	Bool	%Q1.0	False
-(0)	O_ColumnYellow	Bool	%Q1.1	False
-(0)	O_C1_light	Bool	%Q1.2	False
(III)	O_C2_light	Bool	%Q1.4	False
	O_C3_light	Bool	%Q1.5	False
(III)	O_C4_light	Bool	%Q1.6	False
(III)	O_SendLeft_light	Bool	%Q1.7	False
-(10)	O_SendForward_light	Bool	%Q2.0	False
(III)	O_SendRight_light	Bool	%Q2.1	False
(10)	O_ResetCount_light	Bool	%Q2.2	False
-(10)	O_AlarmSiren	Bool	%Q2.3	False
(III)	O_W_light	Bool	%Q1.3	False
-	O_LeftCount	DInt	%QD30	False
- (10)	O_ForwardCount	DInt	%QD34	False
-	O_RightCOunt	DInt	%QD38	False
-01	O_Weight	Real	%QD42	False
-	O_C1	Real	%QD46	False
-01	O_C2	Real	%QD50	False
-(0)	O_C3	Real	%QD54	False
(III)	O_C4	Real	%QD58	False

Totally Integrated Automation Portal				
	1-1 PN] / PLC tags / Output [28]			
User constants User constants				
Name		Data type	Value	

Niverkov 2				
Niveral au				
Number 3	Туре	UDT	Language	
Author	Com	ment	Family	
User-defined ID				
	Data type		Default value	
	Bool		false	
	Bool		false	
	Bool		false	
	Bool			
		User-defined ID Data type Bool Bool Bool	User-defined ID Data type Bool Bool Bool Bool Bool Bool Bool Bool Bool	User-defined ID

otor Properties al stt_M	otor	Number 1		Туре	UDT		Language	
ering nation	otoi	rumber 1		Турс	ODT		Language	
n		Author User-defined ID		Comment			Family	
П		oser-defined ib	Data type			Default va	lue	
n			Bool			false		
tTurn htTurn			Bool Bool			false false		
eed			Real			0.0		

_LostPackag neral	eError Properties							
me me	stt_LostPackageError	Number	4	Туре	UDT		Language	
mbering				1, 3,	·			·
ormation e		A salls					E	
on		Author User-defined ID	<u> </u>	Comment			Family	
11		oser-defilled it	,					
			Data typ	e		Default va	alue	
rror_1			Bool			false		
ror_2			Bool Bool			false false		
rror_3 rror_4			Bool			false		
rror_5			Bool			false		
or_6			Bool			false		

Totally Integ Automation	rated Portal					
C 1 [CI))	1 / DI C data tura a				•
.C_1 [CF :_TimeW] / PLC data types				
_TimeWork P						
neral me	stt_TimeWork	Number 2	Тур	pe UDT	Language	
mbering ormation	stt_filllework	Number	Гур	001	Language	
e rsion		Author User-defined ID	Con	nment	Family	
me		oser definied is	Data type		Default value	
Seconds Minute			USInt USInt		0	
Hours Days			USInt UDInt		0	
Days			05		, c	

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / PLC data types	
System data type	5	
This folder is empty.		

Totally Integrated Automation Portal				
	4.4.001/10// 1 16 11			
Forcetabelle	1-1 PN] / Watch and force tables			
Name	Address	Display format	Force value	
				I

Totally Integrated		
Totally Integrated Automation Portal		
PLC_1 [CPU 1511-1 PN]		
Traces		
Name		
Trace		
ı		

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN] / Traces	
Measurements		
This folder is empty.		

Totally Integrated Automation Portal		
	1-1 PN] / Traces	
Combined measu	rements	
Name		

Totally Integrated Automation Portal		
Supervisions	1-1 PN] / PLC supervisions & alarms	
This folder is empty.		

Totally Integra Automation Po	ted ortal				
	J 1511-1 PN	I] / PLC s	upervisions & alarms		
PLC alarms					
Name	Туре	ID	Alarm text	Info text	Informa- tion only

Totally Integrated
Automation Portal

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

System alarms

System alarms Name	Туре	ID	Alarm text	Info text	Information only
	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@		True
	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@		True
	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@		False
DIAG_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
DIAG_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
DIAG_AL- AT_CPU_MR_MSG _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
DIAG_AL- AT_CPU_MR_MSG _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
DIAG_AL- AT_CPU_TMPERR_ ISG_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
DIAG_AL- AT_RACK_MSG_00 4	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
AT_RACK_MSG_01 4	PLC alarm	10	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Order number: @6W%t#265K@	False
ICE_MSG_0005	PLC alarm	11	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Order number: @6W%t#265K@	True
ICE_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
DIAG_ALCAT_IO- /STEM_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
DIAG_ALCAT_IO- YSTEM_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
DIAG_AL- AT_MOD- IL_MSG_0003	PLC alarm	15	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
AT_MOD- IL_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
DIAG_ALCAT_SUB- 1ODUL_MSG_0002		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
DIAG_ALCAT_SUB- 1ODUL_MSG_0102		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
AT_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
AT_CPU_OST_MSG 010D		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
DIAG_AL- AT_PLC_MSG_00F	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
AT_PLC_MSG_01F	PLC alarm	22	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Order number: @6W%t#265K@	False
DIAG_ALCAT_CON- G_REPORT_0029		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
DIAG_AL- AT_USER_MSG_00 D	PLC alarm	24	User message: @1W%t#2W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
DIAG_ALCAT_SE- U_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
DIAG_ALCAT_SE- U_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
DIAG_AL- AT_SUB_ERR_MSG D01E	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
DIAG_AL- AT_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

Totally Integ	rated
Automation	Portal

	Туре	ID	Alarm text	Info text	Information onl
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
DIAG_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
DIAG_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
DIAG_AL- AT_SUB_MR_MSG_ 124	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
DIAG_AL- AT_CH_ERR_MSG_ 015	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
DIAG_AL- AT_CH_ERR_MSG_ 115	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
DIAG_AL- AT_CH_MD_MSG_ 018	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
DIAG_AL- AT_CH_MD_MSG_ 118	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
AT_CH_MR_MSG_ 01B	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
DIAG_AL- :AT_CH_MR_MSG_ :11B	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
DIAG_ALCAT_CON- IG_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
DIAG_ALCAT_CON- IG_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
DIAG_AL- CAT_ESUB_ERR_MS G_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_MS G_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
DIAG_AL- :AT_ESUB_MD_MS :5_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
DIAG_AL- AT_ESUB_MD_MS G_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
DIAG_AL- AT_ESUB_MR_MS i_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
DIAG_AL- AT_ESUB_MR_MS _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
DIAG_AL- AT_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
AT_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
AT_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@	Order number: @6W%t#265K@	True
DIAG_AL- AT_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
AT_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
DIAG_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

Totally Integrated Automation Portal		
PLC_1 [CPU 151	1-1 PN]	
PLC alarm text list	:s	
This folder is empty.		
	·	

Totally Integrated Automation Porta					
PLC_1 [CPU 15	1511-1 PN] / Loca 11-1 PN]	l modules			
PLC_1					
General\Project info	rmation				
Name	PLC_1	Author	i72014	Comment	
Rack	0	Slot	1		
General\Catalog info	ormation				
Short designation	CPU 1511-1 PN	Description	CPU with display; work memory 150 KB code and 1 MB data; 60 ns bit op-	Article number	6ES7 511-1AK00-0AB0

PLC_1 [CPU 15	11-1 PN]				
PLC_1					
General\Project info	mation				
Name	PLC_1	Author	i72014	Comment	
Rack	0	Slot	1		
General\Catalog info	rmation				
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\Identificatio	n & Maintenance				
Plant designation		Location identifier		Installation date	2016-04-07 13:20:53.143
Additional informa- tion					
Connection resource	cl				

Connection resources\				
Connection resources	Station resources - Reserved - Max- imum	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 gar	os	False	
Slot		True										
Type	Addr. fr	om ,	Addr. to	Module	PIP	ОВ	Device name	Device num- ber	Size	Master system		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	4	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

Totally Integrated Automation Porta	d al					
		a a duit s				
PLC_1 [CPU ' AI 8xU/I/RTD/T	1511-1 PN] / Local n C ST_1	nodules				
AI 8xU/I/RTD/TC ST_1						
Name Article number	AI 8xU/I/RTD/TC ST_1 6ES7 531-7KF00-0AB0	Rack Short designation	0 AI 8xU/I/RTD/TC ST	Slot Firmware version	2 V2.0	

Totally Integrate Automation Port	ed cal				
PLC_1 [CPU AI 8xU/I/RTD/1	1511-1 PN] / Local n гс sт_2	nodules			
AI 8xU/I/RTD/TC ST_					
Name Article number	AI 8xU/I/RTD/TC ST_2 6ES7 531-7KF00-0AB0	Rack Short designation	0 AI 8xU/I/RTD/TC ST	Slot Firmware version	3 V2.0
		, care accignation	, n enemine	<u> </u>	1,2.0
					<u> </u>

Totally Integrate Automation Port	ed cal				
PLC_1	1511-1 PN] / Local n гс sт_з	nodules			
AI 8xU/I/RTD/TC ST_	3				
Name Article number	AI 8xU/I/RTD/TC ST_3 6ES7 531-7KF00-0AB0	Rack Short designation	0 AI 8xU/I/RTD/TC ST	Slot Firmware version	4 V2.0

otally Integrate Automation Port	tal					
.C_1 [CPU	1511-1 PN] / Local n	nodules				
8xU/I/RTD/						
3xU/I/RTD/TC ST_ ne	_ 4 AI 8xU/I/RTD/TC ST_4	Rack	0	Slot	5	
icle number	6ES7 531-7KF00-0AB0	Short designation	AI 8xU/I/RTD/TC ST	Firmware version	V2.0	
					<u></u>	

Totally Integrate Automation Port	ed cal			
PLC_1 [CPU	1511-1 PN] / Local m	nodules	,	
)I 16x24VDC	BA_1			
I 16x24VDC BA_1 lame article number	DI 16x24VDC BA_1 6ES7 521-1BH10-0AA0	Rack 0 Short designation DI 16x24VDC BA	Slot 6 Firmware version V1.0	
rticle number	9E27 251-18H10-0AA0	Short designation DI 16x24VDC BA	Firmware version V1.0	
	1		T	