Date	2015/07/21	SR#	1-2138219535		
Category	□FAQ ■SOP	Related OS	N/A		
Abstract	Configure ADAM-6100PN	I module in SIEM	ENS SIMATIC Manager		
Keyword	ADAM-6100PN, SIEMENS SIMATIC Manager				
Related	ADAM 6100DN Series				
Product	ADAM-0100PN Series				

#### Problem Description:

This document demonstrates the SOP of how to configure ADAM-6100PN module in SIEMENS SIMATIC Manager

#### Brief Solution - Step by Step:

- •
- •
- Add CPU in SIMATIC **Project**
- Download to PLC
- Search and configure ADAM-6100PN module by SIMATIC Manager
- Install GSD File of ADAM-6100PN module
- Add ADAM-6100PN module under PLC
- Monitor and Modify I/O
- Programing in STEP7

#### Add CPU in SIMATIC Project

1. Click [New Project/Library]



2. Give a project [Name] and click [OK]

New Project			X
User projects Libraries	Multiprojects		
Name	Storage path		^
AlanADAM6100DVT	C:\Program Files\Si	emens\Step7\s7proj\Als	σ
🗃 apax-5071-v1	D:\Yuan\apax-507		
Bapax-5071-v2	D:\Yuan\apax-5_1		
En test1013	C:\Program Files\Si	emens\Step7\s7proj\test	:1
Et test3	C:\Program Files\Si	emens\Step7\s7proj\test	9
₽ test4	C:\Program Files\Si	emens\Step7\s7proj\test	4 🖌
<		>	
Add to current multinmic	ert		
Name:		<u>Т</u> уре:	
ADAM6100DVT		Project	-
Storage location (path):		🖵 E Library	
C:\Program Files\Siemens\S	ep7\s7proj	<u>B</u> rowse	
ок		Cancel Hell	

 Right click [Project Name] (here, ADAM6100DVT), click [Insert New Object] \ [SIMATIC 300 Station] (We use this model as demo here)

💹 SIMATIC Manage	r - [ADAM610	0D <b>VT</b> C:\Program	m Files\Siemens\Step7\s7proj\Adam	6100]
🞒 File Edit Insert	P <u>L</u> C <u>V</u> iew O	ptions <u>W</u> indow <u>H</u> elp	) === ::::::::::::::::::::::::::::::::	▾▿▧◍▤◾▬▫
ADAM6100DV T	Cut Copy Paste Delete	■ MPI(1) Cttl+X Cttl+C Cttl+V Del	B-B- 1222 00000	
	Insert New O PLC Rename Object Prope	bject  F2 rties Alt+Return	SIMATIC 400 Station SIMATIC 300 Station SIMATIC H Station SIMATIC PC Station Other Station SIMATIC S5	
			PG/PC MPI PROFIBUS Industrial Ethernet PTP S7 Program	

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4. [SIMATIC 300] model has been added



5. Right click [SIMATIC 300] label under project name, and click [Open module]



6. Now we start to configure model, drag a [Rail] under [SIMATIC 300] \ [RACK-300] to white workplace



7. Drag [SIMATIC 300] \ [CPU-300] \ [CPU 315F-2 PN/DP] \ [6ES7 315-2FH13-0AB0] \ [V2.6] CPU to slot 2 in the rack.

🖳 HW Config - [SIMATIC 300()	l) (Configuration) ADAM	(6100D¥T]				
🕅 Station Edit Insert PLC View	<i>w</i> Options <u>W</u> indow <u>H</u> elp					
D 🚅 🔓 🖷 🖏 🎒 🖻 I	6   🔬 🎕 🚯 🗖 😫	N?				
0) UR 1 2 3 4 5 6 7 8 9 10 11 11 						
(0) UR						
Slot 🚺 Module	Order number	Firmware	MPI address	I address	Q address	Comment
1						
2						
4						

# **ADVANTECH**

### Enabling an Intelligent Planet

8. Here we add a subnet in pop-out windows, click [New...]

Properties - Ethernet interface PN-IO (R0/S2.2	) 🛛 🔀
General       Parameters         If a         IP address:         IP address:         Subnet mask:         Subnet:         not networked	a subnet is selected, next available addresses are suggested. ateway Do not use router Use router Address: 192.168.0.1 New
 	Delete Cancel Help

#### 9. Click [OK] to add

	()	
<u>N</u> ame:	Ethemet(1)	
<u>S</u> 7 subnet ID:	0062 - 0004	
Project path:		 
Storage location of the project:	C:\Program Files\Siemens\Step7\s7proj\Adam6100	
<u>A</u> uthor:		
Date created :	01/03/2012 11:48:14 AM	
Last modified:	01/03/2012 11:48:14 AM	
<u>C</u> omment:		2

## 10. Click [OK] to end

Properties - Ethernet interface PN-IO (R	:0/\$2.2)	]
General Parameters IP address: 192.168.0.1 Subnet mask: 255.255.255.0	If a subnet is selected, the next available addresses are suggested. Gateway © Do not use router © Use router Address: 192.168.0.1	
OK	<u>New</u> Properties Delete Cancel Help	

## Enabling an Intelligent Planet

#### 11. The CPU has been added

📑 HW Config - [SIMATIC 300(1)	(Configuration) ADA	M6100DVT	l.			
🛄 Station <u>E</u> dit Insert <u>P</u> LC <u>V</u> iew	<u>Options W</u> indow <u>H</u> elp					
D 🚅 🔓 📓 🦉 📲 🖷	ii 🏜 🎕 🕞 🗖 😵	k?				
Ethernet(1): PROFINET-IO-System (	(100)					
📼 (0) UR						
2 CPU 315F-2	PN/DP					
XI MPI/DP				- 0		
X2 I PN-10 X2 PI Port I				- 0		
3						
4						
5				-		
7				- 6		
8						
14 1						
<						
(0) UR						
Slot 🚺 Module 🛛 🛛 🖸	)rder number	Firmware	MPI address	I address	Q address	Comment
			-			
2 CPU 315F-2 PN/DP 61	ES7 315-2FH13-0AB0	¥2.6	2	20478		
X2 PN-JO			4	2047*		
X2 F Port I				2045*		
3						

Enabling an Intelligent Planet

#### 12. Click [Station] \ [Save and Compile]

00	Station <u>E</u> dit Insert	<u>P</u> LC <u>V</u> iew	Options <u>W</u> indow	<u>H</u> elp				
	<u>N</u> ew Open		Ctrl+N Ctrl+O	<b>₩ \</b> ?				
	Open ON <u>L</u> INE <u>C</u> lose							
	<u>S</u> ave							
	Save and Compile		Ctrl+S			<u>^</u>		
	Properties			h5				
H	Import							
	<u>E</u> xport			_				
	Consistency C <u>h</u> eck		Ctrl+Alt+K			0		
	Check CiR Compatib	ility	Ctrl+Alt+F					
	Print		Ctrl+P					
	Print Previe <u>w</u>					~		
	Page Setup			_				
	1 ADAM6100DVTVS	MATIC 300(	1)					
	2 test5\SIMATIC 300	(1)						
	3 AlanADAM6100D	TVSIMATIC :	300(1)					
< -	4 apax-5071-v2\SIM.	ATIC 300(1)	10.111 - <b>1</b> -	_				
	Exit		Alt+F4					
4	Ethernet(1): PRO	OFINET-IO-S	/stem (100)	_				
D	evice Number 🛛 🚺	IP addres	Device Name	Order number	Firmware	Diagnostic address	initial state	Comme

#### Download to PLC

**AD**\ANTECH

 Back to [SIMATIC Manager], and connect PC and PLC thought [SIMATIC S7 PC Adapter USB] in MPI



2. Click [Options] \ [Set PG/PC Interface...]

SIMATIC Manager - [ADAM	5100DVT C:\Program Files\	Siemens\Step7	/\s7proj\Adam	6100]		
🞒 File Edit Insert PLC View	Options <u>W</u> indow <u>H</u> elp					
□ 😂 🔐 🥽 🕷 🕺 🖻 💼 □ 🕹 ADAM6100DVT □ 🗑 SIMATIC 300(1)	Customize Acc <u>e</u> ss Protection C <u>h</u> ange Log	Ctrl+Alt+E •	Filter >	<b>_</b>	7/ 2	880
CPU 315F-2 PN/DP Growth Strength Stren	Text Libraries Language for <u>D</u> isplay Devices <u>M</u> anage Multilingual Texts	۰ ۲				
	Rewire Run-Time <u>P</u> roperties					
	Compare <u>B</u> locks <u>R</u> eference Data Define <u>G</u> lobal Data Configure <u>N</u> etwork	•				
	<u>S</u> imulate Modules <u>C</u> onfigure Process Diagnostics					
	C <u>A</u> x Data	•				
	Set PG/PC Interface	k				

3. Select [PC Adapter(Auto)] or [PC Adapter(MPI)], click [Properties...]

LEDI		
<u>A</u> ccess Point of the Application:		
S7ONLINE (STEP 7)> PC Adapter	(Auto) 📉 🔀	
(Standard for STEP 7)		
Interface <u>P</u> arameter Assignment Used:		
PC Adapter(Auto)	Properties	
ISO Ind. Ethernet -> Realtek RTL8:		
PC Adapter(Auto)	Сору	
PC Adapter(MPI)	Delete	
(Automatic parameter assignment of your PC Adapter for MPI/PROFIBUS networks sending bus parameter		
Add/Remove:	Sele <u>c</u> t	

4. Select [Connection to USB] in [Local Connection] tab, click [OK] and back to SIMATIC Manager

Properties - PC Adapter(Auto	)	X
Automatic Bus Profile Detection	Local Connection	
Connection to:	USB *COM1 USB	
☑ <u>A</u> pply settings for all mod	dules	
OK	Cancel Hel	p

#### 5. Click [PLC] \ [Download] to start downloading

🎒 File Edit Insert	PLC <u>V</u> iew Options <u>W</u> indow <u>H</u> elp				_
🗅 🚅 🖁 🛲	Access <u>R</u> ights	No Filter >	•	7 🔡 🌚	88
🖃 🎒 ADAM6100DV	Download Ctrl+L	/DP			
E SIMATIC 3	Configure 💦 Ctrl+K				
	Compile and Download Objects				
	Upload to <u>P</u> G				
	Upload Station to PG				
	Copy RA <u>M</u> to ROM				
	Do <u>w</u> nload User Program to Memory Card				
	V				

#### Search and configure ADAM-6100PN module by SIMATIC Manager

1. We need to switch interface to Ethernet, click [Option] \ [Set PG/PC Interface...]

📓 SIMATIC Manager - [ADAM6	5100DVT C:\Program Files\S	iemens\Step7\	s7proj\Adam61	100]			
File Edit Insert PLC Yiew     File   Edit     File   Edit     File   Edit     File   Edit	Options Window Help Customize	Ctrl+Alt+E	Filter >	<u>.</u>	Ye	<b>1</b>	580
E ADAM6100DVT E III SIMATIC 300(1)	Acc <u>e</u> ss Protection C <u>h</u> ange Log		Ethernet(1)				
	Text Libraries Language for <u>D</u> isplay Devices Manage Multilingual Texts	•					
	Rewire Run-Time Properties						
	Compare <u>B</u> locks <u>R</u> eference Data Define <u>G</u> lobal Data Configure Network						
	Simulate Modules Configure Process Diagnostics						
	C <u>A</u> x Data	*					
	Set PG/PC Interface	ß					

## Enabling an Intelligent Planet

2. Choose the connected interface and click [OK]

ccess Path LLDP		
Access Point of the Application:		
S7ONLINE (STEP 7)> ISO Ind. Etherne	et -> Realtek RTL815 💙	
(Standard for STEP 7)		
Interface <u>P</u> arameter Assignment Used:		
ISO Ind. Ethernet -> Realtek R TL8139 Fav	Properties	
ISO Ind. Ethernet -> Realtek R TL8:	Diagnostics	
📰 ISO Ind. Ethernet -> Realtek R TL8:		
ISO Ind. Ethernet -> Realtek R 158:	Сору	
ISO Ind. Ethernet -> 藍芽裝置 (個.⊻	De <u>l</u> ete	
(Assigning Parameters to Your NDIS CP		
Interfaces		
Add/Remove:	Select	

3. Click [PLC] \ [Edit Ethernet Node...]



### Enabling an Intelligent Planet

4. Click [Browse...]

Ethernet Node		2
hemet node		N. 1
		Nodes accessible online
AAC <u>a</u> ddress:	I.	<u>Browse</u>
t IP configuration —		
Use I <u>P</u> parameters		
		Gateway
IP address:	1	Do not use router
Subnet mas <u>k</u> :	<b></b>	○ <u>U</u> ≫ router
		Address:
Obtain IP address ;	from a DHCP server	
Identified by		
Client ID	€ <u>M</u> AC address	C De <u>v</u> ice name
Client ID:		
Assign IP Configu	nation	
sign device name —		
<u>D</u> evice name:		Assign Name
		· · · · · · · · · · · · · · · · · · ·
eset to factory setting	Re	
		Reset
		II.1_

5. Browser will auto start search, the ADAM-6100PN module will show by the [Device type: adam-6100pn profinet]. Choose the module and click [OK]

Browse Network - 2	Nodes					×
<u>Start</u> Sjop	IP address 192.168.0.1 192.168.0.222	MAC address 00-0E-8C-AB-6B-F8 00-D0-C9-F0-7A-ED	Device type S7-300 adam-6100pn profinet	Device name pn-io adam-6150pn	Subnet mask	
Elash	 MAC address: [			Cancel	Help	

### Enabling an Intelligent Planet

#### 6. IP parameter and device name can be configure in this window

Edit Ethernet Node			3
Ethernet node		Nodes accessible online	
MAC address:	00-D0-C9-F0-7A-ED	Erowse	
Set IP configuration – © Use I <u>P</u> parameters			
IP address:	192.168.0.222	Gateway 💿 D <u>o</u> not use router	
Subnet mas <u>k</u> :	255.255.255.0	○ <u>U</u> se router	
		Addr <u>ess:</u> 192.168.0.222	
C Obtain IP address	from a DHCP server		
🧟 Client ID	€ <u>M</u> AC address	C De <u>v</u> ice name	
Client ID:			
Aşsign IP Configu	ration	15	
Assign device name —			
Device name:	adam-6150pn	Assign Name	
Reset to factory setting	gs		
	С	<u>R</u> eset	
Close		Help	

#### Install GSD File of ADAM-6100PN module

AD\ANTECH

1. Click [Option] \ [Install GSD File...] in HW Config

HW Config - [SIMATIC 300(1)	(Configuration) ADAM61	00D¥T]	
💵 Station Edit Insert PLC View	Options <u>W</u> indow <u>H</u> elp		
D 🚅 🔓 🗣 🗣 🎒 🖨 🖻	Customize	Ctrl+Alt+E	
(0) UR 1 2 CPU 315F-2	Specify Module Configure <u>N</u> etwork Symbol Table Report System Error Edit Catalog Profile	Ctrl+Alt+T	<u>T-IO-System (100)</u>
XI MPI/DP X2 PN-IO X2 PI Port I 3	Update Catalog Install <u>H</u> W Updates Install <u>G</u> SD File		
4 5 6	Find in Service & Support Create GSD file for I-Device.	45	
<			
SIMATIC 300(1)			
D UR			
EthenPROFINET-IO-System (100)			

### Enabling an Intelligent Planet

2. Click [Browse...] to import and select the GSD file, then click [Install]

Install GSD Files				
I <u>n</u> stall GSD Files:	from the direct	ory 💌	}	
C:\Documents and Settings\qe\点	面%100PN_GSD			Browse
File GSDML-V2.2-Advantech-ADA1	M6100-20111216.xml	Release 12/16/2011 12:00:00 AM	Version V2.2	Languages English
J	T		1	
Turstan K Zyow	/ Log			
Close				Help

3. Click [Yes] to continue, and wait for installing

Confirm installation of GSD files	
CAUTION: Installation OF GSD files cannot be continue the action?	undone. Do you still want to
Yes]	No
Install GSD files	
GSDML-V2.2-Advantech-ADAM6100-201112	16.xml
[Cancel]	

4. The installed GSD is show under [PROFINET IO] \ [Additional Field Devices] \ [I/O] \ [Advantech PROFINET Devices] \ [ADAM-6100PN Compact I/O]

IN Config - [SIMATIC 300(1) (Configuration) ADAM6100D∀T]
에 Station Edit Insert PLC View Options Window Help
Ethemet(1): PROFINET-IO-System (100)
SIMATIC 300(1)
Slot Designation.
Ethen/PROFINET-IO-System (100)

#### Add ADAM-6100PN module under PLC

AD\ANTECH

1. Drag [ADAM-6100PN Compact I/O] node to [Ethernet: PROFINET-IO-System (100)]

HW Config - [SIMATIC 300(1) (Configuration) ADAM6100DVT]
에 Station Edit Insert PLC View Options Window Help
Ethemet(1): PROFINET-IO-System (100)
Ethemet(1): PROFINET-IO-System (100)
Device Number 🚺 IP addres Device Name Order number Firmware Diagnostic address initial state Commen

### 2. Double click the ADAM node to configure

HW Config - [SIMATIC 300 Station Edit Insert PLC V	(1) (Configuration) A ew Options Window <u>H</u> e	DAM6100DVT] elp				
	🔁    🎪 🎪 🕞 🗖	₩ ₩?				
Ethemet(1): PROFINET-IO-System (100)         I						
(1) adam-6100pn						
Slot Module	Order number	I Address	Q address	Diagnostic address	Comment	
0 🖬 adam-6100pn	ADAM-6100PN			2043*		
XI PN-10				2042*		
XI A Port I			~	2041*		
XIA Port2				2040*		
1						

# 3. The [Device Name] can be assign here and the [IP address] can be configure be click [Ethernet...] buttom

roperties - adam-6101	lpn		Ð
General			
Short description:	adam-6100pn		
	ADAM-6100PN IO module	<u>^</u>	
		~	
Order No. / Firmware:	ADAM-6100PN/V 1 2 1		
Family:	Advantech PROFINET Devices		
<u>D</u> evice name	adam-6150pn		
GSD file:	GSDML-V2 2-Advantech-ADAM6100-20111216 xml		
	Change Release Number		
-Node in PROFINET I	O System		
De <u>v</u> ice number:	1 PROFINET-IO-System (100)		
IP address:	192.168.0.222 Ethemet		
Assign IP address	via IO controller		
1			
Comment:			
NF			~

4. Drag the ADAM-6100PN module to slot 1 of the [ADAM-6100PN Compact I/O] node

🖳 HW Config - [SIMATIC 300)	(1) (Configuration) AD	AM6100DVT]							
💵 Station <u>E</u> dit Insert <u>P</u> LC <u>V</u> iew Options <u>W</u> indow <u>H</u> elp									
Ethemet(1): PROFINET-IO-System (100)									
Ethermet(1): PROFINET-IO-System (100)									
<									
(1) adam-6150pn									
Slot 🚺 Module	Order number	I Address	Q address	Diagnostic address	Comment				
0 adam-6150pn	ADAM-6100PN			2043*					
XI PN-IO				2042*					
XI A Port I				2041*					
XI A Port2				2040*					
1	No.								

- 5. ADAM module is shown in slot 1, and the [I Address] and [Q address] are also shown in the
  - slot 1. Double click slot 1 to configure

🖳 HW Config - [SIMATIC 300	(1) (Configuration) AI	AM6100DVT]			
👊 Station Edit Insert PLC Vi	ew <u>O</u> ptions <u>W</u> indow <u>H</u> ely	р			
D 🗲 🔓 🗣 🚳 🖣	C   🕯 🎕 🕞 🗆	器 12			
	· · · · ·	Ethernet(1): PR	OFINET-IO-S	vstem (100)	
🚍 (0) UR			🚡 (1) əc		
1         CPU 3151           XI         MPI/DP           X2         PN-IO           X2 PI         Port I           3	F-2 PN/D				
<					
(1) adam-6150pn					
Slot 🚺 Module	Order number	I Address	Q address	Diagnostic address	Comment
0 🚡 adam-6150pn	ADAM-6100PN			2043*	
XI PN-IO				2042*	
XIA Port I				2041*	
XI A Port 2	-		0	2040*	
I I ADAM-0150PM		μ	U		20

## Enabling an Intelligent Planet

### 6. In [General] tab, the module name can be assigned

Properties - ADAM-6150P	N - (R-1S1)		
General Addresses			
Short description:	ADAM-6150PN 8-ch IDI and 7-ch IDO Module		8
Order no.: Hardware revision level: Software revision level:			<u></u>
Name: Comment:	ADAM-6150PN		
			2
OK		Cancel	Help

7. In the [Address] tab, the input address (I address) and output address (Q address) and be assigned. Here the ADAM-6150PN has one byte input and one byte output

Properties -	ADAM-6150PN -	(R-/S1)	×
General A	ddresses		
_ Inputs —	10 10		
<u>S</u> tart:	0	Process image:	
End:	0	OB1 PI	
Outputs	35 SS		
Start:	0	Process image:	
End:	0	OB1 PI	
OK	]	CancelHelp	



8. For AI module, ADAM-6117PN, which has 8 channel with 1 word, 2 bytes, 16-bit, the input address from 256 to 271 is 16 words

General Addresses Inputs Start 256 Process image: End: 271 OB1 PI	Properties	: - ADAM-6117PN	- (R-/S1)		
Inputs Start: 256 Process image: End: 271 OB1 PI	General	Addresses			
End: 271 OBI PI	Inputs Start:	256	Process image:		
	End:	271	OBI PI		
OK Cancel Help	OK			Cancel	Help



#### Monitor and Modify I/O

1. Here use ADAM-6150PN and ADAM-6117PN as example. After download the logic to PLC, select slot 1 in the node first

🖳 HW Config - [SIMATIC 300)	(1) (Configuration) ADAM	6100D¥T]			
🛄 Station Edit Insert PLC Vie	w Options <u>W</u> indow <u>H</u> elp				
] D 🚅 🔓 🗣 🗣 🎒	ra    🟜 🎰 🕞 🗖 🔧	<b>k</b> ?			
(0) UR 1 2 CPU 31 XI MPI/DP X2 PN-IO X2 PI Port I 3 4 c	Ethemet(1): PR(		stem (100)		
<					
(1) adam-6150pn	1	1	1	1	1
Slot Module	Order number	I Address	Q address	Diagnostic address	Comment
	ADAM-0100PH	2	4	2043*	
AI FIV-IO			12	2042*	
XII FORI			12	2041*	
ATT FUT2			0	2040	
		-F			

### 2. Click [PLC] \ [Monitor/Modify]

📴 HW Config - [SIMA]	IC 300(1) (Configuration) AD	AM6100DVT]			
🕅 Station Edit Insert	<u>PLC V</u> iew Options <u>W</u> indow <u>H</u> elp	i			
	<u>D</u> ownload Upload	Ctrl+L			
	Download Module Identifi <u>c</u> ation Upload Module Ide <u>n</u> tification to PG	0-Sy	stem (100)	<u></u> n	
	Faulty Modules				
2 Cl XI M X2 PI 2 7 7 7 7 7 7 7 7 7 7 7 7 7	Module Information Operating Mode Clear/ <u>R</u> eset Set Time of Day	Ctrl+D Ctrl+I (2) e	α		
3 4	<u>M</u> onitor/Modify	10H1.			
-	Updat <u>e</u> Firmware				
	Save Device Name to Memory Card		1		
	Ethernet	•			
	PROFIBUS	•			
	Save Service Data				
<	- III (				
(1) adam-6150	pn	Ladama	l 0 addman	Dismostis addmos	Commont
0 adam-61 S0nn	ADAM-6100PN	1 Auuless	Q autriesz	2043*	Comment
XI PW-IO		i.		2042*	
XI A Port I				2041*	
XI F Port 2				2040*	
1 ADAM-6150PN		0	0		

3. Check [Monitor] to monitor the real-time status, here shows the input address

3	Ľ		ADA	M6100DV	TVSIMATIC 3	00(1)/CPU 315F	-2 PN/DP		
0.0	1	Ada	duess	Symbol		Display format	Status value	Modify value	^
		Ι	0.0			BOOL	🚺 true		
		I	0.1			BOOL	true		
0.000		Ι	0.2			BOOL	twe		
		Ι	0.3			BOOL	true		
0		Ι	0.4			BOOL	true		
2		I	0.5			BOOL	true		
		I	0.6			BOOL	twe		
No.		I	0.7			BOOL	twe		
0		Q	0.0			BOOL			-
Row Not Effective     Update For Update		force Symbol wi iately Value v Value	th F5 Enable Perip I/O <u>D</u> isplay	h. Outputs					
0	x	<u>T</u> ri	gger				•	🗘 RUNNING	

## Enabling an Intelligent Planet

Input true/fulse value in [Modify value] column and check [Modify] 4.

)nli	<b>ton</b> ne v	itor ia as	ssigne	l CPU serv	AM-615UPN rices	- (R-/S1)			
ath	:		ADA	M6100DV	TVSIMATIC 30	10(1)\CPU 315H	-2 PN/DP		
	1	Add	uess	Symbol		Display format	Status value	Modify value	^
9		Q	0.0			BOOL	🚺 true	1	
10	for the second s	Q	0.1			BOOL	twe		
11	1	Q	0.2			BOOL	twe		
12	1000	Q	0.3			BOOL	false		
13	Ĵ	Q	0.4			BOOL	false		
14	1	Q	0.5			BOOL	false		
15	1	Q	0.6			BOOL	false		
16	1	Q	0.7			BOOL	false		
	Ry m co Mo	ow 1 ondi onito dify <u>T</u> rig	Not Ef tional or gger	Yective	Update F Run immedi & Status	orce Symbol wi ately Value Value	th F5 □ <u>E</u> nable Perip □ I/O <u>D</u> isplay	vh. Outputs	
	Clo	se			L			Hel	p

5. For AI module ADAM-6117PN, we can write 16-bit, word, value

at	h:	P	DAM6100D1	7 WIMATIC 300(1)/CPU 3	15F-2 PN/DP		
	Add	iess	Symbol	Display form	at Status value	Modify value	~
1	IW	256		HEX	W#16#8000		
2	IW	258		HEX	W#16#8000		
3	IW	260		HEX	W#16#8000		
4	IW	262		HEX	W#16#8000		
5	IW	264		HEX	W#16#8000		
6	IW	266		HEX	W#16#8000		
7	IW	268		HEX	W#16#8000		
8	IW	270		HEX			~
<							>
F F	R Cunco Mo	ow No onditio nitor dify Triss	onally	Update Force Symbol Run immediately & Status Value Modify Value	with F5	. Outputs	

#### **Programing in STEP7**

AD\ANTECH

- 1. Open [Start] \ [SIMATIC] \ [STEP 7] \ [LAD,STL, FBD Programing S7 Blocks]
- 2. Open object

🔣 LAD/STL/FBD : H	rogram blocks
<u>File V</u> iew Options	[elp
Open	

3. Open the object [OB1] in the project as following figure, and click [OK]

Open					
Entry point:		<u>⊻</u> iew:			
Project	-	Component vie	ew 💌	°Online (€Offline	
Na <u>m</u> e:		Storage path:			
ADAM6100DVT	•	C:\Program Files\Siemens\Step7\s7proj\Browse 🗈 📰 🏥			
ADAM6100DVT      SIMATIC 300(1)      CPU 315F-2 P.      Source      Source      Blocks	N/DP n(2) s				
		Object name:	OB1		
		Object <u>t</u> ype:	All that can be proces	ssed 💌	
OK				Cancel Help	

## Enabling an Intelligent Planet

4. Language can be change under [View]

🔣 LAD/STL/FBD - [OB1 ADA	M6100DVT/SIMA	TIC 300(1)	NCPU 315F-2 PN/DP]
Ele Edit Insert PLC Debug D ≥ 2 ∼ ■ ≤ K	<u>View</u> <u>Options</u> <u>Wi</u> ✓ <u>O</u> verviews ✓ D <u>e</u> tails PLC <u>R</u> egister	ndow <u>H</u> elp Ctrl+K	!≪ ≫!   □ □ □   !!!!   + - + () □ □ ∟ → ⊢-   №? Contents Of: 'Environment\Interface'
<ul> <li>New network</li> <li>FB blocks</li> <li>FC blocks</li> <li>SFB blocks</li> <li>SFC blocks</li> <li>Multiple instances</li> <li>Libraries</li> </ul>	LAD • STL FBD Data View • Declaration View Display with	Ctrl+1 Ctrl+2 Ctrl+3 Ctrl+4 Ctrl+5	→ m Sweep (Cycle)"
	Zoom In Ctrl+Num+ Zoom Out Ctrl+Num- Zoom Factor		+ -
	<u>B</u> reakpoint Bar ✓ <u>S</u> tatus Bar Column <u>W</u> idth		
	Display Columns Update	F11 F5	

## Enabling an Intelligent Planet

#### 5. After programing, click [Download] under [PLC]

🔣 LAD/STL/FBD - [	OB1 ADAM6100DYT	SIMATIC 300(1)/CPU	315F-2 PN/DP]
🖬 <u>File E</u> dit Insert 1	<u>LC</u> Debug <u>V</u> iew Optic	ons <u>W</u> indow <u>H</u> elp	
D 🗲 🔓 🖬 🗧	Download	Ctrl+L	Note: No
	Establish Connection to C	المري onfigured CPII	Contents Of: 'Environment\Interface'
			Name
New network     Hew network     Hew network     End Bit logic     Comparator     Converter	CFO M <u>essages</u> Display Force Values <u>M</u> onitor/Modify Variables	Ctrl+Alt+F	
E E Converter	Mod <u>u</u> le Information	Ctrl+D	
⊕ 📴 DB call ⊕ 🚖 Jumps	Operating Mode Clear/Reset	Ctrl+I	
🕀 💼 Integer functio			weep (Cycle)"
E      Floating-point n     E      Move     Forgram control	a.       [0	Connent:	
		letwork 1): Title:	
⊕ 💽 Timers ⊕ 🚉 Word logic		Comment:	
🕀 💼 FB blocks			
E SFB blocks			
	es and a		
主 ᢔ Libraries			
		Y	
X			