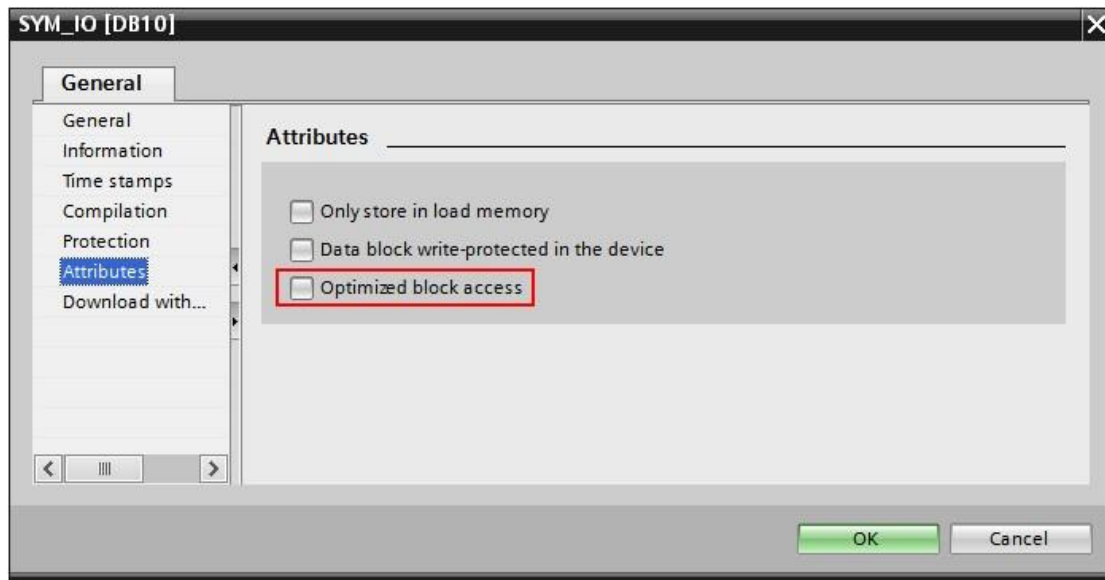# PLC Configuration Notes

1. DB property

Select the DB in the left pane under "Program blocks" and press Alt-Enter (or in the contextual menu select "Properties…")
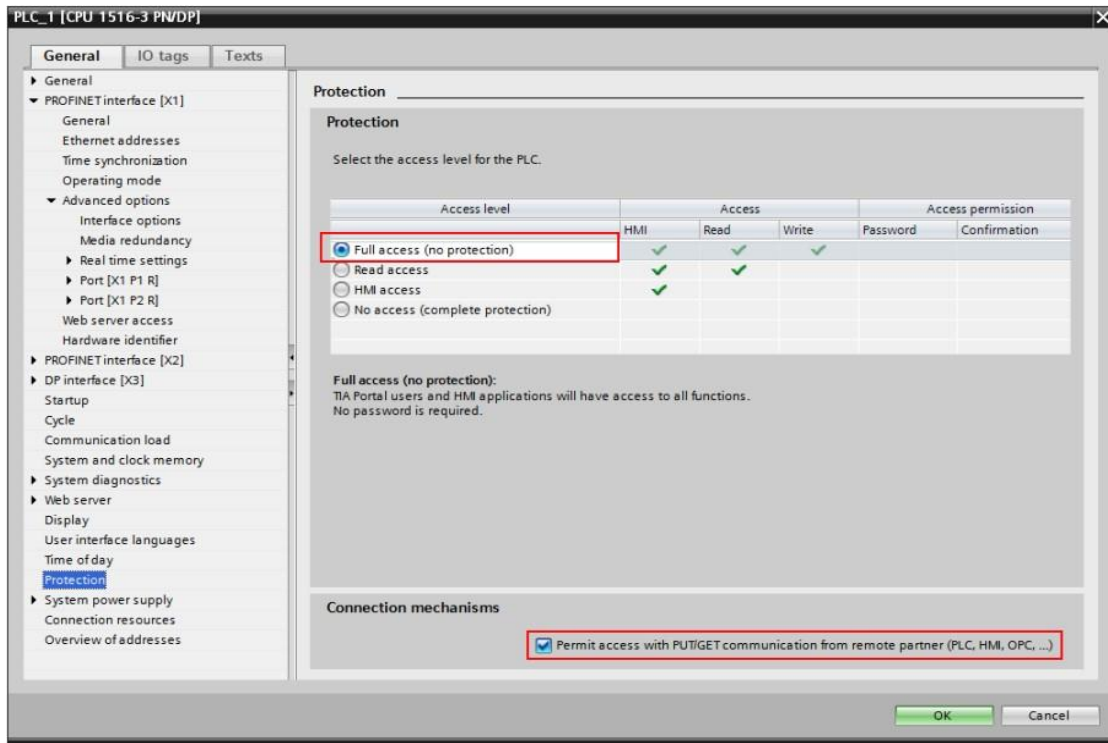
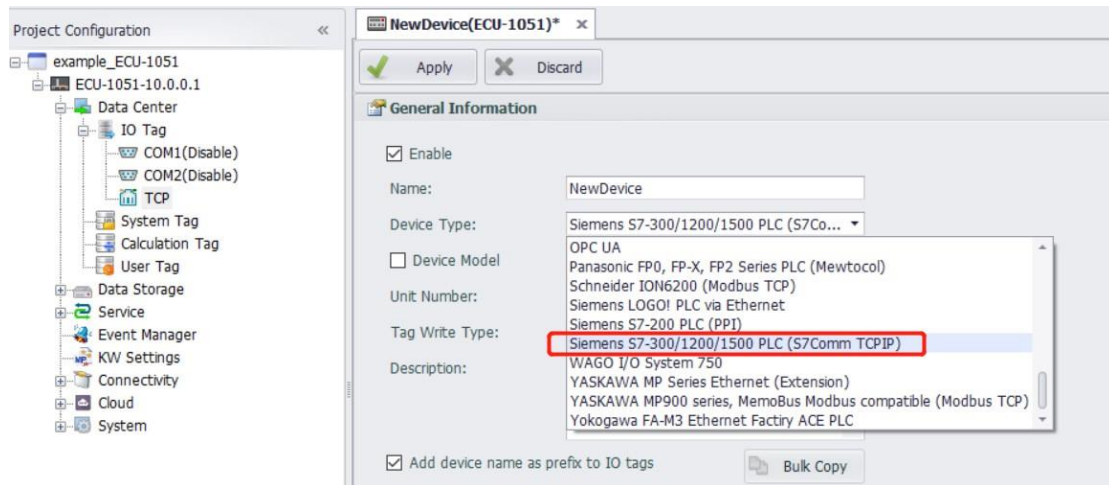Uncheck Optimized block access, by default it's checked.

2. Protection

Select the CPU project in the left pane and press Alt-Enter (or in the contextual menu select "Properties…")

In the item Protection, select "Full access" and Check "Permit access with PUT/GET …." as in figure.

Edgelink Configuration

1. Add device

Unit Number: Not the same as other device in the same interface is ok.

IP Address: The IP of the PLC.

Port Number: Default port of S7 series PLC is 102.

TSAP: S7-1200/1500 is generally fixed 01.00

2. Add Tags

The format of address is "DB block,Offset" Below is the details:

1) **Analog Configuration**

Parameter Address Description Conversion Length

Template　　　　Code

参数	地址模板	描述	转换代码（默认）	长度(bits)	最高量程（默认）	显示格式
DB	DB5,10	DB	Unsigned Integer	16	65535	5.0
DBB	DBB1,0	DB Byte Data		8	256	3.0
DBD	DBD1,0	DB DWord Data		32	4,294,967,296	10.0
DBW	DBW1,0	DB Word Data		16	65535	5.0
IB	IB000	Input Byte		8	256	3.0
ID	ID000	Input Dword		32	4,294,967,296	10.0
IW	IW000	Input Word		16	65535	5.0
MB	MB001	Internal Byte		8	256	3.0
MD	MD001	Internal Word		24	1,048,576	7.0
MW	MW001	Internal Dword		16	65535	5.0
PIB	PIB000	Extend Input Byte		8	256	3.0
PID	PID000	Extend Input Dword		32	4,294,967,296	10.0
PIW	PIW000	Extend Input Word		16	65535	5.0
QB	QB000	Output Byte		8	256	3.0
QD	QD000	Output Dword		32	4,294,967,296	10.0
QW	QW000	Output Word		16	65535	5.0

Example

：There is a variable "abc"in DB1 which is int and the offset is 8.

So the address should be DBW1,8.
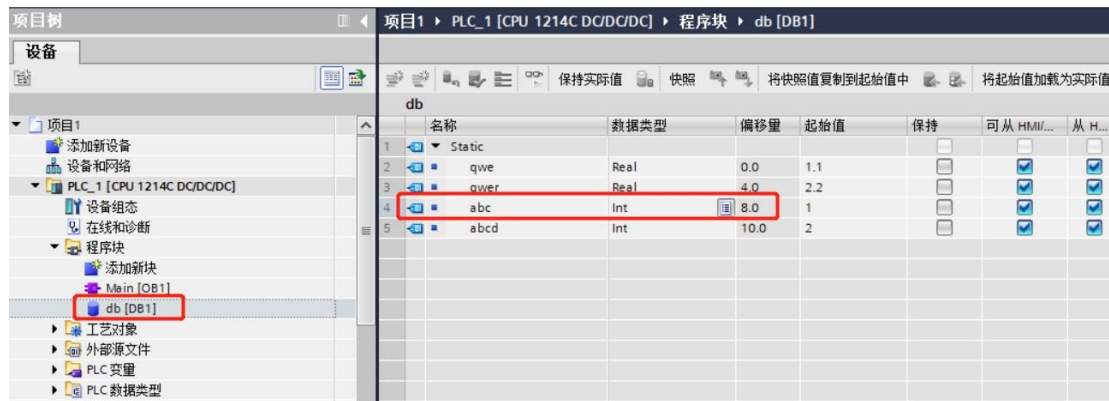
Analog Example Table：

S7 PLC Address	Edgelink IO Configuration			
Register Address	Address	Start bit	Length	Conversion Code
DB28.DBW2	DBW28,2	0	16	Unsigned Integer
DB12.DBD86	DBD12,86	0	32	Unsigned Integer
DB2.DBB1	DBB2,1	0	8	Unsigned Integer
DB2.DBW64（Float）	DBW2,64	0	32	Real

2）**Discrete Configuration**

Parameter **Address** **Description** **Conversion** **Length**
Template **Code**

参数	地址模板	描述	转换代码 （默认）	长度 (bits)		
DBX	DBX1,0	DB Bit	Unsigned Integer	1		
IX	IX000	Input		1		
MX	MX000	Internal Bit		1		
QX	QX000	Output		1		

Discrete Example Table:

S7 PLC Address	Edgelink IO Configuration			
Register Address	**Address**	**Start bit**	**Length**	**Conversion Code**
I0001.2	IX0001	2	1	Unsigned Integer
I0003.5	IX0003	5	1	Unsigned Integer
Q1003.2	QX1003	2	1	Unsigned Integer