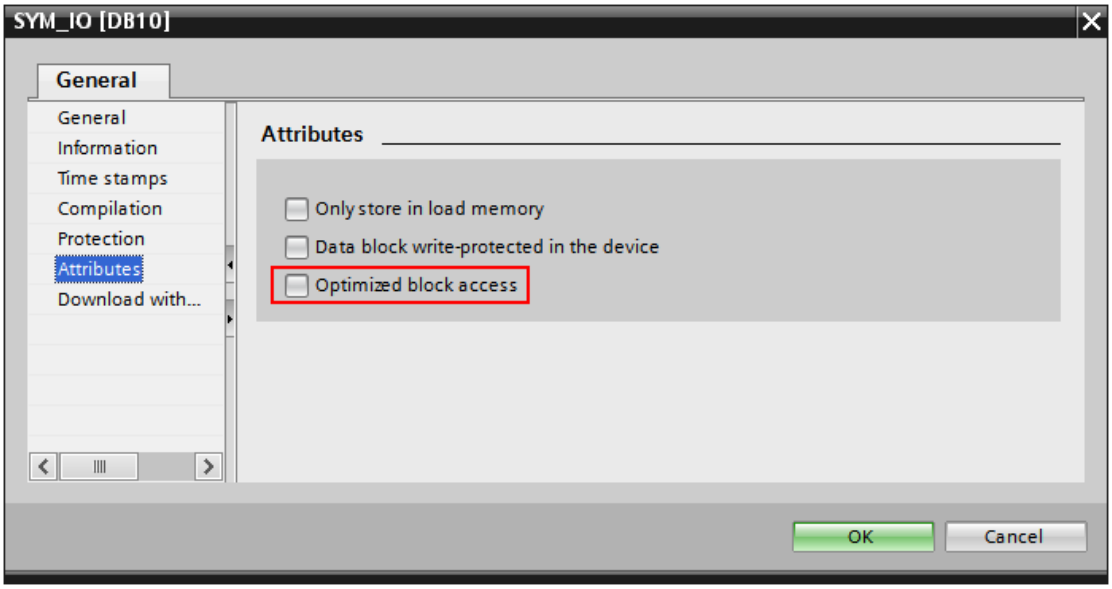
PLC Configuration Notes

1. DB property

Select the DB in the left pane under "Program blocks" and press Alt-Enter (or in the contextual menu select "Properties…")

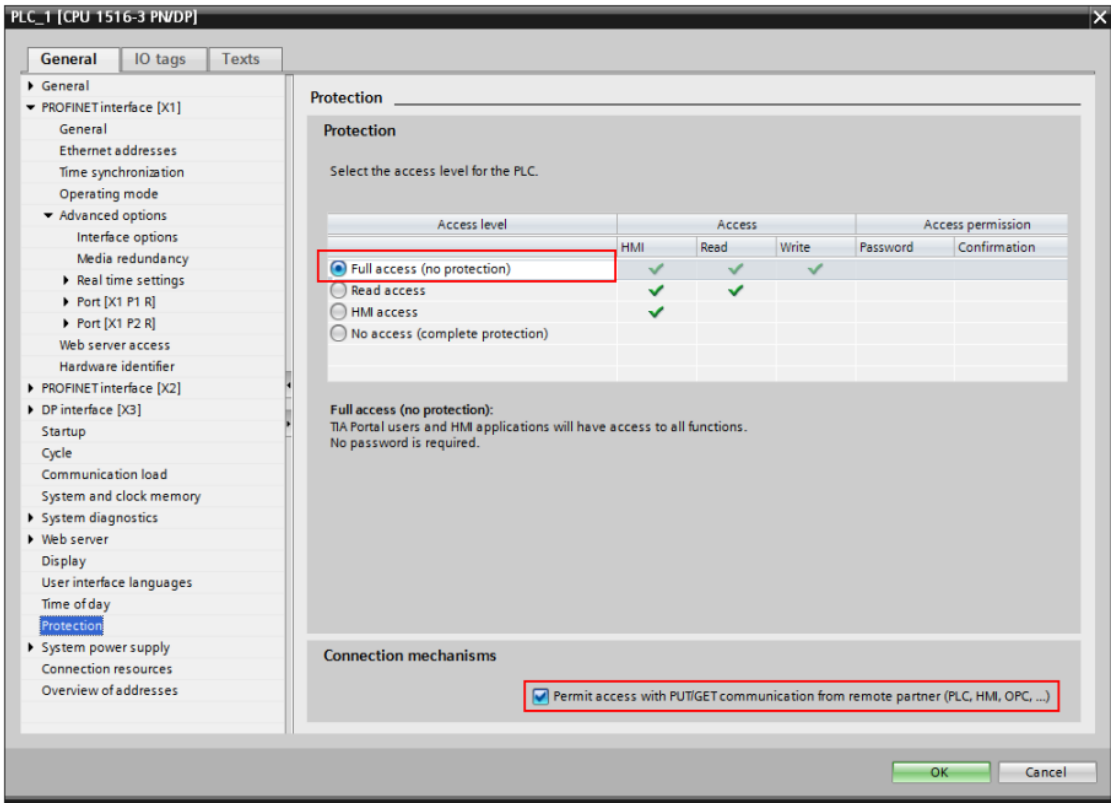
Uncheck Optimized block access, by default it's checked.



2. Protection

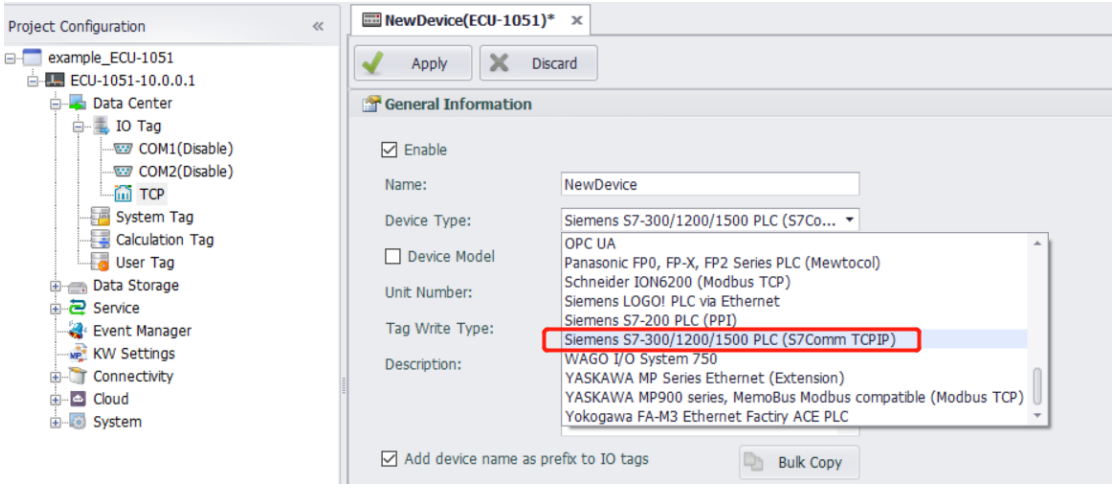
Select the CPU project in the left pane and press Alt-Enter (or in the contextual menu select "Properties…")

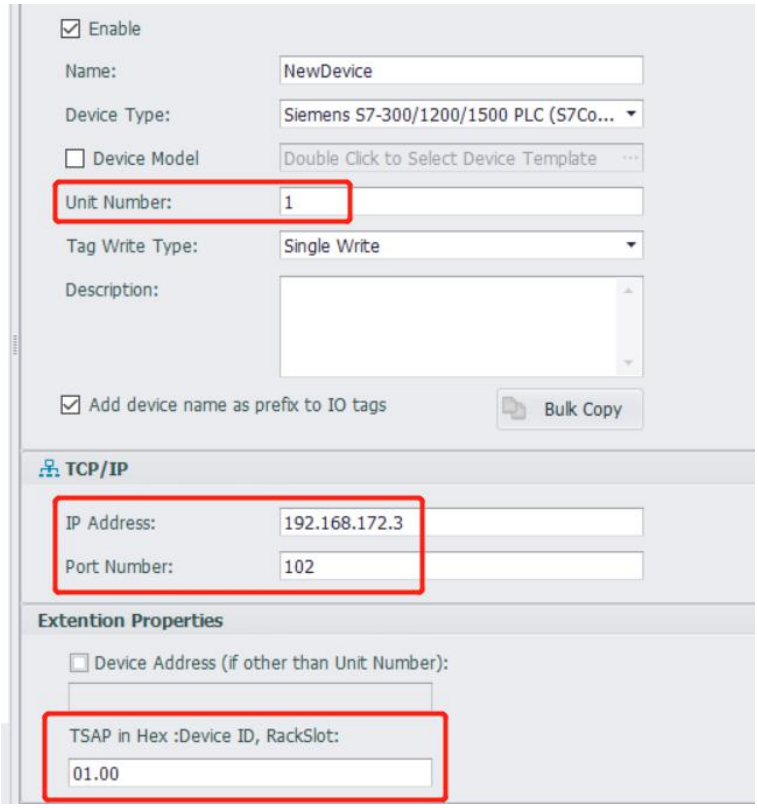
In the item Protection, select "Full access" and Check "Permit access with PUT/GET …." as in figure.



Edgelink Configuration

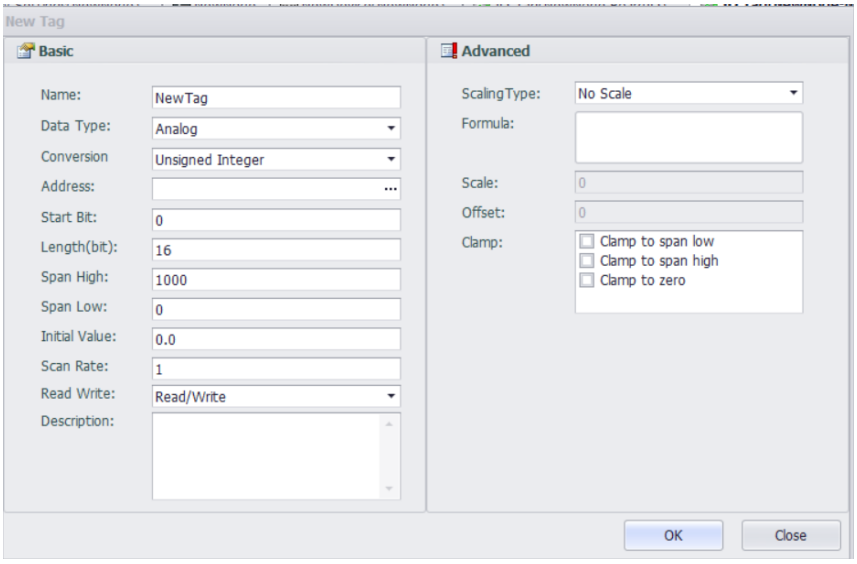
1. Add device





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



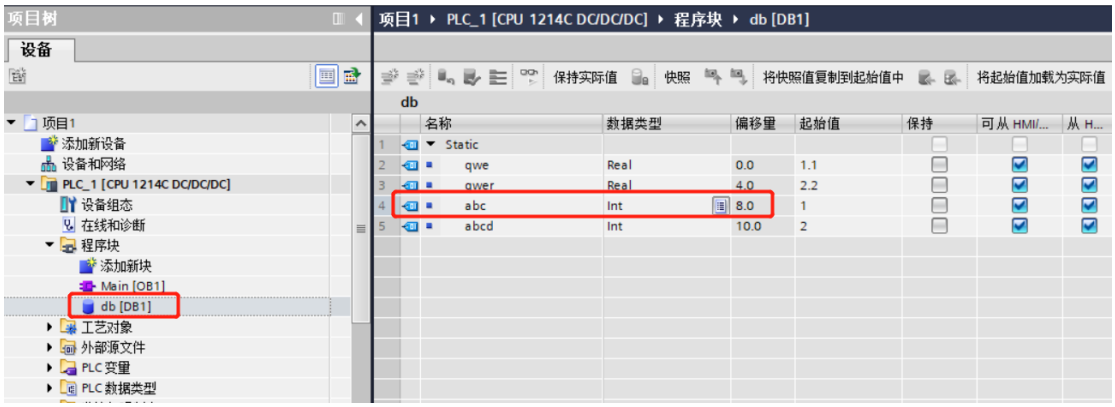
The format of address is “DB block,Offset”
Below is the details:

1）**Analog Configuration**

Parameter Address Template Description Conversion Code Length

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 Template Description Conversion Code Length

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