Ident / PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / RFID
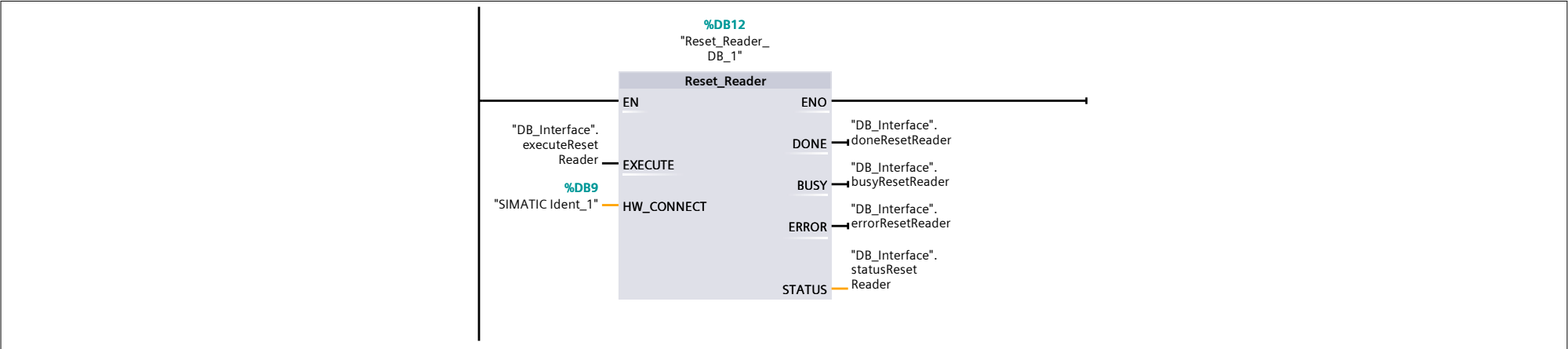
FC_Ident [FC4]

FC_Ident Properties

General

Name	FC_Ident	Number	4	Type	FC	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

FC_Ident

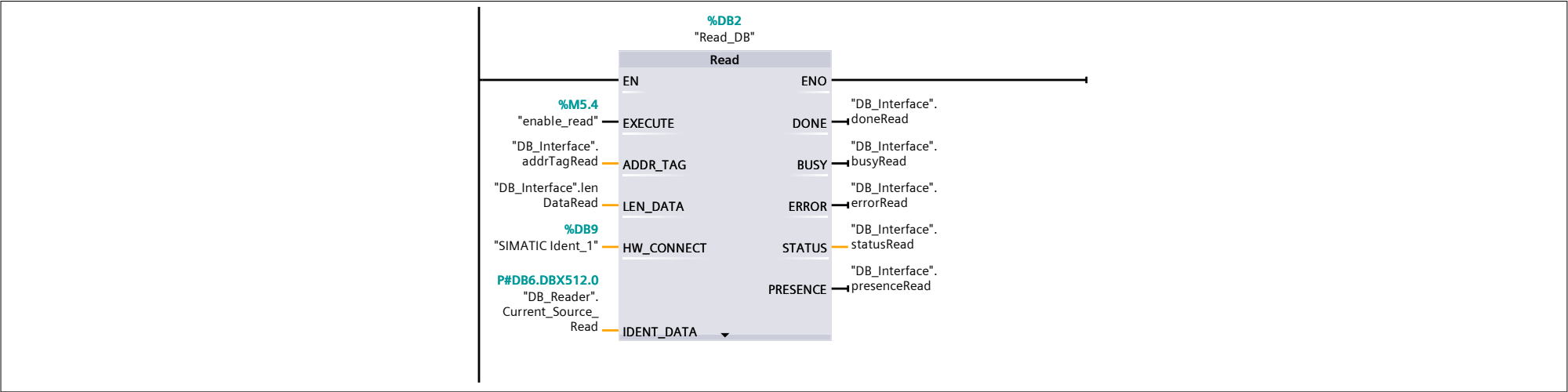| Name	Data type	Default value	Comment
Input			
Output			
InOut			
▼ Temp			
enable_read	Bool		
enable_write	Bool		
Constant			
▼ Return			
FC_Ident	Void		

Network 1: Reset Reader

The Reset block sets the reader to a operational state. The Reset also acknowledges error conditions of the reader and resets a reader from a faulty state to a OK-state.

Network 2: Read transponder

The Read block sends a read command to the reader and delivers the read result for further processing.

Network 3:

Network 4: Write transponder

The Write block sends a write command to the reader containing the data to be written to a transponder.

%DB13
"Write_DB"

Write	
EN	ENO
%M5.5 "enable_write" — EXECUTE	DONE — "DB_Interface". doneWrite
"DB_Interface". addrTagWrite — ADDR_TAG	BUSY — "DB_Interface". busyWrite
"DB_Interface".len DateWrite — LEN_DATA	ERROR — "DB_Interface". errorWrite
%DB9 "SIMATIC Ident_1" — HW_CONNECT	STATUS — "DB_Interface". statusWrite
P#DB6.DBX1372. 0 "DB_Reader". Current_Source_ Write — IDENT_DATA ▾	PRESENCE — "DB_Interface". presenceWrite

Network 5:

MOVE	
EN — ENO	
0 — IN	
	%DB8.DBD2 OUT1 — "DB_retval".pos

Serialize	
EN	ENO
P#DB6.DBX256.0 "DB_Reader". Current_OUT_ Write — SRC_VARIABLE	Ret_Val — %DB8.DBW0 "DB_retval"."ret._ Val"
%DB8.DBD2 "DB_retval".pos — POS	P#DB6.DBX1372. 0 "DB_Reader". Current_Source_ Write
	DEST_ARRAY

Network 6: Set Antenna

The Set_Ant_RF300 block switches the antenna of the RF200 and RF300 off or on.

%DB15
"Set_Ant_RF300_
DB"

Set_Ant_RF300	
EN	ENO
"DB_Interface". executeAnt — EXECUTE	DONE — "DB_Interface". doneAnt
"DB_Interface". antennaAnt — ANTENNA	BUSY — "DB_Interface". busyAnt
%DB9 "SIMATIC Ident_1" — HW_CONNECT	ERROR — "DB_Interface". errorAnt
	STATUS — "DB_Interface". statusAnt
	PRESENCE — "DB_Interface". presenceAnt

Network 7: Reset Reader

The Reset block sets the reader to a operational state. The Reset also acknowledges error conditions of the reader and resets a reader from a faulty state to a OK-state.
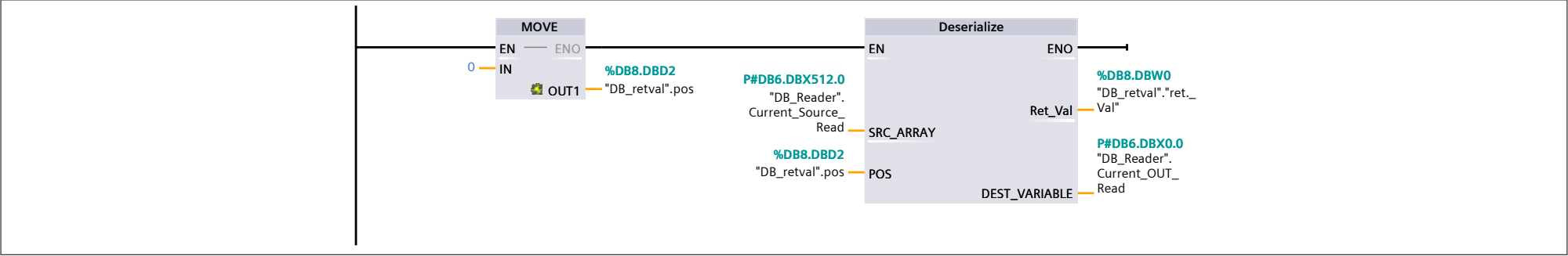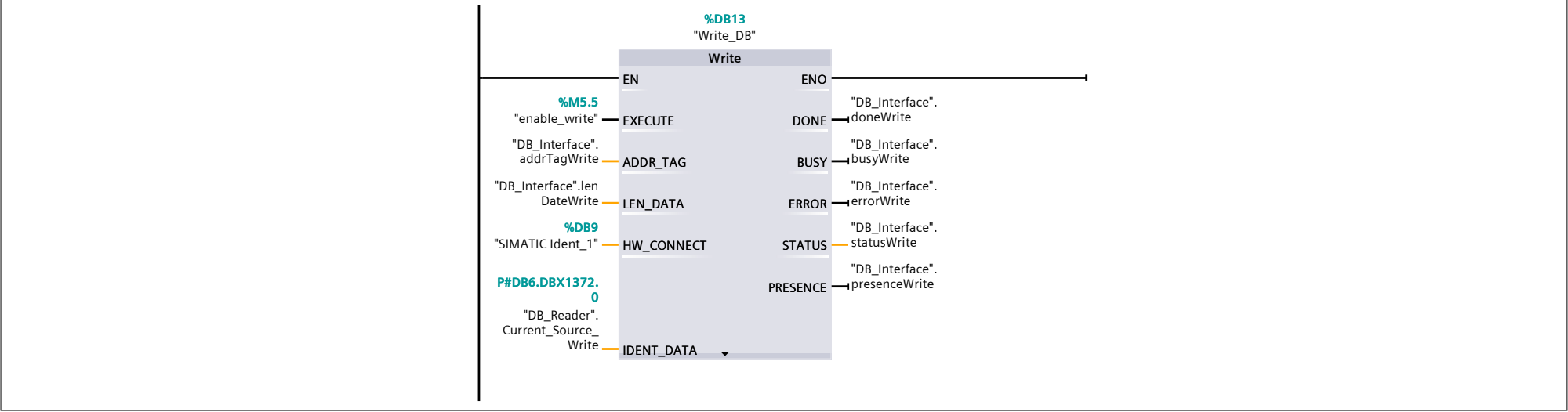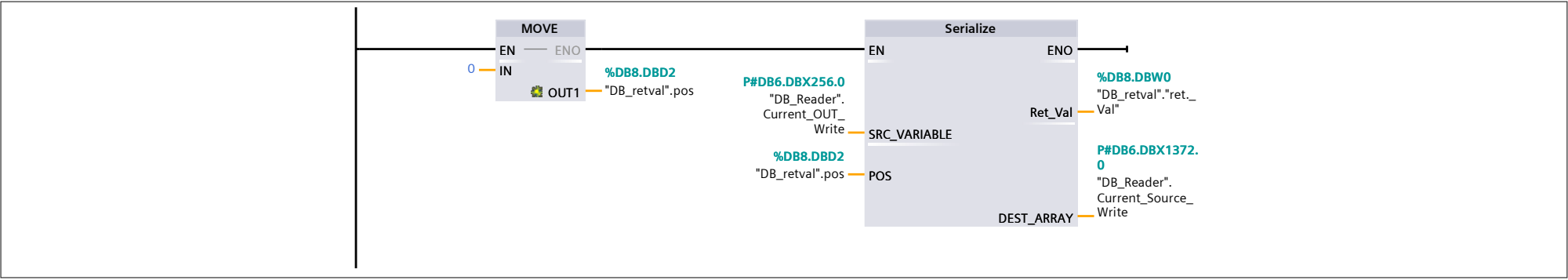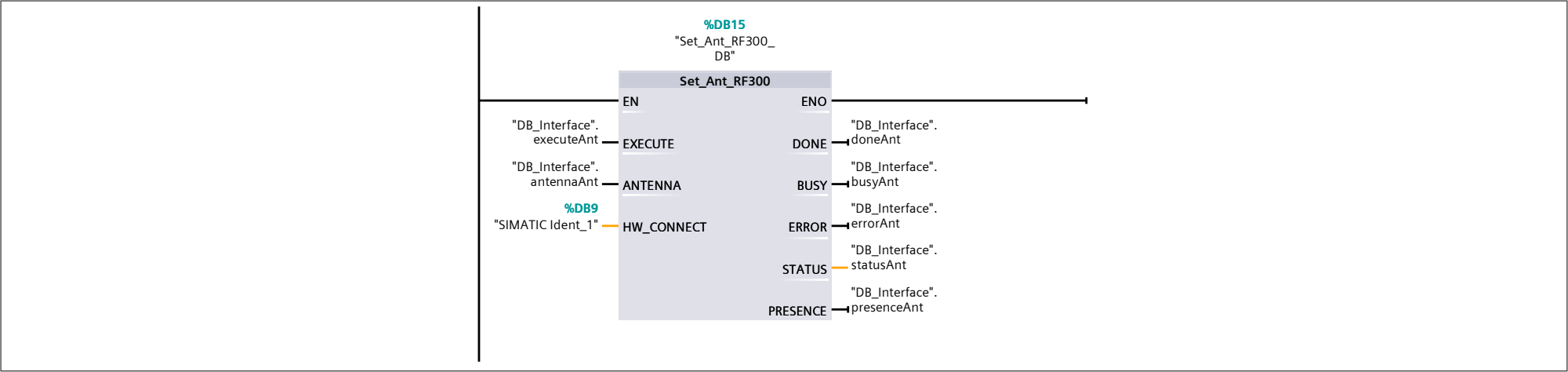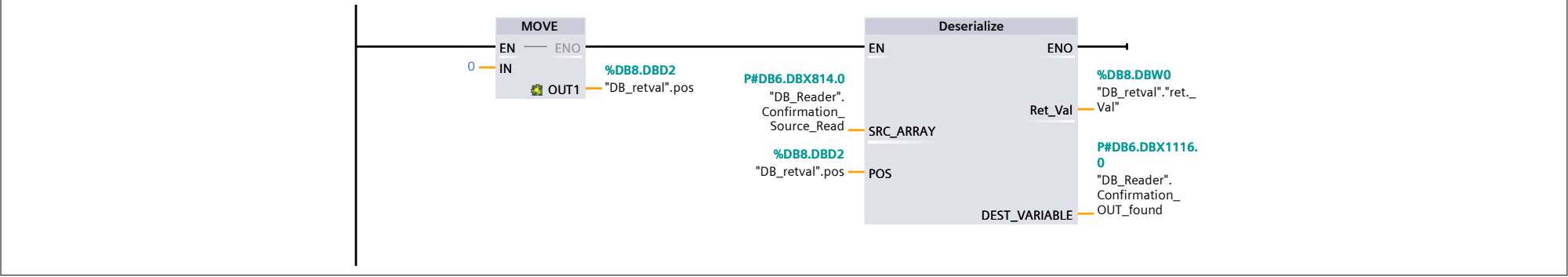
MOVE	
EN — ENO	
0 — IN	
	%DB8.DBD2 OUT1 — "DB_retval".pos

Deserialize	
EN	ENO
P#DB6.DBX814.0 "DB_Reader". Confirmation_ Source_Read — SRC_ARRAY	Ret_Val — %DB8.DBW0 "DB_retval"."ret._ Val"
%DB8.DBD2 "DB_retval".pos — POS	P#DB6.DBX1116. 0 "DB_Reader". Confirmation_ OUT_found
	DEST_VARIABLE

Network 8:

%DB4
"DB_CONFIRM"

Read	
EN	ENO
%M9.1 "enable_read_ after_found" — EXECUTE	DONE — "DB_Interface". doneRead_ Confirm
"DB_Interface". addrTagRead — ADDR_TAG	BUSY — "DB_Interface". busyRead_ Confirm
"DB_Interface".len DataRead — LEN_DATA	ERROR — "DB_Interface". error_Read_ Confirm
%DB9 "SIMATIC Ident_1" — HW_CONNECT	STATUS — "DB_Interface". statusRead_ Confim
P#DB6.DBX814.0 "DB_Reader". Confirmation_ Source_Read — IDENT_DATA ▾	PRESENCE — "DB_Interface". presenceRead_ Confirm

Network 9:

```
            MOVE                                    Deserialize
         ┌─────────┐                          ┌──────────────────────┐
─────────┤EN    ENO├                      ────┤EN               ENO ├──────────
       0 ┤IN       │        %DB8.DBD2          │                     │        %DB8.DBW0
         │    OUT1 ├──── "DB_retval".pos       │                     │        "DB_retval"."ret._
         └─────────┘                P#DB6.DBX814.0                   │        Val"
                                    "DB_Reader".       ───┤         Ret_Val├────
                                    Confirmation_        │                     │  P#DB6.DBX1116.
                                    Source_Read          │                     │  0
                                              ───┤SRC_ARRAY             │        "DB_Reader".
                                    %DB8.DBD2           │                     │  Confirmation_
                                    "DB_retval".pos ───┤POS                   │  OUT_found
                                                        │       DEST_VARIABLE ├────
                                                        └──────────────────────┘
```