FENEOS+SCADA / PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / RFID
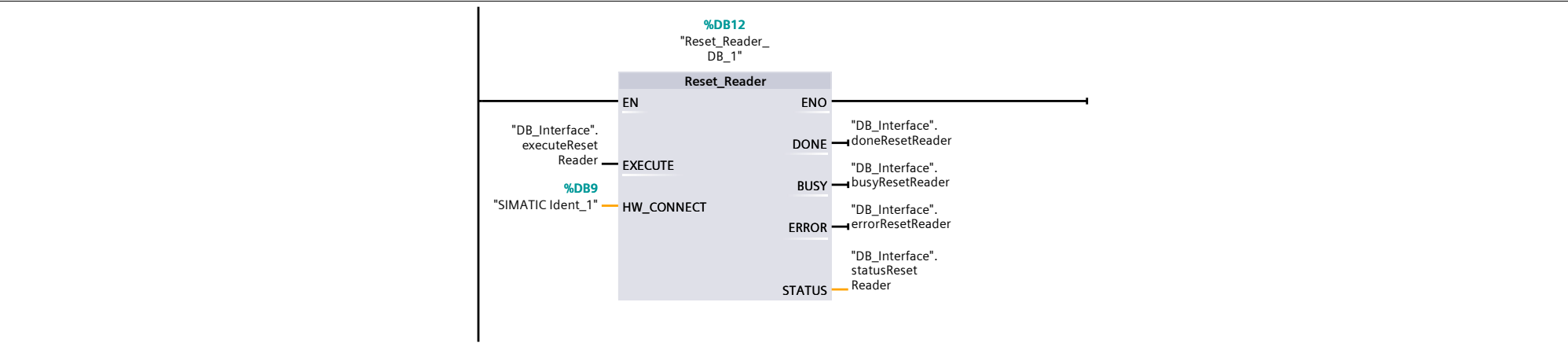
FC_RFID_READ_WRITE [FC4]

FC_RFID_READ_WRITE Properties

General

Name	FC_RFID_READ_WRITE	Number	4	Type	FC	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

FC_RFID_READ_WRITE

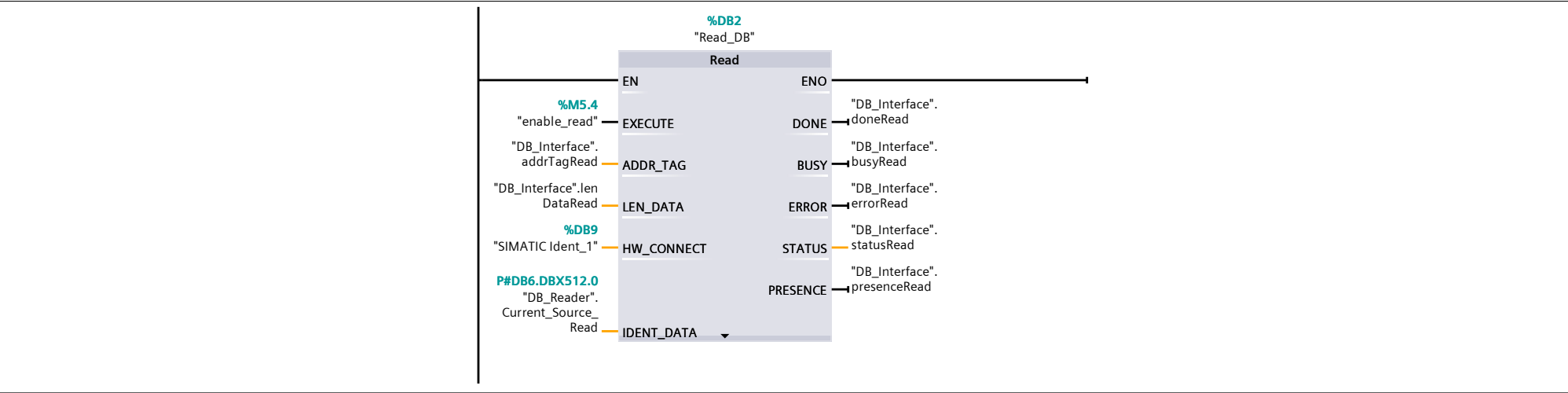| Name	Data type	Default value
Input		
Output		
InOut		
▼ Temp		
enable_read	Bool	
enable_write	Bool	
Constant		
▼ Return		
FC_RFID_READ_WRITE	Void	

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.
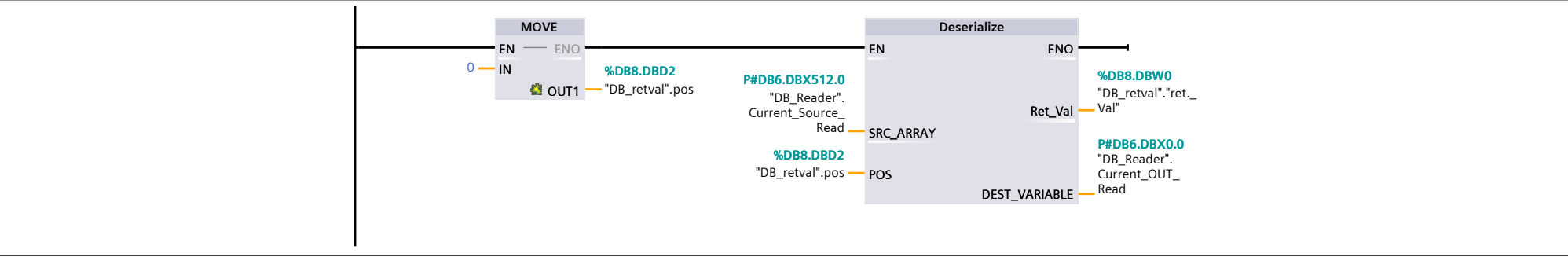

Network 2: Read transponder

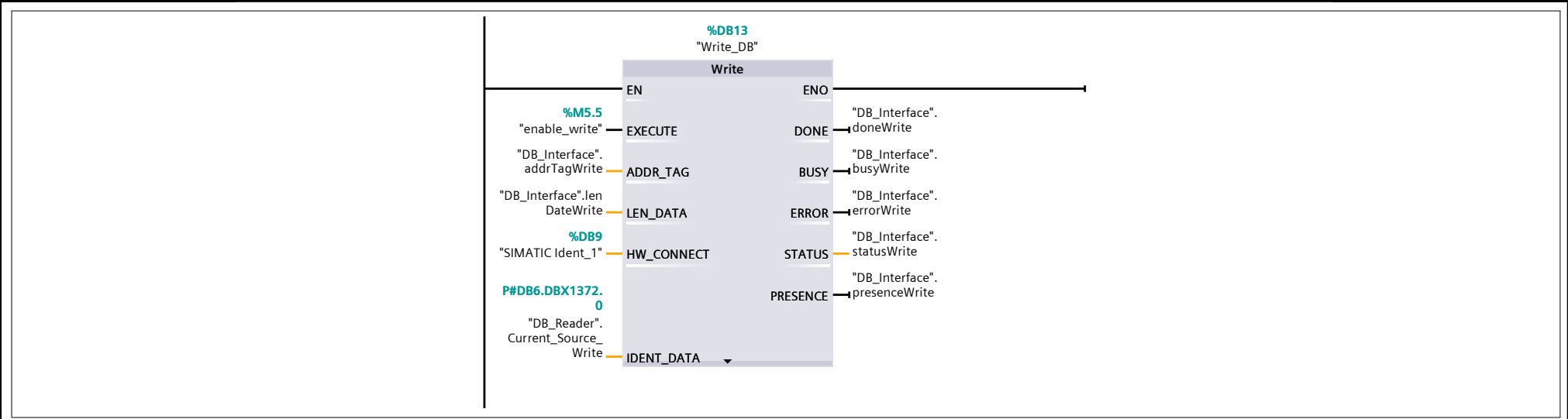The Read block sends a read command to the reader and delivers the read result for further processing.
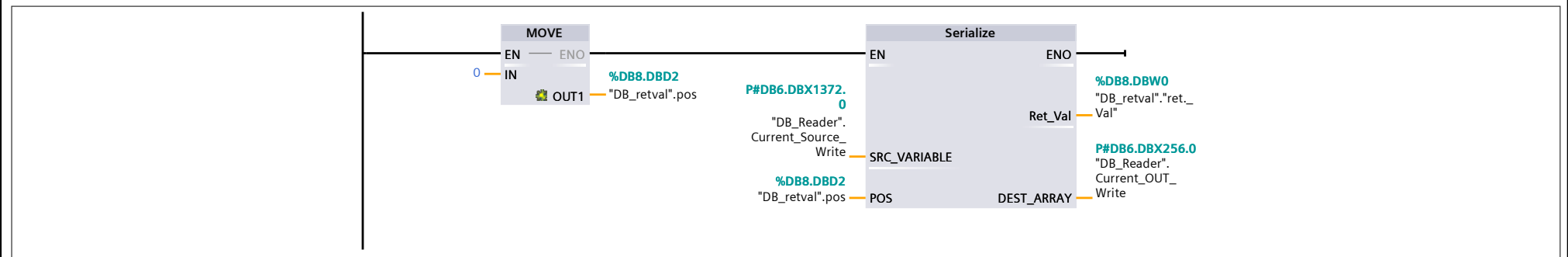

Network 3:

Network 4: Write transponder

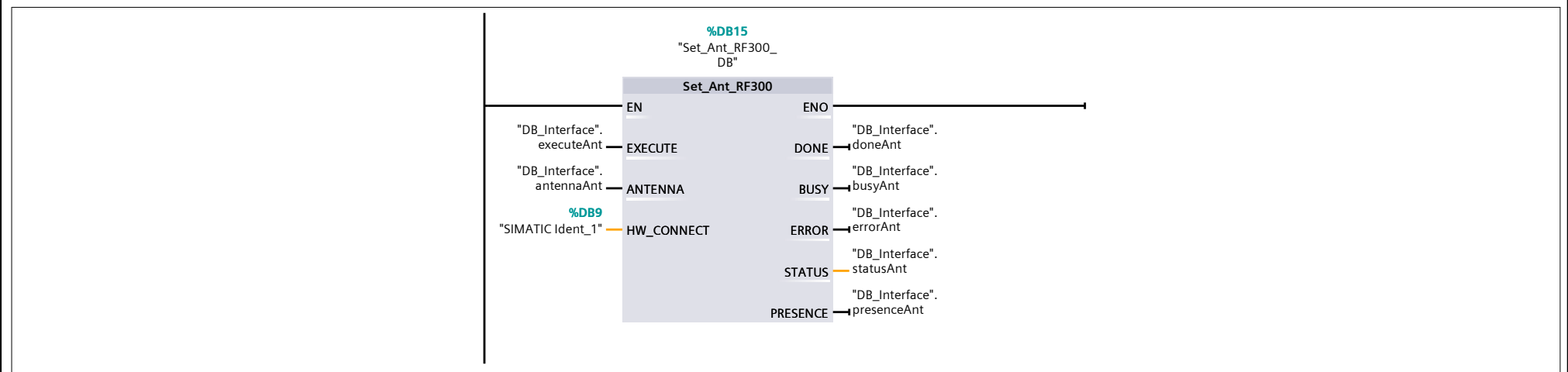The Write block sends a write command to the reader containing the data to be written to a transponder.

%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".lenDateWrite — 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
OUT1 — %DB8.DBD2
"DB_retval".pos

Serialize

EN — ENO

P#DB6.DBX1372.0
"DB_Reader".Current_Source_Write — SRC_VARIABLE
Ret_Val — %DB8.DBW0
"DB_retval"."ret._Val"

%DB8.DBD2
"DB_retval".pos — POS
DEST_ARRAY — P#DB6.DBX256.0
"DB_Reader".Current_OUT_Write

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

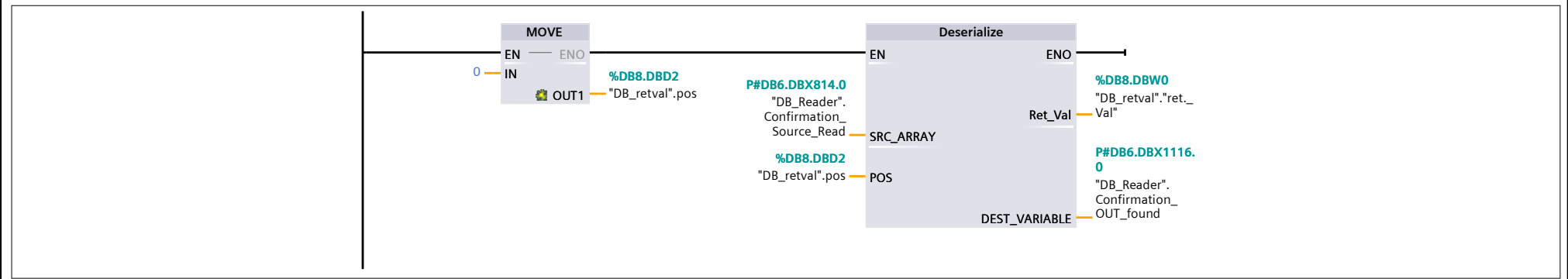PRESENCE — "DB_Interface".presenceAnt
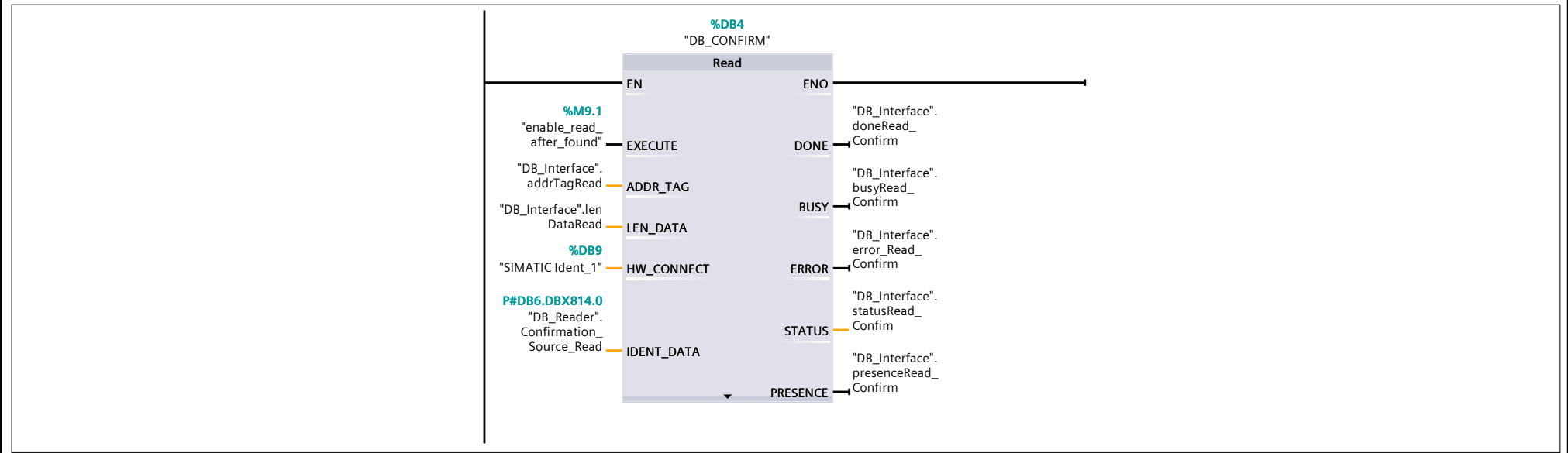
Network 7: Reset Reader

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
OUT1 — %DB8.DBD2
"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
DEST_VARIABLE — P#DB6.DBX1116.0
"DB_Reader".Confirmation_OUT_found

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".lenDataRead — LEN_DATA
ERROR — "DB_Interface".error_Read_Confirm

%DB9
"SIMATIC Ident_1" — HW_CONNECT

P#DB6.DBX814.0
"DB_Reader".Confirmation_Source_Read — IDENT_DATA
STATUS — "DB_Interface".statusRead_Confim

PRESENCE — "DB_Interface".presenceRead_Confirm

Network 9:

		MOVE					Deserialize	

EN — ENO

0 — IN

OUT1 — %DB8.DBD2
"DB_retval".pos

EN   ENO

P#DB6.DBX814.0
"DB_Reader".
Confirmation_
Source_Read — SRC_ARRAY

%DB8.DBD2
"DB_retval".pos — POS

Ret_Val — %DB8.DBW0
"DB_retval"."ret._
Val"

P#DB6.DBX1116.
0
"DB_Reader".
Confirmation_
OUT_found

DEST_VARIABLE