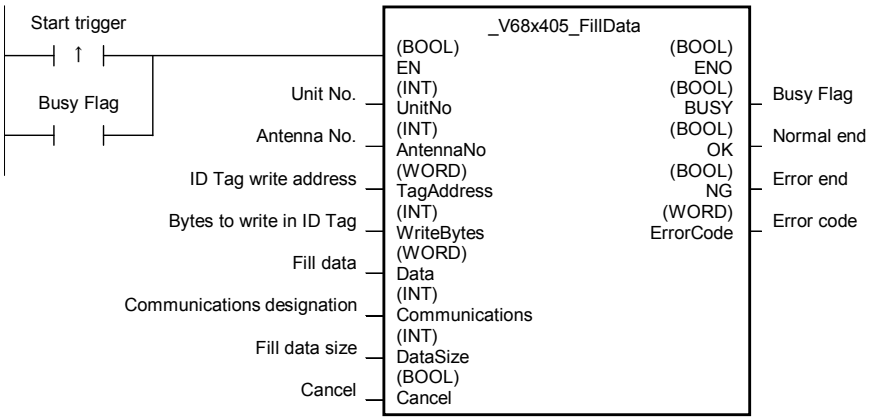
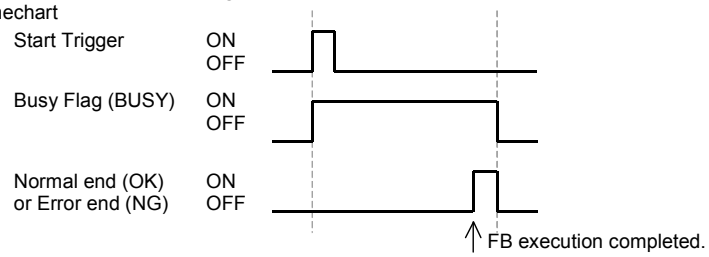
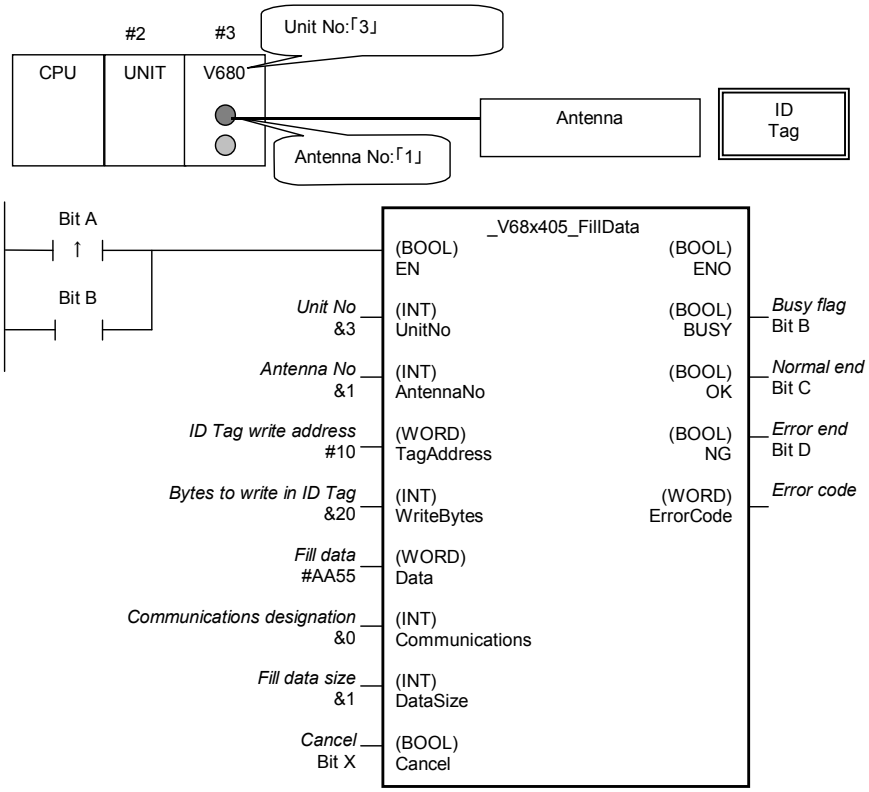
V68x 405	Fill Data in ID Tag _V68x405_FillData

Basic function	Writes fill data to a ID Tag.	
Symbol		
File name	Lib¥FBL¥omronlib¥RFID¥V680¥_V68x405_FillData10.cxf	
Applicable models	ID Sensor Units	CS1W-V680C11/V680C12 and CJ1W-V680C11/V680C12
	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H
	CX-Programmer	Version 5.0 or higher
Language used	Ladder Language	
Function description	The same data is written to the specified area of the ID Tag specified by the *Unit No.* and *address No.* Up to 2,048 bytes (1,024 words) can be written at one time or the entire area from the specified first address can be written .	
Kind of FB definition	more-cycle execution type After it starts, this FB is processed across two or more cycles. Because the state is maintained internally, the same instance cannot be used in two or more places at the same time.	
FB precautions	・If the specified number of bytes to process is 0, the data will be written to the ID Tag from the specified first address to the last address in the user area. ・The user area in the ID Tag will be written even if write protection is set. ・Verification will not be performed unless it is specified when writing. ・The FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed. ・OK or NG will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing. Timechart  ・This FB cannot be executed if the ID Sensor Unit is busy. The NG Flag will turn ON if an attempt is made. ・When FB is executed if result monitor output of the system construction is set to the setting of the noise level, the noise level is output to the error code.	
EN input condition	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY output from the FB.	
Restrictions Input variables	・Always use an upwardly differentiated condition for EN. ・If the input variables are out of range, the ENO flag will turn OFF and the FB will not be processed. ・Always specify a antenna number of &1 for One-antenna ID Sensor Units (CS1W-V680C11 and CJ1W-V680C11). ・Check the memory capacity of the ID Tag when specifying the ID Tag address and ID Tag number of bytes to process. An address error will be output if the specified ID Tag address and ID Tag number of bytes to process are not suitable for the memory capacity of the ID Tag being communicated with. ・Fill data byte size is specified, Fill data of 2 digits lower has been given to the address specified number of bytes written. ・Fill data word size is specified, Fill data is from top to bottom in the order specified number of bytes written just after the address specified.	

Output variables	・This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to completion (see *Symbol*). ・Do not turn the BUSY output variable ON or OFF outside the FB.
Application example	When bit A turns ON in the following example, #AA55 will be written to 20 bytes beginning with address 10(Hex) in the ID Tag connected to Head 1 of the ID Sensor Unit with unit number 3.
Related manuals	ID Sensor Unit Operation Manual (SCHI-711) 4 I/O Data Allocations, Error Codes 6 Communications Commands, Data Fill



■**Variable Tables**

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			ON is executed when FB has been turned on. 1 (ON): FB started. 0 (OFF): FB not started.
Unit No.	UnitNo	INT	&0	&0～&95	Specify the unit number.
Antenna No.	AntennaNo	INT	&1	&1～&2	Specify the antenna number. &1: Antenna 1 &2: Antenna 2 (Two-antenna Controllers only)
ID Tag write address	TagAddress	WORD	#0		Specify the ID Tag address.
Bytes to write in ID Tag	WriteBytes	INT	&0	&0～&2048	Specify the number of processing bytes of ID tag. Consider the ID Tag capacity when setting. If the specified number of bytes to process is 0, the data will be written from the specified first address to the last address.
Fill data	Data	WORD	#0		Specify the Fill data content .
Communications designation	Communications	INT	&0	&0～&6	Specify the communication method with the ID tag. &0: Trigger &1: Auto &2: Repeat auto &3: FIFO trigger &4: FIFO repeat &5: Multi-access trigger &6: Multi-access repeat
Fill data size	DataSize	INT	&0	&0～&1	Specify the size of the fill data. &0: Byte &1: Word
Cancel	Cancel	BOOL	0(OFF)		0→1: Cancels processing.

Output Variables

Name	Variable name	Data type	Default	Description
ENO (May be omitted.)	ENO	BOOL		1 (ON): FB processed normally. 0 (OFF): FB not processed or ended in an error.
Busy Flag	BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	NG	BOOL		Turns ON for one cycle when processing ends in an error.
Error code	ErrorCode	WORD		Outputs the results from the ID Sensor Unit. Refer to the *Related Manuals* for details. #0014: Data storage area Specification error ＊ #0014: Command error ＊ #0070: ID Tag communications error #0071: Verification error #0072: ID Tag missing error #0076: Status Flag #0077: Error correction #0079: ID system error 1 #007A: ID Tag address error #007C: Antenna error flag #007D: Write protection error #007E: ID system error 2 #007F: ID system error 3 #FFFE: ID Tag is communicating. #FFFF: Input parameter error ＊:#0014 has two item factor. Please confirm, and divide the corresponding flag about details.「Related manuals SCHI-711 7 Abnormal processing 」

■**Version History**

Version	Date	Contents
1.00	2008.04.	Original production