# **SIEMENS**

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# SIMATIC NET

Program blocks
Version history of the SIMATIC NET program blocks for SIMATIC
S7 CPs

**Reference Manual** 

## Legal information

#### Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

#### **▲** DANGER

indicates that death or severe personal injury will result if proper precautions are not taken.

# **AWARNING**

indicates that death or severe personal injury may result if proper precautions are not taken.

#### **▲**CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

#### NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

#### **Qualified Personnel**

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

#### Proper use of Siemens products

Note the following:

## **▲** WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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## **Disclaimer of Liability**

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

# **Preface**

#### Information on this document

This document provides you with information on the current program blocks and on program blocks that were previously available along with their versions and a brief description.

#### Validity of the document

The information in this document includes the program block versions up to the following versions of the configuration software, depending on the device family:

- S7-300/400
  - STEP 7 V5.5 SP4 + HF8
  - STEP 7 Professional V13.0 + SP1 + Update 6
- S7-1200/1500
  - STEP 7 Professional V13.0 + Update 4

#### New in this release

- Information on migration of the program blocks to STEP 7 Professional
- Editorial revision

## Layout

For each program block, there is a table that informs you of the previously available block versions.

#### Note

#### Current block version always at the top of the table

The tables are structured so that the current block version is always at the top of the table. The version number of the current block version is also indicated using the following convention:>>n.0<<

Layout of the tables / example:

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>4.0<<	IE	V5.1+SP2+HF1	Migration: _OK	BF	Status display	
3.0	IE	V5.1	Migration: _LF	X		Enhanced protocol to ensure compatibility between new and older CP generation.

#### Migration of program blocks to STEP 7 Professional

If you want to migrate projects containing the program blocks from STEP 7 V5.x to STEP 7 Professional, note that not all program blocks are fully compatible in both STEP 7 versions. While some blocks / block versions can be migrated to configurable program blocks in STEP 7 Professional, other blocks / block versions are converted to fixed coded user blocks with the name supplement "\_LF" (legacy function) during migration.

You will find information on the behavior of the individual block versions during migration in the tables of this document based on three possible entries in the "Comment" column:

#### Migration: OK

The block can be migrated in this version and retains its name.

#### Migration: \_LF

The block in this version is converted to a fixed coded user block with the name supplement "\_LF" (legacy function) during migration. The migrated block can no longer be freely configured.

Prior to migration check whether the existing block can be replaced by another block from the library of STEP 7 Professional.

#### Migration: \_S

The block can be migrated in this version but will be converted to a block with the name postfix "S".

Example: "PUT" becomes "PUT\_S".

Note that the migration capability of the program blocks relates to the STEP 7 Professional version specified in the section "Validity of the document under the point "S7-1200/1500".

You will find more detailed information on migrating projects and program blocks in the information system of STEP 7 Professional.

#### Note

#### Checking migrated blocks

With a migrated block, always note the behavior in STEP 7 Professional, for example access to data blocks or the compatibility of data types used. You will find information on this in the information system of STEP 7 Professional.

#### Notes on the tables and abbreviations

The table columns have the following meaning and use the following abbreviations or identifiers:

#### Version

The block version in the program block library of the specified STEP 7 version.

#### CP type

Subnet type in which the device / module is used.

- IE→ Industrial Ethernet
- PB → PROFIBUS
- GPRS → GSM network with GPRS service

#### STEP 7 / NCM S7 version

STEP 7 version as of which the specified program block version is available in the program block library.

#### Remarks

Additional notes on the program block version described and its capability of being migrated to STEP 7 Professional.

### Reason for change

Reasons for a change include bug fixes or enhanced functions.

- BF → Bugfix
- X → Enhanced functionality / improvement / optimization
- I → Reasons relating to manufacturing
- New → First release of the block

#### Bugs fixed / extended functionality

Here, you will find more information on the reasons for the change.

#### Downloads of the current versions of the program blocks

For new user programs, always use the current program block versions. You will find information on the current program block versions and can download the current SIMATIC NET program blocks from the Internet under the following Entry ID:

Link: (https://support.industry.siemens.com/cs/ww/en/view/109481127)

If you are replacing a CP, please follow the instructions in the relevant manual (refer to "Further information").

#### Current version histories (S7 CPs and program blocks)

The latest releases of the version histories for SIMATIC NET program blocks and S7 CPs can be found under the following entry ID:

Link: (https://support.industry.siemens.com/cs/ww/en/view/109474421)

# **Further information**

You will find further information on the program blocks in the manual Program Blocks for SIMATIC NET S7 CPs":

Entry ID: Link: (https://support.industry.siemens.com/cs/ww/en/view/62543517)

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SIMATIC S7-300

# 1.1 SIMATIC S7-300 SEND / RECEIVE (open communications services)

# SIMATIC S7-300 SEND / RECEIVE

Table 1- 1 FC5 / AG\_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>4.2<<	PB + IE	<ul><li>V5.2+SP1</li><li>V12.0</li></ul>	Migration: OK	BF	Synchronization problem between program block and CP caused incorrect display in the block.	-
4.1	PB + IE	V5.1 + SP2 + HF1	Migration: _LF	BF	When operating PROFINET blocks and SEND/RECV at the same time, the condition code Status = 80C4 <sub>H</sub> (communications error) occurred with FC SEND/RECV after a few jobs.	-
4.0	PB + IE	V5.1+SP2	New IE CPs allow data length LEN > 240 bytes. Migration: _LF	X+BF	Length information for "long data" was incorrect.	Long data (> 240 bytes) with new IE CPs.
3.0	PB + IE	V5.1	Migration: _LF	Х	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	PB + IE	V5.0	Migration: _LF	X	-	Expansion of programming support for the ID and LADDR parameters.
1.11	PB + IE	V2.1	Send data length LEN ≤ 240 bytes. Migration: _LF	New	-	-

# 1.1 SIMATIC S7-300 SEND / RECEIVE (open communications services)

Table 1-2 FC50 / AG\_LSEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB + IE	V5.1 to V5.2	The program block AG_LSEND is no longer shipped as of STEP 7 V5.3! Use the current version of AG_SEND.	BF	SEND (ANY) parameter: DWORD+WORD pointers are now correctly interpreted in L mode.	-
2.6	PB + IE	V5.0	Migration: OK  Migration: _LF	Х	Negative values for transfer data length (LEN < 0) are rejected immediately with a status condition code.	-
2.5	PB + IE	V4.0	Migration: _LF	BF	Comments entered for block variables corrected or expanded.	-
2.4	PB + IE	V4.0	-	BF	<ul> <li>Internal initialization sequences expanded with test routines.</li> <li>Sequence of block call with ACT = 0 ("empty run") optimized.</li> </ul>	-
2.1	PB + IE	V4.0	Migration: _LF	BF	Multiple instance capability of the FC is now ensured.	-
2.0	PB + IE	V4.0	Migration: _LF	New	-	-

Table 1- 3 FC6 / AG\_RECV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>4.7<<	PB + IE	<ul><li>V5.2+SP1</li><li>V12.0</li></ul>	Migration: OK	BF	Synchronization problem between program block and CP caused incorrect display in the block. Uncontrolled "0" bytes received is reported sporadically. Unexpected condition code Status = 80B1	-
4.6	PB + IE	V5.2+SP1 (approx. M2003)	Migration: _LF	BF	Specifying LEN = 0 is now permitted. This means that a RECV call with length "0" is possible with the IE CPs in keeping with the standard.	-
4.5	PB + IE	V5.1 + SP2 + HF1	Migration: _LF	BF	When operating PROFINET and SEND/RECV at the same time, the condition code Status = 80C4 <sub>H</sub> (communications error) is displayed with the RECV block after a few jobs.  Undefined condition code (for example, Status = 34F0 <sub>H</sub> ) in mixed operation (for example SEND/RECV communication + diagnostics).	-
4.3	PB + IE	V5.1+SP2	"New" IE CPs TLEN > 240 bytes Notice: "Long data" can only be trans- ferred in combi- nation with IE CPs "HX00" and "EX11". Migration: _LF	X+BF	Length information for "long data" was incorrect.	Long data (> 240 bytes) with new IE CPs.

# 1.1 SIMATIC S7-300 SEND / RECEIVE (open communications services)

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
3.0	PB + IE	V5.1	Migration: _LF	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	PB + IE	V5.0	Migration: _LF	Х	-	Expansion of programming support for the ID and LADDR parameters.
1.11	PB + IE	V2.1	Received data length LEN ≤ 240 bytes.	New	-	-
			Migration: _LF			

Table 1-4 FC60 / AG\_LRECV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB + IE	V5.1	The program block AG_LRECV is no longer shipped as of STEP 7 V5.3. Migration: OK	BF	RECV (ANY) parameter: DWORD and WORD pointers are now correctly interpreted in L mode.	Expansion of programming support for the ID and LADDR parameters.
			Use the current version of AG_RECV.			
2.7	PB + IE	V5.0+SP1	Migration: _LF	BF	Data reception < 240 bytes with >240 specified in Any pointer.	-
2.4	PB + IE	V4.x	Migration: _LF	BF	Comments entered for block variables corrected or expanded.	-
2.3	PB + IE	V4.x	Migration: _LF	BF	Internal initialization sequences expanded with test routines.	-
					Correction of the length information in the situation "Send short data" and "Receive long data".	

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
2.1	PB + IE	V4.x	Migration: _LF	BF	Multiple instance capability of the FC is now ensured.	-
2.0	PB + IE	V4.x	<ul> <li>PROFIBUS:         LEN ≤ 240         bytes</li> <li>I. Ethernet:         LEN &gt; 240         bytes possible         Migration: _LF</li> </ul>	New	-	-

Table 1-5 FC7 / AG\_LOCK

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>4.0<<	IE	<ul><li>V5.1 + SP2 + HF1</li><li>V12.0</li></ul>	Migration: OK	BF	Status display	Enhanced protocol to ensure compatibility between new and older CP generation.
1.0	IE	V5.1	Migration: _LF	New	-	-

Table 1- 6 FC8 / AG\_UNLOCK

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>4.0<<	IE	<ul><li>V5.1 + SP2 + HF1</li><li>V12.0</li></ul>	Migration: OK	BF	Status display	Enhanced protocol to ensure compatibility between new and older CP generation.
1.0	IE	V5.1	Migration: _LF	New	-	-

Table 1-7 FC10 / AG\_CNTRL

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.4<<	IE	<ul><li>V5.3.3</li><li>V12.0</li></ul>	Migration: OK	BF	Calls with an invalid CMD were completed with DONE.	
1.0	IE	• V5.3.3	Migration: OK	New	-	-

## 1.2 SIMATIC S7-300 FTP

Table 1-8 FB10 / AG\_CNTEX

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	• V5.5.3	Migration: OK	New	-	-
		• V12.0				

# 1.2 SIMATIC S7-300 FTP

# SIMATIC S7-300 FTP

Table 1-9 FB40 / FTP\_CMD

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>2.1<<	CP 343-1 Adv anced V3.0.44	<ul><li>V5.5.4</li><li>V13.0</li></ul>	Migration: OK	X	New: Exactly matching data areas can be specified for the IP address, user name and password with the "NAME_STR" parameter for commands 1+17	-
>>2.0<<		<ul><li>V5.5</li><li>V12.0</li></ul>	Migration: OK	Х		Security functions
1.0	IE Advanced	V5.4+SP4	Migration: _LF FB40 replac- es the func- tions FC40 - FC44.	New		-

Table 1- 10 FC40 / FTP\_CONNECT

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE Advanced	V5.2	Migration: _LF	BF	Correct handling of the string length for file names.	-
					Changeover to     English comments     for the program     block variables.	
1.0	IE Advanced	V5.1+SP3	Migration: _LF	New	-	-

Table 1- 11 FC41 / FTP\_STORE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE Advanced	V5.2	Migration: _LF	BF	Correct handling of the string length for file names.	-
1.0	IE Advanced	V5.1+SP3	Migration: _LF	New	-	-

Table 1- 12 FC42 / FTP\_RETRIEVE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.2<<	IE Advanced	V5.5	Migration: _LF	BF	Correct reaction to access to non-existent file.	-
1.1	IE Advanced	V5.2	Migration: _LF	BF	Correct handling of the string length for file names.	-
1.0	IE Advanced	V5.1+SP3	Migration: _LF	New	-	-

Table 1- 13 FC43 / FTP\_DELETE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE Advanced	V5.2	Migration: _LF	BF	Correct handling of the string length for file names.	-
1.0	IE Advanced	V5.1+SP3	Migration: _LF	New	-	-

Table 1- 14 FC44 / FTP\_QUIT

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE Advanced	V5.2	Migration: _LF	BF	Changeover to English comments for the program block variables	-
1.0	IE Advanced	V5.1+SP3	Migration: _LF	New	-	-

1.3 SIMATIC S7-300 IP\_CONFIG - programmed connections

Table 1- 15 UDT1 / FILE\_DB\_HEADER

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	<ul><li>V5.1+S P3</li><li>V12.0</li></ul>	Migration: _OK; be- comes FILE_DB_HE ADER	New	-	-

# 1.3 SIMATIC S7-300 IP\_CONFIG - programmed connections

# SIMATIC S7-300 IP\_CONFIG

Table 1- 16 FB55 / IP\_CONFIG

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.3<<	E	<ul><li>V5.4+SP4</li><li>V12.0</li></ul>	Migration: OK	BF	Multiple instance capability of the FB is now ensured.	-
1.1	ΙΕ	V5.3.3	Migration: OK	BF	<ul> <li>IP_CONFIG data block larger than 32 KB is accept- ed.</li> <li>Correction of various block sta- tus messages</li> </ul>	-
1.0	IE	V5.2+SP1	Migration: _LF	New	-	-

# 1.4 SIMATIC S7-300 PROFINET IO

# **S7-300 PROFINET IO**

Table 1- 17 FC11 / PNIO\_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	IE	<ul><li>V5.4+SP5</li><li>V12.0</li></ul>	Migration: OK	Х	-	Enhancement for faster user data transfer
2.0	IE	V5.4+SP4	Migration: OK	Х	-	Supports PROFINET IO device and IO controller
1.0	IE	V5.4+SP3	Migration: OK	New	-	-

Table 1- 18 FC12 / PNIO\_RECV

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	IE	<ul><li>V5.4+SP5</li><li>V12.0</li></ul>	Migration: OK	X	-	Enhancement for faster user data transfer
2.0	IE	V5.4+SP4	Migration: OK	Х	-	Supports PROFINET IO device and IO controller
1.0	IE	V5.4+SP3	Migration: OK	New	-	-

Table 1- 19 FB52 / PNIO\_RW\_REC

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE	<ul><li>V5.4+SP4</li><li>V12.0</li></ul>	Migration: OK	BF	Multiple instance capability of the FB now ensured.	-
1.0	IE	V5.4+SP2	Migration: OK	New	-	-

Table 1- 20 FB54 / PNIO\_ALARM

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE	<ul><li>V5.4+SP4</li><li>V12.0</li></ul>	Migration: OK	BF	Multiple instance capability of the FB now ensured.	-
1.0	IE	V5.4+SP2	Migration: OK	New	-	-

# 1.5 SIMATIC S7-300 PROFINET IO / PROFlenergy

# S7-300 PROFINET IO / PROFlenergy

The following program blocks are available for the selected communications service:

Table 1- 21 FB85 / PE\_START\_END\_CP

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	• V5.5+SP2	Migration: OK	New	-	-
		• V12.0				

#### Table 1- 22 FB86 / PE\_CMD\_CP

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul><li>V5.5+SP2</li><li>V12.0</li></ul>	Migration: OK	New	1	-

#### Table 1- 23 FB87 / PE\_I\_DEV\_CP

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	• V5.5+SP2	Migration: OK	New	-	-
		• V12.0				

## Table 1- 24 FB53 / DS3\_WRITE\_CP

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul><li>V5.5+SP2</li><li>V12.0</li></ul>	Migration: OK; be- comesPE_DS3_Write_ ET200S_CP (FB88)	New	-	-

# 1.6 SIMATIC S7-300 PROFINET CBA

## SIMATIC S7-300 PROFINET CBA

The following program blocks are available for the selected communications service:

Table 1- 25 FB88 / PN\_InOut

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.5<<	IE	STEP 7 V5.3 SP2 with iMAP STEP 7 add-on V2.0 SP3 and SIMATIC iMap as of V2.0 SP1	Configuration requires SIMATIC iMAP. Migration: _LF	New	-	-

# 1.7 SIMATIC S7-300 PROFIBUS DP

## SIMATIC S7-300 PROFIBUS DP

Table 1- 26 FC1 / DP\_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul><li>V5.1</li><li>V12.0</li></ul>	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	РВ	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	РВ	V2.1	Migration: _LF	New	-	-

# 1.7 SIMATIC S7-300 PROFIBUS DP

Table 1- 27 FC2 / DP\_RECV

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul><li>V5.1</li><li>V12.0</li></ul>	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	РВ	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	РВ	V2.1	Migration: _LF	New	-	-

Table 1- 28 FC3 / DP\_DIAG

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul><li>V5.1</li><li>V12.0</li></ul>	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	РВ	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	РВ	V2.1	Migration: _LF	New	-	-

Table 1- 29 FC4 / DP\_CTRL

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul><li>V5.1</li><li>V12.0</li></ul>	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	РВ	V5.0	Migration: _LF	Х	-	Expansion of programming support for the CPLADDR parameter.
1.11	РВ	V2.1	Migration: _LF	New	-	-

# 1.8 SIMATIC S7-300 ERPC CP

## SIMATIC S7-300 ERPC CP

The following program blocks are available for the selected communications service:

Table 1- 30 FB56 / LOG\_TRIG

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE *)	<ul><li>V5.5</li><li>V12.0</li></ul>	Migration: OK; becomes LOGICAL_TRIG GER	New	-	-

<sup>\*)</sup> CP 343-1 ERPC

# 1.9 SIMATIC S7-300 PROFIBUS FMS

# SIMATIC S7-300 PROFIBUS FMS

Table 1-31 FB2 / IDENT

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.6<<	PB FMS	V3.1	Migration: _LF	BF	Expansion / correction of programming support for the ID parameter.	-
1.5	PB FMS	V5.0	Migration: _LF	BF	Disrupted FMS connection with fast cyclic call.	-
1.2	PB FMS	V5.1+SP2	Migration: _LF	X	-	Expansion of programming support for the ID parameter.
1.0	PB FMS	V5.3.1	Migration: _LF	New	-	-

# 1.9 SIMATIC S7-300 PROFIBUS FMS

Table 1- 32 FB3 / READ

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.5<<	PB FMS	V5.1+SP2	Migration: _LF	BF	Disrupted FMS connection with fast cyclic call.	-
1.4	PB FMS	V5.1+SP1	SCL-compliant Migration: _LF	BF	The variable name can now be specified as STRING (in data type ANY). This makes it possible to program with SCL.	-
1.2	PB FMS	V5.0	Migration: _LF	Х	-	Expansion of programming support for the ID parameter.
1.0	PB FMS	V3.1	Migration: _LF	New	-	-

Table 1- 33 FB4 / REPORT

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.6<<	PB FMS	V5.3.1	Migration: _LF	BF	Sporadically undefined behavior of the block or CP.	-
1.5	PB FMS	V5.1+SP2	Migration: _LF	BF	Disrupted FMS connection with fast cyclic call.	-
1.4	PB FMS	V5.1+SP1	SCL-compliant Migration: _LF	BF	The variable name can now be specified as STRING (in data type ANY). This makes it possible to program with SCL.	-
1.2	PB FMS	V5.0	Migration: _LF	Х	-	Expansion of programming support for the ID parameter.
1.0	PB FMS	V3.1	Migration: _LF	New	-	-

Table 1- 34 FB5 / STATUS

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.6<<	PB FMS	V5.1+SP2	Migration: _LF	BF	Disrupted FMS con- nection with fast cyclic call.	-
1.5	PB FMS	V5.3.1	Migration: _LF	BF	Expansion / correction of programming support for the ID parameter.	-
1.2	PB FMS	V5.0	Migration: _LF	Х	-	Expansion of programming support for the ID parameter.
1.0	PB FMS	V3.1	Migration: _LF	New	-	-

Table 1- 35 FB6 / WRITE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.6<<	PB FMS	V5.3.1	Migration: _LF	BF	Sporadically undefined behavior of the block or CP.	-
1.5	PB FMS	V5.1+SP2	Migration: _LF	BF	Disrupted FMS connection with fast cyclic call.	-
1.4	PB FMS	V5.1+SP1	SCL-compliant Migration: _LF	BF	The variable name can now be specified as STRING (in data type ANY). This makes it possible to program with SCL.	-
1.2	PB FMS	V5.0	Migration: _LF	Х	-	Expansion of programming support for the ID parameter.
1.0	PB FMS	V3.1	Migration: _LF	New	-	-

# 1.10 SIMATIC S7-300 S7 communication

# S7-300 S7 communication

Table 1- 36 FB8 / USEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	V5.3.1	Migration: _S	BF	<ul> <li>After continuous operation (approx. 2-20 hours)</li> <li>CP Stop -&gt; Start necessary.</li> <li>Family name changed to "CP300PBK" in STEP 7.</li> </ul>	-
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul> <li>Error when calling several blocks one after the other with fast CPUs.</li> <li>Family name changed to "CP300" in STEP 7.</li> </ul>	-
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

Table 1- 37 FB9 / URCV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	V5.3.1	Migration: _S	BF	After continuous operation (approx. 2-20 hours)     CP Stop -> Start necessary.	-
					Family name changed to "CP300PBK" in STEP 7.	
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul> <li>Error when calling several blocks one after the other with fast CPUs.</li> <li>Family name changed to "CP300" in STEP 7.</li> </ul>	-
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

Table 1- 38 FB12 / BSEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.4<<	PB + IE	V5.5	Migration: _LF	BF	When faster CPUs were used, there was sporadic deterioration in performance times.	-
1.2	PB + IE	V5.3.1	Migration: _OK	BF	After continuous operation (ap- prox. 2-20 hours) CP Stop -> Start necessary.	-
					Family name changed to "CP300PBK" in STEP 7.	

# 1.10 SIMATIC S7-300 S7 communication

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul> <li>Error when calling several blocks one after the other with fast CPUs.</li> <li>Family name changed to "CP300" in STEP 7.</li> </ul>	-
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

Table 1- 39 FB13 / BRCV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.4<<	PB + IE	V5.5	Migration: _LF	BF	When faster CPUs were used, there was sporadic deterioration in performance times.	-
1.2	PB + IE	V5.3.1 as of 8/04	Migration: _OK	BF	<ul> <li>After continuous operation (approx. 2-20 hours)</li> <li>CP Stop -&gt; Start necessary.</li> <li>Family name changed to "CP300PBK" in STEP 7.</li> </ul>	-
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul> <li>Error when calling several blocks one after the other with fast CPUs.</li> <li>Family name changed to "CP300" in STEP 7.</li> </ul>	-
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

Table 1- 40 FB14 / GET

Version	CP type	STEP 7 / NCM S7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.2<<	PB + IE	V5.3.1 as of 8/04	Migration: _S	BF	<ul> <li>After continuous operation (approx. 2-20 hours)</li> <li>CP Stop -&gt; Start necessary.</li> <li>Family name changed to "CP300PBK" in STEP 7.</li> </ul>	-
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul> <li>Error when calling several blocks one after the other with fast CPUs.</li> <li>Family name changed to "CP300" in STEP 7.</li> </ul>	-
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

# 1.10 SIMATIC S7-300 S7 communication

Table 1-41 FB15 / PUT

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	V5.3.1 as of 8/04	Migration: _S	BF	After continuous operation (approx. 2-20 hours)     CP Stop -> Start necessary.	•
					Family name changed to "CP300PBK" in STEP 7.	
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul> <li>Error when calling several blocks one after the other with fast CPUs.</li> <li>Family name changed to "CP300" in STEP 7.</li> </ul>	-
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

Table 1- 42 FC62 / C\_CNTRL

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	V5.3.1 as of 8/04	Migration: _OK	BF	Family name changed to "CP300PBK" in STEP 7.	-
1.1	PB + IE	V5.3	Migration: _OK	BF	Error when calling several blocks one after the other with fast CPUs.	-
					Family name changed to "CP300" in STEP 7.	
1.0	PB + IE	V5.1+SP2 +HF1	Migration: _LF	New	-	-

SIMATIC S7-400 **2** 

# 2.1 SIMATIC S7-400 SEND / RECEIVE (open communications services)

## SIMATIC S7-400 SEND / RECEIVE

Table 2- 1 FC5 / AG\_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	• V5.4 + SP5 • V12.0	Migration: OK	BF	Incorrect warning in the consistency check was removed.	-
1.1	PB + IE	V5.0	Migration: OK	х	-	Expansion of programming support for the ID and LADDR parameters.
0.3	PB + IE	V2.1	Send data length LEN ≤ 240 bytes. Migration: _LF	New	-	-

Table 2- 2 FC50 / AG\_LSEND

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>3.1<<	PB + IE	<ul><li>V5.5</li><li>V12.0</li></ul>	Migration: OK	I	-	-
3.0	PB + IE	V5.1	Migration: OK	BF	SEND (ANY) parameter: DWORD+WORD pointers are now correctly interpreted in L mode.	-
					Negative values for transfer data length (LEN ≤ 0) are rejected with a status condition code.	

# 2.1 SIMATIC S7-400 SEND / RECEIVE (open communications services)

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
2.3	PB + IE	V5.0+SP3	Migration: _LF	X	-	Expansion of programming support for the ID and LADDR parameters.
2.2	PB + IE	V4.x	Send data length for PB:     LEN ≤ 240 bytes.     Send data length for IE:     LEN > 240 bytes possible     Migration: _LF	New	-	-

## Table 2- 3 FC53 / AG\_SSEND

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	-	<ul><li>V5.5.3</li><li>V12.0</li></ul>	Migration: OK	BF	Can be used in the H system	-
1.0	IE	V5.4+SP3	Send data length LEN ≤ 1452 bytes. Migration: _LF	New	-	-

# Table 2- 4 FC6 / AG\_RECV

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	<ul><li>V5.4 + SP5</li><li>V12.0</li></ul>	Migration: OK	BF	Incorrect warning in the consistency check was removed.	-
1.1	PB + IE	V5.0	Migration: OK	X	-	Expansion of programming support for the ID and LADDR parameters.
0.3	PB + IE	V2.1	Receive data length LEN ≤ 240 bytes.	New	-	-
			Migration: _LF			

Table 2- 5 FC60 / AG\_LRECV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>3.1<<	PB + IE	<ul><li>V5.5</li><li>V12.0</li></ul>	Migration: OK	I	-	-
3.0	PB + IE	V5.1	Migration: OK	BF	RECV (ANY) parameter: DWORD + WORD pointers are now correctly interpreted in L mode.	-
2.4	PB + IE	V5.0+SP3	Migration: _LF	X	-	Expansion of programming support for the ID and LADDR parameters.
2.3	PB + IE	V4.x	PB: Tlen ≤ 240 bytes IE: Tlen > 240 bytes Migration: _LF	New	-	-

Table 2- 6 FC63 / AG\_SRECV

Version	CP type	STEP 7 ver-	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	-	<ul><li>V5.5.3</li><li>V12.0</li></ul>	Migration: OK	BF	Can be used in the H system	-
1.0	IE	V5.4+SP3	Received data length LEN ≤ 1452 bytes. Migration: _LF	New		

Table 2- 7 FC7 / AG\_LOCK

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	• V5.1	Migration: OK	New	-	-
		• V12.0				

Table 2-8 FC8 / AG\_UNLOCK

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	<ul><li>V5.1</li><li>V12.0</li></ul>	Migration: OK	New	-	-

# 2.1 SIMATIC S7-400 SEND / RECEIVE (open communications services)

Table 2-9 FC10 / AG\_CNTRL

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	• V5.4.0	Migration: OK	New	-	
		• V12.0				

## Table 2- 10 FB10 / AG\_CNTEX

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	• V5.5.3	Migration: OK	New	-	-
		• V12.0				

# 2.2 SIMATIC S7-400 FTP

# SIMATIC S7-400 FTP

Table 2- 11 FB40 / FTP\_CMD

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>2.2<<	CP 443-1 Advanced V3.2	• V5.5 + SP4 + HF8 + HSP 11 05	Migration: OK	X	-	Passive FTP (client establishes connection)
>>2.1<<	-	<ul><li>V5.5.4</li><li>V13.0</li></ul>	Migration: OK	Х	New: Exactly matching data areas can be specified for the IP address, user name and password with the "NAME_STR" parameter for commands 1+17	
>>2.0<<	-	<ul><li>V5.5.3</li><li>V12.0</li></ul>	Migration: OK	Х	-	Security functions
1.0	IE Advanced	• V5.4+S P4	FB40 replaces the functions FC40 - FC44. Migration: _LF	New	-	-

Table 2- 12 FC40 / FTP\_CONNECT

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	V5.1+SP1	Migration: _LF	New	-	-

Table 2- 13 FC41 / FTP\_STORE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	V5.1+SP1	Migration: _LF	New	-	-

# 2.2 SIMATIC S7-400 FTP

Table 2- 14 FC42 / FTP\_RETRIEVE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	V5.1+SP1	Migration: _LF	New	-	-

# Table 2- 15 FC43 / FTP\_DELETE

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	V5.1+SP1	Migration: _LF	New	-	-

#### Table 2- 16 FC44 / FTP\_QUIT

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	V5.1+SP1	Migration: _LF	New	-	-

# Table 2- 17 UDT1 / FILE\_DB\_HEADER

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE Advanced	<ul><li>V5.1+S P1</li><li>V12.0</li></ul>	Migration: _OK; be- comes FILE_DB_HE ADER	New	-	-

# 2.3 SIMATIC S7-400 IP\_CONFIG - programmed connections

# SIMATIC S7-400 IP\_CONFIG

Table 2- 18 FB55 / IP\_CONFIG

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.4<<	IE	<ul><li>V5.4+SP4</li><li>V12.0</li></ul>	Migration: OK	BF	Sporadic problems with large numbers of connections eliminated.	-
1.3	IE	V5.4+SP4	Migration: OK	BF	Multiple instance capability of the FB is now ensured.	-
1.2	E	V5.4	Migration: OK	BF	Execution optimized Bugs fixed when transferring parameters of invalid DB numbers or non- loaded DBs.	-
1.1	IE	V5.3+SP3	Migration: _LF	BF	Correction of various error messages	-
1.0	IE	V5.2+SP1+ HF1	Migration: _LF	New	-	-

# 2.4 SIMATIC S7-400 PROFINET CBA

# SIMATIC S7-400 PROFINET CBA

Table 2- 19 FB88 / PN\_InOut

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.3<<	IE	STEP 7 V5.3 SP3 with iMAP STEP 7 add-on V2.0+SP3 and SIMATIC iMap as of V2.0 SP1	The configuration requires SIMATIC iMAP. Migration: _LF	New	-	

Table 2- 20 FB90 / PN\_InOut\_Fast

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	STEP 7 V5.4 SP1 with iMAP STEP 7 add-on V3.0+SP1 and SIMATIC iMap as of V2.0 SP1	The configuration requires SIMATIC iMAP. FB90 is supported by all CPUs as of version V4.1. Migration: _LF	New	-	-

# 2.5 SIMATIC S7-400 PROFIBUS FMS

# **S7-400 PROFIBUS FMS**

Table 2- 21 FB2 / IDENT

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.4<<	PB FMS	V5.4 + SP5	Migration: _LF	BF	Incorrect warning in the consistency check was removed.	-
1.3	PB FMS	V5.0	Migration: _LF	X	-	Expansion of programming support for the ID parameter.
1.10	PB FMS	V3.1	Migration: _LF	New	-	-

Table 2- 22 FB3 / READ

Version	CP type	STEP 7 ver-	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.5<<	PB FMS	V5.1 + SP1	SCL-compliant Migration: _LF	BF	The variable name can now be specified as STRING (in data type ANY). This makes it possible to program with SCL.	-
1.3	PB FMS	V5.0	Migration: _LF	X	-	Expansion of programming support for the ID parameter.
1.10	PB FMS	V3.1	Migration: _LF	New	-	-

Table 2- 23 FB4 / REPORT

Version	CP type	STEP 7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.5<<	PB FMS	V5.1 + SP1	SCL-compliant Migration: _LF	BF	The variable name can now be specified as STRING (in data type ANY). This makes it possible to program with SCL.	-
1.3	PB FMS	V5.0	Migration: _LF	X	-	Expansion of programming support for the ID parameter.
1.10	PB FMS	V3.1	Migration: _LF	New	-	-

# 2.5 SIMATIC S7-400 PROFIBUS FMS

Table 2- 24 FB5 / STATUS

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.4<<	PB FMS	V5.4 + SP5	Migration: _LF	BF	Incorrect warning in the consistency check was removed.	-
1.3	PB FMS	V5.0	Migration: _LF	X+ F	various	Expansion of programming support for the ID parameter.
1.10	PB FMS	V3.1	Migration: _LF	New	-	-

#### Table 2- 25 FB6 / WRITE

Version	CP type	STEP 7 / NCM S7 ver- sion	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.5<<	PB FMS	V5.1 + SP1	SCL-compliant Migration: _LF	BF	The variable name can now be specified as STRING (in data type ANY). This makes it possible to program with SCL.	-
1.3	PB FMS	V3.1	Migration: _LF	Х	-	Expansion of programming support for the ID parameter.
1.10	PB FMS	V3.1	Migration: _LF	New	-	-

SIMATIC S7-1200 **3** 

# 3.1 SIMATIC S7-1200 Telecontrol

# SIMATIC S7-1200 Telecontrol

The following program blocks are available for the selected communications service.

Different versions of blocks of the same type cannot be used in a station.

Table 3-1 TC\_CON

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.2<<	CP 1242-7 V1.x	V13	-	I	-	-
1.1	CP 1242-7 V1.x	V12.0 SP1	-	BF	The value change of REQ is detected when BUSY = 1 and evaluated when DONE = 1.	-
1.0	CP 1242-7 V1.x	V11.0 SP2 Update 2	The value change of REQ is not detected in the BUSY status.	New	-	-

Table 3- 2 TC\_DISCON

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.2<<	CP 1242-7 V1.x	V13	-	I	-	-
1.1	CP 1242-7 V1.x	V12.0 SP1	-	BF	REQ (see TC_CON)	-
1.0	CP 1242-7 V1.x	V11.0 SP2 Update 2	REQ (see TC_CON)	New	-	-

# 3.1 SIMATIC S7-1200 Telecontrol

Table 3- 3 TC\_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.2<<	CP 1242-7 V1.x	V13	-	I	-	-
1.1	CP 1242-7 V1.x	V12.0 SP1	-	BF	REQ (see TC_CON)	-
1.0	CP 1242-7 V1.x	V11.0 SP2 Update 2	REQ (see TC_CON)	New	-	-

Table 3- 4 TC\_RECV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	GPRS	V12.0 SP1	-	BF	EN_R: After setting 1 to 0, the block is immediately inactive.	-
1.0	GPRS	V11.0 SP2 Update 2	EN_R: After setting 1 to 0, the block receives data again (until DONE and ERROR = 0).	New	-	-
			REQ (see TC_CON)			

Table 3- 5 TC\_CONFIG

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.2<<	CP 1242-7 V1.x	V13	-	1	-	-
1.1	CP 1242-7 V1.x	V12.0 SP1	-	BF	REQ (see TC_CON)	-
1.0	CP 1242-7 V1.x	V11.0 SP2 Update 2	REQ (see TC_CON)	New	-	-

SIMATIC S7-1500 4

# 4.1 SIMATIC S7-1500 Ethernet FTP

# SIMATIC S7-1500 FTP

Table 4- 1 FTP\_CMD

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.5<<	IE	V13.0	-	BF	Update/additions to the status displays	-
					Bug fixed in the evalua- tion of the parameters in the header of the referenced file DB	
1.2	IE	V12.0 SP1	-	BF	Program code improved	-
1.0	IE	V12.0	-	New	-	-

4.1 SIMATIC S7-1500 Ethernet FTP