

SIMATIC NET

Program blocks

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

Reference Manual

Preface

SIMATIC S7-300

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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.
 WARNING
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 + HSP 1104
 - STEP 7 Professional V14.0 + Update 2
- **S7-1200/1500**
 - STEP 7 Professional V13.0 + Update 4

New in this release

- New program blocks for SIMATIC S7-400 OPC UA
- 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:

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:

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":

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

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

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 style="list-style-type: none"> V5.2+SP1 V12.0 	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 _H (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	X	-	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	-	-

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. Migration: OK	BF	SEND (ANY) parameter: DWORD+WORD pointers are now correctly interpreted in L mode.	-
2.6	PB + IE	V5.0	Migration: _LF	X	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 style="list-style-type: none"> Internal initialization sequences expanded with test routines. Sequence of block call with ACT = 0 ("empty run") optimized. 	-
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 style="list-style-type: none"> V5.2+SP1 V12.0 	Migration: OK	BF	<p>Synchronization problem between program block and CP caused incorrect display in the block.</p> <p>Uncontrolled "0" bytes received is reported sporadically.</p> <p>Unexpected condition code Status = 80B1</p>	-
4.6	PB + IE	V5.2+SP1 (approx. M2003)	Migration: _LF	BF	<p>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.</p>	-
4.5	PB + IE	V5.1 + SP2 + HF1	Migration: _LF	BF	<p>When operating PROFINET and SEND/RECV at the same time, the condition code Status = 80C4H (communications error) is displayed with the RECV block after a few jobs.</p> <p>Undefined condition code (for example, Status = 34F0H) in mixed operation (for example SEND/RECV communication + diagnostics).</p>	-
4.3	PB + IE	V5.1+SP2	<p>"New" IE CPs TLEN > 240 bytes</p> <p>Notice: "Long data" can only be transferred in combination with IE CPs "..HX00.." and "..EX11".</p> <p>Migration: _LF</p>	X+BF	Length information for "long data" was incorrect.	Long data (> 240 bytes) with new IE CPs.

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	X	-	Expansion of programming support for the ID and LADDR parameters.
1.11	PB + IE	V2.1	Received data length LEN ≤ 240 bytes. Migration: _LF	New	-	-

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 Use the current version of AG_RECV.	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.
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 style="list-style-type: none"> PROFIBUS: LEN ≤ 240 bytes I. Ethernet: LEN > 240 bytes possible Migration: _LF	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 style="list-style-type: none"> V5.1 + SP2 + HF1 V12.0 	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 style="list-style-type: none"> V5.1 + SP2 + HF1 V12.0 	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 style="list-style-type: none"> V5.3.3 V12.0 	Migration: OK	BF	Calls with an invalid CMD were completed with DONE.	
1.0	IE	<ul style="list-style-type: none"> V5.3.3 	Migration: OK	New	-	-

Table 1- 8 FB10 / AG_CNTEX

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE	<ul style="list-style-type: none"> V5.5+SP4 V12.0 	Migration: OK	F	Multi-instance capability	
>>1.0<<	IE	<ul style="list-style-type: none"> V5.5+SP3 V12.0 	Migration: OK	New	-	-

1.2 SIMATIC S7-300 FTP

SIMATIC S7-300 FTP

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

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 Advanced V3.0.44	<ul style="list-style-type: none"> V5.5+S P4 V13.0 	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 style="list-style-type: none"> V5.5 V12.0 	Migration: OK	X		Security functions
1.0	IE Advanced	V5.4+SP4	Migration: _LF FB40 replaces the functions 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	<ul style="list-style-type: none"> • 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	-	-

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 style="list-style-type: none"> • V5.1+S P3 • V12.0 	Migration: _OK; becomes FILE_DB_HEADER	New	-	-

1.3 SIMATIC S7-300 IP_CONFIG - programmed connections

SIMATIC S7-300 IP_CONFIG

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

Table 1- 16 FB55 / IP_CONFIG

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.3<<	IE	<ul style="list-style-type: none"> • V5.4+SP4 • V12.0 	Migration: OK	BF	Multiple instance capability of the FB is now ensured.	-
1.1	IE	V5.3.3	Migration: OK	BF	<ul style="list-style-type: none"> • IP_CONFIG data block larger than 32 KB is accepted. • Correction of various block status messages 	-
1.0	IE	V5.2+SP1	Migration: _LF	New	-	-

1.4 SIMATIC S7-300 PROFINET IO

S7-300 PROFINET IO

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

Table 1- 17 FC11 / PNIO_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	IE	<ul style="list-style-type: none"> • V5.4+SP5 • V12.0 	Migration: OK	X	-	Enhancement for faster user data transfer
2.0	IE	V5.4+SP4	Migration: OK	X	-	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 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	IE	<ul style="list-style-type: none"> • V5.4+SP5 • V12.0 	Migration: OK	X	-	Enhancement for faster user data transfer
2.0	IE	V5.4+SP4	Migration: OK	X	-	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 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE	<ul style="list-style-type: none"> • V5.4+SP4 • V12.0 	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 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.1<<	IE	<ul style="list-style-type: none"> • V5.4+SP4 • V12.0 	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 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP2 • V12.0 	Migration: OK	New	-	-

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 style="list-style-type: none"> • V5.5+SP2 • V12.0 	Migration: OK	New	-	-

Table 1- 23 FB87 / PE_I_DEV_CP

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP2 • V12.0 	Migration: OK	New	-	-

Table 1- 24 FB53 / DS3_WRITE_CP

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP2 • V12.0 	Migration: OK; becomes PE_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

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

Table 1- 26 FC1 / DP_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul style="list-style-type: none"> • V5.1 • V12.0 	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	PB	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	PB	V2.1	Migration: _LF	New	-	-

Table 1- 27 FC2 / DP_RECV

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul style="list-style-type: none"> • V5.1 • V12.0 	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	PB	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	PB	V2.1	Migration: _LF	New	-	-

Table 1- 28 FC3 / DP_DIAG

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>3.0<<	PB	<ul style="list-style-type: none"> • V5.1 • V12.0 	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	PB	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	PB	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 style="list-style-type: none"> • V5.1 • V12.0 	Migration: OK	X	-	Enhanced protocol to ensure compatibility between new and older CP generation.
1.2	PB	V5.0	Migration: _LF	X	-	Expansion of programming support for the CPLADDR parameter.
1.11	PB	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 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE *)	<ul style="list-style-type: none"> • V5.5 • V12.0 	Migration: OK; becomes LOGICAL_TRIGGER	New	-	-

*) CP 343-1 ERPC

1.9 SIMATIC S7-300 PROFIBUS FMS

SIMATIC S7-300 PROFIBUS FMS

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

Table 1- 31 FB2 / IDENT

Version	CP type	STEP 7 version	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	-	-

Table 1- 32 FB3 / READ

Version	CP type	STEP 7 version	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	X	-	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 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	X	-	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 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.6<<	PB FMS	V5.1+SP2	Migration: _LF	BF	Disrupted FMS connection 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	X	-	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	X	-	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

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

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 style="list-style-type: none"> 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 style="list-style-type: none"> 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	-	-

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	<ul style="list-style-type: none"> 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 style="list-style-type: none"> 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	-	-

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	<ul style="list-style-type: none"> After continuous operation (approx. 2-20 hours) CP Stop -> Start necessary. Family name changed to "CP300PBK" in STEP 7. 	-

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
1.1	PB + IE	V5.3	Migration: _LF	BF	<ul style="list-style-type: none"> 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	-	-

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 style="list-style-type: none"> 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 style="list-style-type: none"> 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	-	-

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 style="list-style-type: none"> 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 style="list-style-type: none"> 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	-	-

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	<ul style="list-style-type: none"> 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 style="list-style-type: none"> 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	-	-

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	<ul style="list-style-type: none"> 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

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

SIMATIC S7-400 SEND / RECEIVE

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

Table 2-1 FC5 / AG_SEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	<ul style="list-style-type: none"> V5.4 + SP5 V12.0 	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	Send data length LEN ≤ 240 bytes. Migration: _LF	New	-	-

Table 2-2 FC50 / AG_LSEND

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>3.1<<	PB + IE	<ul style="list-style-type: none"> V5.5 V12.0 	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 version	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	<ul style="list-style-type: none"> 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 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	-	<ul style="list-style-type: none"> V5.5.3 V12.0 	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 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	PB + IE	<ul style="list-style-type: none"> V5.4 + SP5 V12.0 	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. Migration: _LF	New	-	-

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 style="list-style-type: none"> V5.5 V12.0 	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 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.2<<	-	<ul style="list-style-type: none"> V5.5.3 V12.0 	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 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	<ul style="list-style-type: none"> V5.1 V12.0 	Migration: OK	New	-	-

Table 2- 8 FC8 / AG_UNLOCK

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	<ul style="list-style-type: none"> V5.1 V12.0 	Migration: OK	New	-	-

Table 2- 9 FC10 / AG_CNTRL

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.4.0 • V12.0 	Migration: OK	New	-	

Table 2- 10 FB10 / AG_CNTEX

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Expanded functions
>>1.1<<	IE	<ul style="list-style-type: none"> • V5.5+SP4 • V12.0 	Migration: OK	New	Multi-instance capability	-
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP3 • V12.0 	Migration: OK	New	-	-

2.2 SIMATIC S7-400 FTP

SIMATIC S7-400 FTP

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

Table 2- 11 FB40 / FTP_CMD

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>2.3<<	CP 443-1 Advanced V3.2	<ul style="list-style-type: none"> V5.5+S P4 V13.0 	Migration: OK	X	Error message "DB not loaded" no longer appears with passive FTP	
2.2	CP 443-1 Advanced V3.2	<ul style="list-style-type: none"> V5.5 + SP4 + HF8 + HSP 11 05 	Migration: OK	X	-	Passive FTP (client establishes connection)
2.1	-	<ul style="list-style-type: none"> V5.5.4 V13.0 	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 style="list-style-type: none"> V5.5.3 V12.0 	Migration: OK	X	-	Security functions
1.0	IE Advanced	<ul style="list-style-type: none"> 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	-	-

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 style="list-style-type: none"> • V5.1+SP1 • V12.0 	Migration: _OK; becomes FILE_DB_HEADER	New	-	-

2.3 SIMATIC S7-400 IP_CONFIG - programmed connections

SIMATIC S7-400 IP_CONFIG

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

Table 2- 18 FB55 / IP_CONFIG

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.4<<	IE	<ul style="list-style-type: none"> • V5.4+SP4 • V12.0 	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	IE	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

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

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

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

Table 2- 21 FB2 / IDENT

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	-	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 version	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 version	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- 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 version	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	X	-	Expansion of programming support for the ID parameter.
1.10	PB FMS	V3.1	Migration: _LF	New	-	-

2.6 SIMATIC S7-400 OPC UA

SIMATIC S7-400 OPC UA

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

Table 2- 26 FB230 / UA_Connect

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Update 2 	Migration: OK	New	-	-

Table 2- 27 FB231 / UA_NamespaceGetIndex

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 28 FB232 / UA_NodeGetHandleList

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 29 FB233 / UA_NodeReleaseHandleList

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 30 FB234 / UA_Disconnect

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 31 FB235 / UA_ReadList

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> V5.5+SP4+HF8+HS P 1104 V14.0+Update 2 	Migration: OK	New	-	-

Table 2- 32 FB236 / UA_WriteList

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	IE	<ul style="list-style-type: none"> V5.5+SP4+HF8+HS P 1104 V14.0+Update 2 	Migration: OK	New	-	-

Table 2- 33 UDT751 / UASessionConnectInfo

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none"> V5.5+SP4+HF8+HS P 1104 V14.0+Update 2 	Migration: OK	New	-	-

Table 2- 34 UDT752 / UAUserIdentityToken

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none"> V5.5+SP4+HF8+HS P 1104 V14.0+Update 2 	Migration: OK	New	-	-

Table 2- 35 UDT753 / UANodeID

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 36 UDT754 / UA NodeAdditionalInfo

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 37 UDT755 / UAIndexRange

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 38 UDT756 / UATimeStamp

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none"> • V5.5+SP4 +HF8+HS P 1104 • V14.0+Up date 2 	Migration: OK	New	-	-

Table 2- 39 UDT757 / UAAnyPointer

Version	CP type	STEP 7 version	Remarks	Reason for change	Bugs fixed	Enhanced functions
>>1.0<<	OPC UA	<ul style="list-style-type: none">V5.5+SP4+HF8+HSP 1104V14.0+Update 2	Migration: OK	New	-	-

SIMATIC S7-1200

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	-	-

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). REQ (see TC_CON)	New	-	-

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	-	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	-	-

SIMATIC S7-1500

4.1 SIMATIC S7-1500 Ethernet FTP

SIMATIC S7-1500 FTP

The following program block is available for the selected communications service:

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 evaluation 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	-	-

