

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

## 6ES7416-3FS06-0AB0

FAIL-SAFE CENTRAL PROCESSING UNIT

Used with the applicable PLC System configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation

## 64.3 Confirmation

If data is transferred there are different feedback messages (confirmations) to the STEP 7 user program.

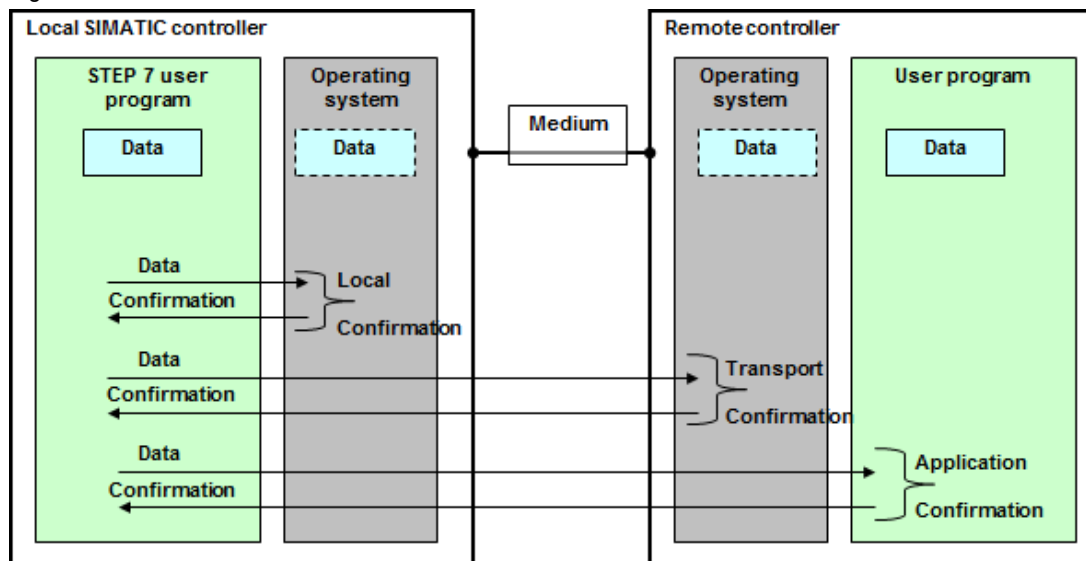
In the document the following confirmations are distinguished:

Table 64-2

| Confirmation | Meaning                                                                            | Comments                                                                            |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| local        | The data is located in the operating system (CPU, CP, CM) of the local controller  | No statement on whether the data was transferred via the medium (PROFINET/IE, ...). |
| Transport    | The data is located in the operating system (CPU, CP, CM) of the remote controller | The data was transferred via the medium (PROFINET/IE, ...).                         |
| Application  | The data is located in the application of the remote controller.                   |                                                                                     |

The following figure illustrates the relationships:

Figure 64-1



## 65 Discussed Components

Here, the components are listed which were considered in the document (as of March 2013).

### 65.1 SIMATIC CPU

Table 65-1

| Family     | CPU                                  |                      | MLFB                                         | Version |
|------------|--------------------------------------|----------------------|----------------------------------------------|---------|
| ET 200 CPU | ET 200S                              | IM151-8(F) PN/DP CPU | 6ES7 151-8AB01-0AB0<br>(6ES7 151-8FB01-0AB0) | FW V3.2 |
|            |                                      | IM151-7(F) CPU       | 6ES7 151-7AA21-0AB0<br>(6ES7 151-7FA21-0AB0) | FW V3.3 |
|            | ET 200Pro                            | IM154-8(F) PN/DP CPU | 6ES7 154-8AB01-0AB0<br>(6ES7 154-8FB01-0AB0) | FW V3.2 |
| S7-300     | CPU 312                              |                      | 6ES7 312-1AE14-0AB0                          | FW V3.3 |
|            | CPU 314                              |                      | 6ES7 314-1AG14-0AB0                          | FW V3.3 |
|            | CPU 312C                             |                      | 6ES7 312-5BF04-0AB0                          | FW V3.3 |
|            | CPU 313C                             |                      | 6ES7 313-5BG04-0AB0                          | FW V3.3 |
|            | CPU 313C-2 DP                        |                      | 6ES7 313-6CG04-0AB0                          | FW V3.3 |
|            | CPU 314C-2 DP                        |                      | 6ES7 314-6CH04-0AB0                          | FW V3.3 |
|            | CPU 313C-2 PtP                       |                      | 6ES7 313-6BG04-0AB0                          | FW V3.3 |
|            | CPU 314C-2 PtP                       |                      | 6ES7 314-6BH04-0AB0                          | FW V3.3 |
|            | CPU 314C-2 PN/DP                     |                      | 6ES7 314-6EH04-0AB0                          | FW V3.3 |
|            | CPU 315(F)-2 DP                      |                      | 6ES7 315-2AH14-0AB0<br>(6ES7 315-6FF04-0AB0) | FW V3.3 |
|            | CPU 317(F)-2 DP                      |                      | 6ES7 317-2AK14-0AB0<br>(6ES7 317-6FF04-0AB0) | FW V3.3 |
|            | CPU 315(F)-2 PN/DP                   |                      | 6ES7 315-2EH14-0AB0<br>(6ES7 315-2FJ14-0AB0) | FW V3.2 |
|            | CPU 317(F)-2 PN/DP                   |                      | 6ES7 317-2EK14-0AB0<br>(6ES7 317-2FK14-0AB0) | FW V3.2 |
|            | CPU 319(F)-3 PN/DP                   |                      | 6ES7 318-3EL01-0AB0<br>(6ES7 318-3FL01-0AB0) | FW V3.2 |
| S7-400     | CPU 412-1 (MPI/DP)                   |                      | 6ES7 412-1XJ05-0AB0                          | FW V5.3 |
|            | CPU 412-2 (MPI/DP, DP)               |                      | 6ES7 412-2XJ05-0AB0                          | FW V5.3 |
|            | CPU 412-2 PN (MPI/DP, PN)            |                      | 6ES7412-2EK06-0AB0                           | FW V6.0 |
|            | CPU 414-2 (MPI/DP, DP)               |                      | 6ES7 414-2XK05-0AB0                          | FW V5.3 |
|            | CPU 414-3 (MPI/DP, DP, IFM)          |                      | 6ES7 414-3XM05-0AB0                          | FW V5.3 |
|            | CPU 414(F)-3 PN/DP (MPI/DP, PN, IFM) |                      | 6ES7 414-3EM06-0AB0<br>(6ES7 414-3FM06-0AB0) | FW V6.0 |
|            | CPU 416(F)-2 (MPI/DP, DP)            |                      | 6ES7 416-2XN05-0AB0<br>(6ES7 416-2FN05-0AB0) | FW V5.3 |
|            | CPU 416-3 MPI/DP, DP, IFM)           |                      | 6ES7 416-3XR05-0AB0                          | FW V5.3 |
|            | CPU 416(F)-3 PN/DP (MPI/DP, PN, IFM) |                      | 6ES7 416-3ES06-0AB0<br>(6ES7 416-3FS06-0AB0) | FW V6.0 |
|            | CPU 417-4 (MPI/DP, DP, IFM, IFM)     |                      | 6ES7 417-4XT05-0AB0                          | FW V5.3 |

| Family        | CPU                                  | MLFB                                         | Version |
|---------------|--------------------------------------|----------------------------------------------|---------|
| S7-1200       | CPU 1211C                            | 6ES7211-xx31-0XB0                            | FW V3.0 |
|               | CPU 1212C                            | 6ES7212-xx31-0XB0                            | FW V3.0 |
|               | CPU 1214C                            | 6ES7214-xx31-0XB0                            | FW V3.0 |
|               | CPU1215C                             | 6ES7215-xx31-0XB0                            | FW V3.0 |
| S7-1500       | CPU 1511-1 PN                        | 6ES7511-1AK00-0AB0                           | FW V1.0 |
|               | CPU 1513-1 PN                        | 6ES7513-1AL00-0AB0                           | FW V1.0 |
|               | CPU 1516-3 PN/DP                     | 6ES7516-1AN00-0AB0                           | FW V1.0 |
| S7-mEC (*1)   | EC31-RTX (F)                         | 6ES7677-1DD10-0BB0<br>(6ES7677-1FD10-0FB0)   | 08/2010 |
| Box PC (*1)   | SIMATIC embedded bundles (with RTX): | IPC2x7D, IPC4x7C                             |         |
| Panel PC (*1) | SIMATIC embedded bundles (with RTX): | IPC277D, IPC477C                             |         |
| WinAC RTX     | WinAC RTX (F) 2010 (software)        | 6ES7 671-0RC08-0YA0<br>(6ES7 671-1RC08-0YA0) | V4.6    |

(\*1): with WinAC RTX (F) 2010 as software controller