

STATYS

Jbus / Modbus serial link



INDEX

| | |
|---|----------|
| 1. FOREWORD | 3 |
| 2. SAFETY REQUIREMENT | 3 |
| 2. 1. USING CONDITIONS | 3 |
| 2. 2. STATYS OPERATING REFERENCE | 3 |
| 3. ENVIRONMENT | 3 |
| 3. 1. RECYCLING OF ELECTRICAL PRODUCTS AND EQUIPMENT | 3 |
| 4. INTRODUCTION | 4 |
| 4. 1. GENERAL PURPOSE | 4 |
| 4. 2. JBUS/MODBUS PROTOCOL | 4 |
| 4. 3. DATA DECODING | 4 |
| 5. JBUS/MODBUS SERIAL INTERFACE INSTALLATION INSIDE STATYS | 5 |
| 5. 1. 'COM-SLOTS' LOCALISATION | 5 |
| 5. 2. JBUS/MODBUS SERIAL INTERFACE PLUG IN | 5 |
| 5. 3. CONNECTIONS AND WIRING | 6 |
| 6. JBUS/MODBUS LINK | 7 |
| 6. 1. SERIAL LINK 1 AND 2 DEFAULT SETTINGS | 7 |
| 6. 2. HOW TO CHANGE THE SERIAL LINK SETTINGS ? | 7 |
| 7. JBUS/MODBUS PROTOCOL | 8 |
| 8. STATYS JBUS/MODBUS TABLES | 8 |
| 8. 1. HOW TO READ DATA: | 8 |
| 8. 2. INCOMING DATA STRUCTURE: | 8 |
| 8. 3. STATES TABLES: STARTING ADDRESS 0x0140, 4 WORDS | 9 |
| 8. 4. ALARMS TABLES: STARTING ADDRESS 0x0148, 2 WORDS | 11 |
| 8. 5. MEASUREMENTS TABLES: STARTING ADDRESS 0x0220, 64 WORDS | 12 |
| 8. 6. PERMISSIONS TABLES: STARTING ADDRESS 0x0150, 1 WORDS | 14 |
| 8. 7. COMMANDS TABLES: STARTING ADDRESS 0x0190, WRITE 1 WORDS | 14 |

1. FOREWORD

Thank you for the trust you have in our Static Transfer System.

This equipment complies with the IEC 62310-2 product standard concerning Static Transfer Systems (STS).

CAUTION : "This is a product for restricted sales distribution to informed partners. Installation restrictions or additional measures may be needed to prevent disturbances".

 **SOCOMECS UPS reserves the right to modify their specifications at any time as far as this contributes to technical progress.**

2. SAFETY REQUIREMENT

2.1. USING CONDITIONS

Do read carefully these operation instructions before using the JBUS/MODBUS interface.

Whatever the repairs, they must be made only by authorised staffs, which have been suitably trained. It is recommended that the ambient temperature and humidity of the STATYS environment are maintained below the values specified by the manufacturer.

2.2. STATYS OPERATING REFERENCE

Respect the safety requirements.

Do read carefully the operation instructions of STATYS.

For an optimal operation, it is recommended to maintain the ambient temperature and humidity of the STATYS environment below the values specified by the manufacturer.

This equipment meets the requirements of the European directives applied to this product. As a consequence it is labelled as follows:



3. ENVIRONMENT

3.1. RECYCLING OF ELECTRICAL PRODUCTS AND EQUIPMENT

Provision is made in European countries to break up and recycle materials making up the system. The various components must be disposed of in accordance with the legal provisions in force in the country where the system is installed.

4. INTRODUCTION

4.1. GENERAL PURPOSE

This document provides required information of the JBUS/MODBUS protocol serial link.

Before connecting a supervision equipment or BMS system (Building management system) to the STATYS, it is necessary to install and set up the serial interface.

This interface is located in the STATYS « com-slot », and should be set through the control panel or via the graphic touch screen (optional).

STATYS is able to manage only 1 JBUS/MODBUS serial links.

4.2. JBUS/MODBUS PROTOCOL

This document does not explain the JBUS/MODBUS protocol management. Please refer on www.modbus.org web site for more information.

The STATYS JBUS/MODBUS uses the following functions :

- function 3 for reading Input Registers (16 bits),
- function 6 for writing single Registers (to control STATYS).

The data field is composed of words, defined by a MSB (most significant byte) and a LSB (lowest significant byte), and displayed in the following order on the serial link.

| 1 WORD DATA | | | | |
|-------------|-----|----|----|-----|
| b7 | MSB | b0 | b7 | LSB |
| b15 | | | | b0 |

4.3. DATA DECODING

Status and alarms Information

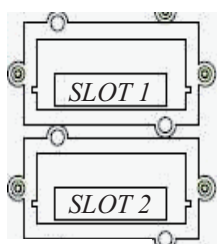
This information are coding in bit. This means that 1 word defines 16 information. If the related bit is set to 1, this information is active or true.

Measurements and counters data

1 word defines a measurement or a counter. Some values are numeric decimal signed or unsigned (0 to 65535 or from -32767 to 32767), or in hexadecimal (0x0000 to 0xFFFF).

5. JBUS/MODBUS SERIAL INTERFACE INSTALLATION INSIDE STATYS

5.1. 'COM-SLOTS' LOCALISATION

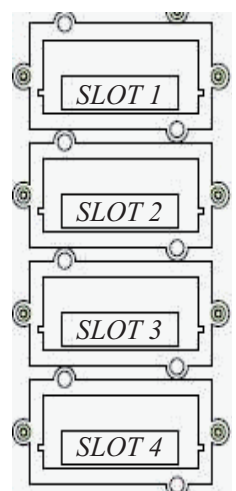


STATYS 63/100A rack:
2 Com-Slots are present at the rear of the fixed unit, the slot 1 receive the serial card.



STATYS 32/63A rack:
only 1 Com-Slots is present at the rear of the products and receive the serial card.

STATYS 200/600A:
4 Com-Slots are present on the rack slot, in front of the cabinet, the slot 1 receive the serial card.



5.2. JBUS/MODBUS SERIAL INTERFACE PLUG IN

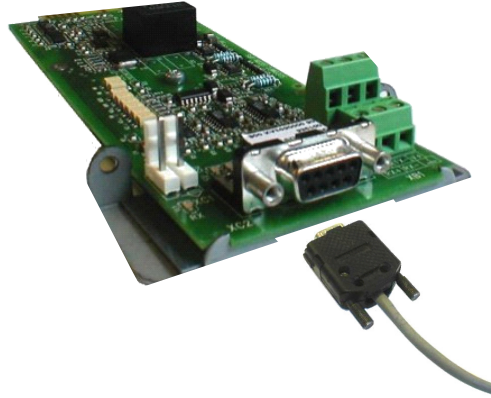
The serial interface should be plugged in the corresponding slot, and fixed with 2 screws. STATYS is able to manage only 1 JBUS/MODBUS interfaces.

5.3. CONNECTIONS AND WIRING

NOTE : there is only one connection per interface (RS232 or RS422 or RS485)

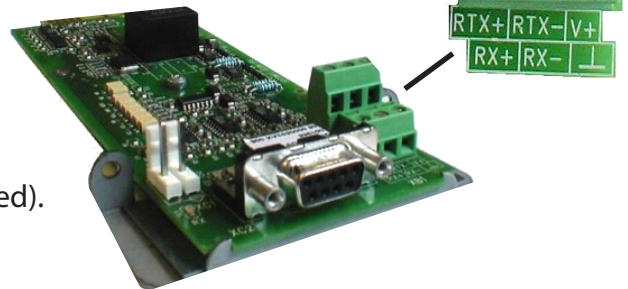
5.3.1. RS232 connection:

- Standard PC connection
- Sub-D 9 pins connector
- Pin 2 : Rx
- Pin 3 : Tx
- Pin 5 : GND



5.3.2. Isolated RS485 connection

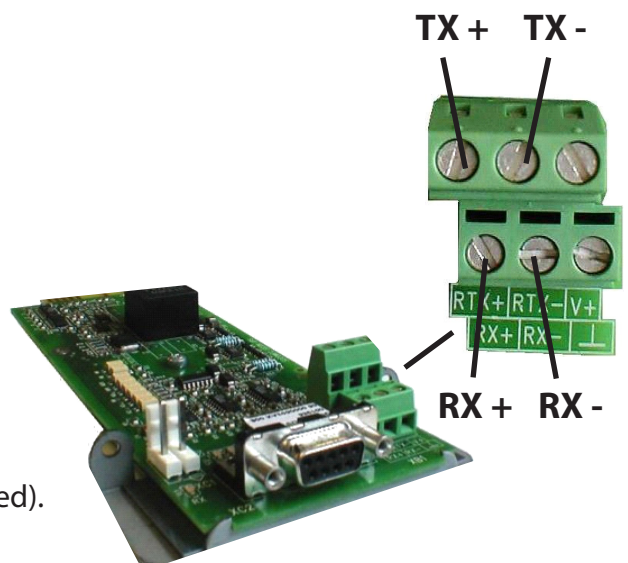
- 2 wires connection
- « dip-switch 1 » allows connecting the terminal resistor
- Isolation via "opto-coupler"
- 2 polarization resistors could be removed easily (if needed).



the shield should be earthing at one point.

5.3.3. Isolated RS422 connection

- 4 wires connection
- « dip-switch 1 and 2 » allows connecting the terminal resistor
- Isolation via "opto-coupler"
- 4 polarization resistors could be removed easily (if needed).



the shield should be earthing at one point.



Before making any connection, please check the cabling. A wrong connection or cabling can damage the serial link interface.

6. JBUS/MODBUS LINK

6.1. SERIAL LINK 1 AND 2 DEFAULT SETTINGS

Baud rate: 9600 bauds
 Parity: NONE
 Data: 8 bits
 Stop: 1 bit
 Slave: 1

The serial link settings can be set from the control panel or from the graphic touch screen.

6.2. HOW TO CHANGE THE SERIAL LINK SETTINGS ?

Available baud rate: 4800 - 9600 - 19200 bauds
 Parity: EVEN - ODD - NONE
 Slave number: 1 to 255

Settings menu of the LCD mimic panel type D20 (see the operating manual):

Modbus link configuration (user access)

Display: mod bus

Slave number

Display: sla nb

Default value: 1

Possible choice: 1 to 255

Link speed

Display: bds

Default value: 9600

Possible choice: 2400, 4800, 9600 or 19200

Link parity

Display: par

Default value: no

Possible choice: odd, eve (even) or no

Settings screen of the Graphic mimic panel type ADICOM (see the operating manual):



«Type» should be setup at Modbus mode.

7. JBUS/MODBUS PROTOCOL

Reminder:

The JBUS/MODBUS protocol available on STATYS is slave and in RTU mode.

It uses the function 3 as 'read registers' and the function 6 as 'write register'.

The slave number is set via the control panel or via the graphic touch screen.

Conventions:

The table addresses are written in hexadecimal, beginning with '0x'.

Some PLC systems request a relative address starting from 400 (0x0190) or 40001 (0x9C41), on this address it's necessary to add the first address of the JBUS/MODBUS table.

Frame errors management:

In case of wrong data request, the STATYS answers with the following frame error :

| Error function code | Error code | Cause |
|---------------------|------------|----------------------|
| 80 + code function | 1 | Function error |
| 80 + code function | 2 | Addresses error |
| 80 + code function | 3 | Wrong data |
| 80 + code function | 6 | busy |
| 80 + code function | 8 | Write register error |

8. STATYS JBUS/MODBUS TABLES

| § | TABLE | Start addresses | Table length in words | JBUS/MODBUS FUNCTION |
|---|--------------|-----------------|-----------------------|----------------------|
| 1 | States | 0x0140 | 4 | 3 READ |
| 2 | Alarms | 0x0148 | 2 | 3 READ |
| 3 | Measurements | 0x0220 | 64 | 3 READ |
| 4 | Permissions | 0x0150 | 1 | 3 READ |
| 5 | Commands | 0x0190 | 1 | 6 WRITE |

8.1. HOW TO READ DATA:

The identification, status and alarms tables should be read completely (this means the number of word to read is equal to the table length).

The measurements table should be read word by word or per group, without exceed the length of the table. (from 0x0220 to 0x025F).

8.2. INCOMING DATA STRUCTURE:

Example of 6 words

| | | | | | | | | | | | |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| MSB 0 | LSB 0 | MSB 1 | LSB 1 | MSB 2 | LSB 2 | MSB 3 | LSB 3 | MSB 4 | LSB 4 | MSB 5 | LSB 5 |
| WORD 0 | | WORD 1 | | WORD 2 | | WORD 3 | | WORD 4 | | WORD 5 | |
| b15 | b0 | b15 | b0 | b15 | b0 | b15 | b0 | b15 | b0 | b15 | b0 |
| S15 | S00 | S31 | S16 | S47 | S32 | S63 | S48 | | | | |
| A15 | A00 | A31 | A16 | | | | | | | | |
| M00 | | M01 | | M02 | | M03 | | M04 | | M05 | |

8.3. STATES TABLES: STARTING ADDRESS 0x0140, 4 WORDS

| CODE | DESCRIPTION | BIT | ADDRESS | Remarks |
|------|---------------------------|-----|---------|---------|
| S00 | Source 1 OK | 0 | 0x0140 | |
| S01 | Source 1 critical | 1 | 0x0140 | |
| S02 | Source 1 out of tolerance | 2 | 0x0140 | |
| S03 | Source 1 absent | 3 | 0x0140 | |
| S04 | PowerPath 1 OK | 4 | 0x0140 | |
| S05 | | 5 | 0x0140 | |
| S06 | Source 2 OK | 6 | 0x0140 | |
| S07 | Source 2 critical | 7 | 0x0140 | |
| S08 | Source 2 out of tolerance | 8 | 0x0140 | |
| S09 | Source 2 absent | 9 | 0x0140 | |
| S10 | PowerPath 2 OK | 10 | 0x0140 | |
| S11 | | 11 | 0x0140 | |
| S12 | Srcs perm. Synchronised | 12 | 0x0140 | |
| S13 | Sliding Sources | 13 | 0x0140 | |
| S14 | Srcs perm. Not Synchron. | 14 | 0x0140 | |
| S15 | Srcs Instant. Synchron. | 15 | 0x0140 | |
| S16 | S1 is preferred source | 0 | 0x0141 | |
| S17 | Load on preferred source | 1 | 0x0141 | |
| S18 | Load on auxiliary source | 2 | 0x0141 | |
| S19 | Load not supplied | 3 | 0x0141 | |
| S20 | Load on manual by-pass1 | 4 | 0x0141 | |
| S21 | Load on manual by-pass2 | 5 | 0x0141 | |
| S22 | | 6 | 0x0141 | |
| S23 | Load on S1 | 7 | 0x0141 | |
| S24 | Load on S2 | 8 | 0x0141 | |
| S25 | | 9 | 0x0141 | |
| S26 | Transfer locked ext. | 10 | 0x0141 | |
| S27 | | 11 | 0x0141 | |
| S28 | Output OK | 12 | 0x0141 | |
| S29 | Output out of tolerance | 13 | 0x0141 | |
| S30 | Output absent | 14 | 0x0141 | |
| S31 | | 15 | 0x0141 | |

| CODE | DESCRIPTION | BIT | ADDRESS | Remarks |
|------|-------------------------|-----|---------|---------|
| S32 | ESD input active | 0 | 0x0142 | |
| S33 | Q41 closed | 1 | 0x0142 | |
| S34 | Q42 closed | 2 | 0x0142 | |
| S35 | SS1 closed | 3 | 0x0142 | |
| S36 | SS2 closed | 4 | 0x0142 | |
| S37 | Q30 closed | 5 | 0x0142 | |
| S38 | Q51 closed | 6 | 0x0142 | |
| S39 | Q52 closed | 7 | 0x0142 | |
| S40 | | 8 | 0x0142 | |
| S41 | | 9 | 0x0142 | |
| S42 | | 10 | 0x0142 | |
| S43 | | 11 | 0x0142 | |
| S44 | | 12 | 0x0142 | |
| S45 | Remote controls enabled | 13 | 0x0142 | |
| S46 | Maintenance alert | 14 | 0x0142 | |
| S47 | User mode | 15 | 0x0142 | |
| S48 | Board 1 input 1 active | 0 | 0x0143 | |
| S49 | Board 1 input 2 active | 1 | 0x0143 | |
| S50 | Board 1 input 3 active | 2 | 0x0143 | |
| S51 | Board 2 input 1 active | 3 | 0x0143 | |
| S52 | Board 2 input 2 active | 4 | 0x0143 | |
| S53 | Board 2 input 3 active | 5 | 0x0143 | |
| S54 | Board 3 input 1 active | 6 | 0x0143 | |
| S55 | Board 3 input 2 active | 7 | 0x0143 | |
| S56 | Board 3 input 3 active | 8 | 0x0143 | |
| S57 | Board 4 input 1 active | 9 | 0x0143 | |
| S58 | Board 4 input 2 active | 10 | 0x0143 | |
| S59 | Board 4 input 3 active | 11 | 0x0143 | |
| S60 | | 12 | 0x0143 | |
| S61 | | 13 | 0x0143 | |
| S62 | | 14 | 0x0143 | |
| S63 | | 15 | 0x0143 | |

8. 4. ALARMS TABLES: STARTING ADDRESS 0x0148, 2 WORDS

| CODE | DESCRIPTION | BIT | ADDRESS | Remarks |
|------|---------------------------|-----|---------|---------|
| A00 | Imminent stop | 0 | 0x0148 | |
| A01 | Output Isc detection | 1 | 0x0148 | |
| A02 | Manual By-Pass | 2 | 0x0148 | |
| A03 | Overload | 3 | 0x0148 | |
| A04 | | 4 | 0x0148 | |
| A05 | Consecutive Detections | 5 | 0x0148 | |
| A06 | Switchback impossible | 6 | 0x0148 | |
| A07 | Transfer impossible | 7 | 0x0148 | |
| A08 | | 8 | 0x0148 | |
| A09 | PowerPath1 deteriorated | 9 | 0x0148 | |
| A10 | PowerPath1 short circuit | 10 | 0x0148 | |
| A11 | PowerPath1 in failure | 11 | 0x0148 | |
| A12 | | 12 | 0x0148 | |
| A13 | PowerPath2 deteriorated | 13 | 0x0148 | |
| A14 | PowerPath2 short circuit | 14 | 0x0148 | |
| A15 | PowerPath2 in failure | 15 | 0x0148 | |
| A16 | Backfeed1 protection open | 0 | 0x0149 | |
| A17 | Backfeed2 protection open | 1 | 0x0149 | |
| A18 | Ambient temperature max | 2 | 0x0149 | |
| A19 | | 3 | 0x0149 | |
| A20 | Insufficient resources | 4 | 0x0149 | |
| A21 | | 5 | 0x0149 | |
| A22 | | 6 | 0x0149 | |
| A23 | | 7 | 0x0149 | |
| A24 | | 8 | 0x0149 | |
| A25 | | 9 | 0x0149 | |
| A26 | Configuration Alarm | 10 | 0x0149 | |
| A27 | HMI Alarm | 11 | 0x0149 | |
| A28 | Electronics | 12 | 0x0149 | |
| A29 | Custom input alarm | 13 | 0x0149 | |
| A30 | Preventive alarm | 14 | 0x0149 | |
| A31 | General Alarm | 15 | 0x0149 | |

8. 5. MEASUREMENTS TABLES: STARTING ADDRESS 0x0220, 64 WORDS

| CODE | DESCRIPTION | Unit | ADDRESS | Remarks |
|------|-----------------------|------|---------|---------|
| M00 | S1 voltage L1N | V | 0x0220 | |
| M01 | S1 voltage L2N | V | 0x0221 | |
| M02 | S1 voltage L3N | V | 0x0222 | |
| M03 | S1 voltage U12 | V | 0x0223 | |
| M04 | S1 voltage U23 | V | 0x0224 | |
| M05 | S1 voltage U31 | V | 0x0225 | |
| M06 | S1 frequency | Hz | 0x0226 | |
| M07 | SS1 temperature | °C | 0x0227 | |
| M08 | S2 voltage L1 | V | 0x0228 | |
| M09 | S2 voltage L2 | V | 0x0229 | |
| M10 | S2 voltage L3 | V | 0x022A | |
| M11 | S2 voltage U12 | V | 0x022B | |
| M12 | S2 voltage U23 | V | 0x022C | |
| M13 | S2 voltage U31 | V | 0x022D | |
| M14 | S2 frequency | Hz | 0x022E | |
| M15 | SS2 temperature | °C | 0x022F | |
| M16 | Output voltage L1 | V | 0x0230 | |
| M17 | Output voltage L2 | V | 0x0231 | |
| M18 | Output voltage L3 | V | 0x0232 | |
| M19 | Output voltage U12 | V | 0x0233 | |
| M20 | Output voltage U23 | V | 0x0234 | |
| M21 | Output voltage U31 | V | 0x0235 | |
| M22 | Output frequency | Hz | 0x0236 | |
| M23 | | | 0x0237 | |
| M24 | Output current I1 | A | 0x0238 | |
| M25 | Output current I2 | A | 0x0239 | |
| M26 | Output current I3 | A | 0x023A | |
| M27 | Output current IN | A | 0x023B | |
| M28 | | | 0x023C | |
| M29 | Output load rate | % | 0x023D | |
| M30 | | | 0x023E | |
| M31 | S1-S2 phase shift | ° | 0x023F | |
| M32 | Output Apparent P. L1 | KVA | 0x0240 | |

| CODE | DESCRIPTION | Unit | ADDRESS | Remarks |
|------|------------------------|------|---------|---------|
| M33 | Output Apparent P. L2 | KVA | 0x0241 | |
| M34 | Output Apparent P. L3 | KVA | 0x0242 | |
| M35 | Output Power factor L1 | | 0x0243 | |
| M36 | Output Power factor L2 | | 0x0244 | |
| M37 | Output Power factor L3 | | 0x0245 | |
| M38 | | | 0x0246 | |
| M39 | | | 0x0247 | |
| M40 | Output crest factor L1 | | 0x0248 | |
| M41 | Output crest factor L2 | | 0x0249 | |
| M42 | Output crest factor L3 | | 0x024A | |
| M43 | Output crest factor N | | 0x024B | |
| M44 | | | 0x024C | |
| M45 | | | 0x024D | |
| M46 | | | 0x024E | |
| M47 | Ambient temperature | °C | 0x024F | |
| M48 | Output Active Power L1 | KW | 0x0250 | |
| M49 | Output Active Power L2 | KW | 0x0251 | |
| M50 | Output Active Power L3 | KW | 0x0252 | |
| M51 | Global Active Power | KW | 0x0253 | |
| M52 | | | 0x0254 | |
| M53 | | | 0x0255 | |
| M54 | | | 0x0256 | |
| M55 | | | 0x0257 | |
| M56 | Output load rate L1 | % | 0x0258 | |
| M57 | Output load rate L2 | % | 0x0259 | |
| M58 | Output load rate L3 | % | 0x025A | |
| M59 | Output load rate N | % | 0x025B | |
| M60 | | | 0x025C | |
| M61 | | | 0x025D | |
| M62 | | | 0x025E | |
| M63 | | | 0x025F | |

8. 6. PERMISSIONS TABLES: STARTING ADDRESS 0x0150, 1 WORDS

| CODE | DESCRIPTION | BIT | ADDRESS | Remarks |
|------|------------------------|-----|---------|---------|
| P00 | Close SSP | 0 | 0x0150 | |
| P01 | Close SSA | 1 | 0x0150 | |
| P02 | Close SS1 | 2 | 0x0150 | |
| P03 | Close SS2 | 3 | 0x0150 | |
| P04 | S1 is preferred source | 4 | 0x0150 | |
| P05 | S2 is preferred source | 5 | 0x0150 | |
| P06 | | 6 | 0x0150 | |
| P07 | Lock transfer ext. | 7 | 0x0150 | |
| P08 | Unlock transfer ext. | 8 | 0x0150 | |
| P09 | | 9 | 0x0150 | |
| P10 | Allows remote controls | 10 | 0x0150 | |
| P11 | Forbid remote controls | 11 | 0x0150 | |
| P12 | Trsf Asynchro Forced | 12 | 0x0150 | |
| P13 | Trsf OnFly Abort | 13 | 0x0150 | |
| P14 | | 14 | 0x0150 | |
| P15 | Load off | 15 | 0x0150 | |

8. 7. COMMANDS TABLES: STARTING ADDRESS 0x0190, WRITE 1 WORDS

To modify a parameter, write 1 in the corresponding bit.

| CODE | DESCRIPTION | BIT to write | ADDRESS | Remarks |
|------|------------------------|--------------|---------|---------|
| C00 | Close SSP | 0 | 0x0190 | |
| C01 | Close SSA | 1 | 0x0190 | |
| C02 | Close SS1 | 2 | 0x0190 | |
| C03 | Close SS2 | 3 | 0x0190 | |
| C04 | S1 is preferred source | 4 | 0x0190 | |
| C05 | S2 is preferred source | 5 | 0x0190 | |
| C06 | | 6 | 0x0190 | |
| C07 | Lock transfer ext. | 7 | 0x0190 | |
| C08 | Unlock transfer ext. | 8 | 0x0190 | |
| C09 | | 9 | 0x0190 | |
| C10 | Allows remote controls | 10 | 0x0190 | |
| C11 | Forbid remote controls | 11 | 0x0190 | |
| C12 | Force Asynchro Trsf | 12 | 0x0190 | |
| C13 | Abort OnFly Trsf | 13 | 0x0190 | |
| C14 | | 14 | 0x0190 | |
| C15 | Load off | 15 | 0x0190 | |



It is advised to modify only one parameter per request.

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