



# DAC1005 - CANopen Object Dictionary

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# Object Dictionary

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## Object 1000 - Device Type

The device type specifies the kind of device. The lower 16 bit contain the device profile number and the upper 16 bit an additional information.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0FFF0192	0x00000000	0xFFFFFFFF		u32	co	

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## Object 1001 - Error Register

The error register is a field of 8 bits, each for a certain error type. If an error occurs the bit has to be set.

Bit Meaning

0 generic error

1 current

2 voltage

3 temperature

4 communication error (overrun, error state)

5 device profile specific

6 reserved

7 manufacturer specific

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00	0xFF		u8	ro	

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## Object 1003 - Pre-defined Error Field

This object holds errors that have occurred on the device and have been signalled via Emergency Object. It is an error history. Writing to sub index 0 deletes the entire error history.

### Subindex 000 Number of Errors

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0	0x00000000	0x0000000A		u32	rw	

### Subindex 001 Standard Error 1

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x00000000	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 Standard Error 2

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 003 Standard Error 3

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 004 Standard Error 4

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 005 Standard Error 5

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 006 Standard Error 6

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 007 Standard Error 7

<b>Standard</b>	<b>Min</b>	<b>Max</b>	<b>Unit</b>	<b>Type</b>	<b>Access Type</b>	<b>PDO Mapping</b>
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 008 Standard Error 8

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 009 Standard Error 9

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFFFFFF		u32	ro	

### Subindex 010 Standard Error 10

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFFFFFF		u32	ro	

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### Object 1005 - COB-ID SYNC

COB-ID of the Synchronization object. If bit 31 is set the device consumes SYNC message and if bit 30 is set the device produce SYNC message. The meaning of other bits is equal to the other communication objects.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x80000080	0x00000001	0xFFFFFFFF		u32	rw	

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### Object 1008 - Manufacturer Device Name

Contains the device name.

Standard	Type	Access Type	PDO Mapping
	vstr	co	

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## Object 1009 - Manufacturer Hardware Version

Contains the device hardware version.

Standard	Type	Access Type	PDO Mapping
	vstr	CO	

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## Object 100A - Manufacturer Software Version

Contains the device software version.

Standard	Type	Access Type	PDO Mapping
	vstr	CO	

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## Object 1012 - COB-ID Time Stamp

COB-ID of the Time Stamp Object (TIME). If bit 31 is set the device consumes the Time Stamp message and if bit 30 is set the device produces the Time Stamp message. The meaning of the other bits is equal to the other communication objects.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x80000100	0x00000001	0xFFFFFFFF		u32	rw	

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## Object 1014 - COB-ID EMCY

COB-ID used for emergency message (Emergency Server).

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x000000FF	0x00000001	0xFFFFFFFF		u32	rw	

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## Object 1015 - Inhibit Time Emergency

Inhibit Time used for emergency message (Emergency Server).  
The time has to be a multiple of 100 msec.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF		u16	rw	

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## Object 1017 - Producer Heartbeat Time

The producer heartbeat time defines the cycle time of the heartbeat. If the time is 0 it is not used.  
The time has to be a multiple of 1 msec

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0	0	65535		u16	rw	

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## Object 1018 - Identity Object

This object contains general information about the device.

Sub-Index 1 contains a unique value allocated each manufacturer.

Sub-Index 2 identifies the manufacturer specific product code (device version).

Sub-Index 3 contains the revision number. Bit 31-16 is the major revision number and Bit 15-0 the minor revision number.

Sub-Index 4 identified a manufacturer specific serial number.

### Subindex 000 number of entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x4	0x1	0x4		u8	ro	

### Subindex 001 Vendor Id

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0146	0x0	0xFFFFFFFF		u32	ro	

### Subindex 002 Product Code

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0xFFFFFFFF		u32	ro	

### Subindex 003 Revision number

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0xFFFFFFFF		u32	ro	

### Subindex 004 Serial number

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0xFFFFFFFF		u32	ro	

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## Object 1200 - Server SDO Parameter

The object contains the parameters for the SDOs for which the device is the server.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x02	0x02		u8	ro	

### Subindex 001 COB-ID Client -> Server

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000600	0x00000600	0xBFFFFFFF		u32	ro	

### Subindex 002 COB-ID Server -> Client

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x000005FF	0x00000580	0xBFFFFFFF		u32	ro	

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## Object 1280 - Client SDO Parameter

The object contains the parameters for the SDOs for which the device is the client.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x03	0x03		u8	ro	

### Subindex 001 COB-ID Client -> Server

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x800006E0	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 COB-ID Server -> Client

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x800006E0	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 003 Node ID of the SDO Server

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00	0x00	0x7F		u8	rw	

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## Object 1400 - Receive PDO Communication Parameter

It contains the communication parameters of the first PDO the device is able to receive.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x4000027F	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF	1 ms	u16	rw	

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## Object 1401 - Receive PDO Communication Parameter

It contains the communication parameters of the second PDO the device is able to receive.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x4000037F	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF	1 ms	u16	rw	

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## Object 1402 - Receive PDO Communication Parameter

It contains the communication parameters of the actual PDO the device is able to receive.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x4000047f	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x0	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x0	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF	1 ms	u16	rw	

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## Object 1403 - Receive PDO Communication Parameter

It contains the communication parameters of the actual PDO the device is able to receive.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x4000057f	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x0	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF	1 ms	u16	rw	

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## Object 1406 - Receive PDO Communication Parameter

It contains the communication parameters of the actual PDO the device is able to receive.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xC00006E0	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x0	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF	1 ms	u16	rw	

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## Object 1600 - Receive PDO Mapping Parameter

It contains the mapping parameters of the first PDO the device is able to receive.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x01	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60400010	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 1601 - Receive PDO Mapping Parameter

It contains the mapping parameters of the first PDO the device is able to receive.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60400010	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60600008	0x0	0xFFFFFFFF		u32	ro	

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## Object 1602 - Receive PDO Mapping Parameter

It contains the mapping parameters of the first PDO the device is able to receive.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60400010	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x607A0020	0x0	0xFFFFFFFF		u32	ro	

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## Object 1603 - Receive PDO Mapping Parameter

It contains the mapping parameters of the first PDO the device is able to receive.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60400010	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60FF0020	0x0	0xFFFFFFFF		u32	ro	

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## Object 1606 - Receive PDO Mapping Parameter

It contains the mapping parameters of the first PDO the device is able to receive.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60400010	0x0	0xFFFFFFFF		u32	ro	

## Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60FE0120	0x0	0xFFFFFFFF		u32	ro	

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## Object 1800 - Transmit PDO Communication Parameter

It contains the communication parameters of the first PDO the device is able to transmit.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x400001FF	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0	0xFFFF	1 ms	u16	rw	

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## Object 1801 - Transmit PDO Communication Parameter

It contains the communication parameters of the second PDO the device is able to transmit.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x400002FF	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0000	0xFFFF	1 ms	u16	rw	

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## Object 1802 - Transmit PDO Communication Parameter

It contains the communication parameters of the actual PDO the device is able to transmit.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x400003ff	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0000	0xFFFF	1 ms	u16	rw	

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## Object 1803 - Transmit PDO Communication Parameter

It contains the communication parameters of the actual PDO the device is able to transmit.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x400004ff	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0000	0xFFFF	1 ms	u16	rw	

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## Object 1806 - Transmit PDO Communication Parameter

It contains the communication parameters of the actual PDO the device is able to transmit.

Sub-index 0 contains the number of PDO-parameters implemented. Sub index 1 describes the COB-ID. If bit 31 is set the PDO is disabled. The transmission mode is defined by sub-index 2.

An inhibit time can be defined on sub-index 3 in 100 s. At the 5th sub-index can be defined a event time for asynchron pdos.

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x05	0x02	0x05		u8	ro	

### Subindex 001 COB-ID

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xC00006E0	0x00000001	0xFFFFFFFF		u32	rw	

### Subindex 002 Transmission Type

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0xFF	0x00	0xFF		u8	rw	

### Subindex 003 Inhibit Time

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0000	0x0000	0xFFFF	100 s	u16	rw	

### Subindex 004 Compatibility Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x03	0x00	0xFF		u8	rw	

### Subindex 005 Event Timer

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0	0x0000	0xFFFF	1 ms	u16	rw	

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## Object 1A00 - Transmit PDO Mapping Parameter

It contains the mapping parameter for the PDOs the device is able to transmit.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index

and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x01	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60410010	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 1A01 - Transmit PDO Mapping Parameter

It contains the mapping parameter for the PDOs the device is able to transmit.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60410010	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
----------	-----	-----	------	------	-------------	-------------

0x60610008	0x0	0xFFFFFFFF		u32	ro	
------------	-----	------------	--	-----	----	--

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## Object 1A02 - Transmit PDO Mapping Parameter

It contains the mapping parameter for the PDOs the device is able to transmit.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60410010	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60640020	0x0	0xFFFFFFFF		u32	ro	

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## Object 1A03 - Transmit PDO Mapping Parameter

It contains the mapping parameter for the PDOs the device is able to transmit.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60410010	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x606C0020	0x0	0xFFFFFFFF		u32	ro	

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## Object 1A06 - Transmit PDO Mapping Parameter

It contains the mapping parameter for the PDOs the device is able to transmit.

Sub-index 0 contains the number of the mapped data objects. All further entries define the data by it's index, sub-index and length.

The structure of a mapping entry is:

index, subindex, length

### Subindex 000 Number of Entries

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x00	0x40		u8	ro	

### Subindex 001 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60410010	0x0	0xFFFFFFFF		u32	ro	

### Subindex 002 PDO Mapping Entry

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x60FD0020	0x0	0xFFFFFFFF		u32	ro	

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## Object 603F - Error Code

This object captures the code of the last error that occurred in the drive.

used Errorcodes:

0x04210: PDPINT (power drive protection interrupt occurred because of over current or over temperature)  
0x05120: LOW\_POWER (voltage of motorcircuit is below lower limit)  
0x05440: LIMITSWITCH (limit switch detected)  
0x06080: EXCEPTION  
0x06081: CONNECTION\_LOST  
0x06082: DEADLINE\_MISSED  
0x06083: EVENT\_LOST  
0x06084: PIPE\_FULL  
0x06085: HARDWARE\_MALFUNCTION  
0x06086: ILLEGAL\_STATE  
0x06087: ILLEGAL\_PARAMETER  
0x06088: ILLEGAL\_ADDRESS  
0x06089: ILLEGAL\_DATA  
0x0608A: ILLEGAL\_SETMASK  
0x0608B: ILLEGAL\_PID  
0x0608C: ILLEGAL\_COMMAND  
0x0608D: ILLEGAL\_MOVE  
0x0608E: FAILURE  
0x0608F: ILLEGAL\_CONTROLLER\_STATE  
0x07305: SENSOR\_ERROR (not a valid signal detected)  
0x08611: CONTROL\_ERROR (controller following error)  
0x08680: POS\_LOWER\_LIMIT  
0x08681: POS\_UPPER\_LIMIT  
0x08780: SYNC\_LOST

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0000	0xFFFF		u16	ro	

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## Object 6040 - Controlword

The drive will to control by this object. This object operates the state machine and the modes.

used Flags:

0x00001: Switch On  
0x00002: Enable Voltage  
0x00004: Quick Stop  
0x00008: Enable Operation  
0x00010: Homing Op Start (homing-mode), new Set-Point (pp-

mode)  
 0x00020: -  
 0x00040: abs/rel (pp-mode)  
 0x00080: Fault Reset  
 0x00100: -  
 0x00200: -  
 0x00400: -  
 0x00800: -

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0000	0xFFFF		u16	rww	X

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## Object 6041 - Statusword

This object indicates the current state of the drive.

used Flags:

0x00001: Ready to Switch On  
 0x00002: Switched On  
 0x00004: Operation Enabled  
 0x00008: Fault  
 0x00010: Voltage Enabled  
 0x00020: Quick Stop  
 0x00040: Switch On Disabled  
 0x00080: -  
 0x00100: in Process (moving or homing) (manufacturer specific)  
 0x00200: Remote  
 0x00400: Target Reached  
 0x00800: Internal limit active  
 0x01000: set-point ack (pp-mode), zero speed (pv-mode), homing attained (homing-mode)  
 0x02000: following error (pp-mode), max. slippage error (pv-mode), homing error (homing-mode)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0000	0xFFFF		u16	ro	X

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## Object 6060 - Modes of Operation

The operational mode is selectable by this object.

values for modes:

0: no mode  
 1: pp-mode  
 3: pv-mode  
 6: homing-mode

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0x07		i8	rww	X

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## Object 6061 - Modes of Operation Display

The actual operational mode is reflected by this object.

values for modes:

0: no mode selected

1: pp-mode selected

3: pv-mode selected

6: homing-mode selected

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0x07		i8	ro	X

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## Object 6064 - Position Actual Value in User Unit

This object represents the actual value of the position measurement device in user defined units.

See values of objects

0x06089 = p402\_position\_notation\_index and

0x0608A = p402\_position\_dimension\_index

for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	X

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## Object 6069 - Velocity Sensor Actual Value

This object documents the actual velocity detected by a velocity analyser.

This object isn't used, the value shows allways 0.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF	Inc/s	i32	ro	

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### Object 606B - Velocity Demand Value in User Unit

This object is the output value of the profile generator in user defined units.

See values of objects

0x0608B = p402\_velocity\_notation\_index and

0x0608C = p402\_velocity\_dimension\_index  
for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	

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### Object 606C - Velocity Actual Value in User Unit

This object reflects the actual velocity per sample period in user defined units.

See values of objects

0x0608B = p402\_velocity\_notation\_index and

0x0608C = p402\_velocity\_dimension\_index  
for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	X

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### Object 607A - Target Position in User Unit

This object is the target position that the drive should move to in profile position mode in user defined units.

See values of objects

0x06089 = p402\_position\_notation\_index and

0x0608A = p402\_position\_dimension\_index  
for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	rww	X

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## Object 607B - Position Range Limit in User Unit

This object describes the axis range in user defined units. It determines the kind of axis in the context with "software position limit".

See values of objects

0x06089 = p402\_position\_notation\_index and

0x0608A = p402\_position\_dimension\_index

for used unit.

### Subindex 000 Number of Elements

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000002	0x00000002	0x00000002		i32	ro	

### Subindex 001 Min Position Range Limit

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	

### Subindex 002 Max Position Range Limit

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	

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## Object 607D - Software Position Limit in User Unit

This object defines the absolute position limits for linear or rotatory axes in user defined units. If the position is out of range, a software limit error occurs. In the context with "position range limit" this object determines the kind of axis.

See values of objects

0x06089 = p402\_position\_notation\_index and

0x0608A = p402\_position\_dimension\_index

for used unit.

### Subindex 000 Number of Elements

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000002	0x00000002	0x00000002		i32	ro	

### Subindex 001 Min Software Position Limit

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	

### Subindex 002 Max Software Position Limit

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	ro	

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## Object 607F - Max Profile Velocity in User Unit

This object specifies the maximal allowed velocity in user defined units.

See values of objects  
0x0608B = p402\_velocity\_notation\_index and  
0x0608C = p402\_velocity\_dimension\_index  
for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 6081 - Profile Velocity in pp-mode in User Unit

This object is the velocity in the profile position mode in user defined units.

See values of objects

0x0608B = p402\_velocity\_notation\_index and  
 0x0608C = p402\_velocity\_dimension\_index  
 for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000001	0xFFFFFFFF		u32	rw	

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### Object 6083 - Profile Acceleration in User Unit

This object is the linear acceleration in the profile velocity mode and the profile position mode in user defined units.

See values of objects

0x0608D = p402\_acceleration\_notation\_index and  
 0x0608E = p402\_acceleration\_dimension\_index  
 for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000001	0xFFFFFFFF		u32	rw	

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### Object 6086 - Motion Profile Type

This object is used to select the type of the motion profile.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0003	0x0	0x0003		i16	ro	

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### Object 6089 - Position Notation Index

This object determines the decimal place of the position unit.

used values:

0x0FA: mikro (1e-6)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80	0x7F		i8	ro	

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## Object 608A - Position Dimension Index

This object specifies the position unit. The codes and examples are in the appendix of the DSP-402!

used values:

0x001: meter (linear axes)

0x0B4: revolution (rotatory axes)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00	0xFF		u8	ro	

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## Object 608B - Velocity Notation Index

This object determines the decimal place of the velocity unit.

used values:

0x0FA: mikro (1e-6)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80	0x7F		i8	ro	

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## Object 608C - Velocity Dimension Index

This object specifies the velocity unit. The codes and examples are in the appendix of the DSP-402!

used values:

0x0A6: meter/s (linear axes)

0x0A3: revolution/s (rotatory axes)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000000	0x000000FF		u8	ro	

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## Object 608D - Acceleration Notation Index

This object determines the decimal place of the acceleration unit.

used values:

0x0FD: milli (1e-3)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80	0x7F		i8	ro	

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## Object 608E - Acceleration Dimension Index

This object specifies the acceleration unit. The codes and examples are in the appendix of the DSP-402!

used values:

0x055: meter/(s\*s) (linear axes)

0x0AF: revolution/(s\*s) (rotatory axes)

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00	0xFF		u8	ro	

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## Object 6093 - Position Factor

This object converts the desired position in position units into the internal format in increments.

This object isn't used, the values of Numerator and Feed Constant shows allways 1.

### Subindex 000 Number of Elements

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000002	0x00000002	0x00000002		u32	ro	

### Subindex 001 Numerator

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000001	0x00000000	0xFFFFFFFF		u32	ro	

### Subindex 002 Feed Constant

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000001	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 6097 - Acceleration Factor

This object converts acceleration in application unit into internal format in  $\text{inc}/(\text{s}^2)$ .

This object isn't used, the values of Numerator and Divisor shows always 1.

### Subindex 000 Number of Elements

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000002	0x00000002	0x00000002		u32	ro	

### Subindex 001 Numerator

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000001	0x0	0xFFFFFFFF		u32	ro	

### Subindex 002 Divisor

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000001	0x0	0xFFFFFFFF		u32	ro	

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## Object 6098 - Homing Method

This object determines the method that will be used during the homing mode.

used values:

0x0023: Homing of current position

0x0011: Homing without an index pulse to the negative limit switch

0x0012: Homing without an index pulse to the positive limit switch

0x0021: Homing on the negative index pulse

0x0022: Homing on the positive index pulse

0x0005: Homing on the negative limit switch and index pulse

0x0006: Homing on the positive limit switch and index pulse

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80	0x23		i8	ro	

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## Object 6099 - Homing Speeds in User Unit

This object defines a slow and a fast velocity used during the homing mode in user defined units.

See values of objects

0x0608B = p402\_velocity\_notation\_index and

0x0608C = p402\_velocity\_dimension\_index

for used unit.

### Subindex 000 Number of Elements

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000002	0x00000002	0x00000002		u32	ro	

### Subindex 001 Fast Homing Speed

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000000	0xFFFFFFFF		u32	ro	

## Subindex 002 Slow Homing Speed

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 60C5 - Max Acceleration in User Unit

This object is the maximal allowed acceleration in user defined units.

See values of objects

0x0608D = p402\_acceleration\_notation\_index and

0x0608E = p402\_acceleration\_dimension\_index

for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 60FC - Position Demand Value in User Unit

This object shows the target position in user defined units.

See values of objects

0x06089 = p402\_position\_notation\_index and

0x0608A = p402\_position\_dimension\_index

for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF	Inc	i32	ro	

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## Object 60FD - Digital Inputs

This object reflects the current state of the digital input signals.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x00000000	0xFFFFFFFF		u32	ro	X

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## Object 60FE - Digital Outputs

This object determines the digital output signals. It is maskable.

### Subindex 000 Number of Elements

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x02	0x01	0x02		u32	ro	

### Subindex 001 Physical Outputs

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0xFFFFFFFF		u32	rww	X

### Subindex 002 Output Mask

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x0	0xFFFFFFFF		u32	ro	

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## Object 60FF - Target Velocity in User Unit

This object determines the velocity in the Profile Velocity Mode in user defined units.

See values of objects

0x0608B = p402\_velocity\_notation\_index and

0x0608C = p402\_velocity\_dimension\_index

for used unit.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
	0x80000000	0x7FFFFFFF		i32	rww	X

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## Object 6502 - Supported Drive Modes

This object documents all operational modes which are supported from the drive.

Shows that pp-mode, pv-mode and homing-mode is supported.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x00000025	0x00000000	0xFFFFFFFF		u32	ro	

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## Object 67FF - Single Device Type

This object describes the type of each device within one drive unit and its functionality.

Standard	Min	Max	Unit	Type	Access Type	PDO Mapping
0x0FFF0192	0x0	0xFFFFFFFF		u32	ro	

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## Description