SOPAS Communication Interface Description

CLV62x-65x

Version: V5.10

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Document Info

This document was generated with SOPAS Documentation Generator 2.34.1.

Generation Date: 19.08.2011 at 14:42:21

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1. General

1.1. Introduction

This document describes the functional interfaces of the CLV62x device, V5.10. The CLV62x device is a SOPAS device. SOPAS devices have Variables, Methods and Events. Variables can always be read and in some cases be written by user.

1.2. User Level

Whether a Variable can be written by user depends on the least user level. Defined user levels are:

ID	Name	Description
0	Always (Run)	Always (Run)
1	Operator	Operator
2	Maintenance	Maintenance
3	Authorised Client	Authorised Client

Table 1: User Levels

1.3. Methods

Methods can be invoked by using certain parameters. The method will return with a structure of one or more return values. If a Method can be invoked depends as well on the least user level (see above).

1.4. Events

Events can be registered and will then be fired by the device to the registered client. Most Events have parameters which are the data coming with the Event.

1.5. Datatypes

All items of the interface have certain data elements. These are the Variables itself, the parameters of Methods and Events and the return values of the Methods.

The structure of the data elements can be one of the following BasicType(s), Structures or Arrays.

Basic Type

Name	Description	Range of values
Bool	boolean	True(1), False(0)
USInt	unsigned short (8 bit)	(0..255)
UInt	unsigned int (16 bit)	(0..65535)
UDInt	unsigned double int (32 bit)	(0..4294967295)
SInt	signed short (8 bit)	(-128..127)
Int	signed int (16 bit)	(-32768..32767)
DInt	signed double int (32 bit)	(-2147483648..2147483647)
LInt	signed long int (64 bit)	(-9223372036854775808..9223372036854775807)
Real	IEEE-754 single precision (32 bit) (float)	See specification in IEEE-754
LReal	IEEE-754 single precision (64 bit) (double)	See specification in IEEE-754
Enum8	short enumeration (8 bit)	certain values defined in a list of choises (0-255)

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Name	Description	Range of values
Enum16	short enumeration (16 bit)	certain values defined in a list of choises (0-65535)
String	array of visible characters (array of 8 bit)	a character = an USInt with values between 0x20..0xFF
FlexString	array of visible characters with preeding current length (UInt lenght) (array of 8 bit)	See description of String and FlexArray
Byte	bitset definition (8 bit). Detailed specification of bits UInt1..UInt16 = UInt (1..16 bit) Int1..Int16 = Int (1..16 bit) Enum1..Enum16 = Enum16 (1..16 bit) Bool = Bool (1 bit)	value is transfered as an array of USInt. See "XByte Serialisation" document for further details on bit ordering
Word	bitset definition (16 bit), see description of Byte	value is transfered as an array of USInt see "XByte Serialisation" document for further details on bit ordering.
DWord	bitset definition (32 bit), see description of Byte	value is transfered as an array of USInt see "XByte Serialisation" document for further details on bit ordering.
LWord	bitset definition (64 bit), see description of Byte	value is transfered as an array of USInt see "XByte Serialisation" document for further details on bit ordering.
XByte	bitset definition (8,16,24,32,... bit) see description of Byte	value is transfered as an array of USInt see "XByte Serialisation" document for further details on bit ordering.

Table 2: Basic Datatypes

Struct

A structure is a sequence of further types. These types can be of a BasicType, Structs again or an Array.

Array

An Array is a repetition of a type. The length of the array is defined with each Array. The types can be of a BasicType, a Struct or an Array again (n- dimensional).

Flex Array

A FlexArray is a repetition of a type with a variable length. The maximum length of the array is defined with each FlexArray. The current length of the FlexArray is transferred as a UInt preceeding the Array itself. The types can be of a BasicType, a Struct or an Array again (n- dimensional).

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2. Interfaces

2.1. Interface Block: S_Standard

2.1.1. Group: V100

2.1.1.1. Variable: LocationName

The following section contains a detailed description of the variable LocationName.

Variable Overview

Variable Name	Description
LocationName	Location of Device (set by user)

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	2 (fixed)
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	Maintenance, AuthorizedClient

FlexString	
Length	0..64
Initialisation	CLV6xx

Variable Telegram Syntax

Read Variable:

```
sRN LocationName
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	LocationName	String	12	Location of Device (set by user)

Read Variable Response:

```
sRA LocationName <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	LocationName	String	12	Location of Device (set by user)
Variable Data	data	FlexString	64	

Write Variable:

```
sWN LocationName <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	LocationName	String	12	Location of Device (set by user)
Variable Data	data	FlexString	64	

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Write Variable Response:				
sWA LocationName				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	LocationName	String	12	Location of Device (set by user)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN LocationName[ETX]
Read Variable Response:	[STX]sRA LocationName 6 CLV6xx[ETX]
Write Variable:	[STX]sWN LocationName +6 CLV6xx[ETX]
Write Variable Response:	[STX]sWA LocationName[ETX]

2.1.1.2. Method: SetAccessMode

The following section contains a detailed description of the method SetAccessMode.

Method Overview

Method Name	Description
SetAccessMode	Change operation mode returns True, if successful

Sopas Index	0 (fixed)
Invocation Access	Always

Parameters		
NewMode		
	SInt	
	Value Range	-128..127
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
Password		hash value
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Return Values		
success		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN SetAccessMode <NewMode> <Password>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	SetAccessMode	String	13	Change operation mode returns True, if successful
Parameter 1	NewMode	SInt	1	
Parameter 2	Password	UDInt	4	hash value

Method Return Value:				
`sAN SetAccessMode <success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	SetAccessMode	String	13	Change operation mode returns True, if successful
Return Value 1	success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN SetAccessMode +0 0[ETX]`
Method Return Value:	`[STX]sAN SetAccessMode 0[ETX]`

2.1.1.3. Method: GetAccessMode

The following section contains a detailed description of the method GetAccessMode.

Method Overview

Method Name	**Description**
GetAccessMode	returns actual operation mode

Sopas Index	1 (fixed)
Invocation Access	Always

Return Values	
opmode	
SInt	
Value Range	-128..127
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
sMN GetAccessMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	GetAccessMode	String	13	returns actual operation mode

Method Return Value:				
sAN GetAccessMode <opmode>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	GetAccessMode	String	13	returns actual operation mode
Return Value 1	opmode	SInt	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN GetAccessMode[ETX]
Method Return Value:	[STX]sAN GetAccessMode 0[ETX]

2.1.1.4. Method: Run

The following section contains a detailed description of the method Run.

Method Overview

Method Name	Description
Run	Change operation mode to "Run"

Sopas Index	2 (fixed)
Invocation Access	Always

Return Values		
success		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN Run`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	Run	String	3	Change operation mode to "Run"

Method Return Value:				
`sAN Run <success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	Run	String	3	Change operation mode to "Run"
Return Value 1	success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN Run[ETX]`
Method Return Value:	`[STX]sAN Run 0[ETX]`

2.1.1.5. Method: GetDescription

The following section contains a detailed description of the method GetDescription.

Method Overview

Method Name
GetDescription

Sopas Index	4 (fixed)
Invocation Access	Always

Parameters			
eType			
	Enum8		
	Default Value	CID	
	Value	Name	Description
	1	CID	
	2	ShortUDD	
	3	PMD	
	4	Jar	

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Parameters			
uiSegmentNumber			
	UInt		
	Value Range	0..65535	
	Initialisation		
	Physical Unit		
	Physical Unit Factor	0.0	

Return Values			
eState			
	Enum8		
	Value	Name	Description
	0	TypeNotSupported	
	1	SegmentOutOfRange	
	2	FirstSegment	
	3	NormalSegment	
	4	LastSegment	
uiSegmentNumber			
	UInt		
	Value Range	0..65535	
	Initialisation		
	Physical Unit		
	Physical Unit Factor	0.0	
aByteStream			
	Array		
	Length	0..64	
	USInt		
	Value Range	0..255	
	Initialisation		
	Physical Unit		
	Physical Unit Factor	0.0	

Method Telegram Syntax

Method Invocation:

```
sMN GetDescription <eType> <uiSegmentNumber>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	GetDescription	String	14	
Parameter 1	eType	Enum8	1	
Parameter 2	uiSegmentNumber	UInt	2	

Method Return Value:

```
sAN GetDescription <eState> <uiSegmentNumber> <aByteStream>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	GetDescription	String	14	
Return Value 1	eState	Enum8	1	
Return Value 2	uiSegmentNumber	UInt	2	
Return Value 3	aByteStream	Array	64	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN GetDescription 1 0[ETX]`
Method Return Value:	`[STX]sAN GetDescription 0 0 0[ETX]`

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2.1.2. Group: Optional

2.1.2.1. Method: SetPassword

The following section contains a detailed description of the method SetPassword.

Method Overview

Method Name
SetPassword

Sopas Index	3
Invocation Access	Always

Parameters		
siUserLevel		
	SInt	
	Value Range	-128..127
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
udiNewPassword		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Return Values		
bSuccess		
	Bool	
	Value Range	False, True
	Initialisation	False

Method Telegram Syntax

Method Invocation:				
`sMN SetPassword <siUserLevel> <udiNewPassword>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	SetPassword	String	11	
Parameter 1	siUserLevel	SInt	1	
Parameter 2	udiNewPassword	UDInt	4	

Method Return Value:				
`sAN SetPassword <bSuccess>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	SetPassword	String	11	

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Method Return Value:				
sAN SetPassword <bSuccess>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Return Value 1	bSuccess	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN SetPassword +0 0[ETX]
Method Return Value:	[STX]sAN SetPassword 0[ETX]

2.1.2.2. Method: CheckPassword

The following section contains a detailed description of the method CheckPassword.

Method Overview

Method Name
CheckPassword

Sopas Index	5 (fixed)
Invocation Access	Always

Parameters	
siUserLevel	
SInt	
Value Range	-128..127
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
udiPassword	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
bSuccess	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN CheckPassword <siUserLevel> <udiPassword>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	CheckPassword	String	13	
Parameter 1	siUserLevel	SInt	1	
Parameter 2	udiPassword	UDInt	4	

Method Return Value:				
`sAN CheckPassword <bSuccess>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	CheckPassword	String	13	
Return Value 1	bSuccess	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN CheckPassword +0 0[ETX]`
Method Return Value:	`[STX]sAN CheckPassword 0[ETX]`

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2.1.3. Group: fileMethods

2.1.3.1. Method: GenOpenFile

The following section contains a detailed description of the method GenOpenFile.

Method Overview

Method Name	Description
GenOpenFile	Open selected file

Communication Name	OpenFile
Sopas Index	10 (fixed)
Invocation Access	Always

Parameters		
Name		
	FlexString	
	Length	0..256
	Initialisation	
Mode		
	FlexString	
	Length	0..5
	Initialisation	

Return Values		
State		
	Int	
	Value Range	-32768..32767
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
FileHandle		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN OpenFile <Name> <Mode>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	OpenFile	String	8	Open selected file
Parameter 1	Name	FlexString	256	
Parameter 2	Mode	FlexString	5	

Method Return Value:				
`sAN OpenFile <State> <FileHandle>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	OpenFile	String	8	Open selected file
Return Value 1	State	Int	2	
Return Value 2	FileHandle	UDInt	4	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN OpenFile +0 0 +0 0[ETX]`
Method Return Value:	`[STX]sAN OpenFile 0 0[ETX]`

2.1.3.2. Method: GenCloseFile

The following section contains a detailed description of the method GenCloseFile.

Method Overview

Method Name	Description
GenCloseFile	Close selected file

Communication Name	CloseFile
Sopas Index	11 (fixed)
Invocation Access	Always

Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Return Values	
State	
Int	
Value Range	-32768..32767
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:				
`sMN CloseFile <FileHandle>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	CloseFile	String	9	Close selected file
Parameter 1	FileHandle	UDInt	4	

Method Return Value:				
`sAN CloseFile <State>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	CloseFile	String	9	Close selected file
Return Value 1	State	Int	2	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN CloseFile 0[ETX]`
Method Return Value:	`[STX]sAN CloseFile 0[ETX]`

2.1.3.3. Method: GenReadFile

The following section contains a detailed description of the method GenReadFile.

Method Overview

Method Name	Description
GenReadFile	Read selected file

Communication Name	ReadFile
Sopas Index	13 (fixed)
Invocation Access	Always

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Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
SequenceNumber	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
State	
Int	
Value Range	-32768..32767
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
Data	
Array	
Length	0..64
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN ReadFile <FileHandle> <SequenceNumber>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	ReadFile	String	8	Read selected file
Parameter 1	FileHandle	UDInt	4	
Parameter 2	SequenceNumber	UDInt	4	

Method Return Value:

```
sAN ReadFile <State> <Data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	ReadFile	String	8	Read selected file
Return Value 1	State	Int	2	
Return Value 2	Data	Array	64	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN ReadFile 0 0[ETX]`
Method Return Value:	`[STX]sAN ReadFile 0 0[ETX]`

2.1.3.4. Method: GenWriteFile

The following section contains a detailed description of the method GenWriteFile.

Method Overview

Method Name	**Description**
GenWriteFile	Write selected file

Communication Name	WriteFile
Sopas Index	14 (fixed)
Invocation Access	Always

Parameters		
FileHandle		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
Data		
	Array	
	Length	0..64
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
SequenceNumber		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Return Values	
State	
Int	
Value Range	-32768..32767
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN WriteFile <FileHandle> <Data> <SequenceNumber>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	WriteFile	String	9	Write selected file
Parameter 1	FileHandle	UDInt	4	
Parameter 2	Data	Array	64	
Parameter 3	SequenceNumber	UDInt	4	

Method Return Value:

```
sAN WriteFile <State>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	WriteFile	String	9	Write selected file
Return Value 1	State	Int	2	

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN WriteFile 0 +0 0[ETX]`
Method Return Value:	`[STX]sAN WriteFile 0[ETX]`

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2.1.3.5. Method: GetFileSyncValue

The following section contains a detailed description of the method GetFileSyncValue.

Method Overview

Method Name	Description
GetFileSyncValue	get Sync Value for file

Sopas Index	15 (fixed)
Invocation Access	Always

Parameters	
Name	
FlexString	
Length	0..256
Initialisation	

Return Values	
HashValue	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:				
`sMN GetFileSyncValue <Name>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	GetFileSyncValue	String	16	get Sync Value for file
Parameter 1	Name	FlexString	256	

Method Return Value:				
`sAN GetFileSyncValue <HashValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	GetFileSyncValue	String	16	get Sync Value for file
Return Value 1	HashValue	UDInt	4	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN GetFileSyncValue +0 0[ETX]`
Method Return Value:	`[STX]sAN GetFileSyncValue 0[ETX]`

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2.2. Interface Block: GeneralCfgBase

2.2.1. Group: EEprom

2.2.1.1. Method: ReadEeprom

The following section contains a detailed description of the method ReadEeprom.

Method Overview

Method Name	Description
ReadEeprom	Method reads all permanent parameters from the ParamEEprom into the mirror

Communication Name	mEEreadall
Sopas Index	6
Invocation Access	AuthorizedClient

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mEEreadall
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mEEreadall	String	10	Method reads all permanent parameters from the ParamEEprom into the mirror

Method Return Value:

```
sAN mEEreadall <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mEEreadall	String	10	Method reads all permanent parameters from the ParamEEprom into the mirror
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mEEreadall[ETX]`
Method Return Value:	`[STX]sAN mEEreadall 0[ETX]`

2.2.1.2. Method: WriteEeprom

The following section contains a detailed description of the method WriteEeprom.

Method Overview

Method Name	Description
WriteEeprom	Method writes all permanent parameters from the SOPAS mirror to the ParamEEprom

Communication Name	mEEwriteall
Sopas Index	7
Invocation Access	AuthorizedClient

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:				
`sMN mEEwriteall`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mEEwriteall	String	11	Method writes all permanent parameters from the SOPAS mirror to the ParamEEprom

Method Return Value:				
`sAN mEEwriteall <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mEEwriteall	String	11	Method writes all permanent parameters from the SOPAS mirror to the ParamEEprom
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mEEwriteall[ETX]`
Method Return Value:	`[STX]sAN mEEwriteall 0[ETX]`

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2.2.2. Group: SystemControl

2.2.2.1. Variable: SCTimeFormat

The following section contains a detailed description of the variable SCTimeFormat.

Variable Overview

Variable Name	Description
SCTimeFormat	Defines the time format

Communication Name	SCtimeformat
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	12
Storage	Variable is stored in ParamEEprom
Read-Access	AuthorizedClient
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	OpHours	
	1	RealTime	

Variable Telegram Syntax

Read Variable:

```
sRN SCtimeformat
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SCtimeformat	String	12	Defines the time format

Read Variable Response:

```
sRA SCtimeformat <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SCtimeformat	String	12	Defines the time format
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SCtimeformat <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SCtimeformat	String	12	Defines the time format
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SCtimeformat				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SCtimeformat	String	12	Defines the time format

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SCtimeformat[ETX]
Read Variable Response:	[STX]sRA SCtimeformat 0[ETX]
Write Variable:	[STX]sWN SCtimeformat 0[ETX]
Write Variable Response:	[STX]sWA SCtimeformat[ETX]

2.2.2.2. Variable: SCUserInterfaceVariant

The following section contains a detailed description of the variable SCUserInterfaceVariant.

Variable Overview

Variable Name	Description
SCUserInterfaceVariant	Defines which kind of User interface has been used for parametrization. Variable may be set by the OnDeviceAdded-Hook

Communication Name	SCUIVers
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	14
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	Always

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_SOPAS_ET_STANDARD	

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Variable Telegram Syntax

Read Variable:				
`sRN SCUIVers`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SCUIVers	String	8	Defines which kind of User interface has been used for parametrization. Variable may be set by the OnDeviceAdded-Hook

Read Variable Response:				
`sRA SCUIVers <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SCUIVers	String	8	Defines which kind of User interface has been used for parametrization. Variable may be set by the OnDeviceAdded-Hook
Variable Data	data	Enum8	1	

Write Variable:				
`sWN SCUIVers <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SCUIVers	String	8	Defines which kind of User interface has been used for parametrization. Variable may be set by the OnDeviceAdded-Hook
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA SCUIVers`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SCUIVers	String	8	Defines which kind of User interface has been used for parametrization. Variable may be set by the OnDeviceAdded-Hook

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SCUIVers[ETX]`
Read Variable Response:	`[STX]sRA SCUIVers 0[ETX]`
Write Variable:	`[STX]sWN SCUIVers 0[ETX]`
Write Variable Response:	`[STX]sWA SCUIVers[ETX]`

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2.2.2.3. Method: SoftReset

The following section contains a detailed description of the method SoftReset.

Method Overview

Method Name	Description
SoftReset	Method executes a software reset on the device

Communication Name	mSCsoftreset
Sopas Index	17
Invocation Access	AuthorizedClient

Parameters		
ProcessorNbr		
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mSCsoftreset <ProcessorNbr>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCsoftreset	String	12	Method executes a software reset on the device
Parameter 1	ProcessorNbr	UInt	2	

Method Return Value:

```
sAN mSCsoftreset
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCsoftreset	String	12	Method executes a software reset on the device

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mSCsoftreset 0[ETX]`
Method Return Value:	`[STX]sAN mSCsoftreset[ETX]`

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2.2.2.4. Method: RebootDevice

The following section contains a detailed description of the method RebootDevice.

Method Overview

Method Name	Description
RebootDevice	Method shuts the device down but saves the parameter before shutdown ist executed

Communication Name	mSCreboot
Sopas Index	18
Invocation Access	AuthorizedClient

Method Telegram Syntax

Method Invocation:				
`sMN mSCreboot`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCreboot	String	9	Method shuts the device down but saves the parameter before shutdown ist executed

Method Return Value:				
`sAN mSCreboot`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCreboot	String	9	Method shuts the device down but saves the parameter before shutdown ist executed

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCreboot[ETX]`
Method Return Value:	`[STX]sAN mSCreboot[ETX]`

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2.2.2.5. Method: LoadFactoryDefaults

The following section contains a detailed description of the method LoadFactoryDefaults.

Method Overview

Method Name	Description
LoadFactoryDefaults	The method resets all variables to their default value.

Communication Name	mSCloadfacdef
Sopas Index	19
Invocation Access	AuthorizedClient

Method Telegram Syntax

Method Invocation:				
`sMN mSCloadfacdef`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCloadfacdef	String	13	The method resets all variables to their default value.

Method Return Value:				
`sAN mSCloadfacdef`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCloadfacdef	String	13	The method resets all variables to their default value.

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCloadfacdef[ETX]`
Method Return Value:	`[STX]sAN mSCloadfacdef[ETX]`

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2.2.2.6. Method: LoadApplicationDefaults

The following section contains a detailed description of the method LoadApplicationDefaults.

Method Overview

Method Name	Description
LoadApplicationDefaults	The method resets all application relevant variables to their default value

Communication Name	mSCloadappdef
Sopas Index	20
Invocation Access	AuthorizedClient

Method Telegram Syntax

Method Invocation:				
`sMN mSCloadappdef`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCloadappdef	String	13	The method resets all application relevant variables to their default value

Method Return Value:				
`sAN mSCloadappdef`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCloadappdef	String	13	The method resets all application relevant variables to their default value

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCloadappdef[ETX]`
Method Return Value:	`[STX]sAN mSCloadappdef[ETX]`

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2.2.2.7. Method: SelfTest

The following section contains a detailed description of the method SelfTest.

Method Overview

Method Name	Description
SelfTest	The method forces the device to execute a self test. Return value 0 means self test was successful

Communication Name	mSCselftest
Sopas Index	23
Invocation Access	Always

Return Values	
ErrorCode	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mSCselftest
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCselftest	String	11	The method forces the device to execute a self test. Return value 0 means self test was successful

Method Response:

```
sMA mSCselftest
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mSCselftest	String	11	The method forces the device to execute a self test. Return value 0 means self test was successful

Method Return Value:

```
sAN mSCselftest <ErrorCode>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCselftest	String	11	The method forces the device to execute a self test. Return value 0 means self test was successful
Return Value 1	ErrorCode	UDInt	4	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCselftest[ETX]`
Method Response:	`[STX]sMA mSCselftest[ETX]`
Method Return Value:	`[STX]sAN mSCselftest 0[ETX]`

2.2.2.8. Method: ClearCMC

The following section contains a detailed description of the method ClearCMC.

Method Overview

Method Name	Description
ClearCMC	The method forces the device to clear parameter set in a connected CMC

Communication Name	mSCclearCMC
Sopas Index	24
Invocation Access	AuthorizedClient

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:				
`sMN mSCclearCMC`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCclearCMC	String	11	The method forces the device to clear parameter set in a connected CMC

Method Return Value:				
`sAN mSCclearCMC <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCclearCMC	String	11	The method forces the device to clear parameter set in a connected CMC
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCclearCMC[ETX]`
Method Return Value:	`[STX]sAN mSCclearCMC 0[ETX]`

2.2.2.9. Method: ClearSDCard

The following section contains a detailed description of the method ClearSDCard.

Method Overview

Method Name	Description
ClearSDCard	The method forces the device to clear parameter set on MMC card

Communication Name	mSCclearSDCard
Sopas Index	25
Invocation Access	AuthorizedClient

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

Method Telegram Syntax

Method Invocation:				
`sMN mSCclearSDCard`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCclearSDCard	String	14	The method forces the device to clear parameter set on MMC card

Method Return Value:				
`sAN mSCclearSDCard <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCclearSDCard	String	14	The method forces the device to clear parameter set on MMC card
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCclearSDCard[ETX]`
Method Return Value:	`[STX]sAN mSCclearSDCard 0[ETX]`

2.2.2.10. Method: ClearAllExtPara

The following section contains a detailed description of the method ClearAllExtPara.

Method Overview

Method Name	Description
ClearAllExtPara	The method forces the device to clear parameters in all connected external parameter devices

Communication Name	mSCclearAllExtPara
Sopas Index	26
Invocation Access	AuthorizedClient

Return Values	
ErrorCode	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:				
`sMN mSCclearAllExtPara`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCclearAllExtPara	String	18	The method forces the device to clear parameters in all connected external parameter devices

Method Return Value:				
`sAN mSCclearAllExtPara <ErrorCode>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCclearAllExtPara	String	18	The method forces the device to clear parameters in all connected external parameter devices
Return Value 1	ErrorCode	USInt	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCclearAllExtPara[ETX]`
Method Return Value:	`[STX]sAN mSCclearAllExtPara 0[ETX]`

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2.2.3. Group: FirmwareDownload2nd

2.2.3.1. Method: WriteSignature

The following section contains a detailed description of the method WriteSignature.

Method Overview

Method Name	Description
WriteSignature	Encrypted writing of signature

Communication Name	mFDwrtsig
Sopas Index	33
Invocation Access	AuthorizedClient

Parameters	
EncryptedSignature	
FlexString	
Length	0..18
Initialisation	

Return Values	
bSuccess	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mFDwrtsig <EncryptedSignature>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFDwrtsig	String	9	Encrypted writing of signature
Parameter 1	EncryptedSignature	FlexString	18	

Method Return Value:

```
sAN mFDwrtsig <bSuccess>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFDwrtsig	String	9	Encrypted writing of signature
Return Value 1	bSuccess	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFDwrtsig +0 0[ETX]`
Method Return Value:	`[STX]sAN mFDwrtsig 0[ETX]`

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2.3. Interface Block: DiagBase

2.3.1. Group: DeviceInformationBase

2.3.1.1. Variable: LastMaintenance

The following section contains a detailed description of the variable LastMaintenance.

Variable Overview

Variable Name	Description
LastMaintenance	Date of last maintenance

Communication Name	DIlstmt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	30
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	DD.MM.YYYY

Variable Telegram Syntax

Read Variable:

```
sRN DIlstmt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DIlstmt	String	7	Date of last maintenance

Read Variable Response:

```
sRA DIlstmt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DIlstmt	String	7	Date of last maintenance
Variable Data	data	FlexString	10	

Write Variable:

```
sWN DIlstmt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DIlstmt	String	7	Date of last maintenance
Variable Data	data	FlexString	10	

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Write Variable Response:				
sWA DIlstmt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DIlstmt	String	7	Date of last maintenance

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DIlstmt[ETX]
Read Variable Response:	[STX]sRA DIlstmt A DD.MM.YYYY[ETX]
Write Variable:	[STX]sWN DIlstmt +10 DD.MM.YYYY[ETX]
Write Variable Response:	[STX]sWA DIlstmt[ETX]

2.3.1.2. Variable: NextMaintenance

The following section contains a detailed description of the variable NextMaintenance.

Variable Overview

Variable Name	Description
NextMaintenance	Date of Next maintenance

Communication Name	DInxtmt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	31
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

String	
Length	10
Initialisation	DD.MM.YYYY

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Variable Telegram Syntax

Read Variable:				
`sRN DInxtmt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DInxtmt	String	7	Date of Next maintenance

Read Variable Response:				
`sRA DInxtmt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DInxtmt	String	7	Date of Next maintenance
Variable Data	data	String	10	

Write Variable:				
`sWN DInxtmt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DInxtmt	String	7	Date of Next maintenance
Variable Data	data	String	10	

Write Variable Response:				
`sWA DInxtmt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DInxtmt	String	7	Date of Next maintenance

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DInxtmt[ETX]`
Read Variable Response:	`[STX]sRA DInxtmt DD.MM.YYYY[ETX]`
Write Variable:	`[STX]sWN DInxtmt DD.MM.YYYY[ETX]`
Write Variable Response:	`[STX]sWA DInxtmt[ETX]`

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2.3.1.3. Method: SetLastUser

The following section contains a detailed description of the method SetLastUser.

Method Overview

Method Name	Description
SetLastUser	Method defines the last user and last date parameters

Communication Name	mDIsetlast
Sopas Index	36
Invocation Access	AuthorizedClient

Parameters	
LastUser	
FlexString	
Length	0..18
Initialisation	
LastParaDate	
FlexString	
Length	0..10
Initialisation	
LastParaTime	
FlexString	
Length	0..5
Initialisation	

Method Telegram Syntax

Method Invocation:

```
sMN mDIsetlast <LastUser> <LastParaDate> <LastParaTime>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDIsetlast	String	10	Method defines the last user and last date parameters
Parameter 1	LastUser	FlexString	18	
Parameter 2	LastParaDate	FlexString	10	
Parameter 3	LastParaTime	FlexString	5	

Method Return Value:

```
sAN mDIsetlast
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDIsetlast	String	10	Method defines the last user and last date parameters

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDIsetlast +0 0 +0 0 +0 0[ETX]`
Method Return Value:	`[STX]sAN mDIsetlast[ETX]`

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2.4. Interface Block: GeneralCfgDebugBase

2.4.1. Group: LogDebugBase

2.4.1.1. Method: ExecuteStimuliFile

The following section contains a detailed description of the method ExecuteStimuliFile.

Method Overview

Method Name	Description
ExecuteStimuliFile	Execute stimuli from file

Communication Name	mDBExeStimuliFile
Sopas Index	51
Invocation Access	Always

Parameters	
FileName	
FlexString	
Length	0..32
Initialisation	

Return Values	
Result	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mDBExeStimuliFile <FileName>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDBExeStimuliFile	String	17	Execute stimuli from file
Parameter 1	FileName	FlexString	32	

Method Return Value:

```
sAN mDBExeStimuliFile <Result>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDBExeStimuliFile	String	17	Execute stimuli from file
Return Value 1	Result	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDBExeStimuliFile +0 0[ETX]`
Method Return Value:	`[STX]sAN mDBExeStimuliFile 0[ETX]`

2.4.1.2. Method: ExecuteStimuliCmd

The following section contains a detailed description of the method ExecuteStimuliCmd.

Method Overview

Method Name	Description
ExecuteStimuliCmd	Execute stimuli from command

Communication Name	mDBExeStimuliCmd
Sopas Index	52
Invocation Access	Always

Parameters		
Command		
	FlexString	
	Length	0..2048
	Initialisation	

Return Values		
Result		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mDBExeStimuliCmd <Command>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDBExeStimuliCmd	String	16	Execute stimuli from command
Parameter 1	Command	FlexString	2048	

Method Return Value:				
`sAN mDBExeStimuliCmd <Result>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDBExeStimuliCmd	String	16	Execute stimuli from command
Return Value 1	Result	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDBExeStimuliCmd +0 0[ETX]`
Method Return Value:	`[STX]sAN mDBExeStimuliCmd 0[ETX]`

2.4.1.3. Method: StopStimuliExecution

The following section contains a detailed description of the method StopStimuliExecution.

Method Overview

Method Name	Description
StopStimuliExecution	Stop the stimuli execution

Communication Name	mDBStopStimuliExe
Sopas Index	53
Invocation Access	Always

Return Values	
Result	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mDBStopStimuliExe`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDBStopStimuliExe	String	17	Stop the stimuli execution

Method Return Value:				
`sAN mDBStopStimuliExe <Result>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDBStopStimuliExe	String	17	Stop the stimuli execution
Return Value 1	Result	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDBStopStimuliExe[ETX]`
Method Return Value:	`[STX]sAN mDBStopStimuliExe 0[ETX]`

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2.4.2. Group: TrackingDebugBase

2.4.2.1. Event: TrackingData

The following section contains a detailed description of the event TrackingData.

Event Overview

Event Name	Description
TrackingData	Diagnosis information for Tracking

Communication Name	eCCTrackingData
Sopas Index	14
Queue Length	1

Parameters		
Data		
	FlexString	
	Length	0..2048

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2.4.3. Group: OutputDebugBase

2.4.3.1. Event: DebugString

The following section contains a detailed description of the event DebugString.

Event Overview

Event Name	Description
DebugString	Diagnosis information for Debugging

Communication Name	eCCDebugString
Sopas Index	15
Queue Length	1

Parameters		
Data		
	FlexString	
	Length	0..2048

2.4.3.2. Event: PerfData

The following section contains a detailed description of the event PerfData.

Event Overview

Event Name	Description
PerfData	Diagnosis information for Performance

Communication Name	eCCPerfData
Sopas Index	16
Queue Length	1

Parameters		
Data		
	FlexString	
	Length	0..128

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2.5. Interface Block: GeneralCfgIOBase

2.5.1. Group: DigitalOutputsBase

2.5.1.1. Variable: Out1Func

The following section contains a detailed description of the variable Out1Func.

Variable Overview

Variable Name	Description
Out1Func	Function of Output 1

Communication Name	DO1Fnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	57
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		2	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_COMMAND	
	2	TX_DEVICE_READY	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_SYSTEM_READY	
	6	TX_TEACH1_SUCCESS	
	7	TX_TEACH1_FAIL	
	8	TX_TEACH2_SUCCESS	
	9	TX_TEACH2_FAIL	

Variable Telegram Syntax

Read Variable:

```
sRN DO1Fnc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1Fnc	String	6	Function of Output 1

Read Variable Response:

```
sRA DO1Fnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1Fnc	String	6	Function of Output 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DO1Fnc <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1Fnc	String	6	Function of Output 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DO1Fnc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1Fnc	String	6	Function of Output 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO1Fnc[ETX]
Read Variable Response:	[STX]sRA DO1Fnc 2[ETX]
Write Variable:	[STX]sWN DO1Fnc 2[ETX]
Write Variable Response:	[STX]sWA DO1Fnc[ETX]

2.5.1.2. Variable: Out1FuncEvCndExt

The following section contains a detailed description of the variable Out1FuncEvCndExt.

Variable Overview

Variable Name	Description
Out1FuncEvCndExt	Function of Output 1, EvalCond extension

Communication Name	DO1FncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	58
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN DO1FncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1FncEvExt	String	11	Function of Output 1, EvalCond extension

Read Variable Response:				
`sRA DO1FncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1FncEvExt	String	11	Function of Output 1, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN DO1FncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1FncEvExt	String	11	Function of Output 1, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA DO1FncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1FncEvExt	String	11	Function of Output 1, EvalCond extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1FncEvExt[ETX]`
Read Variable Response:	`[STX]sRA DO1FncEvExt 0 0[ETX]`
Write Variable:	`[STX]sWN DO1FncEvExt 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA DO1FncEvExt[ETX]`

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2.5.1.3. Variable: Out1FuncEvCndEvalTime

The following section contains a detailed description of the variable Out1FuncEvCndEvalTime.

Variable Overview

Variable Name	Description
Out1FuncEvCndEvalTime	Function of Output 1, EvalCond eval. time

Communication Name	DO1FncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	59
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

Variable Telegram Syntax

Read Variable:

```
sRN DO1FncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time

Read Variable Response:

```
sRA DO1FncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DO1FncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DO1FncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DO1FncEvTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO1FncEvTm[ETX]
Read Variable Response:	[STX]sRA DO1FncEvTm 1[ETX]
Write Variable:	[STX]sWN DO1FncEvTm 1[ETX]
Write Variable Response:	[STX]sWA DO1FncEvTm[ETX]

2.5.1.4. Variable: Out1OffFunc

The following section contains a detailed description of the variable Out1OffFunc.

Variable Overview

Variable Name	Description
Out1OffFunc	Off-Function for output 1

Communication Name	DO1OffFnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	60
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIMER_TRACKING	
	1	TX_NEXT_READING_GATE	
	2	TX_COMMAND	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_TEACH1_START	
	6	TX_TEACH2_START	

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Variable Telegram Syntax

Read Variable:				
`sRN DO1OffFnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1OffFnc	String	9	Off-Function for output 1

Read Variable Response:				
`sRA DO1OffFnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1OffFnc	String	9	Off-Function for output 1
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO1OffFnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1OffFnc	String	9	Off-Function for output 1
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO1OffFnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1OffFnc	String	9	Off-Function for output 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1OffFnc[ETX]`
Read Variable Response:	`[STX]sRA DO1OffFnc 0[ETX]`
Write Variable:	`[STX]sWN DO1OffFnc 0[ETX]`
Write Variable Response:	`[STX]sWA DO1OffFnc[ETX]`

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2.5.1.5. Variable: Out1OffFuncEvCndExt

The following section contains a detailed description of the variable Out1OffFuncEvCndExt.

Variable Overview

Variable Name	Description
Out1OffFuncEvCndExt	Extension of List for EvCnd

Communication Name	DO1OffFncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	61
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN DO1OffFncEvExt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1OffFncEvExt	String	14	Extension of List for EvCnd

Read Variable Response:

```
sRA DO1OffFncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:

```
sWN DO1OffFncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

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Write Variable Response:				
sWA DO1OffFncEvExt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1OffFncEvExt	String	14	Extension of List for EvCnd

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO1OffFncEvExt[ETX]
Read Variable Response:	[STX]sRA DO1OffFncEvExt 0 0[ETX]
Write Variable:	[STX]sWN DO1OffFncEvExt 0 +0 0[ETX]
Write Variable Response:	[STX]sWA DO1OffFncEvExt[ETX]

2.5.1.6. Variable: Out1OffFuncEvCndEvalTime

The following section contains a detailed description of the variable Out1OffFuncEvCndEvalTime.

Variable Overview

Variable Name	Description
Out1OffFuncEvCndEvalTime	Function of Output 1, EvalCond eval. time

Communication Name	DO1OffFncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	62
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

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Variable Telegram Syntax

Read Variable:				
`sRN DO1OffFncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time

Read Variable Response:				
`sRA DO1OffFncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO1OffFncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO1OffFncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1OffFncEvTm[ETX]`
Read Variable Response:	`[STX]sRA DO1OffFncEvTm 1[ETX]`
Write Variable:	`[STX]sWN DO1OffFncEvTm 1[ETX]`
Write Variable Response:	`[STX]sWA DO1OffFncEvTm[ETX]`

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2.5.1.7. Variable: Out1Logic

The following section contains a detailed description of the variable Out1Logic.

Variable Overview

Variable Name	Description
Out1Logic	True if Output 1 Function is inverted

Communication Name	DO1Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	63
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

Variable Telegram Syntax

Read Variable:				
`sRN DO1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1Logic	String	8	True if Output 1 Function is inverted

Read Variable Response:				
`sRA DO1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1Logic	String	8	True if Output 1 Function is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1Logic	String	8	True if Output 1 Function is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1Logic	String	8	True if Output 1 Function is inverted

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1Logic[ETX]`
Read Variable Response:	`[STX]sRA DO1Logic 0[ETX]`
Write Variable:	`[STX]sWN DO1Logic 0[ETX]`
Write Variable Response:	`[STX]sWA DO1Logic[ETX]`

2.5.1.8. Variable: Out1DurTime

The following section contains a detailed description of the variable Out1DurTime.

Variable Overview

Variable Name	Description
Out1DurTime	Duration of Output 1 if time controlled

Communication Name	DO1DurTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	64
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	10..10000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DO1DurTm`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1DurTm	String	8	Duration of Output 1 if time controlled

Read Variable Response:

`sRA DO1DurTm <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1DurTm	String	8	Duration of Output 1 if time controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN DO1DurTm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1DurTm	String	8	Duration of Output 1 if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DO1DurTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1DurTm	String	8	Duration of Output 1 if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO1DurTm[ETX]
Read Variable Response:	[STX]sRA DO1DurTm 64[ETX]
Write Variable:	[STX]sWN DO1DurTm 64[ETX]
Write Variable Response:	[STX]sWA DO1DurTm[ETX]

2.5.1.9. Variable: Out1DurTrack

The following section contains a detailed description of the variable Out1DurTrack.

Variable Overview

Variable Name	Description
Out1DurTrack	Duration of Output 1 if track controlled

Communication Name	Do1DurTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	65
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..10000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN Do1DurTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	Do1DurTrk	String	9	Duration of Output 1 if track controlled

Read Variable Response:				
`sRA Do1DurTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	Do1DurTrk	String	9	Duration of Output 1 if track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN Do1DurTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	Do1DurTrk	String	9	Duration of Output 1 if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA Do1DurTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	Do1DurTrk	String	9	Duration of Output 1 if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN Do1DurTrk[ETX]`
Read Variable Response:	`[STX]sRA Do1DurTrk 64[ETX]`
Write Variable:	`[STX]sWN Do1DurTrk 64[ETX]`
Write Variable Response:	`[STX]sWA Do1DurTrk[ETX]`

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2.5.1.10. Variable: Out1Control

The following section contains a detailed description of the variable Out1Control.

Variable Overview

Variable Name	Description
Out1Control	Switch wether output 1 is time or track controlled

Communication Name	DO1Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	66
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:

```
sRN DO1Control
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1Control	String	10	Switch wether output 1 is time or track controlled

Read Variable Response:

```
sRA DO1Control <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1Control	String	10	Switch wether output 1 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DO1Control <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1Control	String	10	Switch wether output 1 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DO1Control
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1Control	String	10	Switch wether output 1 is time or track controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1Control[ETX]`
Read Variable Response:	`[STX]sRA DO1Control 0[ETX]`
Write Variable:	`[STX]sWN DO1Control 0[ETX]`
Write Variable Response:	`[STX]sWA DO1Control[ETX]`

2.5.1.11. Variable: Out2Func

The following section contains a detailed description of the variable Out2Func.

Variable Overview

Variable Name	Description
Out2Func	Function of Output 2

Communication Name	DO2Fnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	67
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		3	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_COMMAND	
	2	TX_DEVICE_READY	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_SYSTEM_READY	
	6	TX_TEACH1_SUCCESS	
	7	TX_TEACH1_FAIL	
	8	TX_TEACH2_SUCCESS	
	9	TX_TEACH2_FAIL	

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Variable Telegram Syntax

Read Variable:				
`sRN DO2Fnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2Fnc	String	6	Function of Output 2

Read Variable Response:				
`sRA DO2Fnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2Fnc	String	6	Function of Output 2
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO2Fnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2Fnc	String	6	Function of Output 2
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO2Fnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2Fnc	String	6	Function of Output 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2Fnc[ETX]`
Read Variable Response:	`[STX]sRA DO2Fnc 3[ETX]`
Write Variable:	`[STX]sWN DO2Fnc 3[ETX]`
Write Variable Response:	`[STX]sWA DO2Fnc[ETX]`

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2.5.1.12. Variable: Out2FuncEvCndExt

The following section contains a detailed description of the variable Out2FuncEvCndExt.

Variable Overview

Variable Name	Description
Out2FuncEvCndExt	Function of Output 2, EvalCond extension

Communication Name	DO2FncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	68
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN DO2FncEvExt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2FncEvExt	String	11	Function of Output 2, EvalCond extension

Read Variable Response:

```
sRA DO2FncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2FncEvExt	String	11	Function of Output 2, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:

```
sWN DO2FncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2FncEvExt	String	11	Function of Output 2, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

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Write Variable Response:				
sWA DO2FncEvExt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2FncEvExt	String	11	Function of Output 2, EvalCond extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO2FncEvExt[ETX]
Read Variable Response:	[STX]sRA DO2FncEvExt 0 0[ETX]
Write Variable:	[STX]sWN DO2FncEvExt 0 +0 0[ETX]
Write Variable Response:	[STX]sWA DO2FncEvExt[ETX]

2.5.1.13. Variable: Out2FuncEvCndEvalTime

The following section contains a detailed description of the variable Out2FuncEvCndEvalTime.

Variable Overview

Variable Name	Description
Out2FuncEvCndEvalTime	Function of Output 2, EvalCond eval. time

Communication Name	DO2FncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	69
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

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Variable Telegram Syntax

Read Variable:				
`sRN DO2FncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time

Read Variable Response:				
`sRA DO2FncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO2FncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO2FncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2FncEvTm[ETX]`
Read Variable Response:	`[STX]sRA DO2FncEvTm 1[ETX]`
Write Variable:	`[STX]sWN DO2FncEvTm 1[ETX]`
Write Variable Response:	`[STX]sWA DO2FncEvTm[ETX]`

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2.5.1.14. Variable: Out2OffFunc

The following section contains a detailed description of the variable Out2OffFunc.

Variable Overview

Variable Name	Description
Out2OffFunc	Off-Function for output 2

Communication Name	DO2OffFnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	70
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIMER_TRACKING	
	1	TX_NEXT_READING_GATE	
	2	TX_COMMAND	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_TEACH1_START	
	6	TX_TEACH2_START	

Variable Telegram Syntax

Read Variable:

```
sRN DO2OffFnc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2OffFnc	String	9	Off-Function for output 2

Read Variable Response:

```
sRA DO2OffFnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2OffFnc	String	9	Off-Function for output 2
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DO2OffFnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2OffFnc	String	9	Off-Function for output 2
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DO2OffFnc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2OffFnc	String	9	Off-Function for output 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO2OffFnc[ETX]
Read Variable Response:	[STX]sRA DO2OffFnc 0[ETX]
Write Variable:	[STX]sWN DO2OffFnc 0[ETX]
Write Variable Response:	[STX]sWA DO2OffFnc[ETX]

2.5.1.15. Variable: Out2OffFuncEvCndExt

The following section contains a detailed description of the variable Out2OffFuncEvCndExt.

Variable Overview

Variable Name	Description
Out2OffFuncEvCndExt	Extension of List for EvCnd

Communication Name	DO2OffFncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	71
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN DO2OffFncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2OffFncEvExt	String	14	Extension of List for EvCnd

Read Variable Response:				
`sRA DO2OffFncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN DO2OffFncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA DO2OffFncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2OffFncEvExt	String	14	Extension of List for EvCnd

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2OffFncEvExt[ETX]`
Read Variable Response:	`[STX]sRA DO2OffFncEvExt 0 0[ETX]`
Write Variable:	`[STX]sWN DO2OffFncEvExt 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA DO2OffFncEvExt[ETX]`

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2.5.1.16. Variable: Out2OffFuncEvCndEvalTime

The following section contains a detailed description of the variable Out2OffFuncEvCndEvalTime.

Variable Overview

Variable Name	Description
Out2OffFuncEvCndEvalTime	Function of Output 2, EvalCond eval. time

Communication Name	DO2OffFncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	72
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

Variable Telegram Syntax

Read Variable:

```
sRN DO2OffFncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time

Read Variable Response:

```
sRA DO2OffFncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DO2OffFncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DO2OffFncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DO2OffFncEvTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO2OffFncEvTm[ETX]
Read Variable Response:	[STX]sRA DO2OffFncEvTm 1[ETX]
Write Variable:	[STX]sWN DO2OffFncEvTm 1[ETX]
Write Variable Response:	[STX]sWA DO2OffFncEvTm[ETX]

2.5.1.17. Variable: Out2Logic

The following section contains a detailed description of the variable Out2Logic.

Variable Overview

Variable Name	Description
Out2Logic	True if Output 2 Function is inverted

Communication Name	DO2Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	73
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

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Variable Telegram Syntax

Read Variable:				
`sRN DO2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2Logic	String	8	True if Output 2 Function is inverted

Read Variable Response:				
`sRA DO2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2Logic	String	8	True if Output 2 Function is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2Logic	String	8	True if Output 2 Function is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2Logic	String	8	True if Output 2 Function is inverted

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2Logic[ETX]`
Read Variable Response:	`[STX]sRA DO2Logic 0[ETX]`
Write Variable:	`[STX]sWN DO2Logic 0[ETX]`
Write Variable Response:	`[STX]sWA DO2Logic[ETX]`

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2.5.1.18. Variable: Out2DurTime

The following section contains a detailed description of the variable Out2DurTime.

Variable Overview

Variable Name	Description
Out2DurTime	Duration of Output 2 if time controlled

Communication Name	DO2DurTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	74
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	10..10000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DO2DurTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2DurTm	String	8	Duration of Output 2 if time controlled

Read Variable Response:

```
sRA DO2DurTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2DurTm	String	8	Duration of Output 2 if time controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN DO2DurTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2DurTm	String	8	Duration of Output 2 if time controlled
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DO2DurTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2DurTm	String	8	Duration of Output 2 if time controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2DurTm[ETX]`
Read Variable Response:	`[STX]sRA DO2DurTm 64[ETX]`
Write Variable:	`[STX]sWN DO2DurTm 64[ETX]`
Write Variable Response:	`[STX]sWA DO2DurTm[ETX]`

2.5.1.19. Variable: Out2DurTrack

The following section contains a detailed description of the variable Out2DurTrack.

Variable Overview

Variable Name	Description
Out2DurTrack	Duration of Output 2 if track controlled

Communication Name	DO2DurTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	75
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..10000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DO2DurTrk`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2DurTrk	String	9	Duration of Output 2 if track controlled

Read Variable Response:

`sRA DO2DurTrk <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2DurTrk	String	9	Duration of Output 2 if track controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN DO2DurTrk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2DurTrk	String	9	Duration of Output 2 if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DO2DurTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2DurTrk	String	9	Duration of Output 2 if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO2DurTrk[ETX]
Read Variable Response:	[STX]sRA DO2DurTrk 64[ETX]
Write Variable:	[STX]sWN DO2DurTrk 64[ETX]
Write Variable Response:	[STX]sWA DO2DurTrk[ETX]

2.5.1.20. Variable: Out2Control

The following section contains a detailed description of the variable Out2Control.

Variable Overview

Variable Name	Description
Out2Control	Switch wether output 2 is time or track controlled

Communication Name	DO2Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	76
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

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Variable Telegram Syntax

Read Variable:				
`sRN DO2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2Control	String	10	Switch wether output 2 is time or track controlled

Read Variable Response:				
`sRA DO2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2Control	String	10	Switch wether output 2 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DO2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2Control	String	10	Switch wether output 2 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DO2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2Control	String	10	Switch wether output 2 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2Control[ETX]`
Read Variable Response:	`[STX]sRA DO2Control 0[ETX]`
Write Variable:	`[STX]sWN DO2Control 0[ETX]`
Write Variable Response:	`[STX]sWA DO2Control[ETX]`

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2.5.1.21. Method: SetOutput

The following section contains a detailed description of the method SetOutput.

Method Overview

Method Name	Description
SetOutput	sets the specified output

Communication Name	mDOSetOutput
Sopas Index	58
Invocation Access	Always

Parameters	
Output	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
Value	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mDOSetOutput <Output> <Value>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDOSetOutput	String	12	sets the specified output
Parameter 1	Output	USInt	1	
Parameter 2	Value	USInt	1	

Method Return Value:

```
sAN mDOSetOutput <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDOSetOutput	String	12	sets the specified output
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDOSetOutput 0 0[ETX]`
Method Return Value:	`[STX]sAN mDOSetOutput 0[ETX]`

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2.5.2. Group: DigitalInputsBase

2.5.2.1. Variable: Sensor1Sensitivity

The following section contains a detailed description of the variable Sensor1Sensitivity.

Variable Overview

Variable Name	Description
Sensor1Sensitivity	Sensitivity of sensor 1

Communication Name	DI1Sens
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	77
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_EDGE	
	1	TX_LEVEL	

Variable Telegram Syntax

Read Variable:

```
sRN DI1Sens
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI1Sens	String	7	Sensitivity of sensor 1

Read Variable Response:

```
sRA DI1Sens <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI1Sens	String	7	Sensitivity of sensor 1
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DI1Sens <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI1Sens	String	7	Sensitivity of sensor 1
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DI1Sens				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI1Sens	String	7	Sensitivity of sensor 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DI1Sens[ETX]
Read Variable Response:	[STX]sRA DI1Sens 0[ETX]
Write Variable:	[STX]sWN DI1Sens 0[ETX]
Write Variable Response:	[STX]sWA DI1Sens[ETX]

2.5.2.2. Variable: Sensor1Logic

The following section contains a detailed description of the variable Sensor1Logic.

Variable Overview

Variable Name	Description
Sensor1Logic	Sensor 1 is inverted

Communication Name	DI1Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	78
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

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Variable Telegram Syntax

Read Variable:				
`sRN DI1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI1Logic	String	8	Sensor 1 is inverted

Read Variable Response:				
`sRA DI1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI1Logic	String	8	Sensor 1 is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DI1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI1Logic	String	8	Sensor 1 is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DI1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI1Logic	String	8	Sensor 1 is inverted

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI1Logic[ETX]`
Read Variable Response:	`[STX]sRA DI1Logic 0[ETX]`
Write Variable:	`[STX]sWN DI1Logic 0[ETX]`
Write Variable Response:	`[STX]sWA DI1Logic[ETX]`

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2.5.2.3. Variable: Sensor1DebounceTime

The following section contains a detailed description of the variable Sensor1DebounceTime.

Variable Overview

Variable Name	Description
Sensor1DebounceTime	Time controlled Debounce value of sensor 1

Communication Name	DI1DebTim
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	79
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	10
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DI1DebTim
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI1DebTim	String	9	Time controlled Debounce value of sensor 1

Read Variable Response:

```
sRA DI1DebTim <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI1DebTim	String	9	Time controlled Debounce value of sensor 1
Variable Data	data	UInt	2	

Write Variable:

```
sWN DI1DebTim <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI1DebTim	String	9	Time controlled Debounce value of sensor 1
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DI1DebTim
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI1DebTim	String	9	Time controlled Debounce value of sensor 1

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI1DebTim[ETX]`
Read Variable Response:	`[STX]sRA DI1DebTim A[ETX]`
Write Variable:	`[STX]sWN DI1DebTim A[ETX]`
Write Variable Response:	`[STX]sWA DI1DebTim[ETX]`

2.5.2.4. Variable: Sensor1DebounceTrack

The following section contains a detailed description of the variable Sensor1DebounceTrack.

Variable Overview

Variable Name	Description
Sensor1DebounceTrack	Track controlled Debounce value of sensor 1

Communication Name	DI1DebTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	80
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	10
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DI1DebTrk`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI1DebTrk	String	9	Track controlled Debounce value of sensor 1

Read Variable Response:

`sRA DI1DebTrk <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI1DebTrk	String	9	Track controlled Debounce value of sensor 1
Variable Data	data	UInt	2	

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Write Variable:				
sWN DI1DebTrk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI1DebTrk	String	9	Track controlled Debounce value of sensor 1
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DI1DebTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI1DebTrk	String	9	Track controlled Debounce value of sensor 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DI1DebTrk[ETX]
Read Variable Response:	[STX]sRA DI1DebTrk A[ETX]
Write Variable:	[STX]sWN DI1DebTrk A[ETX]
Write Variable Response:	[STX]sWA DI1DebTrk[ETX]

2.5.2.5. Variable: Sensor1Control

The following section contains a detailed description of the variable Sensor1Control.

Variable Overview

Variable Name	Description
Sensor1Control	Switch wether sensor 1 is time or track controlled

Communication Name	DI1Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	81
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

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Variable Telegram Syntax

Read Variable:				
`sRN DI1Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI1Control	String	10	Switch wether sensor 1 is time or track controlled

Read Variable Response:				
`sRA DI1Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI1Control	String	10	Switch wether sensor 1 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DI1Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI1Control	String	10	Switch wether sensor 1 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DI1Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI1Control	String	10	Switch wether sensor 1 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI1Control[ETX]`
Read Variable Response:	`[STX]sRA DI1Control 0[ETX]`
Write Variable:	`[STX]sWN DI1Control 0[ETX]`
Write Variable Response:	`[STX]sWA DI1Control[ETX]`

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2.5.2.6. Variable: Sensor2Sensitivity

The following section contains a detailed description of the variable Sensor2Sensitivity.

Variable Overview

Variable Name	Description
Sensor2Sensitivity	Sensitivity of sensor 2

Communication Name	DI2Sens
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	82
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_EDGE	
	1	TX_LEVEL	

Variable Telegram Syntax

Read Variable:				
`sRN DI2Sens`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI2Sens	String	7	Sensitivity of sensor 2

Read Variable Response:				
`sRA DI2Sens <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI2Sens	String	7	Sensitivity of sensor 2
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DI2Sens <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI2Sens	String	7	Sensitivity of sensor 2
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DI2Sens`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI2Sens	String	7	Sensitivity of sensor 2

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI2Sens[ETX]`
Read Variable Response:	`[STX]sRA DI2Sens 0[ETX]`
Write Variable:	`[STX]sWN DI2Sens 0[ETX]`
Write Variable Response:	`[STX]sWA DI2Sens[ETX]`

2.5.2.7. Variable: Sensor2Logic

The following section contains a detailed description of the variable Sensor2Logic.

Variable Overview

Variable Name	Description
Sensor2Logic	Sensor 2 is inverted

Communication Name	DI2Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	83
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

Variable Telegram Syntax

Read Variable:				
`sRN DI2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI2Logic	String	8	Sensor 2 is inverted

Read Variable Response:				
`sRA DI2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI2Logic	String	8	Sensor 2 is inverted
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DI2Logic <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI2Logic	String	8	Sensor 2 is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DI2Logic				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI2Logic	String	8	Sensor 2 is inverted

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DI2Logic[ETX]
Read Variable Response:	[STX]sRA DI2Logic 0[ETX]
Write Variable:	[STX]sWN DI2Logic 0[ETX]
Write Variable Response:	[STX]sWA DI2Logic[ETX]

2.5.2.8. Variable: Sensor2DebounceTime

The following section contains a detailed description of the variable Sensor2DebounceTime.

Variable Overview

Variable Name	Description
Sensor2DebounceTime	Time controlled Debounce value of sensor 2

Communication Name	DI2DebTim
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	84
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	10
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DI2DebTim`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI2DebTim	String	9	Time controlled Debounce value of sensor 2

Read Variable Response:				
`sRA DI2DebTim <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI2DebTim	String	9	Time controlled Debounce value of sensor 2
Variable Data	data	UInt	2	

Write Variable:				
`sWN DI2DebTim <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI2DebTim	String	9	Time controlled Debounce value of sensor 2
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DI2DebTim`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI2DebTim	String	9	Time controlled Debounce value of sensor 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI2DebTim[ETX]`
Read Variable Response:	`[STX]sRA DI2DebTim A[ETX]`
Write Variable:	`[STX]sWN DI2DebTim A[ETX]`
Write Variable Response:	`[STX]sWA DI2DebTim[ETX]`

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2.5.2.9. Variable: Sensor2DebounceTrack

The following section contains a detailed description of the variable Sensor2DebounceTrack.

Variable Overview

Variable Name	Description
Sensor2DebounceTrack	Track controlled Debounce value of sensor 2

Communication Name	DI2DebTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	85
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	10
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DI2DebTrk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI2DebTrk	String	9	Track controlled Debounce value of sensor 2

Read Variable Response:

```
sRA DI2DebTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI2DebTrk	String	9	Track controlled Debounce value of sensor 2
Variable Data	data	UInt	2	

Write Variable:

```
sWN DI2DebTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI2DebTrk	String	9	Track controlled Debounce value of sensor 2
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DI2DebTrk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI2DebTrk	String	9	Track controlled Debounce value of sensor 2

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI2DebTrk[ETX]`
Read Variable Response:	`[STX]sRA DI2DebTrk A[ETX]`
Write Variable:	`[STX]sWN DI2DebTrk A[ETX]`
Write Variable Response:	`[STX]sWA DI2DebTrk[ETX]`

2.5.2.10. Variable: Sensor2Control

The following section contains a detailed description of the variable Sensor2Control.

Variable Overview

Variable Name	Description
Sensor2Control	Switch wether sensor 2 is time or track controlled

Communication Name	DI2Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	86
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:				
`sRN DI2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DI2Control	String	10	Switch wether sensor 2 is time or track controlled

Read Variable Response:				
`sRA DI2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DI2Control	String	10	Switch wether sensor 2 is time or track controlled
Variable Data	data	Enum8	1	

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Write Variable:				
`sWN DI2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DI2Control	String	10	Switch wether sensor 2 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DI2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DI2Control	String	10	Switch wether sensor 2 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DI2Control[ETX]`
Read Variable Response:	`[STX]sRA DI2Control 0[ETX]`
Write Variable:	`[STX]sWN DI2Control 0[ETX]`
Write Variable Response:	`[STX]sWA DI2Control[ETX]`

2.5.2.11. Method: ReadInput

The following section contains a detailed description of the method ReadInput.

Method Overview

Method Name	Description
ReadInput	reads the specified input state

Communication Name	mDIReadInput
Sopas Index	59
Invocation Access	Always

Parameters	
Input	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Return Values	
Value	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:
`sMN mDIReadInput <Input>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDIReadInput	String	12	reads the specified input state
Parameter 1	Input	USInt	1	

Method Return Value:
`sAN mDIReadInput <Value>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDIReadInput	String	12	reads the specified input state
Return Value 1	Value	USInt	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDIReadInput 0[ETX]`
Method Return Value:	`[STX]sAN mDIReadInput 0[ETX]`

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2.6. Interface Block: GeneralCfgExtIOBase

2.6.1. Group: ExternalOutputsBase

2.6.1.1. Variable: ExtOut1Func

The following section contains a detailed description of the variable ExtOut1Func.

Variable Overview

Variable Name	Description
ExtOut1Func	Function of external Output 1

Communication Name	EO1Fnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	87
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_COMMAND	
	2	TX_DEVICE_READY	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_CDF600_FIELDBUS	
	6	TX_SYSTEM_READY	
	7	TX_TEACH1_SUCCESS	
	8	TX_TEACH1_FAIL	
	9	TX_TEACH2_SUCCESS	
	10	TX_TEACH2_FAIL	

Variable Telegram Syntax

Read Variable:				
`sRN EO1Fnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1Fnc	String	6	Function of external Output 1

Read Variable Response:				
`sRA EO1Fnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1Fnc	String	6	Function of external Output 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN EO1Fnc <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1Fnc	String	6	Function of external Output 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA EO1Fnc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1Fnc	String	6	Function of external Output 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO1Fnc[ETX]
Read Variable Response:	[STX]sRA EO1Fnc 0[ETX]
Write Variable:	[STX]sWN EO1Fnc 0[ETX]
Write Variable Response:	[STX]sWA EO1Fnc[ETX]

2.6.1.2. Variable: ExtOut1FuncEvCndExt

The following section contains a detailed description of the variable ExtOut1FuncEvCndExt.

Variable Overview

Variable Name	Description
ExtOut1FuncEvCndExt	Function of external Output 1, EvalCond extension

Communication Name	EO1FncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	88
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN EO1FncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1FncEvExt	String	11	Function of external Output 1, EvalCond extension

Read Variable Response:				
`sRA EO1FncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1FncEvExt	String	11	Function of external Output 1, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN EO1FncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1FncEvExt	String	11	Function of external Output 1, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA EO1FncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1FncEvExt	String	11	Function of external Output 1, EvalCond extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO1FncEvExt[ETX]`
Read Variable Response:	`[STX]sRA EO1FncEvExt 0 0[ETX]`
Write Variable:	`[STX]sWN EO1FncEvExt 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA EO1FncEvExt[ETX]`

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2.6.1.3. Variable: ExtOut1FuncEvCndEvalTime

The following section contains a detailed description of the variable ExtOut1FuncEvCndEvalTime.

Variable Overview

Variable Name	Description
ExtOut1FuncEvCndEvalTime	Function of Output 1, EvalCond eval. time

Communication Name	EO1FncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	89
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

Variable Telegram Syntax

Read Variable:

```
sRN EO1FncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time

Read Variable Response:

```
sRA EO1FncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EO1FncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA EO1FncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EO1FncEvTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EO1FncEvTm	String	10	Function of Output 1, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO1FncEvTm[ETX]
Read Variable Response:	[STX]sRA EO1FncEvTm 1[ETX]
Write Variable:	[STX]sWN EO1FncEvTm 1[ETX]
Write Variable Response:	[STX]sWA EO1FncEvTm[ETX]

2.6.1.4. Variable: ExtOut1OffFunc

The following section contains a detailed description of the variable ExtOut1OffFunc.

Variable Overview

Variable Name	Description
ExtOut1OffFunc	Off-Function for ext. out. 1

Communication Name	EO1OffFnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	90
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIMER_TRACKING	
	1	TX_NEXT_READING_GATE	
	2	TX_COMMAND	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_TEACH1_START	
	6	TX_TEACH2_START	

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Variable Telegram Syntax

Read Variable:				
`sRN EO1OffFnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1OffFnc	String	9	Off-Function for ext. out. 1

Read Variable Response:				
`sRA EO1OffFnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1OffFnc	String	9	Off-Function for ext. out. 1
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO1OffFnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1OffFnc	String	9	Off-Function for ext. out. 1
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO1OffFnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1OffFnc	String	9	Off-Function for ext. out. 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO1OffFnc[ETX]`
Read Variable Response:	`[STX]sRA EO1OffFnc 0[ETX]`
Write Variable:	`[STX]sWN EO1OffFnc 0[ETX]`
Write Variable Response:	`[STX]sWA EO1OffFnc[ETX]`

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2.6.1.5. Variable: ExtOut1OffFuncEvCndExt

The following section contains a detailed description of the variable ExtOut1OffFuncEvCndExt.

Variable Overview

Variable Name	Description
ExtOut1OffFuncEvCndExt	Extension of List for EvCnd

Communication Name	EO1OffFncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	91
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN EO1OffFncEvExt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1OffFncEvExt	String	14	Extension of List for EvCnd

Read Variable Response:

```
sRA EO1OffFncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:

```
sWN EO1OffFncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

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Write Variable Response:				
sWA EO1OffFncEvExt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1OffFncEvExt	String	14	Extension of List for EvCnd

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO1OffFncEvExt[ETX]
Read Variable Response:	[STX]sRA EO1OffFncEvExt 0 0[ETX]
Write Variable:	[STX]sWN EO1OffFncEvExt 0 +0 0[ETX]
Write Variable Response:	[STX]sWA EO1OffFncEvExt[ETX]

2.6.1.6. Variable: ExtOut1OffFuncEvCndEvalTime

The following section contains a detailed description of the variable ExtOut1OffFuncEvCndEvalTime.

Variable Overview

Variable Name	Description
ExtOut1OffFuncEvCndEvalTime	Function of Output 1, EvalCond eval. time

Communication Name	EO1OffFncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	92
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

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Variable Telegram Syntax

Read Variable:				
`sRN EO1OffFncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time

Read Variable Response:				
`sRA EO1OffFncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO1OffFncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO1OffFncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1OffFncEvTm	String	13	Function of Output 1, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO1OffFncEvTm[ETX]`
Read Variable Response:	`[STX]sRA EO1OffFncEvTm 1[ETX]`
Write Variable:	`[STX]sWN EO1OffFncEvTm 1[ETX]`
Write Variable Response:	`[STX]sWA EO1OffFncEvTm[ETX]`

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2.6.1.7. Variable: ExtOut1Logic

The following section contains a detailed description of the variable ExtOut1Logic.

Variable Overview

Variable Name	Description
ExtOut1Logic	True if external Output 1 Function is inverted

Communication Name	EO1Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	93
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

Variable Telegram Syntax

Read Variable:				
`sRN EO1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1Logic	String	8	True if external Output 1 Function is inverted

Read Variable Response:				
`sRA EO1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1Logic	String	8	True if external Output 1 Function is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1Logic	String	8	True if external Output 1 Function is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1Logic	String	8	True if external Output 1 Function is inverted

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO1Logic[ETX]`
Read Variable Response:	`[STX]sRA EO1Logic 0[ETX]`
Write Variable:	`[STX]sWN EO1Logic 0[ETX]`
Write Variable Response:	`[STX]sWA EO1Logic[ETX]`

2.6.1.8. Variable: ExtOut1DurTime

The following section contains a detailed description of the variable ExtOut1DurTime.

Variable Overview

Variable Name	Description
ExtOut1DurTime	Duration of external Output 1 if time controlled

Communication Name	EO1DurTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	94
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	10..10000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN EO1DurTm`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1DurTm	String	8	Duration of external Output 1 if time controlled

Read Variable Response:

`sRA EO1DurTm <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1DurTm	String	8	Duration of external Output 1 if time controlled
Variable Data	data	UInt	2	

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Write Variable:				
`sWN EO1DurTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1DurTm	String	8	Duration of external Output 1 if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EO1DurTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1DurTm	String	8	Duration of external Output 1 if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO1DurTm[ETX]`
Read Variable Response:	`[STX]sRA EO1DurTm 64[ETX]`
Write Variable:	`[STX]sWN EO1DurTm 64[ETX]`
Write Variable Response:	`[STX]sWA EO1DurTm[ETX]`

2.6.1.9. Variable: ExtOut1DurTrack

The following section contains a detailed description of the variable ExtOut1DurTrack.

Variable Overview

Variable Name	Description
ExtOut1DurTrack	Duration of external Output 1 if track controlled

Communication Name	EO1DurTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	95
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..10000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EO1DurTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1DurTrk	String	9	Duration of external Output 1 if track controlled

Read Variable Response:				
`sRA EO1DurTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1DurTrk	String	9	Duration of external Output 1 if track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN EO1DurTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1DurTrk	String	9	Duration of external Output 1 if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EO1DurTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1DurTrk	String	9	Duration of external Output 1 if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO1DurTrk[ETX]`
Read Variable Response:	`[STX]sRA EO1DurTrk 64[ETX]`
Write Variable:	`[STX]sWN EO1DurTrk 64[ETX]`
Write Variable Response:	`[STX]sWA EO1DurTrk[ETX]`

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2.6.1.10. Variable: ExtOut1Control

The following section contains a detailed description of the variable ExtOut1Control.

Variable Overview

Variable Name	Description
ExtOut1Control	Switch wether external output 1 is time or track controlled

Communication Name	EO1Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	96
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:

```
sRN EO1Control
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO1Control	String	10	Switch wether external output 1 is time or track controlled

Read Variable Response:

```
sRA EO1Control <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO1Control	String	10	Switch wether external output 1 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EO1Control <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO1Control	String	10	Switch wether external output 1 is time or track controlled
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EO1Control				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO1Control	String	10	Switch wether external output 1 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO1Control[ETX]
Read Variable Response:	[STX]sRA EO1Control 0[ETX]
Write Variable:	[STX]sWN EO1Control 0[ETX]
Write Variable Response:	[STX]sWA EO1Control[ETX]

2.6.1.11. Variable: ExtOut2Func

The following section contains a detailed description of the variable ExtOut2Func.

Variable Overview

Variable Name	Description
ExtOut2Func	Function of external Output 2

Communication Name	EO2Fnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	97
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_COMMAND	
	2	TX_DEVICE_READY	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_CDF600_FIELDBUS	
	6	TX_SYSTEM_READY	
	7	TX_TEACH1_SUCCESS	
	8	TX_TEACH1_FAIL	
	9	TX_TEACH2_SUCCESS	
	10	TX_TEACH2_FAIL	

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Variable Telegram Syntax

Read Variable:				
`sRN EO2Fnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2Fnc	String	6	Function of external Output 2

Read Variable Response:				
`sRA EO2Fnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2Fnc	String	6	Function of external Output 2
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO2Fnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2Fnc	String	6	Function of external Output 2
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO2Fnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2Fnc	String	6	Function of external Output 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO2Fnc[ETX]`
Read Variable Response:	`[STX]sRA EO2Fnc 0[ETX]`
Write Variable:	`[STX]sWN EO2Fnc 0[ETX]`
Write Variable Response:	`[STX]sWA EO2Fnc[ETX]`

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2.6.1.12. Variable: ExtOut2FuncEvCndExt

The following section contains a detailed description of the variable ExtOut2FuncEvCndExt.

Variable Overview

Variable Name	Description
ExtOut2FuncEvCndExt	Function of external Output 2, EvalCond extension

Communication Name	EO2FncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	98
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN EO2FncEvExt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2FncEvExt	String	11	Function of external Output 2, EvalCond extension

Read Variable Response:

```
sRA EO2FncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2FncEvExt	String	11	Function of external Output 2, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:

```
sWN EO2FncEvExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2FncEvExt	String	11	Function of external Output 2, EvalCond extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

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Write Variable Response:				
sWA EO2FncEvExt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2FncEvExt	String	11	Function of external Output 2, EvalCond extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO2FncEvExt[ETX]
Read Variable Response:	[STX]sRA EO2FncEvExt 0 0[ETX]
Write Variable:	[STX]sWN EO2FncEvExt 0 +0 0[ETX]
Write Variable Response:	[STX]sWA EO2FncEvExt[ETX]

2.6.1.13. Variable: ExtOut2FuncEvCndEvalTime

The following section contains a detailed description of the variable ExtOut2FuncEvCndEvalTime.

Variable Overview

Variable Name	Description
ExtOut2FuncEvCndEvalTime	Function of Output 2, EvalCond eval. time

Communication Name	EO2FncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	99
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

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Variable Telegram Syntax

Read Variable:				
`sRN EO2FncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time

Read Variable Response:				
`sRA EO2FncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO2FncEvTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO2FncEvTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2FncEvTm	String	10	Function of Output 2, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO2FncEvTm[ETX]`
Read Variable Response:	`[STX]sRA EO2FncEvTm 1[ETX]`
Write Variable:	`[STX]sWN EO2FncEvTm 1[ETX]`
Write Variable Response:	`[STX]sWA EO2FncEvTm[ETX]`

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2.6.1.14. Variable: ExtOut2OffFunc

The following section contains a detailed description of the variable ExtOut2OffFunc.

Variable Overview

Variable Name	Description
ExtOut2OffFunc	Off-Function for ext. out. 2

Communication Name	EO2OffFnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	100
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIMER_TRACKING	
	1	TX_NEXT_READING_GATE	
	2	TX_COMMAND	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_TEACH1_START	
	6	TX_TEACH2_START	

Variable Telegram Syntax

Read Variable:

```
sRN EO2OffFnc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2OffFnc	String	9	Off-Function for ext. out. 2

Read Variable Response:

```
sRA EO2OffFnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2OffFnc	String	9	Off-Function for ext. out. 2
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EO2OffFnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2OffFnc	String	9	Off-Function for ext. out. 2
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EO2OffFnc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2OffFnc	String	9	Off-Function for ext. out. 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO2OffFnc[ETX]
Read Variable Response:	[STX]sRA EO2OffFnc 0[ETX]
Write Variable:	[STX]sWN EO2OffFnc 0[ETX]
Write Variable Response:	[STX]sWA EO2OffFnc[ETX]

2.6.1.15. Variable: ExtOut2OffFuncEvCndExt

The following section contains a detailed description of the variable ExtOut2OffFuncEvCndExt.

Variable Overview

Variable Name	Description
ExtOut2OffFuncEvCndExt	Extension of List for EvCnd

Communication Name	EO2OffFncEvExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	101
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN EO2OffFncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2OffFncEvExt	String	14	Extension of List for EvCnd

Read Variable Response:				
`sRA EO2OffFncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN EO2OffFncEvExt <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2OffFncEvExt	String	14	Extension of List for EvCnd
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA EO2OffFncEvExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2OffFncEvExt	String	14	Extension of List for EvCnd

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO2OffFncEvExt[ETX]`
Read Variable Response:	`[STX]sRA EO2OffFncEvExt 0 0[ETX]`
Write Variable:	`[STX]sWN EO2OffFncEvExt 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA EO2OffFncEvExt[ETX]`

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2.6.1.16. Variable: ExtOut2OffFuncEvCndEvalTime

The following section contains a detailed description of the variable ExtOut2OffFuncEvCndEvalTime.

Variable Overview

Variable Name	Description
ExtOut2OffFuncEvCndEvalTime	Function of Output 2, EvalCond eval. time

Communication Name	EO2OffFncEvTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	102
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OBJECT_RELEASE	
	Value	Name	Description
	0	TX_ASAP	
	1	TX_OBJECT_RELEASE	
	2	TX_OBJECT_PUBLISH	

Variable Telegram Syntax

Read Variable:

```
sRN EO2OffFncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time

Read Variable Response:

```
sRA EO2OffFncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EO2OffFncEvTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA EO2OffFncEvTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EO2OffFncEvTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EO2OffFncEvTm	String	13	Function of Output 2, EvalCond eval. time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO2OffFncEvTm[ETX]
Read Variable Response:	[STX]sRA EO2OffFncEvTm 1[ETX]
Write Variable:	[STX]sWN EO2OffFncEvTm 1[ETX]
Write Variable Response:	[STX]sWA EO2OffFncEvTm[ETX]

2.6.1.17. Variable: ExtOut2Logic

The following section contains a detailed description of the variable ExtOut2Logic.

Variable Overview

Variable Name	Description
ExtOut2Logic	True if external Output 2 Function is inverted

Communication Name	EO2Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	103
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

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Variable Telegram Syntax

Read Variable:				
`sRN EO2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2Logic	String	8	True if external Output 2 Function is inverted

Read Variable Response:				
`sRA EO2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2Logic	String	8	True if external Output 2 Function is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2Logic	String	8	True if external Output 2 Function is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2Logic	String	8	True if external Output 2 Function is inverted

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO2Logic[ETX]`
Read Variable Response:	`[STX]sRA EO2Logic 0[ETX]`
Write Variable:	`[STX]sWN EO2Logic 0[ETX]`
Write Variable Response:	`[STX]sWA EO2Logic[ETX]`

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2.6.1.18. Variable: ExtOut2DurTime

The following section contains a detailed description of the variable ExtOut2DurTime.

Variable Overview

Variable Name	Description
ExtOut2DurTime	Duration of external Output 2 if time controlled

Communication Name	EO2DurTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	104
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	10..10000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EO2DurTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2DurTm	String	8	Duration of external Output 2 if time controlled

Read Variable Response:

```
sRA EO2DurTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2DurTm	String	8	Duration of external Output 2 if time controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN EO2DurTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2DurTm	String	8	Duration of external Output 2 if time controlled
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA EO2DurTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2DurTm	String	8	Duration of external Output 2 if time controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO2DurTm[ETX]`
Read Variable Response:	`[STX]sRA EO2DurTm 64[ETX]`
Write Variable:	`[STX]sWN EO2DurTm 64[ETX]`
Write Variable Response:	`[STX]sWA EO2DurTm[ETX]`

2.6.1.19. Variable: ExtOut2DurTrack

The following section contains a detailed description of the variable ExtOut2DurTrack.

Variable Overview

Variable Name	Description
ExtOut2DurTrack	Duration of external Output 2 if track controlled

Communication Name	EO2DurTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	105
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..10000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN EO2DurTrk`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2DurTrk	String	9	Duration of external Output 2 if track controlled

Read Variable Response:

`sRA EO2DurTrk <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2DurTrk	String	9	Duration of external Output 2 if track controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN EO2DurTrk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2DurTrk	String	9	Duration of external Output 2 if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA EO2DurTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2DurTrk	String	9	Duration of external Output 2 if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EO2DurTrk[ETX]
Read Variable Response:	[STX]sRA EO2DurTrk 64[ETX]
Write Variable:	[STX]sWN EO2DurTrk 64[ETX]
Write Variable Response:	[STX]sWA EO2DurTrk[ETX]

2.6.1.20. Variable: ExtOut2Control

The following section contains a detailed description of the variable ExtOut2Control.

Variable Overview

Variable Name	Description
ExtOut2Control	Switch wether external output 2 is time or track controlled

Communication Name	EO2Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	106
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

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Variable Telegram Syntax

Read Variable:				
`sRN EO2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EO2Control	String	10	Switch wether external output 2 is time or track controlled

Read Variable Response:				
`sRA EO2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EO2Control	String	10	Switch wether external output 2 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EO2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EO2Control	String	10	Switch wether external output 2 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EO2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EO2Control	String	10	Switch wether external output 2 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EO2Control[ETX]`
Read Variable Response:	`[STX]sRA EO2Control 0[ETX]`
Write Variable:	`[STX]sWN EO2Control 0[ETX]`
Write Variable Response:	`[STX]sWA EO2Control[ETX]`

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2.6.1.21. Method: SetExtOutput

The following section contains a detailed description of the method SetExtOutput.

Method Overview

Method Name	Description
SetExtOutput	sets the specified external output

Communication Name	mEOSetOutput
Sopas Index	60
Invocation Access	Always

Parameters		
Output		
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
Value		
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mEOSetOutput <Output> <Value>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mEOSetOutput	String	12	sets the specified external output
Parameter 1	Output	USInt	1	
Parameter 2	Value	USInt	1	

Method Return Value:

```
sAN mEOSetOutput <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mEOSetOutput	String	12	sets the specified external output
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mEOSetOutput 0 0[ETX]`
Method Return Value:	`[STX]sAN mEOSetOutput 0[ETX]`

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2.6.2. Group: ExternalInputsBase

2.6.2.1. Variable: ExtSensor1Sensitivity

The following section contains a detailed description of the variable ExtSensor1Sensitivity.

Variable Overview

Variable Name	Description
ExtSensor1Sensitivity	Sensitivity of external sensor 1

Communication Name	EI1Sens
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	107
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_EDGE	
	1	TX_LEVEL	

Variable Telegram Syntax

Read Variable:

```
sRN EI1Sens
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI1Sens	String	7	Sensitivity of external sensor 1

Read Variable Response:

```
sRA EI1Sens <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI1Sens	String	7	Sensitivity of external sensor 1
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EI1Sens <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI1Sens	String	7	Sensitivity of external sensor 1
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EI1Sens				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI1Sens	String	7	Sensitivity of external sensor 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EI1Sens[ETX]
Read Variable Response:	[STX]sRA EI1Sens 0[ETX]
Write Variable:	[STX]sWN EI1Sens 0[ETX]
Write Variable Response:	[STX]sWA EI1Sens[ETX]

2.6.2.2. Variable: ExtSensor1Logic

The following section contains a detailed description of the variable ExtSensor1Logic.

Variable Overview

Variable Name	Description
ExtSensor1Logic	External Sensor 1 is inverted

Communication Name	EI1Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	108
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

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Variable Telegram Syntax

Read Variable:				
`sRN EI1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI1Logic	String	8	External Sensor 1 is inverted

Read Variable Response:				
`sRA EI1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI1Logic	String	8	External Sensor 1 is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EI1Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI1Logic	String	8	External Sensor 1 is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EI1Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI1Logic	String	8	External Sensor 1 is inverted

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EI1Logic[ETX]`
Read Variable Response:	`[STX]sRA EI1Logic 0[ETX]`
Write Variable:	`[STX]sWN EI1Logic 0[ETX]`
Write Variable Response:	`[STX]sWA EI1Logic[ETX]`

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2.6.2.3. Variable: ExtSensor1DebounceTime

The following section contains a detailed description of the variable ExtSensor1DebounceTime.

Variable Overview

Variable Name	Description
ExtSensor1DebounceTime	Time controlled Debounce value of external sensor 1

Communication Name	EI1DebTim
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	109
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..2000
Initialisation	10
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EI1DebTim
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI1DebTim	String	9	Time controlled Debounce value of external sensor 1

Read Variable Response:

```
sRA EI1DebTim <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI1DebTim	String	9	Time controlled Debounce value of external sensor 1
Variable Data	data	UInt	2	

Write Variable:

```
sWN EI1DebTim <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI1DebTim	String	9	Time controlled Debounce value of external sensor 1
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA EI1DebTim				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI1DebTim	String	9	Time controlled Debounce value of external sensor 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EI1DebTim[ETX]
Read Variable Response:	[STX]sRA EI1DebTim A[ETX]
Write Variable:	[STX]sWN EI1DebTim A[ETX]
Write Variable Response:	[STX]sWA EI1DebTim[ETX]

2.6.2.4. Variable: ExtSensor1DebounceTrack

The following section contains a detailed description of the variable ExtSensor1DebounceTrack.

Variable Overview

Variable Name	Description
ExtSensor1DebounceTrack	Track controlled Debounce value of external sensor 1

Communication Name	EI1DebTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	110
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..2000
Initialisation	10
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EI1DebTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI1DebTrk	String	9	Track controlled Debounce value of external sensor 1

Read Variable Response:				
`sRA EI1DebTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI1DebTrk	String	9	Track controlled Debounce value of external sensor 1
Variable Data	data	UInt	2	

Write Variable:				
`sWN EI1DebTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI1DebTrk	String	9	Track controlled Debounce value of external sensor 1
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EI1DebTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI1DebTrk	String	9	Track controlled Debounce value of external sensor 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EI1DebTrk[ETX]`
Read Variable Response:	`[STX]sRA EI1DebTrk A[ETX]`
Write Variable:	`[STX]sWN EI1DebTrk A[ETX]`
Write Variable Response:	`[STX]sWA EI1DebTrk[ETX]`

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2.6.2.5. Variable: ExtSensor1Control

The following section contains a detailed description of the variable ExtSensor1Control.

Variable Overview

Variable Name	Description
ExtSensor1Control	Switch wether external sensor 1 is time or track controlled

Communication Name	EI1Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	111
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:				
`sRN EI1Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI1Control	String	10	Switch wether external sensor 1 is time or track controlled

Read Variable Response:				
`sRA EI1Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI1Control	String	10	Switch wether external sensor 1 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EI1Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI1Control	String	10	Switch wether external sensor 1 is time or track controlled
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EI1Control				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI1Control	String	10	Switch wether external sensor 1 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EI1Control[ETX]
Read Variable Response:	[STX]sRA EI1Control 0[ETX]
Write Variable:	[STX]sWN EI1Control 0[ETX]
Write Variable Response:	[STX]sWA EI1Control[ETX]

2.6.2.6. Variable: ExtSensor2Sensitivity

The following section contains a detailed description of the variable ExtSensor2Sensitivity.

Variable Overview

Variable Name	Description
ExtSensor2Sensitivity	Sensitivity of external sensor 2

Communication Name	EI2Sens
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	112
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_EDGE	
	1	TX_LEVEL	

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Variable Telegram Syntax

Read Variable:				
`sRN EI2Sens`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI2Sens	String	7	Sensitivity of external sensor 2

Read Variable Response:				
`sRA EI2Sens <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI2Sens	String	7	Sensitivity of external sensor 2
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EI2Sens <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI2Sens	String	7	Sensitivity of external sensor 2
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EI2Sens`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI2Sens	String	7	Sensitivity of external sensor 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EI2Sens[ETX]`
Read Variable Response:	`[STX]sRA EI2Sens 0[ETX]`
Write Variable:	`[STX]sWN EI2Sens 0[ETX]`
Write Variable Response:	`[STX]sWA EI2Sens[ETX]`

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2.6.2.7. Variable: ExtSensor2Logic

The following section contains a detailed description of the variable ExtSensor2Logic.

Variable Overview

Variable Name	Description
ExtSensor2Logic	External Sensor 2 is inverted

Communication Name	EI2Logic
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	113
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_ACTIVE_HIGH	
	1	TX_ACTIVE_LOW	

Variable Telegram Syntax

Read Variable:				
`sRN EI2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI2Logic	String	8	External Sensor 2 is inverted

Read Variable Response:				
`sRA EI2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI2Logic	String	8	External Sensor 2 is inverted
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EI2Logic <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI2Logic	String	8	External Sensor 2 is inverted
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EI2Logic`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI2Logic	String	8	External Sensor 2 is inverted

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EI2Logic[ETX]`
Read Variable Response:	`[STX]sRA EI2Logic 0[ETX]`
Write Variable:	`[STX]sWN EI2Logic 0[ETX]`
Write Variable Response:	`[STX]sWA EI2Logic[ETX]`

2.6.2.8. Variable: ExtSensor2DebounceTime

The following section contains a detailed description of the variable ExtSensor2DebounceTime.

Variable Overview

Variable Name	Description
ExtSensor2DebounceTime	Time controlled Debounce value of external sensor 2

Communication Name	EI2DebTim
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	114
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..2000
Initialisation	10
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN EI2DebTim`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI2DebTim	String	9	Time controlled Debounce value of external sensor 2

Read Variable Response:

`sRA EI2DebTim <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI2DebTim	String	9	Time controlled Debounce value of external sensor 2
Variable Data	data	UInt	2	

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Write Variable:				
sWN EI2DebTim <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI2DebTim	String	9	Time controlled Debounce value of external sensor 2
Variable Data	data	UInt	2	

Write Variable Response:				
sWA EI2DebTim				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI2DebTim	String	9	Time controlled Debounce value of external sensor 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EI2DebTim[ETX]
Read Variable Response:	[STX]sRA EI2DebTim A[ETX]
Write Variable:	[STX]sWN EI2DebTim A[ETX]
Write Variable Response:	[STX]sWA EI2DebTim[ETX]

2.6.2.9. Variable: ExtSensor2DebounceTrack

The following section contains a detailed description of the variable ExtSensor2DebounceTrack.

Variable Overview

Variable Name	Description
ExtSensor2DebounceTrack	Track controlled Debounce value of external sensor 2

Communication Name	EI2DebTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	115
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..2000
Initialisation	10
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EI2DebTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI2DebTrk	String	9	Track controlled Debounce value of external sensor 2

Read Variable Response:				
`sRA EI2DebTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI2DebTrk	String	9	Track controlled Debounce value of external sensor 2
Variable Data	data	UInt	2	

Write Variable:				
`sWN EI2DebTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI2DebTrk	String	9	Track controlled Debounce value of external sensor 2
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EI2DebTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI2DebTrk	String	9	Track controlled Debounce value of external sensor 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EI2DebTrk[ETX]`
Read Variable Response:	`[STX]sRA EI2DebTrk A[ETX]`
Write Variable:	`[STX]sWN EI2DebTrk A[ETX]`
Write Variable Response:	`[STX]sWA EI2DebTrk[ETX]`

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2.6.2.10. Variable: ExtSensor2Control

The following section contains a detailed description of the variable ExtSensor2Control.

Variable Overview

Variable Name	Description
ExtSensor2Control	Switch wether external sensor 2 is time or track controlled

Communication Name	EI2Control
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	116
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:				
`sRN EI2Control`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EI2Control	String	10	Switch wether external sensor 2 is time or track controlled

Read Variable Response:				
`sRA EI2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EI2Control	String	10	Switch wether external sensor 2 is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EI2Control <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EI2Control	String	10	Switch wether external sensor 2 is time or track controlled
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EI2Control				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EI2Control	String	10	Switch wether external sensor 2 is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EI2Control[ETX]
Read Variable Response:	[STX]sRA EI2Control 0[ETX]
Write Variable:	[STX]sWN EI2Control 0[ETX]
Write Variable Response:	[STX]sWA EI2Control[ETX]

2.6.2.11. Method: ReadExtInput

The following section contains a detailed description of the method ReadExtInput.

Method Overview

Method Name	Description
ReadExtInput	reads the specified external input state

Communication Name	mEIReadInput
Sopas Index	61
Invocation Access	Always

Parameters	
Input	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
Value	
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mEIReadInput <Input>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mEIReadInput	String	12	reads the specified external input state
Parameter 1	Input	USInt	1	

Method Return Value:				
`sAN mEIReadInput <Value>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mEIReadInput	String	12	reads the specified external input state
Return Value 1	Value	USInt	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mEIReadInput 0[ETX]`
Method Return Value:	`[STX]sAN mEIReadInput 0[ETX]`

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2.7. Interface Block: GeneralCfgDecoding1DBase

2.7.1. Group: Decoding1DBase

2.7.1.1. Variable: CBARActive

The following section contains a detailed description of the variable CBARActive.

Variable Overview

Variable Name	Description
CBARActive	Activates Codabar Decoder

Communication Name	DCCBARAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	117
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCCBARAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARAct	String	9	Activates Codabar Decoder

Read Variable Response:

```
sRA DCCBARAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARAct	String	9	Activates Codabar Decoder
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCCBARAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARAct	String	9	Activates Codabar Decoder
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA DCCBARAct				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARAct	String	9	Activates Codabar Decoder

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCCBARAct[ETX]
Read Variable Response:	[STX]sRA DCCBARAct 0[ETX]
Write Variable:	[STX]sWN DCCBARAct 0[ETX]
Write Variable Response:	[STX]sWA DCCBARAct[ETX]

2.7.1.2. Variable: CBARMultiRead

The following section contains a detailed description of the variable CBARMultiRead.

Variable Overview

Variable Name	Description
CBARMultiRead	Multiread of Codabar

Communication Name	DCCBARMr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	118
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCCBARMr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARMr	String	8	Multiread of Codabar

Read Variable Response:				
`sRA DCCBARMr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARMr	String	8	Multiread of Codabar
Variable Data	data	UInt	2	

Write Variable:				
`sWN DCCBARMr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARMr	String	8	Multiread of Codabar
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCCBARMr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARMr	String	8	Multiread of Codabar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCBARMr[ETX]`
Read Variable Response:	`[STX]sRA DCCBARMr 3[ETX]`
Write Variable:	`[STX]sWN DCCBARMr 3[ETX]`
Write Variable Response:	`[STX]sWA DCCBARMr[ETX]`

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2.7.1.3. Variable: CBARStaStoIdent

The following section contains a detailed description of the variable CBARStaStoIdent.

Variable Overview

Variable Name	Description
CBARStaStoIdent	Start/Stop identical Codabar

Communication Name	DCCBARStId
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	119
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCCBARStId
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARStId	String	10	Start/Stop identical Codabar

Read Variable Response:

```
sRA DCCBARStId <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARStId	String	10	Start/Stop identical Codabar
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCCBARStId <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARStId	String	10	Start/Stop identical Codabar
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCCBARStId
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARStId	String	10	Start/Stop identical Codabar

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCBARStId[ETX]`
Read Variable Response:	`[STX]sRA DCCBARStId 0[ETX]`
Write Variable:	`[STX]sWN DCCBARStId 0[ETX]`
Write Variable Response:	`[STX]sWA DCCBARStId[ETX]`

2.7.1.4. Variable: CBARStaStoTransmit

The following section contains a detailed description of the variable CBARStaStoTransmit.

Variable Overview

Variable Name	Description
CBARStaStoTransmit	Start/Stop transmit Codabar

Communication Name	DCCBARStTx
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	120
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

`sRN DCCBARStTx`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARStTx	String	10	Start/Stop transmit Codabar

Read Variable Response:

`sRA DCCBARStTx <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARStTx	String	10	Start/Stop transmit Codabar
Variable Data	data	Bool	1	

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Write Variable:				
sWN DCCBARStTx <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARStTx	String	10	Start/Stop transmit Codabar
Variable Data	data	Bool	1	

Write Variable Response:				
sWA DCCBARStTx				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARStTx	String	10	Start/Stop transmit Codabar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCCBARStTx[ETX]
Read Variable Response:	[STX]sRA DCCBARStTx 0[ETX]
Write Variable:	[STX]sWN DCCBARStTx 0[ETX]
Write Variable Response:	[STX]sWA DCCBARStTx[ETX]

2.7.1.5. Variable: CBARCheckDigitTest

The following section contains a detailed description of the variable CBARCheckDigitTest.

Variable Overview

Variable Name	Description
CBARCheckDigitTest	Check Digit Test for Codabar

Communication Name	DCCBARCdTst
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	121
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_7DR	
	3	TX_Modulo_16	

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Variable Telegram Syntax

Read Variable:				
`sRN DCCBARCdTst`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARCdTst	String	11	Check Digit Test for Codabar

Read Variable Response:				
`sRA DCCBARCdTst <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARCdTst	String	11	Check Digit Test for Codabar
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCCBARCdTst <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARCdTst	String	11	Check Digit Test for Codabar
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCCBARCdTst`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARCdTst	String	11	Check Digit Test for Codabar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCBARCdTst[ETX]`
Read Variable Response:	`[STX]sRA DCCBARCdTst 0[ETX]`
Write Variable:	`[STX]sWN DCCBARCdTst 0[ETX]`
Write Variable Response:	`[STX]sWA DCCBARCdTst[ETX]`

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2.7.1.6. Variable: CBARLengthMode

The following section contains a detailed description of the variable CBARLengthMode.

Variable Overview

Variable Name	Description
CBARLengthMode	Codelength mode of Codabar

Communication Name	DCCBARLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	122
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCCBARLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARLenMode	String	13	Codelength mode of Codabar

Read Variable Response:

```
sRA DCCBARLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARLenMode	String	13	Codelength mode of Codabar
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCCBARLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARLenMode	String	13	Codelength mode of Codabar
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCCBARLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCCBARLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCCBARLenMode	String	13	Codelength mode of Codabar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCCBARLenMode[ETX]
Read Variable Response:	[STX]sRA DCCBARLenMode 0[ETX]
Write Variable:	[STX]sWN DCCBARLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCCBARLenMode[ETX]

2.7.1.7. Variable: CBARFixLenList

The following section contains a detailed description of the variable CBARFixLenList.

Variable Overview

Variable Name	Description
CBARFixLenList	List of fix code lengths

Communication Name	DCCBARFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	123
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..50
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCCBARFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARFixLen	String	12	List of fix code lengths

Read Variable Response:				
`sRA DCCBARFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARFixLen	String	12	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCCBARFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARFixLen	String	12	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCCBARFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARFixLen	String	12	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCBARFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCCBARFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCCBARFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCCBARFixLen[ETX]`

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2.7.1.8. Variable: CBARIntLenList

The following section contains a detailed description of the variable CBARIntLenList.

Variable Overview

Variable Name	Description
CBARIntLenList	List of interval code lengths

Communication Name	DCCBARIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	124
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..50
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCCBARIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARIntLen	String	12	List of interval code lengths

Read Variable Response:

```
sRA DCCBARIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARIntLen	String	12	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCCBARIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARIntLen	String	12	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCCBARIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARIntLen	String	12	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCCBARIntLen[ETX]
Read Variable Response:	[STX]sRA DCCBARIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCCBARIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCCBARIntLen[ETX]

2.7.1.9. Variable: CBARAllowIncomplete

The following section contains a detailed description of the variable CBARAllowIncomplete.

Variable Overview

Variable Name	Description
CBARAllowIncomplete	Allows reading of incomplete codabar codes

Communication Name	DCCBARIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	125
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCCBARIncmp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARIncmp	String	11	Allows reading of incomplete codabar codes

Read Variable Response:				
`sRA DCCBARIncmp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARIncmp	String	11	Allows reading of incomplete codabar codes
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCCBARIncmp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARIncmp	String	11	Allows reading of incomplete codabar codes
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCCBARIncmp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARIncmp	String	11	Allows reading of incomplete codabar codes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCBARIncmp[ETX]`
Read Variable Response:	`[STX]sRA DCCBARIncmp 0[ETX]`
Write Variable:	`[STX]sWN DCCBARIncmp 0[ETX]`
Write Variable Response:	`[STX]sWA DCCBARIncmp[ETX]`

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2.7.1.10. Variable: CBARMinCharsIncomplete

The following section contains a detailed description of the variable CBARMinCharsIncomplete.

Variable Overview

Variable Name	Description
CBARMinCharsIncomplete	Minimum number of charactes If incomplete codabar codes are allowed

Communication Name	DCCBARMinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	126
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..50
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCCBARMinIncmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARMinIncmp	String	14	Minimum number of charactes If incomplete codabar codes are allowed

Read Variable Response:

```
sRA DCCBARMinIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARMinIncmp	String	14	Minimum number of charactes If incomplete codabar codes are allowed
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCCBARMinIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARMinIncmp	String	14	Minimum number of charactes If incomplete codabar codes are allowed
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA DCCBARMinIncmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARMinIncmp	String	14	Minimum number of charactes If incomplete codabar codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCCBARMinIncmp[ETX]
Read Variable Response:	[STX]sRA DCCBARMinIncmp 5[ETX]
Write Variable:	[STX]sWN DCCBARMinIncmp 5[ETX]
Write Variable Response:	[STX]sWA DCCBARMinIncmp[ETX]

2.7.1.11. Variable: CBARTransmitCheckDigit

The following section contains a detailed description of the variable CBARTransmitCheckDigit.

Variable Overview

Variable Name	Description
CBARTransmitCheckDigit	Transmit Check Digit for Codabar

Communication Name	DCCBARTrCd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	127
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCCBARTrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCBARTrCd	String	10	Transmit Check Digit for Codabar

Read Variable Response:				
`sRA DCCBARTrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCBARTrCd	String	10	Transmit Check Digit for Codabar
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCCBARTrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCBARTrCd	String	10	Transmit Check Digit for Codabar
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCCBARTrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCBARTrCd	String	10	Transmit Check Digit for Codabar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCBARTrCd[ETX]`
Read Variable Response:	`[STX]sRA DCCBARTrCd 1[ETX]`
Write Variable:	`[STX]sWN DCCBARTrCd 1[ETX]`
Write Variable Response:	`[STX]sWA DCCBARTrCd[ETX]`

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2.7.1.12. Variable: C39Active

The following section contains a detailed description of the variable C39Active.

Variable Overview

Variable Name	Description
C39Active	Activates Code 39 Decoder

Communication Name	DCC39Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	128
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN DCC39Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39Act	String	8	Activates Code 39 Decoder

Read Variable Response:

```
sRA DCC39Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39Act	String	8	Activates Code 39 Decoder
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC39Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39Act	String	8	Activates Code 39 Decoder
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC39Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39Act	String	8	Activates Code 39 Decoder

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39Act[ETX]`
Read Variable Response:	`[STX]sRA DCC39Act 1[ETX]`
Write Variable:	`[STX]sWN DCC39Act 1[ETX]`
Write Variable Response:	`[STX]sWA DCC39Act[ETX]`

2.7.1.13. Variable: C39MultiRead

The following section contains a detailed description of the variable C39MultiRead.

Variable Overview

Variable Name	Description
C39MultiRead	Multiread of Code 39

Communication Name	DCC39Mr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	129
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC39Mr`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39Mr	String	7	Multiread of Code 39

Read Variable Response:

`sRA DCC39Mr <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39Mr	String	7	Multiread of Code 39
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCC39Mr <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39Mr	String	7	Multiread of Code 39
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCC39Mr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39Mr	String	7	Multiread of Code 39

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC39Mr[ETX]
Read Variable Response:	[STX]sRA DCC39Mr 3[ETX]
Write Variable:	[STX]sWN DCC39Mr 3[ETX]
Write Variable Response:	[STX]sWA DCC39Mr[ETX]

2.7.1.14. Variable: C39MultiReadL2

The following section contains a detailed description of the variable C39MultiReadL2.

Variable Overview

Variable Name	Description
C39MultiReadL2	Multiread of Code 39 Length 2

Communication Name	DCC39MrL2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	130
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39MrL2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39MrL2	String	9	Multiread of Code 39 Length 2

Read Variable Response:				
`sRA DCC39MrL2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39MrL2	String	9	Multiread of Code 39 Length 2
Variable Data	data	UInt	2	

Write Variable:				
`sWN DCC39MrL2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39MrL2	String	9	Multiread of Code 39 Length 2
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCC39MrL2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39MrL2	String	9	Multiread of Code 39 Length 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39MrL2[ETX]`
Read Variable Response:	`[STX]sRA DCC39MrL2 3[ETX]`
Write Variable:	`[STX]sWN DCC39MrL2 3[ETX]`
Write Variable Response:	`[STX]sWA DCC39MrL2[ETX]`

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2.7.1.15. Variable: C39MultiReadL3

The following section contains a detailed description of the variable C39MultiReadL3.

Variable Overview

Variable Name	Description
C39MultiReadL3	Multiread of Code 39 Length 3

Communication Name	DCC39MrL3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	131
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC39MrL3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39MrL3	String	9	Multiread of Code 39 Length 3

Read Variable Response:

```
sRA DCC39MrL3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39MrL3	String	9	Multiread of Code 39 Length 3
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCC39MrL3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39MrL3	String	9	Multiread of Code 39 Length 3
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DCC39MrL3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39MrL3	String	9	Multiread of Code 39 Length 3

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39MrL3[ETX]`
Read Variable Response:	`[STX]sRA DCC39MrL3 3[ETX]`
Write Variable:	`[STX]sWN DCC39MrL3 3[ETX]`
Write Variable Response:	`[STX]sWA DCC39MrL3[ETX]`

2.7.1.16. Variable: C39MultiReadL4

The following section contains a detailed description of the variable C39MultiReadL4.

Variable Overview

Variable Name	Description
C39MultiReadL4	Multiread of Code 39 Length 4

Communication Name	DCC39MrL4
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	132
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC39MrL4`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39MrL4	String	9	Multiread of Code 39 Length 4

Read Variable Response:

`sRA DCC39MrL4 <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39MrL4	String	9	Multiread of Code 39 Length 4
Variable Data	data	UInt	2	

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Write Variable:				
`sWN DCC39MrL4 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39MrL4	String	9	Multiread of Code 39 Length 4
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCC39MrL4`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39MrL4	String	9	Multiread of Code 39 Length 4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39MrL4[ETX]`
Read Variable Response:	`[STX]sRA DCC39MrL4 3[ETX]`
Write Variable:	`[STX]sWN DCC39MrL4 3[ETX]`
Write Variable Response:	`[STX]sWA DCC39MrL4[ETX]`

2.7.1.17. Variable: C39MultiReadL5

The following section contains a detailed description of the variable C39MultiReadL5.

Variable Overview

Variable Name	Description
C39MultiReadL5	Multiread of Code 39 Length 5

Communication Name	DCC39MrL5
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	133
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39MrL5`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39MrL5	String	9	Multiread of Code 39 Length 5

Read Variable Response:				
`sRA DCC39MrL5 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39MrL5	String	9	Multiread of Code 39 Length 5
Variable Data	data	UInt	2	

Write Variable:				
`sWN DCC39MrL5 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39MrL5	String	9	Multiread of Code 39 Length 5
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCC39MrL5`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39MrL5	String	9	Multiread of Code 39 Length 5

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39MrL5[ETX]`
Read Variable Response:	`[STX]sRA DCC39MrL5 3[ETX]`
Write Variable:	`[STX]sWN DCC39MrL5 3[ETX]`
Write Variable Response:	`[STX]sWA DCC39MrL5[ETX]`

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2.7.1.18. Variable: C39StaStoTransmit

The following section contains a detailed description of the variable C39StaStoTransmit.

Variable Overview

Variable Name	Description
C39StaStoTransmit	Start/Stop transmit Code 39

Communication Name	DCC39StTx
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	134
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC39StTx
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39StTx	String	9	Start/Stop transmit Code 39

Read Variable Response:

```
sRA DCC39StTx <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39StTx	String	9	Start/Stop transmit Code 39
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC39StTx <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39StTx	String	9	Start/Stop transmit Code 39
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC39StTx
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39StTx	String	9	Start/Stop transmit Code 39

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39StTx[ETX]`
Read Variable Response:	`[STX]sRA DCC39StTx 0[ETX]`
Write Variable:	`[STX]sWN DCC39StTx 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39StTx[ETX]`

2.7.1.19. Variable: C39_C32Active

The following section contains a detailed description of the variable C39_C32Active.

Variable Overview

Variable Name	Description
C39_C32Active	Interpretation of C39 as C32 code (length specific)

Communication Name	DCC39C32Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	135
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:				
`sRN DCC39C32Act`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39C32Act	String	11	Interpretation of C39 as C32 code (length specific)

Read Variable Response:				
`sRA DCC39C32Act <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39C32Act	String	11	Interpretation of C39 as C32 code (length specific)
Variable Data	data	Bool	1	

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Write Variable:				
sWN DCC39C32Act <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39C32Act	String	11	Interpretation of C39 as C32 code (length specific)
Variable Data	data	Bool	1	

Write Variable Response:				
sWA DCC39C32Act				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39C32Act	String	11	Interpretation of C39 as C32 code (length specific)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC39C32Act[ETX]
Read Variable Response:	[STX]sRA DCC39C32Act 0[ETX]
Write Variable:	[STX]sWN DCC39C32Act 0[ETX]
Write Variable Response:	[STX]sWA DCC39C32Act[ETX]

2.7.1.20. Variable: C39FullASCII

The following section contains a detailed description of the variable C39FullASCII.

Variable Overview

Variable Name	Description
C39FullASCII	Start/Stop transmit Code 39

Communication Name	DCC39FullA
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	136
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39FullA`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39FullA	String	10	Start/Stop transmit Code 39

Read Variable Response:				
`sRA DCC39FullA <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39FullA	String	10	Start/Stop transmit Code 39
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCC39FullA <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39FullA	String	10	Start/Stop transmit Code 39
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCC39FullA`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39FullA	String	10	Start/Stop transmit Code 39

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39FullA[ETX]`
Read Variable Response:	`[STX]sRA DCC39FullA 0[ETX]`
Write Variable:	`[STX]sWN DCC39FullA 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39FullA[ETX]`

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2.7.1.21. Variable: C39HexASCIIOutput

The following section contains a detailed description of the variable C39HexASCIIOutput.

Variable Overview

Variable Name	Description
C39HexASCIIOutput	Start/Stop transmit Code 39

Communication Name	DCC39HxAOut
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	137
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC39HxAOut
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39HxAOut	String	11	Start/Stop transmit Code 39

Read Variable Response:

```
sRA DCC39HxAOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39HxAOut	String	11	Start/Stop transmit Code 39
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC39HxAOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39HxAOut	String	11	Start/Stop transmit Code 39
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC39HxAOut
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39HxAOut	String	11	Start/Stop transmit Code 39

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39HxAOut[ETX]`
Read Variable Response:	`[STX]sRA DCC39HxAOut 0[ETX]`
Write Variable:	`[STX]sWN DCC39HxAOut 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39HxAOut[ETX]`

2.7.1.22. Variable: C39CheckDigitTest

The following section contains a detailed description of the variable C39CheckDigitTest.

Variable Overview

Variable Name	Description
C39CheckDigitTest	Check Digit Test for Code 39

Communication Name	DCC39CdTst
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	138
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_Modulo_43	

Variable Telegram Syntax

Read Variable:				
`sRN DCC39CdTst`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39CdTst	String	10	Check Digit Test for Code 39

Read Variable Response:				
`sRA DCC39CdTst <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39CdTst	String	10	Check Digit Test for Code 39
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DCC39CdTst <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39CdTst	String	10	Check Digit Test for Code 39
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCC39CdTst				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39CdTst	String	10	Check Digit Test for Code 39

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC39CdTst[ETX]
Read Variable Response:	[STX]sRA DCC39CdTst 0[ETX]
Write Variable:	[STX]sWN DCC39CdTst 0[ETX]
Write Variable Response:	[STX]sWA DCC39CdTst[ETX]

2.7.1.23. Variable: C39CheckDigitTestL2

The following section contains a detailed description of the variable C39CheckDigitTestL2.

Variable Overview

Variable Name	Description
C39CheckDigitTestL2	Check Digit Test for Code 39 Length 2

Communication Name	DCC39CdTstL2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	139
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_Modulo_43	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39CdTstL2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39CdTstL2	String	12	Check Digit Test for Code 39 Length 2

Read Variable Response:				
`sRA DCC39CdTstL2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39CdTstL2	String	12	Check Digit Test for Code 39 Length 2
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC39CdTstL2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39CdTstL2	String	12	Check Digit Test for Code 39 Length 2
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC39CdTstL2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39CdTstL2	String	12	Check Digit Test for Code 39 Length 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39CdTstL2[ETX]`
Read Variable Response:	`[STX]sRA DCC39CdTstL2 0[ETX]`
Write Variable:	`[STX]sWN DCC39CdTstL2 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39CdTstL2[ETX]`

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2.7.1.24. Variable: C39CheckDigitTestL3

The following section contains a detailed description of the variable C39CheckDigitTestL3.

Variable Overview

Variable Name	Description
C39CheckDigitTestL3	Check Digit Test for Code 39 Length 3

Communication Name	DCC39CdTstL3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	140
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_Modulo_43	

Variable Telegram Syntax

Read Variable:

```
sRN DCC39CdTstL3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39CdTstL3	String	12	Check Digit Test for Code 39 Length 3

Read Variable Response:

```
sRA DCC39CdTstL3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39CdTstL3	String	12	Check Digit Test for Code 39 Length 3
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCC39CdTstL3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39CdTstL3	String	12	Check Digit Test for Code 39 Length 3
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCC39CdTstL3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCC39CdTstL3				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCC39CdTstL3	String	12	Check Digit Test for Code 39 Length 3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC39CdTstL3[ETX]
Read Variable Response:	[STX]sRA DCC39CdTstL3 0[ETX]
Write Variable:	[STX]sWN DCC39CdTstL3 0[ETX]
Write Variable Response:	[STX]sWA DCC39CdTstL3[ETX]

2.7.1.25. Variable: C39CheckDigitTestL4

The following section contains a detailed description of the variable C39CheckDigitTestL4.

Variable Overview

Variable Name	Description
C39CheckDigitTestL4	Check Digit Test for Code 39 Length 4

Communication Name	DCC39CdTstL4
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	141
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_Modulo_43	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39CdTstL4`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39CdTstL4	String	12	Check Digit Test for Code 39 Length 4

Read Variable Response:				
`sRA DCC39CdTstL4 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39CdTstL4	String	12	Check Digit Test for Code 39 Length 4
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC39CdTstL4 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39CdTstL4	String	12	Check Digit Test for Code 39 Length 4
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC39CdTstL4`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39CdTstL4	String	12	Check Digit Test for Code 39 Length 4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39CdTstL4[ETX]`
Read Variable Response:	`[STX]sRA DCC39CdTstL4 0[ETX]`
Write Variable:	`[STX]sWN DCC39CdTstL4 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39CdTstL4[ETX]`

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2.7.1.26. Variable: C39CheckDigitTestL5

The following section contains a detailed description of the variable C39CheckDigitTestL5.

Variable Overview

Variable Name	Description
C39CheckDigitTestL5	Check Digit Test for Code 39 Length 5

Communication Name	DCC39CdTstL5
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	142
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_Modulo_43	

Variable Telegram Syntax

Read Variable:

```
sRN DCC39CdTstL5
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39CdTstL5	String	12	Check Digit Test for Code 39 Length 5

Read Variable Response:

```
sRA DCC39CdTstL5 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39CdTstL5	String	12	Check Digit Test for Code 39 Length 5
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCC39CdTstL5 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39CdTstL5	String	12	Check Digit Test for Code 39 Length 5
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCC39CdTstL5
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCC39CdTstL5				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCC39CdTstL5	String	12	Check Digit Test for Code 39 Length 5

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC39CdTstL5[ETX]
Read Variable Response:	[STX]sRA DCC39CdTstL5 0[ETX]
Write Variable:	[STX]sWN DCC39CdTstL5 0[ETX]
Write Variable Response:	[STX]sWA DCC39CdTstL5[ETX]

2.7.1.27. Variable: C39LengthMode

The following section contains a detailed description of the variable C39LengthMode.

Variable Overview

Variable Name	Description
C39LengthMode	Codelength mode of Code 39

Communication Name	DCC39LenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	143
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39LenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39LenMode	String	12	Codelength mode of Code 39

Read Variable Response:				
`sRA DCC39LenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39LenMode	String	12	Codelength mode of Code 39
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC39LenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39LenMode	String	12	Codelength mode of Code 39
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC39LenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39LenMode	String	12	Codelength mode of Code 39

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39LenMode[ETX]`
Read Variable Response:	`[STX]sRA DCC39LenMode 0[ETX]`
Write Variable:	`[STX]sWN DCC39LenMode 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39LenMode[ETX]`

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2.7.1.28. Variable: C39FixLenList

The following section contains a detailed description of the variable C39FixLenList.

Variable Overview

Variable Name	Description
C39FixLenList	List of fix code lengths

Communication Name	DCC39FixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	144
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC39FixLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39FixLen	String	11	List of fix code lengths

Read Variable Response:

```
sRA DCC39FixLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39FixLen	String	11	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:

```
sWN DCC39FixLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39FixLen	String	11	List of fix code lengths
Variable Data	data	Array	20	

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Write Variable Response:				
sWA DCC39FixLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39FixLen	String	11	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC39FixLen[ETX]
Read Variable Response:	[STX]sRA DCC39FixLen 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN DCC39FixLen 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA DCC39FixLen[ETX]

2.7.1.29. Variable: C39IntLenList

The following section contains a detailed description of the variable C39IntLenList.

Variable Overview

Variable Name	Description
C39IntLenList	List of interval code lengths

Communication Name	DCC39IntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	145
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39IntLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39IntLen	String	11	List of interval code lengths

Read Variable Response:				
`sRA DCC39IntLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39IntLen	String	11	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:				
`sWN DCC39IntLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39IntLen	String	11	List of interval code lengths
Variable Data	data	Array	8	

Write Variable Response:				
`sWA DCC39IntLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39IntLen	String	11	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39IntLen[ETX]`
Read Variable Response:	`[STX]sRA DCC39IntLen 0 0[ETX]`
Write Variable:	`[STX]sWN DCC39IntLen 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCC39IntLen[ETX]`

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2.7.1.30. Variable: C39AllowIncomplete

The following section contains a detailed description of the variable C39AllowIncomplete.

Variable Overview

Variable Name	Description
C39AllowIncomplete	Allows reading of incomplete code 39 codes

Communication Name	DCCC39Incmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	146
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCCC39Incmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCC39Incmp	String	11	Allows reading of incomplete code 39 codes

Read Variable Response:

```
sRA DCCC39Incmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCC39Incmp	String	11	Allows reading of incomplete code 39 codes
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCCC39Incmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCC39Incmp	String	11	Allows reading of incomplete code 39 codes
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCCC39Incmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCC39Incmp	String	11	Allows reading of incomplete code 39 codes

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCCC39Incmp[ETX]`
Read Variable Response:	`[STX]sRA DCCC39Incmp 0[ETX]`
Write Variable:	`[STX]sWN DCCC39Incmp 0[ETX]`
Write Variable Response:	`[STX]sWA DCCC39Incmp[ETX]`

2.7.1.31. Variable: C39MinCharsIncomplete

The following section contains a detailed description of the variable C39MinCharsIncomplete.

Variable Overview

Variable Name	Description
C39MinCharsIncomplete	Minimum number of charactes If incomplete code 39 codes are allowed

Communication Name	DCCC39MinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	147
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..50
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCCC39MinIncmp`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCCC39MinIncmp	String	14	Minimum number of charactes If incomplete code 39 codes are allowed

Read Variable Response:

`sRA DCCC39MinIncmp <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCCC39MinIncmp	String	14	Minimum number of charactes If incomplete code 39 codes are allowed
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCCC39MinIncmp <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCCC39MinIncmp	String	14	Minimum number of charactes If incomplete code 39 codes are allowed
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCCC39MinIncmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCCC39MinIncmp	String	14	Minimum number of charactes If incomplete code 39 codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCCC39MinIncmp[ETX]
Read Variable Response:	[STX]sRA DCCC39MinIncmp 5[ETX]
Write Variable:	[STX]sWN DCCC39MinIncmp 5[ETX]
Write Variable Response:	[STX]sWA DCCC39MinIncmp[ETX]

2.7.1.32. Variable: C39TransmitCheckDigit

The following section contains a detailed description of the variable C39TransmitCheckDigit.

Variable Overview

Variable Name	Description
C39TransmitCheckDigit	Transmit Check Digit for C39

Communication Name	DCC39TrCd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	148
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCC39TrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC39TrCd	String	9	Transmit Check Digit for C39

Read Variable Response:				
`sRA DCC39TrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC39TrCd	String	9	Transmit Check Digit for C39
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCC39TrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC39TrCd	String	9	Transmit Check Digit for C39
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCC39TrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC39TrCd	String	9	Transmit Check Digit for C39

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC39TrCd[ETX]`
Read Variable Response:	`[STX]sRA DCC39TrCd 1[ETX]`
Write Variable:	`[STX]sWN DCC39TrCd 1[ETX]`
Write Variable Response:	`[STX]sWA DCC39TrCd[ETX]`

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2.7.1.33. Variable: UPCEANActive

The following section contains a detailed description of the variable UPCEANActive.

Variable Overview

Variable Name	Description
UPCEANActive	Activates UPC and EAN Decoder

Communication Name	DCUPCEANAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	149
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCUPCEANAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCEANAct	String	11	Activates UPC and EAN Decoder

Read Variable Response:

```
sRA DCUPCEANAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCEANAct	String	11	Activates UPC and EAN Decoder
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCUPCEANAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCEANAct	String	11	Activates UPC and EAN Decoder
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCUPCEANAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCEANAct	String	11	Activates UPC and EAN Decoder

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCUPCEANAct[ETX]`
Read Variable Response:	`[STX]sRA DCUPCEANAct 0[ETX]`
Write Variable:	`[STX]sWN DCUPCEANAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCUPCEANAct[ETX]`

2.7.1.34. Variable: UPCEANMultiRead

The following section contains a detailed description of the variable UPCEANMultiRead.

Variable Overview

Variable Name	Description
UPCEANMultiRead	Multiread of UPC/EAN

Communication Name	DCUPCEANMr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	150
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCUPCEANMr`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCEANMr	String	10	Multiread of UPC/EAN

Read Variable Response:

`sRA DCUPCEANMr <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCEANMr	String	10	Multiread of UPC/EAN
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCUPCEANMr <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCEANMr	String	10	Multiread of UPC/EAN
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCUPCEANMr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCEANMr	String	10	Multiread of UPC/EAN

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCUPCEANMr[ETX]
Read Variable Response:	[STX]sRA DCUPCEANMr 3[ETX]
Write Variable:	[STX]sWN DCUPCEANMr 3[ETX]
Write Variable Response:	[STX]sWA DCUPCEANMr[ETX]

2.7.1.35. Variable: UPCEANAddOnMode

The following section contains a detailed description of the variable UPCEANAddOnMode.

Variable Overview

Variable Name	Description
UPCEANAddOnMode	Add-On mode

Communication Name	DCAddOnMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	151
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Active	
	2	TX_Required	

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Variable Telegram Syntax

Read Variable:				
`sRN DCAddOnMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCAddOnMode	String	11	Add-On mode

Read Variable Response:				
`sRA DCAddOnMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCAddOnMode	String	11	Add-On mode
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCAddOnMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCAddOnMode	String	11	Add-On mode
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCAddOnMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCAddOnMode	String	11	Add-On mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCAddOnMode[ETX]`
Read Variable Response:	`[STX]sRA DCAddOnMode 0[ETX]`
Write Variable:	`[STX]sWN DCAddOnMode 0[ETX]`
Write Variable Response:	`[STX]sWA DCAddOnMode[ETX]`

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2.7.1.36. Variable: UPCEANAddOnLength

The following section contains a detailed description of the variable UPCEANAddOnLength.

Variable Overview

Variable Name	Description
UPCEANAddOnLength	Add-On length

Communication Name	DCAddOnLength
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	152
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_2_Digits	
	1	TX_5_Digits	
	2	TX_2or5_Digits	

Variable Telegram Syntax

Read Variable:				
`sRN DCAddOnLength`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCAddOnLength	String	13	Add-On length

Read Variable Response:				
`sRA DCAddOnLength <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCAddOnLength	String	13	Add-On length
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCAddOnLength <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCAddOnLength	String	13	Add-On length
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCAddOnLength`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCAddOnLength				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCAddOnLength	String	13	Add-On length

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCAddOnLength[ETX]
Read Variable Response:	[STX]sRA DCAddOnLength 0[ETX]
Write Variable:	[STX]sWN DCAddOnLength 0[ETX]
Write Variable Response:	[STX]sWA DCAddOnLength[ETX]

2.7.1.37. Variable: UPCAActive

The following section contains a detailed description of the variable UPCAActive.

Variable Overview

Variable Name	Description
UPCAActive	Activates UPC-A

Communication Name	DCUPCAAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	153
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCUPCAAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCAAct	String	9	Activates UPC-A

Read Variable Response:				
`sRA DCUPCAAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCAAct	String	9	Activates UPC-A
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCUPCAAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCAAct	String	9	Activates UPC-A
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCUPCAAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCAAct	String	9	Activates UPC-A

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCUPCAAct[ETX]`
Read Variable Response:	`[STX]sRA DCUPCAAct 1[ETX]`
Write Variable:	`[STX]sWN DCUPCAAct 1[ETX]`
Write Variable Response:	`[STX]sWA DCUPCAAct[ETX]`

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2.7.1.38. Variable: UPCEActive

The following section contains a detailed description of the variable UPCEActive.

Variable Overview

Variable Name	Description
UPCEActive	Activates UPC-E

Communication Name	DCUPCEAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	154
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN DCUPCEAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCEAct	String	9	Activates UPC-E

Read Variable Response:

```
sRA DCUPCEAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCEAct	String	9	Activates UPC-E
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCUPCEAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCEAct	String	9	Activates UPC-E
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCUPCEAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCEAct	String	9	Activates UPC-E

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCUPCEAct[ETX]`
Read Variable Response:	`[STX]sRA DCUPCEAct 1[ETX]`
Write Variable:	`[STX]sWN DCUPCEAct 1[ETX]`
Write Variable Response:	`[STX]sWA DCUPCEAct[ETX]`

2.7.1.39. Variable: UPCEExtended

The following section contains a detailed description of the variable UPCEExtended.

Variable Overview

Variable Name	Description
UPCEExtended	Activates Extended UPC-E

Communication Name	DCUPCExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	155
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

`sRN DCUPCExt`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCExt	String	8	Activates Extended UPC-E

Read Variable Response:

`sRA DCUPCExt <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCExt	String	8	Activates Extended UPC-E
Variable Data	data	Bool	1	

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Write Variable:				
`sWN DCUPCExt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCExt	String	8	Activates Extended UPC-E
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCUPCExt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCExt	String	8	Activates Extended UPC-E

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCUPCExt[ETX]`
Read Variable Response:	`[STX]sRA DCUPCExt 0[ETX]`
Write Variable:	`[STX]sWN DCUPCExt 0[ETX]`
Write Variable Response:	`[STX]sWA DCUPCExt[ETX]`

2.7.1.40. Variable: EANUPCTransmitCheckDigit

The following section contains a detailed description of the variable EANUPCTransmitCheckDigit.

Variable Overview

Variable Name	Description
EANUPCTransmitCheckDigit	Transmit Check Digit for EAN/UPC

Communication Name	DCEANUPCTrCd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	156
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCEANUPCTrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCEANUPCTrCd	String	12	Transmit Check Digit for EAN/UPC

Read Variable Response:				
`sRA DCEANUPCTrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCEANUPCTrCd	String	12	Transmit Check Digit for EAN/UPC
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCEANUPCTrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCEANUPCTrCd	String	12	Transmit Check Digit for EAN/UPC
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCEANUPCTrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCEANUPCTrCd	String	12	Transmit Check Digit for EAN/UPC

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCEANUPCTrCd[ETX]`
Read Variable Response:	`[STX]sRA DCEANUPCTrCd 1[ETX]`
Write Variable:	`[STX]sWN DCEANUPCTrCd 1[ETX]`
Write Variable Response:	`[STX]sWA DCEANUPCTrCd[ETX]`

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2.7.1.41. Variable: UPCENumSystem

The following section contains a detailed description of the variable UPCENumSystem.

Variable Overview

Variable Name	Description
UPCENumSystem	Activates output of UPC-E number system

Communication Name	DCUPCNumSys
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	157
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCUPCNumSys
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCNumSys	String	11	Activates output of UPC-E number system

Read Variable Response:

```
sRA DCUPCNumSys <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCNumSys	String	11	Activates output of UPC-E number system
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCUPCNumSys <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCNumSys	String	11	Activates output of UPC-E number system
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCUPCNumSys
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCNumSys	String	11	Activates output of UPC-E number system

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCUPCNumSys[ETX]`
Read Variable Response:	`[STX]sRA DCUPCNumSys 0[ETX]`
Write Variable:	`[STX]sWN DCUPCNumSys 0[ETX]`
Write Variable Response:	`[STX]sWA DCUPCNumSys[ETX]`

2.7.1.42. Variable: EAN8Active

The following section contains a detailed description of the variable EAN8Active.

Variable Overview

Variable Name	Description
EAN8Active	Activates EAN8

Communication Name	DCEAN8Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	158
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN DCEAN8Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCEAN8Act	String	9	Activates EAN8

Read Variable Response:

```
sRA DCEAN8Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCEAN8Act	String	9	Activates EAN8
Variable Data	data	Bool	1	

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Write Variable:				
sWN DCEAN8Act <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCEAN8Act	String	9	Activates EAN8
Variable Data	data	Bool	1	

Write Variable Response:				
sWA DCEAN8Act				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCEAN8Act	String	9	Activates EAN8

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCEAN8Act[ETX]
Read Variable Response:	[STX]sRA DCEAN8Act 1[ETX]
Write Variable:	[STX]sWN DCEAN8Act 1[ETX]
Write Variable Response:	[STX]sWA DCEAN8Act[ETX]

2.7.1.43. Variable: EAN13Active

The following section contains a detailed description of the variable EAN13Active.

Variable Overview

Variable Name	Description
EAN13Active	Activates EAN13

Communication Name	DCEAN13Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	159
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCEAN13Act`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCEAN13Act	String	10	Activates EAN13

Read Variable Response:				
`sRA DCEAN13Act <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCEAN13Act	String	10	Activates EAN13
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCEAN13Act <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCEAN13Act	String	10	Activates EAN13
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCEAN13Act`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCEAN13Act	String	10	Activates EAN13

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCEAN13Act[ETX]`
Read Variable Response:	`[STX]sRA DCEAN13Act 1[ETX]`
Write Variable:	`[STX]sWN DCEAN13Act 1[ETX]`
Write Variable Response:	`[STX]sWA DCEAN13Act[ETX]`

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2.7.1.44. Variable: UPCEANAllowIncomplete

The following section contains a detailed description of the variable UPCEANAllowIncomplete.

Variable Overview

Variable Name	Description
UPCEANAllowIncomplete	Allows reading of incomplete EAN/UPC codes

Communication Name	DCUPCEANIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	160
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCUPCEANIncmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCEANIncmp	String	13	Allows reading of incomplete EAN/UPC codes

Read Variable Response:

```
sRA DCUPCEANIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCEANIncmp	String	13	Allows reading of incomplete EAN/UPC codes
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCUPCEANIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCEANIncmp	String	13	Allows reading of incomplete EAN/UPC codes
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCUPCEANIncmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCEANIncmp	String	13	Allows reading of incomplete EAN/UPC codes

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCUPCEANIncmp[ETX]`
Read Variable Response:	`[STX]sRA DCUPCEANIncmp 0[ETX]`
Write Variable:	`[STX]sWN DCUPCEANIncmp 0[ETX]`
Write Variable Response:	`[STX]sWA DCUPCEANIncmp[ETX]`

2.7.1.45. Variable: UPCEANMinCharsIncomplete

The following section contains a detailed description of the variable UPCEANMinCharsIncomplete.

Variable Overview

Variable Name	Description
UPCEANMinCharsIncomplete	Minimum number of charactes If incomplete EAN/UPC codes are allowed

Communication Name	DCUPCEANMinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	161
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..13
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCUPCEANMinIncmp`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCUPCEANMinIncmp	String	16	Minimum number of charactes If incomplete EAN/UPC codes are allowed

Read Variable Response:

`sRA DCUPCEANMinIncmp <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCUPCEANMinIncmp	String	16	Minimum number of charactes If incomplete EAN/UPC codes are allowed
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCUPCEANMinIncmp <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCUPCEANMinIncmp	String	16	Minimum number of charactes If incomplete EAN/UPC codes are allowed
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCUPCEANMinIncmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCUPCEANMinIncmp	String	16	Minimum number of charactes If incomplete EAN/UPC codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCUPCEANMinIncmp[ETX]
Read Variable Response:	[STX]sRA DCUPCEANMinIncmp 5[ETX]
Write Variable:	[STX]sWN DCUPCEANMinIncmp 5[ETX]
Write Variable Response:	[STX]sWA DCUPCEANMinIncmp[ETX]

2.7.1.46. Variable: C25ILActive

The following section contains a detailed description of the variable C25ILActive.

Variable Overview

Variable Name	Description
C25ILActive	Activates 2/5 Interleaved Decoder

Communication Name	DCC25ILAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	162
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILAct	String	10	Activates 2/5 Interleaved Decoder

Read Variable Response:				
`sRA DCC25ILAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILAct	String	10	Activates 2/5 Interleaved Decoder
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCC25ILAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILAct	String	10	Activates 2/5 Interleaved Decoder
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCC25ILAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILAct	String	10	Activates 2/5 Interleaved Decoder

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILAct[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILAct 1[ETX]`
Write Variable:	`[STX]sWN DCC25ILAct 1[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILAct[ETX]`

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2.7.1.47. Variable: C25ILMultiReadL1

The following section contains a detailed description of the variable C25ILMultiReadL1.

Variable Overview

Variable Name	Description
C25ILMultiReadL1	Multiread of 2/5 Interleaved Length 1

Communication Name	DCC25ILMrL1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	163
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILMrL1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILMrL1	String	11	Multiread of 2/5 Interleaved Length 1

Read Variable Response:

```
sRA DCC25ILMrL1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILMrL1	String	11	Multiread of 2/5 Interleaved Length 1
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCC25ILMrL1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILMrL1	String	11	Multiread of 2/5 Interleaved Length 1
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DCC25ILMrL1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILMrL1	String	11	Multiread of 2/5 Interleaved Length 1

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILMrL1[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILMrL1 3[ETX]`
Write Variable:	`[STX]sWN DCC25ILMrL1 3[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILMrL1[ETX]`

2.7.1.48. Variable: C25ILMultiReadL2

The following section contains a detailed description of the variable C25ILMultiReadL2.

Variable Overview

Variable Name	Description
C25ILMultiReadL2	Multiread of 2/5 Interleaved Length 2

Communication Name	DCC25ILMrL2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	164
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC25ILMrL2`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILMrL2	String	11	Multiread of 2/5 Interleaved Length 2

Read Variable Response:

`sRA DCC25ILMrL2 <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILMrL2	String	11	Multiread of 2/5 Interleaved Length 2
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCC25ILMrL2 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILMrL2	String	11	Multiread of 2/5 Interleaved Length 2
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCC25ILMrL2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILMrL2	String	11	Multiread of 2/5 Interleaved Length 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILMrL2[ETX]
Read Variable Response:	[STX]sRA DCC25ILMrL2 3[ETX]
Write Variable:	[STX]sWN DCC25ILMrL2 3[ETX]
Write Variable Response:	[STX]sWA DCC25ILMrL2[ETX]

2.7.1.49. Variable: C25ILMultiReadL3

The following section contains a detailed description of the variable C25ILMultiReadL3.

Variable Overview

Variable Name	Description
C25ILMultiReadL3	Multiread of 2/5 Interleaved Length 3

Communication Name	DCC25ILMrL3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	165
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILMrL3`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILMrL3	String	11	Multiread of 2/5 Interleaved Length 3

Read Variable Response:				
`sRA DCC25ILMrL3 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILMrL3	String	11	Multiread of 2/5 Interleaved Length 3
Variable Data	data	UInt	2	

Write Variable:				
`sWN DCC25ILMrL3 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILMrL3	String	11	Multiread of 2/5 Interleaved Length 3
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCC25ILMrL3`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILMrL3	String	11	Multiread of 2/5 Interleaved Length 3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILMrL3[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILMrL3 3[ETX]`
Write Variable:	`[STX]sWN DCC25ILMrL3 3[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILMrL3[ETX]`

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2.7.1.50. Variable: C25ILMultiReadL4

The following section contains a detailed description of the variable C25ILMultiReadL4.

Variable Overview

Variable Name	Description
C25ILMultiReadL4	Multiread of 2/5 Interleaved Length 4

Communication Name	DCC25ILMrL4
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	166
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILMrL4
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILMrL4	String	11	Multiread of 2/5 Interleaved Length 4

Read Variable Response:

```
sRA DCC25ILMrL4 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILMrL4	String	11	Multiread of 2/5 Interleaved Length 4
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCC25ILMrL4 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILMrL4	String	11	Multiread of 2/5 Interleaved Length 4
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DCC25ILMrL4
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILMrL4	String	11	Multiread of 2/5 Interleaved Length 4

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILMrL4[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILMrL4 3[ETX]`
Write Variable:	`[STX]sWN DCC25ILMrL4 3[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILMrL4[ETX]`

2.7.1.51. Variable: C25ILMultiReadL5

The following section contains a detailed description of the variable C25ILMultiReadL5.

Variable Overview

Variable Name	Description
C25ILMultiReadL5	Multiread of 2/5 Interleaved Length 5

Communication Name	DCC25ILMrL5
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	167
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC25ILMrL5`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILMrL5	String	11	Multiread of 2/5 Interleaved Length 5

Read Variable Response:

`sRA DCC25ILMrL5 <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILMrL5	String	11	Multiread of 2/5 Interleaved Length 5
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCC25ILMrL5 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILMrL5	String	11	Multiread of 2/5 Interleaved Length 5
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCC25ILMrL5				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILMrL5	String	11	Multiread of 2/5 Interleaved Length 5

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILMrL5[ETX]
Read Variable Response:	[STX]sRA DCC25ILMrL5 3[ETX]
Write Variable:	[STX]sWN DCC25ILMrL5 3[ETX]
Write Variable Response:	[STX]sWA DCC25ILMrL5[ETX]

2.7.1.52. Variable: C25ILCheckDigitTestL1

The following section contains a detailed description of the variable C25ILCheckDigitTestL1.

Variable Overview

Variable Name	Description
C25ILCheckDigitTestL1	Check Digit Test for Code 25IL Length 1

Communication Name	DCC25ILCdTstL1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	168
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_1R18	
	3	TX_W49M10	
	5	TX_W12CSM10	
	6	TX_ModModulo_11	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILCdTstL1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILCdTstL1	String	14	Check Digit Test for Code 25IL Length 1

Read Variable Response:				
`sRA DCC25ILCdTstL1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILCdTstL1	String	14	Check Digit Test for Code 25IL Length 1
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC25ILCdTstL1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILCdTstL1	String	14	Check Digit Test for Code 25IL Length 1
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC25ILCdTstL1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILCdTstL1	String	14	Check Digit Test for Code 25IL Length 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILCdTstL1[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILCdTstL1 0[ETX]`
Write Variable:	`[STX]sWN DCC25ILCdTstL1 0[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILCdTstL1[ETX]`

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2.7.1.53. Variable: C25ILCheckDigitTestL2

The following section contains a detailed description of the variable C25ILCheckDigitTestL2.

Variable Overview

Variable Name	Description
C25ILCheckDigitTestL2	Check Digit Test for Code 25IL Length 2

Communication Name	DCC25ILCdTstL2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	169
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_1R18	
	3	TX_W49M10	
	5	TX_W12CSM10	
	6	TX_ModModulo_11	

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILCdTstL2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILCdTstL2	String	14	Check Digit Test for Code 25IL Length 2

Read Variable Response:

```
sRA DCC25ILCdTstL2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILCdTstL2	String	14	Check Digit Test for Code 25IL Length 2
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCC25ILCdTstL2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILCdTstL2	String	14	Check Digit Test for Code 25IL Length 2
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DCC25ILCdTstL2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILCdTstL2	String	14	Check Digit Test for Code 25IL Length 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILCdTstL2[ETX]
Read Variable Response:	[STX]sRA DCC25ILCdTstL2 0[ETX]
Write Variable:	[STX]sWN DCC25ILCdTstL2 0[ETX]
Write Variable Response:	[STX]sWA DCC25ILCdTstL2[ETX]

2.7.1.54. Variable: C25ILCheckDigitTestL3

The following section contains a detailed description of the variable C25ILCheckDigitTestL3.

Variable Overview

Variable Name	Description
C25ILCheckDigitTestL3	Check Digit Test for Code 25IL Length 3

Communication Name	DCC25ILCdTstL3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	170
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_1R18	
	3	TX_W49M10	
	5	TX_W12CSM10	
	6	TX_ModModulo_11	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILCdTstL3`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILCdTstL3	String	14	Check Digit Test for Code 25IL Length 3

Read Variable Response:				
`sRA DCC25ILCdTstL3 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILCdTstL3	String	14	Check Digit Test for Code 25IL Length 3
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC25ILCdTstL3 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILCdTstL3	String	14	Check Digit Test for Code 25IL Length 3
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC25ILCdTstL3`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILCdTstL3	String	14	Check Digit Test for Code 25IL Length 3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILCdTstL3[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILCdTstL3 0[ETX]`
Write Variable:	`[STX]sWN DCC25ILCdTstL3 0[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILCdTstL3[ETX]`

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2.7.1.55. Variable: C25ILCheckDigitTestL4

The following section contains a detailed description of the variable C25ILCheckDigitTestL4.

Variable Overview

Variable Name	Description
C25ILCheckDigitTestL4	Check Digit Test for Code 25IL Length 4

Communication Name	DCC25ILCdTstL4
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	171
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_1R18	
	3	TX_W49M10	
	5	TX_W12CSM10	
	6	TX_ModModulo_11	

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILCdTstL4
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILCdTstL4	String	14	Check Digit Test for Code 25IL Length 4

Read Variable Response:

```
sRA DCC25ILCdTstL4 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILCdTstL4	String	14	Check Digit Test for Code 25IL Length 4
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCC25ILCdTstL4 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILCdTstL4	String	14	Check Digit Test for Code 25IL Length 4
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DCC25ILCdTstL4				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILCdTstL4	String	14	Check Digit Test for Code 25IL Length 4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILCdTstL4[ETX]
Read Variable Response:	[STX]sRA DCC25ILCdTstL4 0[ETX]
Write Variable:	[STX]sWN DCC25ILCdTstL4 0[ETX]
Write Variable Response:	[STX]sWA DCC25ILCdTstL4[ETX]

2.7.1.56. Variable: C25ILCheckDigitTestL5

The following section contains a detailed description of the variable C25ILCheckDigitTestL5.

Variable Overview

Variable Name	Description
C25ILCheckDigitTestL5	Check Digit Test for Code 25IL Length 5

Communication Name	DCC25ILCdTstL5
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	172
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Modulo_10	
	2	TX_1R18	
	3	TX_W49M10	
	5	TX_W12CSM10	
	6	TX_ModModulo_11	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILCdTstL5`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILCdTstL5	String	14	Check Digit Test for Code 25IL Length 5

Read Variable Response:				
`sRA DCC25ILCdTstL5 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILCdTstL5	String	14	Check Digit Test for Code 25IL Length 5
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC25ILCdTstL5 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILCdTstL5	String	14	Check Digit Test for Code 25IL Length 5
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC25ILCdTstL5`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILCdTstL5	String	14	Check Digit Test for Code 25IL Length 5

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILCdTstL5[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILCdTstL5 0[ETX]`
Write Variable:	`[STX]sWN DCC25ILCdTstL5 0[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILCdTstL5[ETX]`

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2.7.1.57. Variable: C25ILLengthMode

The following section contains a detailed description of the variable C25ILLengthMode.

Variable Overview

Variable Name	Description
C25ILLengthMode	Codelength mode of Code 39

Communication Name	DCC25ILLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	173
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILLenMode	String	14	Codelength mode of Code 39

Read Variable Response:

```
sRA DCC25ILLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILLenMode	String	14	Codelength mode of Code 39
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCC25ILLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILLenMode	String	14	Codelength mode of Code 39
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCC25ILLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCC25ILLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCC25ILLenMode	String	14	Codelength mode of Code 39

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILLenMode[ETX]
Read Variable Response:	[STX]sRA DCC25ILLenMode 1[ETX]
Write Variable:	[STX]sWN DCC25ILLenMode 1[ETX]
Write Variable Response:	[STX]sWA DCC25ILLenMode[ETX]

2.7.1.58. Variable: C25ILFixLenList

The following section contains a detailed description of the variable C25ILFixLenList.

Variable Overview

Variable Name	Description
C25ILFixLenList	List of fix code lengths

Communication Name	DCC25ILFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	174
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..50
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILFixLen	String	13	List of fix code lengths

Read Variable Response:				
`sRA DCC25ILFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILFixLen	String	13	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCC25ILFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILFixLen	String	13	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCC25ILFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILFixLen	String	13	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCC25ILFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILFixLen[ETX]`

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2.7.1.59. Variable: C25ILIntLenList

The following section contains a detailed description of the variable C25ILIntLenList.

Variable Overview

Variable Name	Description
C25ILIntLenList	List of interval code lengths

Communication Name	DCC25ILIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	175
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
Default Value		{4, 50}
	UDInt	
	Value Range	0..50
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILIntLen	String	13	List of interval code lengths

Read Variable Response:

```
sRA DCC25ILIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILIntLen	String	13	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCC25ILIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILIntLen	String	13	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCC25ILIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILIntLen	String	13	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILIntLen[ETX]
Read Variable Response:	[STX]sRA DCC25ILIntLen 4 32[ETX]
Write Variable:	[STX]sWN DCC25ILIntLen 4 32[ETX]
Write Variable Response:	[STX]sWA DCC25ILIntLen[ETX]

2.7.1.60. Variable: C25ILClassRestriction

The following section contains a detailed description of the variable C25ILClassRestriction.

Variable Overview

Variable Name	Description
C25ILClassRestriction	Classification restriction of 2/5 Interleaved

Communication Name	DCC25ILClRs
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	176
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..100
Initialisation	0
Physical Unit	%
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILClRs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILClRs	String	11	Classification restriction of 2/5 Interleaved

Read Variable Response:				
`sRA DCC25ILClRs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILClRs	String	11	Classification restriction of 2/5 Interleaved
Variable Data	data	UInt	2	

Write Variable:				
`sWN DCC25ILClRs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILClRs	String	11	Classification restriction of 2/5 Interleaved
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCC25ILClRs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILClRs	String	11	Classification restriction of 2/5 Interleaved

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILClRs[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILClRs 0[ETX]`
Write Variable:	`[STX]sWN DCC25ILClRs 0[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILClRs[ETX]`

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2.7.1.61. Variable: C25ILAllowIncomplete

The following section contains a detailed description of the variable C25ILAllowIncomplete.

Variable Overview

Variable Name	Description
C25ILAllowIncomplete	Allows reading of incomplete 2/5 interleaved codes

Communication Name	DCC25ILIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	177
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC25ILIncmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILIncmp	String	12	Allows reading of incomplete 2/5 interleaved codes

Read Variable Response:

```
sRA DCC25ILIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILIncmp	String	12	Allows reading of incomplete 2/5 interleaved codes
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC25ILIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILIncmp	String	12	Allows reading of incomplete 2/5 interleaved codes
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC25ILIncmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILIncmp	String	12	Allows reading of incomplete 2/5 interleaved codes

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILIncmp[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILIncmp 0[ETX]`
Write Variable:	`[STX]sWN DCC25ILIncmp 0[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILIncmp[ETX]`

2.7.1.62. Variable: C25ILMinCharsIncomplete

The following section contains a detailed description of the variable C25ILMinCharsIncomplete.

Variable Overview

Variable Name	Description
C25ILMinCharsIncomplete	Minimum number of charactes If incomplete 2/5 interleaved codes are allowed

Communication Name	DCC25ILMinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	178
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..50
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC25ILMinIncmp`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILMinIncmp	String	15	Minimum number of charactes If incomplete 2/5 interleaved codes are allowed

Read Variable Response:

`sRA DCC25ILMinIncmp <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILMinIncmp	String	15	Minimum number of charactes If incomplete 2/5 interleaved codes are allowed
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCC25ILMinIncmp <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILMinIncmp	String	15	Minimum number of charactes If incomplete 2/5 interleaved codes are allowed
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCC25ILMinIncmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILMinIncmp	String	15	Minimum number of charactes If incomplete 2/5 interleaved codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC25ILMinIncmp[ETX]
Read Variable Response:	[STX]sRA DCC25ILMinIncmp 5[ETX]
Write Variable:	[STX]sWN DCC25ILMinIncmp 5[ETX]
Write Variable Response:	[STX]sWA DCC25ILMinIncmp[ETX]

2.7.1.63. Variable: C25ILTransmitCheckDigit

The following section contains a detailed description of the variable C25ILTransmitCheckDigit.

Variable Overview

Variable Name	Description
C25ILTransmitCheckDigit	Transmit Check Digit for 25IL

Communication Name	DCC25ILTrCd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	179
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCC25ILTrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC25ILTrCd	String	11	Transmit Check Digit for 25IL

Read Variable Response:				
`sRA DCC25ILTrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC25ILTrCd	String	11	Transmit Check Digit for 25IL
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCC25ILTrCd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC25ILTrCd	String	11	Transmit Check Digit for 25IL
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCC25ILTrCd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC25ILTrCd	String	11	Transmit Check Digit for 25IL

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC25ILTrCd[ETX]`
Read Variable Response:	`[STX]sRA DCC25ILTrCd 1[ETX]`
Write Variable:	`[STX]sWN DCC25ILTrCd 1[ETX]`
Write Variable Response:	`[STX]sWA DCC25ILTrCd[ETX]`

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2.7.1.64. Variable: C93Active

The following section contains a detailed description of the variable C93Active.

Variable Overview

Variable Name	Description
C93Active	Activates Code 93 Decoder

Communication Name	DCC93Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	180
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC93Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93Act	String	8	Activates Code 93 Decoder

Read Variable Response:

```
sRA DCC93Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93Act	String	8	Activates Code 93 Decoder
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC93Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93Act	String	8	Activates Code 93 Decoder
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC93Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93Act	String	8	Activates Code 93 Decoder

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC93Act[ETX]`
Read Variable Response:	`[STX]sRA DCC93Act 0[ETX]`
Write Variable:	`[STX]sWN DCC93Act 0[ETX]`
Write Variable Response:	`[STX]sWA DCC93Act[ETX]`

2.7.1.65. Variable: C93MultiRead

The following section contains a detailed description of the variable C93MultiRead.

Variable Overview

Variable Name	Description
C93MultiRead	Multiread of Code 93

Communication Name	DCC93Mr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	181
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC93Mr`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93Mr	String	7	Multiread of Code 93

Read Variable Response:

`sRA DCC93Mr <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93Mr	String	7	Multiread of Code 93
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCC93Mr <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93Mr	String	7	Multiread of Code 93
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCC93Mr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93Mr	String	7	Multiread of Code 93

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC93Mr[ETX]
Read Variable Response:	[STX]sRA DCC93Mr 3[ETX]
Write Variable:	[STX]sWN DCC93Mr 3[ETX]
Write Variable Response:	[STX]sWA DCC93Mr[ETX]

2.7.1.66. Variable: C93LengthMode

The following section contains a detailed description of the variable C93LengthMode.

Variable Overview

Variable Name	Description
C93LengthMode	Codelength mode of Code93

Communication Name	DCC93LenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	182
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC93LenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93LenMode	String	12	Codelength mode of Code93

Read Variable Response:				
`sRA DCC93LenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93LenMode	String	12	Codelength mode of Code93
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC93LenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93LenMode	String	12	Codelength mode of Code93
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC93LenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93LenMode	String	12	Codelength mode of Code93

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC93LenMode[ETX]`
Read Variable Response:	`[STX]sRA DCC93LenMode 0[ETX]`
Write Variable:	`[STX]sWN DCC93LenMode 0[ETX]`
Write Variable Response:	`[STX]sWA DCC93LenMode[ETX]`

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2.7.1.67. Variable: C93FixLenList

The following section contains a detailed description of the variable C93FixLenList.

Variable Overview

Variable Name	Description
C93FixLenList	List of fix code lengths

Communication Name	DCC93FixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	183
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC93FixLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93FixLen	String	11	List of fix code lengths

Read Variable Response:

```
sRA DCC93FixLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93FixLen	String	11	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:

```
sWN DCC93FixLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93FixLen	String	11	List of fix code lengths
Variable Data	data	Array	20	

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Write Variable Response:				
sWA DCC93FixLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93FixLen	String	11	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC93FixLen[ETX]
Read Variable Response:	[STX]sRA DCC93FixLen 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN DCC93FixLen 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA DCC93FixLen[ETX]

2.7.1.68. Variable: C93IntLenList

The following section contains a detailed description of the variable C93IntLenList.

Variable Overview

Variable Name	Description
C93IntLenList	List of interval code lengths

Communication Name	DCC93IntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	184
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC93IntLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93IntLen	String	11	List of interval code lengths

Read Variable Response:				
`sRA DCC93IntLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93IntLen	String	11	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:				
`sWN DCC93IntLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93IntLen	String	11	List of interval code lengths
Variable Data	data	Array	8	

Write Variable Response:				
`sWA DCC93IntLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93IntLen	String	11	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC93IntLen[ETX]`
Read Variable Response:	`[STX]sRA DCC93IntLen 0 0[ETX]`
Write Variable:	`[STX]sWN DCC93IntLen 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCC93IntLen[ETX]`

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2.7.1.69. Variable: C93HexASCIIOutput

The following section contains a detailed description of the variable C93HexASCIIOutput.

Variable Overview

Variable Name	Description
C93HexASCIIOutput	Hex ASCII Output of Code 93

Communication Name	DCC93HxAOut
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	185
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC93HxAOut
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93HxAOut	String	11	Hex ASCII Output of Code 93

Read Variable Response:

```
sRA DCC93HxAOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93HxAOut	String	11	Hex ASCII Output of Code 93
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC93HxAOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93HxAOut	String	11	Hex ASCII Output of Code 93
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC93HxAOut
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93HxAOut	String	11	Hex ASCII Output of Code 93

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC93HxAOut[ETX]`
Read Variable Response:	`[STX]sRA DCC93HxAOut 0[ETX]`
Write Variable:	`[STX]sWN DCC93HxAOut 0[ETX]`
Write Variable Response:	`[STX]sWA DCC93HxAOut[ETX]`

2.7.1.70. Variable: C93AllowIncomplete

The following section contains a detailed description of the variable C93AllowIncomplete.

Variable Overview

Variable Name	Description
C93AllowIncomplete	Allows reading of incomplete code 93 codes

Communication Name	DCC93Incmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	186
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC93Incmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93Incmp	String	10	Allows reading of incomplete code 93 codes

Read Variable Response:

```
sRA DCC93Incmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93Incmp	String	10	Allows reading of incomplete code 93 codes
Variable Data	data	Bool	1	

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Write Variable:				
sWN DCC93Incmp <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93Incmp	String	10	Allows reading of incomplete code 93 codes
Variable Data	data	Bool	1	

Write Variable Response:				
sWA DCC93Incmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93Incmp	String	10	Allows reading of incomplete code 93 codes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC93Incmp[ETX]
Read Variable Response:	[STX]sRA DCC93Incmp 0[ETX]
Write Variable:	[STX]sWN DCC93Incmp 0[ETX]
Write Variable Response:	[STX]sWA DCC93Incmp[ETX]

2.7.1.71. Variable: C93MinCharsIncomplete

The following section contains a detailed description of the variable C93MinCharsIncomplete.

Variable Overview

Variable Name	Description
C93MinCharsIncomplete	Minimum number of charactes If incomplete code 93 codes are allowed

Communication Name	DCC93MinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	187
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..50
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC93MinIncmp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC93MinIncmp	String	13	Minimum number of charactes If incomplete code 93 codes are allowed

Read Variable Response:				
`sRA DCC93MinIncmp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC93MinIncmp	String	13	Minimum number of charactes If incomplete code 93 codes are allowed
Variable Data	data	UInt	2	

Write Variable:				
`sWN DCC93MinIncmp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC93MinIncmp	String	13	Minimum number of charactes If incomplete code 93 codes are allowed
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DCC93MinIncmp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC93MinIncmp	String	13	Minimum number of charactes If incomplete code 93 codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC93MinIncmp[ETX]`
Read Variable Response:	`[STX]sRA DCC93MinIncmp 5[ETX]`
Write Variable:	`[STX]sWN DCC93MinIncmp 5[ETX]`
Write Variable Response:	`[STX]sWA DCC93MinIncmp[ETX]`

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2.7.1.72. Variable: C128FamiliyActive

The following section contains a detailed description of the variable C128FamiliyActive.

Variable Overview

Variable Name	Description
C128FamiliyActive	Activates Family Code 128 Decoder

Communication Name	DCFam128Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	188
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN DCFam128Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCFam128Act	String	11	Activates Family Code 128 Decoder

Read Variable Response:

```
sRA DCFam128Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCFam128Act	String	11	Activates Family Code 128 Decoder
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCFam128Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCFam128Act	String	11	Activates Family Code 128 Decoder
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCFam128Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCFam128Act	String	11	Activates Family Code 128 Decoder

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCFam128Act[ETX]`
Read Variable Response:	`[STX]sRA DCFam128Act 1[ETX]`
Write Variable:	`[STX]sWN DCFam128Act 1[ETX]`
Write Variable Response:	`[STX]sWA DCFam128Act[ETX]`

2.7.1.73. Variable: C128Active

The following section contains a detailed description of the variable C128Active.

Variable Overview

Variable Name	Description
C128Active	Activates Code 128 Decoder

Communication Name	DCC128Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	189
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN DCC128Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128Act	String	9	Activates Code 128 Decoder

Read Variable Response:

```
sRA DCC128Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128Act	String	9	Activates Code 128 Decoder
Variable Data	data	Bool	1	

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Write Variable:				
sWN DCC128Act <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128Act	String	9	Activates Code 128 Decoder
Variable Data	data	Bool	1	

Write Variable Response:				
sWA DCC128Act				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128Act	String	9	Activates Code 128 Decoder

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC128Act[ETX]
Read Variable Response:	[STX]sRA DCC128Act 1[ETX]
Write Variable:	[STX]sWN DCC128Act 1[ETX]
Write Variable Response:	[STX]sWA DCC128Act[ETX]

2.7.1.74. Variable: EAN128Active

The following section contains a detailed description of the variable EAN128Active.

Variable Overview

Variable Name	Description
EAN128Active	Activates EAN 128

Communication Name	DCEAN128Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	190
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCEAN128Act`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCEAN128Act	String	11	Activates EAN 128

Read Variable Response:				
`sRA DCEAN128Act <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCEAN128Act	String	11	Activates EAN 128
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCEAN128Act <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCEAN128Act	String	11	Activates EAN 128
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCEAN128Act`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCEAN128Act	String	11	Activates EAN 128

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCEAN128Act[ETX]`
Read Variable Response:	`[STX]sRA DCEAN128Act 0[ETX]`
Write Variable:	`[STX]sWN DCEAN128Act 0[ETX]`
Write Variable Response:	`[STX]sWA DCEAN128Act[ETX]`

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2.7.1.75. Variable: C128MultiRead

The following section contains a detailed description of the variable C128MultiRead.

Variable Overview

Variable Name	Description
C128MultiRead	Multiread of Code 128

Communication Name	DCC128Mr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	191
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC128Mr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128Mr	String	8	Multiread of Code 128

Read Variable Response:

```
sRA DCC128Mr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128Mr	String	8	Multiread of Code 128
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCC128Mr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128Mr	String	8	Multiread of Code 128
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DCC128Mr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128Mr	String	8	Multiread of Code 128

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128Mr[ETX]`
Read Variable Response:	`[STX]sRA DCC128Mr 3[ETX]`
Write Variable:	`[STX]sWN DCC128Mr 3[ETX]`
Write Variable Response:	`[STX]sWA DCC128Mr[ETX]`

2.7.1.76. Variable: C128CheckDigitTestL1

The following section contains a detailed description of the variable C128CheckDigitTestL1.

Variable Overview

Variable Name	Description
C128CheckDigitTestL1	Check Digit Test for Code128 Length 1

Communication Name	DCC128CdTstL1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	192
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_GROUND96	
	2	TX_SSCC18	
	3	TX_W8M11	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC128CdTstL1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128CdTstL1	String	13	Check Digit Test for Code128 Length 1

Read Variable Response:				
`sRA DCC128CdTstL1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128CdTstL1	String	13	Check Digit Test for Code128 Length 1
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC128CdTstL1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128CdTstL1	String	13	Check Digit Test for Code128 Length 1
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC128CdTstL1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128CdTstL1	String	13	Check Digit Test for Code128 Length 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128CdTstL1[ETX]`
Read Variable Response:	`[STX]sRA DCC128CdTstL1 0[ETX]`
Write Variable:	`[STX]sWN DCC128CdTstL1 0[ETX]`
Write Variable Response:	`[STX]sWA DCC128CdTstL1[ETX]`

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2.7.1.77. Variable: C128CheckDigitTestL2

The following section contains a detailed description of the variable C128CheckDigitTestL2.

Variable Overview

Variable Name	Description
C128CheckDigitTestL2	Check Digit Test for Code128 Length 2

Communication Name	DCC128CdTstL2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	193
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_GROUND96	
	2	TX_SSCC18	
	3	TX_W8M11	

Variable Telegram Syntax

Read Variable:				
`sRN DCC128CdTstL2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128CdTstL2	String	13	Check Digit Test for Code128 Length 2

Read Variable Response:				
`sRA DCC128CdTstL2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128CdTstL2	String	13	Check Digit Test for Code128 Length 2
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC128CdTstL2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128CdTstL2	String	13	Check Digit Test for Code128 Length 2
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DCC128CdTstL2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128CdTstL2	String	13	Check Digit Test for Code128 Length 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC128CdTstL2[ETX]
Read Variable Response:	[STX]sRA DCC128CdTstL2 0[ETX]
Write Variable:	[STX]sWN DCC128CdTstL2 0[ETX]
Write Variable Response:	[STX]sWA DCC128CdTstL2[ETX]

2.7.1.78. Variable: C128CheckDigitTestL3

The following section contains a detailed description of the variable C128CheckDigitTestL3.

Variable Overview

Variable Name	Description
C128CheckDigitTestL3	Check Digit Test for Code128 Length 3

Communication Name	DCC128CdTstL3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	194
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_GROUND96	
	2	TX_SSCC18	
	3	TX_W8M11	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC128CdTstL3`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128CdTstL3	String	13	Check Digit Test for Code128 Length 3

Read Variable Response:				
`sRA DCC128CdTstL3 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128CdTstL3	String	13	Check Digit Test for Code128 Length 3
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC128CdTstL3 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128CdTstL3	String	13	Check Digit Test for Code128 Length 3
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC128CdTstL3`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128CdTstL3	String	13	Check Digit Test for Code128 Length 3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128CdTstL3[ETX]`
Read Variable Response:	`[STX]sRA DCC128CdTstL3 0[ETX]`
Write Variable:	`[STX]sWN DCC128CdTstL3 0[ETX]`
Write Variable Response:	`[STX]sWA DCC128CdTstL3[ETX]`

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2.7.1.79. Variable: C128CheckDigitTestL4

The following section contains a detailed description of the variable C128CheckDigitTestL4.

Variable Overview

Variable Name	Description
C128CheckDigitTestL4	Check Digit Test for Code128 Length 4

Communication Name	DCC128CdTstL4
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	195
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_GROUND96	
	2	TX_SSCC18	
	3	TX_W8M11	

Variable Telegram Syntax

Read Variable:				
`sRN DCC128CdTstL4`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128CdTstL4	String	13	Check Digit Test for Code128 Length 4

Read Variable Response:				
`sRA DCC128CdTstL4 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128CdTstL4	String	13	Check Digit Test for Code128 Length 4
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC128CdTstL4 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128CdTstL4	String	13	Check Digit Test for Code128 Length 4
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DCC128CdTstL4				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128CdTstL4	String	13	Check Digit Test for Code128 Length 4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC128CdTstL4[ETX]
Read Variable Response:	[STX]sRA DCC128CdTstL4 0[ETX]
Write Variable:	[STX]sWN DCC128CdTstL4 0[ETX]
Write Variable Response:	[STX]sWA DCC128CdTstL4[ETX]

2.7.1.80. Variable: C128CheckDigitTestL5

The following section contains a detailed description of the variable C128CheckDigitTestL5.

Variable Overview

Variable Name	Description
C128CheckDigitTestL5	Check Digit Test for Code128 Length 5

Communication Name	DCC128CdTstL5
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	196
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_GROUND96	
	2	TX_SSCC18	
	3	TX_W8M11	

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Variable Telegram Syntax

Read Variable:				
`sRN DCC128CdTstL5`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128CdTstL5	String	13	Check Digit Test for Code128 Length 5

Read Variable Response:				
`sRA DCC128CdTstL5 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128CdTstL5	String	13	Check Digit Test for Code128 Length 5
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCC128CdTstL5 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128CdTstL5	String	13	Check Digit Test for Code128 Length 5
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCC128CdTstL5`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128CdTstL5	String	13	Check Digit Test for Code128 Length 5

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128CdTstL5[ETX]`
Read Variable Response:	`[STX]sRA DCC128CdTstL5 0[ETX]`
Write Variable:	`[STX]sWN DCC128CdTstL5 0[ETX]`
Write Variable Response:	`[STX]sWA DCC128CdTstL5[ETX]`

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2.7.1.81. Variable: C128LengthMode

The following section contains a detailed description of the variable C128LengthMode.

Variable Overview

Variable Name	Description
C128LengthMode	Codelength mode of Code128

Communication Name	DCC128LenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	197
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCC128LenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128LenMode	String	13	Codelength mode of Code128

Read Variable Response:

```
sRA DCC128LenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128LenMode	String	13	Codelength mode of Code128
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCC128LenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128LenMode	String	13	Codelength mode of Code128
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCC128LenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCC128LenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCC128LenMode	String	13	Codelength mode of Code128

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC128LenMode[ETX]
Read Variable Response:	[STX]sRA DCC128LenMode 0[ETX]
Write Variable:	[STX]sWN DCC128LenMode 0[ETX]
Write Variable Response:	[STX]sWA DCC128LenMode[ETX]

2.7.1.82. Variable: C128FixLenList

The following section contains a detailed description of the variable C128FixLenList.

Variable Overview

Variable Name	Description
C128FixLenList	List of fix code lengths

Communication Name	DCC128FixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	198
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCC128FixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128FixLen	String	12	List of fix code lengths

Read Variable Response:				
`sRA DCC128FixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128FixLen	String	12	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCC128FixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128FixLen	String	12	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCC128FixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128FixLen	String	12	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128FixLen[ETX]`
Read Variable Response:	`[STX]sRA DCC128FixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCC128FixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCC128FixLen[ETX]`

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2.7.1.83. Variable: C128IntLenList

The following section contains a detailed description of the variable C128IntLenList.

Variable Overview

Variable Name	Description
C128IntLenList	List of interval code lengths

Communication Name	DCC128IntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	199
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCC128IntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128IntLen	String	12	List of interval code lengths

Read Variable Response:

```
sRA DCC128IntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128IntLen	String	12	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCC128IntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128IntLen	String	12	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCC128IntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128IntLen	String	12	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC128IntLen[ETX]
Read Variable Response:	[STX]sRA DCC128IntLen 0 0[ETX]
Write Variable:	[STX]sWN DCC128IntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCC128IntLen[ETX]

2.7.1.84. Variable: C128HexASCIIOutput

The following section contains a detailed description of the variable C128HexASCIIOutput.

Variable Overview

Variable Name	Description
C128HexASCIIOutput	Hex ASCII Output of Code 128

Communication Name	DCC128HxAOut
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	200
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCC128HxAOut`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128HxAOut	String	12	Hex ASCII Output of Code 128

Read Variable Response:				
`sRA DCC128HxAOut <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128HxAOut	String	12	Hex ASCII Output of Code 128
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCC128HxAOut <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128HxAOut	String	12	Hex ASCII Output of Code 128
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCC128HxAOut`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128HxAOut	String	12	Hex ASCII Output of Code 128

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128HxAOut[ETX]`
Read Variable Response:	`[STX]sRA DCC128HxAOut 0[ETX]`
Write Variable:	`[STX]sWN DCC128HxAOut 0[ETX]`
Write Variable Response:	`[STX]sWA DCC128HxAOut[ETX]`

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2.7.1.85. Variable: EAN128FirstFC1Val

The following section contains a detailed description of the variable EAN128FirstFC1Val.

Variable Overview

Variable Name	Description
EAN128FirstFC1Val	FC1 replace values if FC1 on first position

Communication Name	DCEAN1281stFc1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	201
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	3
Default Value	{93,67,49}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCEAN1281stFc1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCEAN1281stFc1	String	14	FC1 replace values if FC1 on first position

Read Variable Response:

```
sRA DCEAN1281stFc1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCEAN1281stFc1	String	14	FC1 replace values if FC1 on first position
Variable Data	data	Array	3	

Write Variable:

```
sWN DCEAN1281stFc1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCEAN1281stFc1	String	14	FC1 replace values if FC1 on first position
Variable Data	data	Array	3	

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Write Variable Response:				
sWA DCEAN1281stFc1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCEAN1281stFc1	String	14	FC1 replace values if FC1 on first position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCEAN1281stFc1[ETX]
Read Variable Response:	[STX]sRA DCEAN1281stFc1 5D 43 31[ETX]
Write Variable:	[STX]sWN DCEAN1281stFc1 5D 43 31[ETX]
Write Variable Response:	[STX]sWA DCEAN1281stFc1[ETX]

2.7.1.86. Variable: EAN128InsideFC1Val

The following section contains a detailed description of the variable EAN128InsideFC1Val.

Variable Overview

Variable Name	Description
EAN128InsideFC1Val	FC1 replace values if FC1 within code

Communication Name	DCEAN128InsFc1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	202
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	3
Default Value	{29,0,0}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCEAN128InsFc1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCEAN128InsFc1	String	14	FC1 replace values if FC1 within code

Read Variable Response:				
`sRA DCEAN128InsFc1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCEAN128InsFc1	String	14	FC1 replace values if FC1 within code
Variable Data	data	Array	3	

Write Variable:				
`sWN DCEAN128InsFc1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCEAN128InsFc1	String	14	FC1 replace values if FC1 within code
Variable Data	data	Array	3	

Write Variable Response:				
`sWA DCEAN128InsFc1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCEAN128InsFc1	String	14	FC1 replace values if FC1 within code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCEAN128InsFc1[ETX]`
Read Variable Response:	`[STX]sRA DCEAN128InsFc1 1D 0 0[ETX]`
Write Variable:	`[STX]sWN DCEAN128InsFc1 1D 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCEAN128InsFc1[ETX]`

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2.7.1.87. Variable: C128AllowIncomplete

The following section contains a detailed description of the variable C128AllowIncomplete.

Variable Overview

Variable Name	Description
C128AllowIncomplete	Allows reading of incomplete code 128 codes

Communication Name	DCC128Incmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	203
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCC128Incmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128Incmp	String	11	Allows reading of incomplete code 128 codes

Read Variable Response:

```
sRA DCC128Incmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128Incmp	String	11	Allows reading of incomplete code 128 codes
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCC128Incmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128Incmp	String	11	Allows reading of incomplete code 128 codes
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCC128Incmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128Incmp	String	11	Allows reading of incomplete code 128 codes

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCC128Incmp[ETX]`
Read Variable Response:	`[STX]sRA DCC128Incmp 0[ETX]`
Write Variable:	`[STX]sWN DCC128Incmp 0[ETX]`
Write Variable Response:	`[STX]sWA DCC128Incmp[ETX]`

2.7.1.88. Variable: C128MinCharsIncomplete

The following section contains a detailed description of the variable C128MinCharsIncomplete.

Variable Overview

Variable Name	Description
C128MinCharsIncomplete	Minimum number of charactes If incomplete code0128 codes are allowed

Communication Name	DCC128MinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	204
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..50
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN DCC128MinIncmp`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCC128MinIncmp	String	14	Minimum number of charactes If incomplete code0128 codes are allowed

Read Variable Response:

`sRA DCC128MinIncmp <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCC128MinIncmp	String	14	Minimum number of charactes If incomplete code0128 codes are allowed
Variable Data	data	UInt	2	

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Write Variable:				
sWN DCC128MinIncmp <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCC128MinIncmp	String	14	Minimum number of charactes If incomplete code0128 codes are allowed
Variable Data	data	UInt	2	

Write Variable Response:				
sWA DCC128MinIncmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCC128MinIncmp	String	14	Minimum number of charactes If incomplete code0128 codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCC128MinIncmp[ETX]
Read Variable Response:	[STX]sRA DCC128MinIncmp 5[ETX]
Write Variable:	[STX]sWN DCC128MinIncmp 5[ETX]
Write Variable Response:	[STX]sWA DCC128MinIncmp[ETX]

2.7.1.89. Variable: PharmaActive

The following section contains a detailed description of the variable PharmaActive.

Variable Overview

Variable Name	Description
PharmaActive	Activates Pharma Decoder

Communication Name	DCPhrmAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	205
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPhrmAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPhrmAct	String	9	Activates Pharma Decoder

Read Variable Response:				
`sRA DCPhrmAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPhrmAct	String	9	Activates Pharma Decoder
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPhrmAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPhrmAct	String	9	Activates Pharma Decoder
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPhrmAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPhrmAct	String	9	Activates Pharma Decoder

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPhrmAct[ETX]`
Read Variable Response:	`[STX]sRA DCPhrmAct 0[ETX]`
Write Variable:	`[STX]sWN DCPhrmAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPhrmAct[ETX]`

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2.7.1.90. Variable: PharmMultiRead

The following section contains a detailed description of the variable PharmMultiRead.

Variable Overview

Variable Name	Description
PharmMultiRead	Multiread of Pharmacode

Communication Name	DCPhrmMr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	206
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPhrmMr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPhrmMr	String	8	Multiread of Pharmacode

Read Variable Response:

```
sRA DCPhrmMr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPhrmMr	String	8	Multiread of Pharmacode
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCPhrmMr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPhrmMr	String	8	Multiread of Pharmacode
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DCPhrmMr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPhrmMr	String	8	Multiread of Pharmacode

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPhrmMr[ETX]`
Read Variable Response:	`[STX]sRA DCPhrmMr 3[ETX]`
Write Variable:	`[STX]sWN DCPhrmMr 3[ETX]`
Write Variable Response:	`[STX]sWA DCPhrmMr[ETX]`

2.7.1.91. Variable: PharmModuleWidthMode

The following section contains a detailed description of the variable PharmModuleWidthMode.

Variable Overview

Variable Name	Description
PharmModuleWidthMode	Mode at which allowed module widths of pharma codes are handled

Communication Name	DCPhrmMdWdMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	207
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_AUTO	
	1	TX_USER_DEFINED	

Variable Telegram Syntax

Read Variable:				
`sRN DCPhrmMdWdMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPhrmMdWdMd	String	12	Mode at which allowed module widths of pharma codes are handled

Read Variable Response:				
`sRA DCPhrmMdWdMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPhrmMdWdMd	String	12	Mode at which allowed module widths of pharma codes are handled
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DCPhrmMdWdMd <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPhrmMdWdMd	String	12	Mode at which allowed module widths of pharma codes are handled
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCPhrmMdWdMd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPhrmMdWdMd	String	12	Mode at which allowed module widths of pharma codes are handled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPhrmMdWdMd[ETX]
Read Variable Response:	[STX]sRA DCPhrmMdWdMd 0[ETX]
Write Variable:	[STX]sWN DCPhrmMdWdMd 0[ETX]
Write Variable Response:	[STX]sWA DCPhrmMdWdMd[ETX]

2.7.1.92. Variable: PharmModuleWidthUserDefined

The following section contains a detailed description of the variable PharmModuleWidthUserDefined.

Variable Overview

Variable Name	Description
PharmModuleWidthUserDefined	Classification limit if PharmModuleWidthMode is user defined.

Communication Name	DCPhrmMdWdUs
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	208
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 0.2..0.50
Initialisation	0.35
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPhrmMdWdUs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPhrmMdWdUs	String	12	Classification limit if PharmModuleWidthMode is user defined.

Read Variable Response:				
`sRA DCPhrmMdWdUs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPhrmMdWdUs	String	12	Classification limit if PharmModuleWidthMode is user defined.
Variable Data	data	Real	4	

Write Variable:				
`sWN DCPhrmMdWdUs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPhrmMdWdUs	String	12	Classification limit if PharmModuleWidthMode is user defined.
Variable Data	data	Real	4	

Write Variable Response:				
`sWA DCPhrmMdWdUs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPhrmMdWdUs	String	12	Classification limit if PharmModuleWidthMode is user defined.

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPhrmMdWdUs[ETX]`
Read Variable Response:	`[STX]sRA DCPhrmMdWdUs 3EB33333[ETX]`
Write Variable:	`[STX]sWN DCPhrmMdWdUs +0.35[ETX]`
Write Variable Response:	`[STX]sWA DCPhrmMdWdUs[ETX]`

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2.7.1.93. Variable: PharmLength

The following section contains a detailed description of the variable PharmLength.

Variable Overview

Variable Name	Description
PharmLength	Length of pharma code

Communication Name	DCPhrmLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	209
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	4..20
Initialisation	4
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPhrmLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPhrmLen	String	9	Length of pharma code

Read Variable Response:

```
sRA DCPhrmLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPhrmLen	String	9	Length of pharma code
Variable Data	data	UDInt	4	

Write Variable:

```
sWN DCPhrmLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPhrmLen	String	9	Length of pharma code
Variable Data	data	UDInt	4	

Write Variable Response:

```
sWA DCPhrmLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPhrmLen	String	9	Length of pharma code

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPhrmLen[ETX]`
Read Variable Response:	`[STX]sRA DCPhrmLen 4[ETX]`
Write Variable:	`[STX]sWN DCPhrmLen 4[ETX]`
Write Variable Response:	`[STX]sWA DCPhrmLen[ETX]`

2.7.1.94. Variable: PharmReverse

The following section contains a detailed description of the variable PharmReverse.

Variable Overview

Variable Name	Description
PharmReverse	Reverse output of pharma code

Communication Name	DCPhrmRev
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	210
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:				
`sRN DCPhrmRev`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPhrmRev	String	9	Reverse output of pharma code

Read Variable Response:				
`sRA DCPhrmRev <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPhrmRev	String	9	Reverse output of pharma code
Variable Data	data	Bool	1	

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Write Variable:				
`sWN DCPhrmRev <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPhrmRev	String	9	Reverse output of pharma code
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPhrmRev`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPhrmRev	String	9	Reverse output of pharma code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPhrmRev[ETX]`
Read Variable Response:	`[STX]sRA DCPhrmRev 0[ETX]`
Write Variable:	`[STX]sWN DCPhrmRev 0[ETX]`
Write Variable Response:	`[STX]sWA DCPhrmRev[ETX]`

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2.7.2. Group: Decoding1DGS1DataBar

2.7.2.1. Variable: GS1DataBarActive

The following section contains a detailed description of the variable GS1DataBarActive.

Variable Overview

Variable Name	Description
GS1DataBarActive	Activates GS1 DataBar Decoder

Communication Name	DCGS1Act
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	214
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1Act	String	8	Activates GS1 DataBar Decoder

Read Variable Response:

```
sRA DCGS1Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1Act	String	8	Activates GS1 DataBar Decoder
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCGS1Act <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1Act	String	8	Activates GS1 DataBar Decoder
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCGS1Act
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCGS1Act				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCGS1Act	String	8	Activates GS1 DataBar Decoder

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS1Act[ETX]
Read Variable Response:	[STX]sRA DCGS1Act 0[ETX]
Write Variable:	[STX]sWN DCGS1Act 0[ETX]
Write Variable Response:	[STX]sWA DCGS1Act[ETX]

2.7.2.2. Variable: GS114Enabled

The following section contains a detailed description of the variable GS114Enabled.

Variable Overview

Variable Name	Description
GS114Enabled	Activates GS1 DataBar 14

Communication Name	DCGS114Enabled
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	215
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN DCGS114Enabled`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS114Enabled	String	14	Activates GS1 DataBar 14

Read Variable Response:				
`sRA DCGS114Enabled <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS114Enabled	String	14	Activates GS1 DataBar 14
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCGS114Enabled <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS114Enabled	String	14	Activates GS1 DataBar 14
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCGS114Enabled`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS114Enabled	String	14	Activates GS1 DataBar 14

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS114Enabled[ETX]`
Read Variable Response:	`[STX]sRA DCGS114Enabled 1[ETX]`
Write Variable:	`[STX]sWN DCGS114Enabled 1[ETX]`
Write Variable Response:	`[STX]sWA DCGS114Enabled[ETX]`

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2.7.2.3. Variable: GS1ExpandedEnabled

The following section contains a detailed description of the variable GS1ExpandedEnabled.

Variable Overview

Variable Name	Description
GS1ExpandedEnabled	Activates GS1 DataBar Expanded

Communication Name	DCGS1ExpEnabled
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	216
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1ExpEnabled
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1ExpEnabled	String	15	Activates GS1 DataBar Expanded

Read Variable Response:

```
sRA DCGS1ExpEnabled <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1ExpEnabled	String	15	Activates GS1 DataBar Expanded
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCGS1ExpEnabled <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1ExpEnabled	String	15	Activates GS1 DataBar Expanded
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCGS1ExpEnabled
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1ExpEnabled	String	15	Activates GS1 DataBar Expanded

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1ExpEnabled[ETX]`
Read Variable Response:	`[STX]sRA DCGS1ExpEnabled 1[ETX]`
Write Variable:	`[STX]sWN DCGS1ExpEnabled 1[ETX]`
Write Variable Response:	`[STX]sWA DCGS1ExpEnabled[ETX]`

2.7.2.4. Variable: GS1LimitedEnabled

The following section contains a detailed description of the variable GS1LimitedEnabled.

Variable Overview

Variable Name	Description
GS1LimitedEnabled	Activates GS1 DataBar Limited

Communication Name	DCGS1LimEnabled
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	217
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

`sRN DCGS1LimEnabled`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1LimEnabled	String	15	Activates GS1 DataBar Limited

Read Variable Response:

`sRA DCGS1LimEnabled <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1LimEnabled	String	15	Activates GS1 DataBar Limited
Variable Data	data	Bool	1	

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Write Variable:				
sWN DCGS1LimEnabled <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1LimEnabled	String	15	Activates GS1 DataBar Limited
Variable Data	data	Bool	1	

Write Variable Response:				
sWA DCGS1LimEnabled				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1LimEnabled	String	15	Activates GS1 DataBar Limited

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS1LimEnabled[ETX]
Read Variable Response:	[STX]sRA DCGS1LimEnabled 1[ETX]
Write Variable:	[STX]sWN DCGS1LimEnabled 1[ETX]
Write Variable Response:	[STX]sWA DCGS1LimEnabled[ETX]

2.7.2.5. Variable: GS1DataBarStackedCodesActive

The following section contains a detailed description of the variable GS1DataBarStackedCodesActive.

Variable Overview

Variable Name	Description
GS1DataBarStackedCodesActive	Activates GS1 DataBar Stacked Codes

Communication Name	DCGS1StackedAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	218
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCGS1StackedAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1StackedAct	String	15	Activates GS1 DataBar Stacked Codes

Read Variable Response:				
`sRA DCGS1StackedAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1StackedAct	String	15	Activates GS1 DataBar Stacked Codes
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCGS1StackedAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1StackedAct	String	15	Activates GS1 DataBar Stacked Codes
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCGS1StackedAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1StackedAct	String	15	Activates GS1 DataBar Stacked Codes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1StackedAct[ETX]`
Read Variable Response:	`[STX]sRA DCGS1StackedAct 0[ETX]`
Write Variable:	`[STX]sWN DCGS1StackedAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCGS1StackedAct[ETX]`

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2.7.2.6. Variable: GS1MultiRead

The following section contains a detailed description of the variable GS1MultiRead.

Variable Overview

Variable Name	Description
GS1MultiRead	Multiread of GS1 DataBar

Communication Name	DCGS1Mr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	219
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1Mr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1Mr	String	7	Multiread of GS1 DataBar

Read Variable Response:

```
sRA DCGS1Mr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1Mr	String	7	Multiread of GS1 DataBar
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCGS1Mr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1Mr	String	7	Multiread of GS1 DataBar
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DCGS1Mr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1Mr	String	7	Multiread of GS1 DataBar

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1Mr[ETX]`
Read Variable Response:	`[STX]sRA DCGS1Mr 3[ETX]`
Write Variable:	`[STX]sWN DCGS1Mr 3[ETX]`
Write Variable Response:	`[STX]sWA DCGS1Mr[ETX]`

2.7.2.7. Variable: GS12DComponentMode

The following section contains a detailed description of the variable GS12DComponentMode.

Variable Overview

Variable Name	Description
GS12DComponentMode	GS1 DataBar 2D component mode mode

Communication Name	DCGS12DCompMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	220
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_None	
	1	TX_Active	
	2	TX_Required	

Variable Telegram Syntax

Read Variable:				
`sRN DCGS12DCompMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS12DCompMode	String	15	GS1 DataBar 2D component mode mode

Read Variable Response:				
`sRA DCGS12DCompMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS12DCompMode	String	15	GS1 DataBar 2D component mode mode
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DCGS12DCompMode <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS12DCompMode	String	15	GS1 DataBar 2D component mode mode
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCGS12DCompMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS12DCompMode	String	15	GS1 DataBar 2D component mode mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS12DCompMode[ETX]
Read Variable Response:	[STX]sRA DCGS12DCompMode 0[ETX]
Write Variable:	[STX]sWN DCGS12DCompMode 0[ETX]
Write Variable Response:	[STX]sWA DCGS12DCompMode[ETX]

2.7.2.8. Variable: GS1HexASCIIOutput

The following section contains a detailed description of the variable GS1HexASCIIOutput.

Variable Overview

Variable Name	Description
GS1HexASCIIOutput	Hex ASCII Output of GS1 DataBar

Communication Name	DCGS1HxAOut
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	221
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCGS1HxAOut`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1HxAOut	String	11	Hex ASCII Output of GS1 DataBar

Read Variable Response:				
`sRA DCGS1HxAOut <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1HxAOut	String	11	Hex ASCII Output of GS1 DataBar
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCGS1HxAOut <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1HxAOut	String	11	Hex ASCII Output of GS1 DataBar
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCGS1HxAOut`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1HxAOut	String	11	Hex ASCII Output of GS1 DataBar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1HxAOut[ETX]`
Read Variable Response:	`[STX]sRA DCGS1HxAOut 0[ETX]`
Write Variable:	`[STX]sWN DCGS1HxAOut 0[ETX]`
Write Variable Response:	`[STX]sWA DCGS1HxAOut[ETX]`

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2.7.2.9. Variable: GS1EmulationEnabled

The following section contains a detailed description of the variable GS1EmulationEnabled.

Variable Overview

Variable Name	Description
GS1EmulationEnabled	Activates GS1 DataBar Emulation

Communication Name	DCGS1EmuEnabled
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	222
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1EmuEnabled
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1EmuEnabled	String	15	Activates GS1 DataBar Emulation

Read Variable Response:

```
sRA DCGS1EmuEnabled <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1EmuEnabled	String	15	Activates GS1 DataBar Emulation
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCGS1EmuEnabled <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1EmuEnabled	String	15	Activates GS1 DataBar Emulation
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCGS1EmuEnabled
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1EmuEnabled	String	15	Activates GS1 DataBar Emulation

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1EmuEnabled[ETX]`
Read Variable Response:	`[STX]sRA DCGS1EmuEnabled 0[ETX]`
Write Variable:	`[STX]sWN DCGS1EmuEnabled 0[ETX]`
Write Variable Response:	`[STX]sWA DCGS1EmuEnabled[ETX]`

2.7.2.10. Variable: GS1LengthMode

The following section contains a detailed description of the variable GS1LengthMode.

Variable Overview

Variable Name	Description
GS1LengthMode	Codelength mode of GS1 DataBar

Communication Name	DCGS1LenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	223
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:				
`sRN DCGS1LenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1LenMode	String	12	Codelength mode of GS1 DataBar

Read Variable Response:				
`sRA DCGS1LenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1LenMode	String	12	Codelength mode of GS1 DataBar
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DCGS1LenMode <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1LenMode	String	12	Codelength mode of GS1 DataBar
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCGS1LenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1LenMode	String	12	Codelength mode of GS1 DataBar

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS1LenMode[ETX]
Read Variable Response:	[STX]sRA DCGS1LenMode 0[ETX]
Write Variable:	[STX]sWN DCGS1LenMode 0[ETX]
Write Variable Response:	[STX]sWA DCGS1LenMode[ETX]

2.7.2.11. Variable: GS1FixLenList

The following section contains a detailed description of the variable GS1FixLenList.

Variable Overview

Variable Name	Description
GS1FixLenList	List of fix code lengths

Communication Name	DCDS1FixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	224
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCDS1FixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCDS1FixLen	String	11	List of fix code lengths

Read Variable Response:				
`sRA DCDS1FixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCDS1FixLen	String	11	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCDS1FixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCDS1FixLen	String	11	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCDS1FixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCDS1FixLen	String	11	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCDS1FixLen[ETX]`
Read Variable Response:	`[STX]sRA DCDS1FixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCDS1FixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCDS1FixLen[ETX]`

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2.7.2.12. Variable: GS1IntLenList

The following section contains a detailed description of the variable GS1IntLenList.

Variable Overview

Variable Name	Description
GS1IntLenList	List of interval code lengths

Communication Name	DCGS1IntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	225
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1IntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1IntLen	String	11	List of interval code lengths

Read Variable Response:

```
sRA DCGS1IntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1IntLen	String	11	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCGS1IntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1IntLen	String	11	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCGS1IntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1IntLen	String	11	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS1IntLen[ETX]
Read Variable Response:	[STX]sRA DCGS1IntLen 0 0[ETX]
Write Variable:	[STX]sWN DCGS1IntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCGS1IntLen[ETX]

2.7.2.13. Variable: GS1AllowIncomplete

The following section contains a detailed description of the variable GS1AllowIncomplete.

Variable Overview

Variable Name	Description
GS1AllowIncomplete	Allows reading of incomplete GS1 DataBar codes

Communication Name	DCGS1Incmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	226
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCGS1Incmp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1Incmp	String	10	Allows reading of incomplete GS1 DataBar codes

Read Variable Response:				
`sRA DCGS1Incmp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1Incmp	String	10	Allows reading of incomplete GS1 DataBar codes
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCGS1Incmp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1Incmp	String	10	Allows reading of incomplete GS1 DataBar codes
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCGS1Incmp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1Incmp	String	10	Allows reading of incomplete GS1 DataBar codes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1Incmp[ETX]`
Read Variable Response:	`[STX]sRA DCGS1Incmp 0[ETX]`
Write Variable:	`[STX]sWN DCGS1Incmp 0[ETX]`
Write Variable Response:	`[STX]sWA DCGS1Incmp[ETX]`

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2.7.2.14. Variable: GS1MinCharsIncomplete

The following section contains a detailed description of the variable GS1MinCharsIncomplete.

Variable Overview

Variable Name	Description
GS1MinCharsIncomplete	Minimum number of charactes If incomplete GS1 DataBar codes are allowed

Communication Name	DCGS1MinIncmp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	227
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..50
Initialisation	5
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1MinIncmp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1MinIncmp	String	13	Minimum number of charactes If incomplete GS1 DataBar codes are allowed

Read Variable Response:

```
sRA DCGS1MinIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1MinIncmp	String	13	Minimum number of charactes If incomplete GS1 DataBar codes are allowed
Variable Data	data	UInt	2	

Write Variable:

```
sWN DCGS1MinIncmp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1MinIncmp	String	13	Minimum number of charactes If incomplete GS1 DataBar codes are allowed
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA DCGS1MinIncmp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1MinIncmp	String	13	Minimum number of charactes If incomplete GS1 DataBar codes are allowed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS1MinIncmp[ETX]
Read Variable Response:	[STX]sRA DCGS1MinIncmp 5[ETX]
Write Variable:	[STX]sWN DCGS1MinIncmp 5[ETX]
Write Variable Response:	[STX]sWA DCGS1MinIncmp[ETX]

2.7.2.15. Variable: GS1Min3AdjacentSegments

The following section contains a detailed description of the variable GS1Min3AdjacentSegments.

Variable Overview

Variable Name	Description
GS1Min3AdjacentSegments	minimum of 3 adjacent segments for GS1 DataBar codes

Communication Name	DCGS1Min3AdjSegm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	228
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCGS1Min3AdjSegm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1Min3AdjSegm	String	16	minimum of 3 adjacent segments for GS1 DataBar codes

Read Variable Response:				
`sRA DCGS1Min3AdjSegm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1Min3AdjSegm	String	16	minimum of 3 adjacent segments for GS1 DataBar codes
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCGS1Min3AdjSegm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1Min3AdjSegm	String	16	minimum of 3 adjacent segments for GS1 DataBar codes
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCGS1Min3AdjSegm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1Min3AdjSegm	String	16	minimum of 3 adjacent segments for GS1 DataBar codes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCGS1Min3AdjSegm[ETX]`
Read Variable Response:	`[STX]sRA DCGS1Min3AdjSegm 0[ETX]`
Write Variable:	`[STX]sWN DCGS1Min3AdjSegm 0[ETX]`
Write Variable Response:	`[STX]sWA DCGS1Min3AdjSegm[ETX]`

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2.7.2.16. Variable: GS1ModuleWidthTolerance

The following section contains a detailed description of the variable GS1ModuleWidthTolerance.

Variable Overview

Variable Name	Description
GS1ModuleWidthTolerance	defines module width tolerance for GS1 DataBar codes

Communication Name	DCGS1ModWidthTol
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	229
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	1..4
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCGS1ModWidthTol
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCGS1ModWidthTol	String	16	defines module width tolerance for GS1 DataBar codes

Read Variable Response:

```
sRA DCGS1ModWidthTol <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCGS1ModWidthTol	String	16	defines module width tolerance for GS1 DataBar codes
Variable Data	data	USInt	1	

Write Variable:

```
sWN DCGS1ModWidthTol <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCGS1ModWidthTol	String	16	defines module width tolerance for GS1 DataBar codes
Variable Data	data	USInt	1	

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Write Variable Response:				
sWA DCGS1ModWidthTol				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCGS1ModWidthTol	String	16	defines module width tolerance for GS1 DataBar codes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCGS1ModWidthTol[ETX]
Read Variable Response:	[STX]sRA DCGS1ModWidthTol 1[ETX]
Write Variable:	[STX]sWN DCGS1ModWidthTol 1[ETX]
Write Variable Response:	[STX]sWA DCGS1ModWidthTol[ETX]

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2.7.3. Group: Decoding1DPostCodes

2.7.3.1. Variable: PostCodesDependentSymbology

The following section contains a detailed description of the variable PostCodesDependentSymbology.

Variable Overview

Variable Name	Description
PostCodesDependentSymbology	List of synbologies that can be enabled only exclusive

Communication Name	DCPCDepSym
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	230
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_INACTIVE	
	1	TX_UNITED_STATES_POSTAL	
	2	TX_AUSTRALIA_POST	
	3	TX_JAPAN_POST	
	4	TX_ROYAL_MAIL	
	5	TX_KIX	

Variable Telegram Syntax

Read Variable:				
`sRN DCPCDepSym`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCDepSym	String	10	List of synbologies that can be enabled only exclusive

Read Variable Response:				
`sRA DCPCDepSym <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCDepSym	String	10	List of synbologies that can be enabled only exclusive
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCPCDepSym <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCDepSym	String	10	List of synbologies that can be enabled only exclusive

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Write Variable:				
sWN DCPCDepSym <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCPCDepSym				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCDepSym	String	10	List of synbologies that can be enabled only exclusive

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCDepSym[ETX]
Read Variable Response:	[STX]sRA DCPCDepSym 0[ETX]
Write Variable:	[STX]sWN DCPCDepSym 0[ETX]
Write Variable Response:	[STX]sWA DCPCDepSym[ETX]

2.7.3.2. Variable: PostCodesOrientation

The following section contains a detailed description of the variable PostCodesOrientation.

Variable Overview

Variable Name	Description
PostCodesOrientation	List of orientations

Communication Name	DCPCOrint
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	231
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_OMNIDIRECTIONAL	
	1	TX_HORIZONTAL	
	2	TX_VERTICAL	
	3	TX_HOR_N_VERTICAL	

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCOrint`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCOrint	String	9	List of orientations

Read Variable Response:				
`sRA DCPCOrint <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCOrint	String	9	List of orientations
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCPCOrint <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCOrint	String	9	List of orientations
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCPCOrint`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCOrint	String	9	List of orientations

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCOrint[ETX]`
Read Variable Response:	`[STX]sRA DCPCOrint 0[ETX]`
Write Variable:	`[STX]sWN DCPCOrint 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCOrint[ETX]`

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2.7.3.3. Variable: PostCodeKixLengthMode

The following section contains a detailed description of the variable PostCodeKixLengthMode.

Variable Overview

Variable Name	Description
PostCodeKixLengthMode	Codelength mode of Kix code

Communication Name	DCPCPKixLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	232
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:				
`sRN DCPCPKixLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPKixLenMode	String	15	Codelength mode of Kix code

Read Variable Response:				
`sRA DCPCPKixLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPKixLenMode	String	15	Codelength mode of Kix code
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCPCPKixLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPKixLenMode	String	15	Codelength mode of Kix code
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCPCPKixLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCPCPKixLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCPCPKixLenMode	String	15	Codelength mode of Kix code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPKixLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCPKixLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCPKixLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCPKixLenMode[ETX]

2.7.3.4. Variable: PostCodeKixFixLenList

The following section contains a detailed description of the variable PostCodeKixFixLenList.

Variable Overview

Variable Name	Description
PostCodeKixFixLenList	List of fix code lengths

Communication Name	DCPCPKixFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	233
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPKixFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPKixFixLen	String	14	List of fix code lengths

Read Variable Response:				
`sRA DCPCPKixFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPKixFixLen	String	14	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCPKixFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPKixFixLen	String	14	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCPKixFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPKixFixLen	String	14	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPKixFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCPKixFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCPKixFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPKixFixLen[ETX]`

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2.7.3.5. Variable: PostCodeKixIntLenList

The following section contains a detailed description of the variable PostCodeKixIntLenList.

Variable Overview

Variable Name	Description
PostCodeKixIntLenList	List of interval code lengths

Communication Name	DCPCPKixIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	234
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	2
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPKixIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPKixIntLen	String	14	List of interval code lengths

Read Variable Response:

```
sRA DCPCPKixIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPKixIntLen	String	14	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCPKixIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPKixIntLen	String	14	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCPKixIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPKixIntLen	String	14	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPKixIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCPKixIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCPKixIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCPKixIntLen[ETX]

2.7.3.6. Variable: PostCodeRMRM4SCCActive

The following section contains a detailed description of the variable PostCodeRMRM4SCCActive.

Variable Overview

Variable Name	Description
PostCodeRMRM4SCCActive	Activates the Royal Mail RM4SCC code

Communication Name	DCPCPRMRM4SCCAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	235
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPRMRM4SCCAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMRM4SCCAct	String	16	Activates the Royal Mail RM4SCC code

Read Variable Response:				
`sRA DCPCPRMRM4SCCAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMRM4SCCAct	String	16	Activates the Royal Mail RM4SCC code
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPCPRMRM4SCCAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMRM4SCCAct	String	16	Activates the Royal Mail RM4SCC code
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPCPRMRM4SCCAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPRMRM4SCCAct	String	16	Activates the Royal Mail RM4SCC code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPRMRM4SCCAct[ETX]`
Read Variable Response:	`[STX]sRA DCPCPRMRM4SCCAct 0[ETX]`
Write Variable:	`[STX]sWN DCPCPRMRM4SCCAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPRMRM4SCCAct[ETX]`

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2.7.3.7. Variable: PostCodeRMRM4SCCLengthMode

The following section contains a detailed description of the variable PostCodeRMRM4SCCLengthMode.

Variable Overview

Variable Name	Description
PostCodeRMRM4SCCLengthMode	Codelength mode of Royal Mail RM4SCC code

Communication Name	DCPCPRMRM4SCCLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	236
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPRMRM4SCCLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMRM4SCCLenMode	String	20	Codelength mode of Royal Mail RM4SCC code

Read Variable Response:

```
sRA DCPCPRMRM4SCCLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMRM4SCCLenMode	String	20	Codelength mode of Royal Mail RM4SCC code
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCPCPRMRM4SCCLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMRM4SCCLenMode	String	20	Codelength mode of Royal Mail RM4SCC code
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCPCPRMRM4SCCLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCPCPRMRM4SCCLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCPCPRMRM4SCCLenMode	String	20	Codelength mode of Royal Mail RM4SCC code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPRMRM4SCCLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCPRMRM4SCCLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCPRMRM4SCCLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCPRMRM4SCCLenMode[ETX]

2.7.3.8. Variable: PostCodeRMRM4SCCFixLenList

The following section contains a detailed description of the variable PostCodeRMRM4SCCFixLenList.

Variable Overview

Variable Name	Description
PostCodeRMRM4SCCFixLenList	List of fix code lengths

Communication Name	DCPCPRMRM4SCCFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	237
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPRMRM4SCCFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMRM4SCCFixLen	String	19	List of fix code lengths

Read Variable Response:				
`sRA DCPCPRMRM4SCCFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMRM4SCCFixLen	String	19	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCPRMRM4SCCFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMRM4SCCFixLen	String	19	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCPRMRM4SCCFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPRMRM4SCCFixLen	String	19	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPRMRM4SCCFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCPRMRM4SCCFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCPRMRM4SCCFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPRMRM4SCCFixLen[ETX]`

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2.7.3.9. Variable: PostCodeRMRM4SCCIntLenList

The following section contains a detailed description of the variable PostCodeRMRM4SCCIntLenList.

Variable Overview

Variable Name	Description
PostCodeRMRM4SCCIntLenList	List of interval code lengths

Communication Name	DCPCPRMRM4SCCIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	238
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPRMRM4SCCIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMRM4SCCIntLen	String	19	List of interval code lengths

Read Variable Response:

```
sRA DCPCPRMRM4SCCIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMRM4SCCIntLen	String	19	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCPRMRM4SCCIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMRM4SCCIntLen	String	19	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCPRMRM4SCCIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPRMRM4SCCIntLen	String	19	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPRMRM4SCCIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCPRMRM4SCCIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCPRMRM4SCCIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCPRMRM4SCCIntLen[ETX]

2.7.3.10. Variable: PostCodeRMInfomailActive

The following section contains a detailed description of the variable PostCodeRMInfomailActive.

Variable Overview

Variable Name	Description
PostCodeRMInfomailActive	Activates the Royal Mail RM4SCC code

Communication Name	DCPCPRMInfmlAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	239
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPRMInfmlAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMInfmlAct	String	15	Activates the Royal Mail RM4SCC code

Read Variable Response:				
`sRA DCPCPRMInfmlAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMInfmlAct	String	15	Activates the Royal Mail RM4SCC code
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPCPRMInfmlAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMInfmlAct	String	15	Activates the Royal Mail RM4SCC code
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPCPRMInfmlAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPRMInfmlAct	String	15	Activates the Royal Mail RM4SCC code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPRMInfmlAct[ETX]`
Read Variable Response:	`[STX]sRA DCPCPRMInfmlAct 0[ETX]`
Write Variable:	`[STX]sWN DCPCPRMInfmlAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPRMInfmlAct[ETX]`

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2.7.3.11. Variable: PostCodeRMInfomailLengthMode

The following section contains a detailed description of the variable PostCodeRMInfomailLengthMode.

Variable Overview

Variable Name	Description
PostCodeRMInfomailLengthMode	Codelength mode of Royal Mail Infomail code

Communication Name	DCPCPRMInfmlLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	240
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPRMInfmlLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMInfmlLenMode	String	19	Codelength mode of Royal Mail Infomail code

Read Variable Response:

```
sRA DCPCPRMInfmlLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMInfmlLenMode	String	19	Codelength mode of Royal Mail Infomail code
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCPCPRMInfmlLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMInfmlLenMode	String	19	Codelength mode of Royal Mail Infomail code
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCPCPRMInfmlLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCPCPRMInfmlLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCPCPRMInfmlLenMode	String	19	Codelength mode of Royal Mail Infomail code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPRMInfmlLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCPRMInfmlLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCPRMInfmlLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCPRMInfmlLenMode[ETX]

2.7.3.12. Variable: PostCodeRMInfomailFixLenList

The following section contains a detailed description of the variable PostCodeRMInfomailFixLenList.

Variable Overview

Variable Name	Description
PostCodeRMInfomailFixLenList	List of fix code lengths

Communication Name	DCPCPRMInfmlFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	241
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPRMInfmlFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMInfmlFixLen	String	18	List of fix code lengths

Read Variable Response:				
`sRA DCPCPRMInfmlFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMInfmlFixLen	String	18	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCPRMInfmlFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMInfmlFixLen	String	18	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCPRMInfmlFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPRMInfmlFixLen	String	18	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPRMInfmlFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCPRMInfmlFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCPRMInfmlFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPRMInfmlFixLen[ETX]`

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2.7.3.13. Variable: PostCodeRMInfomailIntLenList

The following section contains a detailed description of the variable PostCodeRMInfomailIntLenList.

Variable Overview

Variable Name	Description
PostCodeRMInfomailIntLenList	List of interval code lengths

Communication Name	DCPCPRMInfmlIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	242
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	2
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPRMInfmlIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPRMInfmlIntLen	String	18	List of interval code lengths

Read Variable Response:

```
sRA DCPCPRMInfmlIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPRMInfmlIntLen	String	18	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCPRMInfmlIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPRMInfmlIntLen	String	18	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCPRMInfmlIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPRMInfmlIntLen	String	18	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPRMInfmlIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCPRMInfmlIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCPRMInfmlIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCPRMInfmlIntLen[ETX]

2.7.3.14. Variable: PostCodePostJapanLengthMode

The following section contains a detailed description of the variable PostCodePostJapanLengthMode.

Variable Overview

Variable Name	Description
PostCodePostJapanLengthMode	Codelength mode of Post Japan code

Communication Name	DCPCPJpnLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	243
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPJpnLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPJpnLenMode	String	15	Codelength mode of Post Japan code

Read Variable Response:				
`sRA DCPCPJpnLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPJpnLenMode	String	15	Codelength mode of Post Japan code
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCPCPJpnLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPJpnLenMode	String	15	Codelength mode of Post Japan code
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DCPCPJpnLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPJpnLenMode	String	15	Codelength mode of Post Japan code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPJpnLenMode[ETX]`
Read Variable Response:	`[STX]sRA DCPCPJpnLenMode 0[ETX]`
Write Variable:	`[STX]sWN DCPCPJpnLenMode 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPJpnLenMode[ETX]`

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2.7.3.15. Variable: PostCodePostJapanFixLenList

The following section contains a detailed description of the variable PostCodePostJapanFixLenList.

Variable Overview

Variable Name	Description
PostCodePostJapanFixLenList	List of fix code lengths

Communication Name	DCPCPJpnFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	244
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	5
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN DCPCPJpnFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPJpnFixLen	String	14	List of fix code lengths

Read Variable Response:				
`sRA DCPCPJpnFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPJpnFixLen	String	14	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCPJpnFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPJpnFixLen	String	14	List of fix code lengths
Variable Data	data	Array	20	

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Write Variable Response:				
sWA DCPCPJpnFixLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPJpnFixLen	String	14	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPJpnFixLen[ETX]
Read Variable Response:	[STX]sRA DCPCPJpnFixLen 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN DCPCPJpnFixLen 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCPJpnFixLen[ETX]

2.7.3.16. Variable: PostCodePostJapanIntLenList

The following section contains a detailed description of the variable PostCodePostJapanIntLenList.

Variable Overview

Variable Name	Description
PostCodePostJapanIntLenList	List of interval code lengths

Communication Name	DCPCPJpnIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	245
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPJpnIntLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPJpnIntLen	String	14	List of interval code lengths

Read Variable Response:				
`sRA DCPCPJpnIntLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPJpnIntLen	String	14	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:				
`sWN DCPCPJpnIntLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPJpnIntLen	String	14	List of interval code lengths
Variable Data	data	Array	8	

Write Variable Response:				
`sWA DCPCPJpnIntLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPJpnIntLen	String	14	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPJpnIntLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCPJpnIntLen 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCPJpnIntLen 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPJpnIntLen[ETX]`

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2.7.3.17. Variable: PostCodePostAustraliaLengthMode

The following section contains a detailed description of the variable PostCodePostAustraliaLengthMode.

Variable Overview

Variable Name	Description
PostCodePostAustraliaLengthMode	Codelength mode of Post Australia code

Communication Name	DCPCPAstrlLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	246
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPAstrlLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPAstrlLenMode	String	17	Codelength mode of Post Australia code

Read Variable Response:

```
sRA DCPCPAstrlLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPAstrlLenMode	String	17	Codelength mode of Post Australia code
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCPCPAstrlLenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPAstrlLenMode	String	17	Codelength mode of Post Australia code
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DCPCPAstrlLenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA DCPCPAstrlLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DCPCPAstrlLenMode	String	17	Codelength mode of Post Australia code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPAstrlLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCPAstrlLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCPAstrlLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCPAstrlLenMode[ETX]

2.7.3.18. Variable: PostCodePostAustraliaFixLenList

The following section contains a detailed description of the variable PostCodePostAustraliaFixLenList.

Variable Overview

Variable Name	Description
PostCodePostAustraliaFixLenList	List of fix code lengths

Communication Name	DCPCPAstrlFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	247
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPAstrlFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPAstrlFixLen	String	16	List of fix code lengths

Read Variable Response:				
`sRA DCPCPAstrlFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPAstrlFixLen	String	16	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCPAstrlFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPAstrlFixLen	String	16	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCPAstrlFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPAstrlFixLen	String	16	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPAstrlFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCPAstrlFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCPAstrlFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPAstrlFixLen[ETX]`

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2.7.3.19. Variable: PostCodePostAustraliaIntLenList

The following section contains a detailed description of the variable PostCodePostAustraliaIntLenList.

Variable Overview

Variable Name	Description
PostCodePostAustraliaIntLenList	List of interval code lengths

Communication Name	DCPCPAstrlIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	248
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	2
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCPAstrlIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPAstrlIntLen	String	16	List of interval code lengths

Read Variable Response:

```
sRA DCPCPAstrlIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPAstrlIntLen	String	16	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCPAstrlIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPAstrlIntLen	String	16	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCPAstrlIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPAstrlIntLen	String	16	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCPAstrlIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCPAstrlIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCPAstrlIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCPAstrlIntLen[ETX]

2.7.3.20. Variable: PostCodePostAustraliaAllowZeroFCC

The following section contains a detailed description of the variable PostCodePostAustraliaAllowZeroFCC.

Variable Overview

Variable Name	Description
PostCodePostAustraliaAllowZeroFCC	Activates the Post Australia Zero FCC option

Communication Name	DCPCPAstrlZrFCC
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	249
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCPAstrlZrFCC`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCPAstrlZrFCC	String	15	Activates the Post Australia Zero FCC option

Read Variable Response:				
`sRA DCPCPAstrlZrFCC <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCPAstrlZrFCC	String	15	Activates the Post Australia Zero FCC option
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPCPAstrlZrFCC <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCPAstrlZrFCC	String	15	Activates the Post Australia Zero FCC option
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPCPAstrlZrFCC`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCPAstrlZrFCC	String	15	Activates the Post Australia Zero FCC option

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCPAstrlZrFCC[ETX]`
Read Variable Response:	`[STX]sRA DCPCPAstrlZrFCC 0[ETX]`
Write Variable:	`[STX]sWN DCPCPAstrlZrFCC 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCPAstrlZrFCC[ETX]`

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2.7.3.21. Variable: PostCodeUSPPostNetActive

The following section contains a detailed description of the variable PostCodeUSPPostNetActive.

Variable Overview

Variable Name	Description
PostCodeUSPPostNetActive	Activates the United States Postal Postnet code

Communication Name	DCPCUSPPNAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	250
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPPNAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPNAct	String	12	Activates the United States Postal Postnet code

Read Variable Response:

```
sRA DCPCUSPPNAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPNAct	String	12	Activates the United States Postal Postnet code
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCPCUSPPNAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPNAct	String	12	Activates the United States Postal Postnet code
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCPCUSPPNAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPNAct	String	12	Activates the United States Postal Postnet code

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPPNAct[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPPNAct 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPPNAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPPNAct[ETX]`

2.7.3.22. Variable: PostCodeUSPPostNetLengthMode

The following section contains a detailed description of the variable PostCodeUSPPostNetLengthMode.

Variable Overview

Variable Name	Description
PostCodeUSPPostNetLengthMode	Codelength mode of United States Postal Postnet code

Communication Name	DCPCUSPPNLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	251
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPPNLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPNLenMode	String	16	Codelength mode of United States Postal Postnet code

Read Variable Response:				
`sRA DCPCUSPPNLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPNLenMode	String	16	Codelength mode of United States Postal Postnet code
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DCPCUSPPNLenMode <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPNLenMode	String	16	Codelength mode of United States Postal Postnet code
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCPCUSPPNLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPNLenMode	String	16	Codelength mode of United States Postal Postnet code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPPNLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCUSPPNLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCUSPPNLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPPNLenMode[ETX]

2.7.3.23. Variable: PostCodeUSPPostNetFixLenList

The following section contains a detailed description of the variable PostCodeUSPPostNetFixLenList.

Variable Overview

Variable Name	Description
PostCodeUSPPostNetFixLenList	List of fix code lengths

Communication Name	DCPCUSPPNFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	252
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPPNFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPNFixLen	String	15	List of fix code lengths

Read Variable Response:				
`sRA DCPCUSPPNFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPNFixLen	String	15	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCUSPPNFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPNFixLen	String	15	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCUSPPNFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPNFixLen	String	15	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPPNFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPPNFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPPNFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPPNFixLen[ETX]`

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2.7.3.24. Variable: PostCodeUSPPostNetIntLenList

The following section contains a detailed description of the variable PostCodeUSPPostNetIntLenList.

Variable Overview

Variable Name	Description
PostCodeUSPPostNetIntLenList	List of interval code lengths

Communication Name	DCPCUSPPNIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	253
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	2
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPPNIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPNIntLen	String	15	List of interval code lengths

Read Variable Response:

```
sRA DCPCUSPPNIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPNIntLen	String	15	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCUSPPNIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPNIntLen	String	15	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCUSPPNIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPNIntLen	String	15	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPPNIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCUSPPNIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCUSPPNIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPPNIntLen[ETX]

2.7.3.25. Variable: PostCodeUSPPostNetAllowBnBFields

The following section contains a detailed description of the variable PostCodeUSPPostNetAllowBnBFields.

Variable Overview

Variable Name	Description
PostCodeUSPPostNetAllowBnBFields	Activates the United States Postal Postnet B and B-Fields option

Communication Name	DCPCUSPPNBnBFld
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	254
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPPNBnBFld`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPNBnBFld	String	15	Activates the United States Postal Postnet B and B-Fields option

Read Variable Response:				
`sRA DCPCUSPPNBnBFld <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPNBnBFld	String	15	Activates the United States Postal Postnet B and B-Fields option
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPCUSPPNBnBFld <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPNBnBFld	String	15	Activates the United States Postal Postnet B and B-Fields option
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPCUSPPNBnBFld`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPNBnBFld	String	15	Activates the United States Postal Postnet B and B-Fields option

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPPNBnBFld[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPPNBnBFld 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPPNBnBFld 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPPNBnBFld[ETX]`

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2.7.3.26. Variable: PostCodeUSPPlanetActive

The following section contains a detailed description of the variable PostCodeUSPPlanetActive.

Variable Overview

Variable Name	Description
PostCodeUSPPlanetActive	Activates the United States Postal Planet code

Communication Name	DCPCUSPPLAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	255
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPPLAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPLAct	String	12	Activates the United States Postal Planet code

Read Variable Response:

```
sRA DCPCUSPPLAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPLAct	String	12	Activates the United States Postal Planet code
Variable Data	data	Bool	1	

Write Variable:

```
sWN DCPCUSPPLAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPLAct	String	12	Activates the United States Postal Planet code
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA DCPCUSPPLAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPLAct	String	12	Activates the United States Postal Planet code

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPPLAct[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPPLAct 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPPLAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPPLAct[ETX]`

2.7.3.27. Variable: PostCodeUSPPlanetLengthMode

The following section contains a detailed description of the variable PostCodeUSPPlanetLengthMode.

Variable Overview

Variable Name	Description
PostCodeUSPPlanetLengthMode	Codelength mode of United States Postal Planet code

Communication Name	DCPCUSPPLLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	256
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPPLLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPLLenMode	String	16	Codelength mode of United States Postal Planet code

Read Variable Response:				
`sRA DCPCUSPPLLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPLLenMode	String	16	Codelength mode of United States Postal Planet code
Variable Data	data	Enum8	1	

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Write Variable:				
sWN DCPCUSPPLLenMode <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPLLenMode	String	16	Codelength mode of United States Postal Planet code
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA DCPCUSPPLLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPLLenMode	String	16	Codelength mode of United States Postal Planet code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPPLLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCUSPPLLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCUSPPLLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPPLLenMode[ETX]

2.7.3.28. Variable: PostCodeUSPPlanetFixLenList

The following section contains a detailed description of the variable PostCodeUSPPlanetFixLenList.

Variable Overview

Variable Name	Description
PostCodeUSPPlanetFixLenList	List of fix code lengths

Communication Name	DCPCUSPPLFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	257
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPPLFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPLFixLen	String	15	List of fix code lengths

Read Variable Response:				
`sRA DCPCUSPPLFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPLFixLen	String	15	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCUSPPLFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPLFixLen	String	15	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCUSPPLFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPLFixLen	String	15	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPPLFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPPLFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPPLFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPPLFixLen[ETX]`

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2.7.3.29. Variable: PostCodeUSPPlanetIntLenList

The following section contains a detailed description of the variable PostCodeUSPPlanetIntLenList.

Variable Overview

Variable Name	Description
PostCodeUSPPlanetIntLenList	List of interval code lengths

Communication Name	DCPCUSPPLIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	258
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	2
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPPLIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPPLIntLen	String	15	List of interval code lengths

Read Variable Response:

```
sRA DCPCUSPPLIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPPLIntLen	String	15	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCUSPPLIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPPLIntLen	String	15	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCUSPPLIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPPLIntLen	String	15	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPPLIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCUSPPLIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCUSPPLIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPPLIntLen[ETX]

2.7.3.30. Variable: PostCodeUSPUPUActive

The following section contains a detailed description of the variable PostCodeUSPUPUActive.

Variable Overview

Variable Name	Description
PostCodeUSPUPUActive	Activates the United States Postal UPU code

Communication Name	DCPCUSPUPUAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	259
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPUPUAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUPUAct	String	13	Activates the United States Postal UPU code

Read Variable Response:				
`sRA DCPCUSPUPUAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUPUAct	String	13	Activates the United States Postal UPU code
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPCUSPUPUAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUPUAct	String	13	Activates the United States Postal UPU code
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPCUSPUPUAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUPUAct	String	13	Activates the United States Postal UPU code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPUPUAct[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPUPUAct 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPUPUAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPUPUAct[ETX]`

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2.7.3.31. Variable: PostCodeUSPUPULengthMode

The following section contains a detailed description of the variable PostCodeUSPUPULengthMode.

Variable Overview

Variable Name	Description
PostCodeUSPUPULengthMode	Codelength mode of United States Postal UPU code

Communication Name	DCPCUSPUPULenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	260
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPUPULenMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUPULenMode	String	17	Codelength mode of United States Postal UPU code

Read Variable Response:

```
sRA DCPCUSPUPULenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUPULenMode	String	17	Codelength mode of United States Postal UPU code
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DCPCUSPUPULenMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUPULenMode	String	17	Codelength mode of United States Postal UPU code
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DCPCUSPUPULenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUPULenMode	String	17	Codelength mode of United States Postal UPU code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPUPULenMode[ETX]
Read Variable Response:	[STX]sRA DCPCUSPUPULenMode 0[ETX]
Write Variable:	[STX]sWN DCPCUSPUPULenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPUPULenMode[ETX]

2.7.3.32. Variable: PostCodeUSPUPUFixLenList

The following section contains a detailed description of the variable PostCodeUSPUPUFixLenList.

Variable Overview

Variable Name	Description
PostCodeUSPUPUFixLenList	List of fix code lengths

Communication Name	DCPCUSPUPUFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	261
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPUPUFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUPUFixLen	String	16	List of fix code lengths

Read Variable Response:				
`sRA DCPCUSPUPUFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUPUFixLen	String	16	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCUSPUPUFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUPUFixLen	String	16	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCUSPUPUFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUPUFixLen	String	16	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPUPUFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPUPUFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPUPUFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPUPUFixLen[ETX]`

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2.7.3.33. Variable: PostCodeUSPUPUIntLenList

The following section contains a detailed description of the variable PostCodeUSPUPUIntLenList.

Variable Overview

Variable Name	Description
PostCodeUSPUPUIntLenList	List of interval code lengths

Communication Name	DCPCUSPUPUIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	262
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	2
UDInt	
Value Range	0..100
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPUPUIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUPUIntLen	String	16	List of interval code lengths

Read Variable Response:

```
sRA DCPCUSPUPUIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUPUIntLen	String	16	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCUSPUPUIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUPUIntLen	String	16	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCUSPUPUIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUPUIntLen	String	16	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPUPUIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCUSPUPUIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCUSPUPUIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPUPUIntLen[ETX]

2.7.3.34. Variable: PostCodeUSPUsps4StateActive

The following section contains a detailed description of the variable PostCodeUSPUsps4StateActive.

Variable Overview

Variable Name	Description
PostCodeUSPUsps4StateActive	Activates the United States Postal USPS 4-State code

Communication Name	DCPCUSPUsps4SAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	263
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPUsps4SAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUsps4SAct	String	16	Activates the United States Postal USPS 4-State code

Read Variable Response:				
`sRA DCPCUSPUsps4SAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUsps4SAct	String	16	Activates the United States Postal USPS 4-State code
Variable Data	data	Bool	1	

Write Variable:				
`sWN DCPCUSPUsps4SAct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUsps4SAct	String	16	Activates the United States Postal USPS 4-State code
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DCPCUSPUsps4SAct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUsps4SAct	String	16	Activates the United States Postal USPS 4-State code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPUsps4SAct[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPUsps4SAct 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPUsps4SAct 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPUsps4SAct[ETX]`

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2.7.3.35. Variable: PostCodeUSPUsps4StateLengthMode

The following section contains a detailed description of the variable PostCodeUSPUsps4StateLengthMode.

Variable Overview

Variable Name	Description
PostCodeUSPUsps4StateLengthMode	Codelength mode of United States Postal USPS 4-State code

Communication Name	DCPCUSPUsps4SLenMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	264
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Free	
	1	TX_Interval	
	2	TX_Fix	

Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPUsps4SLenMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUsps4SLenMode	String	20	Codelength mode of United States Postal USPS 4-State code

Read Variable Response:				
`sRA DCPCUSPUsps4SLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUsps4SLenMode	String	20	Codelength mode of United States Postal USPS 4-State code
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DCPCUSPUsps4SLenMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUsps4SLenMode	String	20	Codelength mode of United States Postal USPS 4-State code
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA DCPCUSPUsps4SLenMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUsps4SLenMode	String	20	Codelength mode of United States Postal USPS 4-State code

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPUsps4SLenMode[ETX]
Read Variable Response:	[STX]sRA DCPCUSPUsps4SLenMode 0[ETX]
Write Variable:	[STX]sWN DCPCUSPUsps4SLenMode 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPUsps4SLenMode[ETX]

2.7.3.36. Variable: PostCodeUSPUsps4StateFixLenList

The following section contains a detailed description of the variable PostCodeUSPUsps4StateFixLenList.

Variable Overview

Variable Name	Description
PostCodeUSPUsps4StateFixLenList	List of fix code lengths

Communication Name	DCPCUSPUsps4SFixLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	265
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		5
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DCPCUSPUsps4SFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUsps4SFixLen	String	19	List of fix code lengths

Read Variable Response:				
`sRA DCPCUSPUsps4SFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUsps4SFixLen	String	19	List of fix code lengths
Variable Data	data	Array	20	

Write Variable:				
`sWN DCPCUSPUsps4SFixLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUsps4SFixLen	String	19	List of fix code lengths
Variable Data	data	Array	20	

Write Variable Response:				
`sWA DCPCUSPUsps4SFixLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUsps4SFixLen	String	19	List of fix code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DCPCUSPUsps4SFixLen[ETX]`
Read Variable Response:	`[STX]sRA DCPCUSPUsps4SFixLen 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN DCPCUSPUsps4SFixLen 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA DCPCUSPUsps4SFixLen[ETX]`

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2.7.3.37. Variable: PostCodeUSPUsps4StateIntLenList

The following section contains a detailed description of the variable PostCodeUSPUsps4StateIntLenList.

Variable Overview

Variable Name	Description
PostCodeUSPUsps4StateIntLenList	List of interval code lengths

Communication Name	DCPCUSPUsps4SIntLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	266
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		2
	UDInt	
	Value Range	0..100
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DCPCUSPUsps4SIntLen
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DCPCUSPUsps4SIntLen	String	19	List of interval code lengths

Read Variable Response:

```
sRA DCPCUSPUsps4SIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DCPCUSPUsps4SIntLen	String	19	List of interval code lengths
Variable Data	data	Array	8	

Write Variable:

```
sWN DCPCUSPUsps4SIntLen <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DCPCUSPUsps4SIntLen	String	19	List of interval code lengths
Variable Data	data	Array	8	

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Write Variable Response:				
sWA DCPCUSPUsps4SIntLen				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DCPCUSPUsps4SIntLen	String	19	List of interval code lengths

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DCPCUSPUsps4SIntLen[ETX]
Read Variable Response:	[STX]sRA DCPCUSPUsps4SIntLen 0 0[ETX]
Write Variable:	[STX]sWN DCPCUSPUsps4SIntLen 0 0[ETX]
Write Variable Response:	[STX]sWA DCPCUSPUsps4SIntLen[ETX]

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2.8. Interface Block: GeneralCfgObjAdminBase

2.8.1. Group: TrackingBase

2.8.1.1. Variable: TrackingMode

The following section contains a detailed description of the variable TrackingMode.

Variable Overview

Variable Name	Description
TrackingMode	Operating mode of Tracking

Communication Name	TRTrMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	267
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_TR_ACTIVE	

Variable Telegram Syntax

Read Variable:				
`sRN TRTrMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRTrMode	String	8	Operating mode of Tracking

Read Variable Response:				
`sRA TRTrMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRTrMode	String	8	Operating mode of Tracking
Variable Data	data	Enum8	1	

Write Variable:				
`sWN TRTrMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRTrMode	String	8	Operating mode of Tracking
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA TRTrMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRTrMode	String	8	Operating mode of Tracking

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TRTrMode[ETX]
Read Variable Response:	[STX]sRA TRTrMode 0[ETX]
Write Variable:	[STX]sWN TRTrMode 0[ETX]
Write Variable Response:	[STX]sWA TRTrMode[ETX]

2.8.1.2. Variable: TrackingTimeOut

The following section contains a detailed description of the variable TrackingTimeOut.

Variable Overview

Variable Name	Description
TrackingTimeOut	Timeout for Tracking

Communication Name	TRTimeout
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	268
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..5000
Initialisation	50
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRTimeout`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRTimeout	String	9	Timeout for Tracking

Read Variable Response:				
`sRA TRTimeout <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRTimeout	String	9	Timeout for Tracking
Variable Data	data	UDInt	4	

Write Variable:				
`sWN TRTimeout <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRTimeout	String	9	Timeout for Tracking
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA TRTimeout`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRTimeout	String	9	Timeout for Tracking

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRTimeout[ETX]`
Read Variable Response:	`[STX]sRA TRTimeout 32[ETX]`
Write Variable:	`[STX]sWN TRTimeout 32[ETX]`
Write Variable Response:	`[STX]sWA TRTimeout[ETX]`

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2.8.1.3. Variable: ObjectReleasePoint

The following section contains a detailed description of the variable ObjectReleasePoint.

Variable Overview

Variable Name	Description
ObjectReleasePoint	Object Release Point

Communication Name	TRObjRel
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	269
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..50000
Initialisation	2000
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TRObjRel
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRObjRel	String	8	Object Release Point

Read Variable Response:

```
sRA TRObjRel <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRObjRel	String	8	Object Release Point
Variable Data	data	UDInt	4	

Write Variable:

```
sWN TRObjRel <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRObjRel	String	8	Object Release Point
Variable Data	data	UDInt	4	

Write Variable Response:

```
sWA TRObjRel
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRObjRel	String	8	Object Release Point

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRObjRel[ETX]`
Read Variable Response:	`[STX]sRA TRObjRel 7D0[ETX]`
Write Variable:	`[STX]sWN TRObjRel 7D0[ETX]`
Write Variable Response:	`[STX]sWA TRObjRel[ETX]`

2.8.1.4. Variable: UseReleaseDelayTime

The following section contains a detailed description of the variable UseReleaseDelayTime.

Variable Overview

Variable Name	Description
UseReleaseDelayTime	Use Release Delay Time for Tracking

Communication Name	TRUseReleaseDelayTime
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	270
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:				
`sRN TRUseReleaseDelayTime`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRUseReleaseDelayTime	String	21	Use Release Delay Time for Tracking

Read Variable Response:				
`sRA TRUseReleaseDelayTime <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRUseReleaseDelayTime	String	21	Use Release Delay Time for Tracking
Variable Data	data	Bool	1	

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Write Variable:				
`sWN TRUseReleaseDelayTime <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRUseReleaseDelayTime	String	21	Use Release Delay Time for Tracking
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA TRUseReleaseDelayTime`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRUseReleaseDelayTime	String	21	Use Release Delay Time for Tracking

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRUseReleaseDelayTime[ETX]`
Read Variable Response:	`[STX]sRA TRUseReleaseDelayTime 0[ETX]`
Write Variable:	`[STX]sWN TRUseReleaseDelayTime 0[ETX]`
Write Variable Response:	`[STX]sWA TRUseReleaseDelayTime[ETX]`

2.8.1.5. Variable: ReleaseDelayTime

The following section contains a detailed description of the variable ReleaseDelayTime.

Variable Overview

Variable Name	Description
ReleaseDelayTime	Post Release Time for Tracking

Communication Name	TRReleaseDelayTime
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	271
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..10000
Initialisation	0
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRReleaseDelayTime`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRReleaseDelayTime	String	18	Post Release Time for Tracking

Read Variable Response:				
`sRA TRReleaseDelayTime <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRReleaseDelayTime	String	18	Post Release Time for Tracking
Variable Data	data	UDInt	4	

Write Variable:				
`sWN TRReleaseDelayTime <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRReleaseDelayTime	String	18	Post Release Time for Tracking
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA TRReleaseDelayTime`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRReleaseDelayTime	String	18	Post Release Time for Tracking

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRReleaseDelayTime[ETX]`
Read Variable Response:	`[STX]sRA TRReleaseDelayTime 0[ETX]`
Write Variable:	`[STX]sWN TRReleaseDelayTime 0[ETX]`
Write Variable Response:	`[STX]sWA TRReleaseDelayTime[ETX]`

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2.8.1.6. Variable: LabelAssTol

The following section contains a detailed description of the variable LabelAssTol.

Variable Overview

Variable Name	Description
LabelAssTol	Label Assignment Tolerance

Communication Name	TRLabAssTol
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	272
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_LAB_ASS_AUTO	
	1	TX_LAB_ASS_FIX	

Variable Telegram Syntax

Read Variable:

```
sRN TRLabAssTol
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRLabAssTol	String	11	Label Assignment Tolerance

Read Variable Response:

```
sRA TRLabAssTol <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRLabAssTol	String	11	Label Assignment Tolerance
Variable Data	data	Enum8	1	

Write Variable:

```
sWN TRLabAssTol <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRLabAssTol	String	11	Label Assignment Tolerance
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA TRLabAssTol
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRLabAssTol	String	11	Label Assignment Tolerance

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRLabAssTol[ETX]`
Read Variable Response:	`[STX]sRA TRLabAssTol 0[ETX]`
Write Variable:	`[STX]sWN TRLabAssTol 0[ETX]`
Write Variable Response:	`[STX]sWA TRLabAssTol[ETX]`

2.8.1.7. Variable: LabelAssMax

The following section contains a detailed description of the variable LabelAssMax.

Variable Overview

Variable Name	Description
LabelAssMax	Max Label Assignment

Communication Name	TRLabAssMax
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	273
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	50..1000
Initialisation	200
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TRLabAssMax
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRLabAssMax	String	11	Max Label Assignment

Read Variable Response:

```
sRA TRLabAssMax <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRLabAssMax	String	11	Max Label Assignment
Variable Data	data	UDInt	4	

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Write Variable:				
`sWN TRLabAssMax <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRLabAssMax	String	11	Max Label Assignment
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA TRLabAssMax`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRLabAssMax	String	11	Max Label Assignment

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRLabAssMax[ETX]`
Read Variable Response:	`[STX]sRA TRLabAssMax C8[ETX]`
Write Variable:	`[STX]sWN TRLabAssMax C8[ETX]`
Write Variable Response:	`[STX]sWA TRLabAssMax[ETX]`

2.8.1.8. Variable: LabelAssFix

The following section contains a detailed description of the variable LabelAssFix.

Variable Overview

Variable Name	Description
LabelAssFix	Fix Label Assignment

Communication Name	TRLabAssFix
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	274
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-1000..1000
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRLabAssFix`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRLabAssFix	String	11	Fix Label Assignment

Read Variable Response:				
`sRA TRLabAssFix <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRLabAssFix	String	11	Fix Label Assignment
Variable Data	data	DInt	4	

Write Variable:				
`sWN TRLabAssFix <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRLabAssFix	String	11	Fix Label Assignment
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA TRLabAssFix`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRLabAssFix	String	11	Fix Label Assignment

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRLabAssFix[ETX]`
Read Variable Response:	`[STX]sRA TRLabAssFix 32[ETX]`
Write Variable:	`[STX]sWN TRLabAssFix +50[ETX]`
Write Variable Response:	`[STX]sWA TRLabAssFix[ETX]`

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2.8.1.9. Variable: AssignmentMode

The following section contains a detailed description of the variable AssignmentMode.

Variable Overview

Variable Name	Description
AssignmentMode	Mode for assignment

Communication Name	TRAssMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	275
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_INCREMENT_BASED	
	1	TX_3D_OBJECT_BASED	

Variable Telegram Syntax

Read Variable:				
`sRN TRAssMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRAssMode	String	9	Mode for assignment

Read Variable Response:				
`sRA TRAssMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRAssMode	String	9	Mode for assignment
Variable Data	data	Enum8	1	

Write Variable:				
`sWN TRAssMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRAssMode	String	9	Mode for assignment
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA TRAssMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRAssMode	String	9	Mode for assignment

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRAssMode[ETX]`
Read Variable Response:	`[STX]sRA TRAssMode 0[ETX]`
Write Variable:	`[STX]sWN TRAssMode 0[ETX]`
Write Variable Response:	`[STX]sWA TRAssMode[ETX]`

2.8.1.10. Variable: MinTolerance3D

The following section contains a detailed description of the variable MinTolerance3D.

Variable Overview

Variable Name	Description
MinTolerance3D	Min Tolerance for 3D Assignment

Communication Name	TRMinTol3D
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	276
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-1000..1000
Initialisation	30
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TRMinTol3D
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRMinTol3D	String	10	Min Tolerance for 3D Assignment

Read Variable Response:

```
sRA TRMinTol3D <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRMinTol3D	String	10	Min Tolerance for 3D Assignment
Variable Data	data	DInt	4	

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Write Variable:				
`sWN TRMinTol3D <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRMinTol3D	String	10	Min Tolerance for 3D Assignment
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA TRMinTol3D`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRMinTol3D	String	10	Min Tolerance for 3D Assignment

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRMinTol3D[ETX]`
Read Variable Response:	`[STX]sRA TRMinTol3D 1E[ETX]`
Write Variable:	`[STX]sWN TRMinTol3D +30[ETX]`
Write Variable Response:	`[STX]sWA TRMinTol3D[ETX]`

2.8.1.11. Variable: MaxTolerance3D

The following section contains a detailed description of the variable MaxTolerance3D.

Variable Overview

Variable Name	Description
MaxTolerance3D	Max Tolerance for 3D Assignment

Communication Name	TRMaxTol3D
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	277
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-1000..1000
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRMaxTol3D`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRMaxTol3D	String	10	Max Tolerance for 3D Assignment

Read Variable Response:				
`sRA TRMaxTol3D <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRMaxTol3D	String	10	Max Tolerance for 3D Assignment
Variable Data	data	DInt	4	

Write Variable:				
`sWN TRMaxTol3D <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRMaxTol3D	String	10	Max Tolerance for 3D Assignment
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA TRMaxTol3D`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRMaxTol3D	String	10	Max Tolerance for 3D Assignment

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRMaxTol3D[ETX]`
Read Variable Response:	`[STX]sRA TRMaxTol3D 32[ETX]`
Write Variable:	`[STX]sWN TRMaxTol3D +50[ETX]`
Write Variable Response:	`[STX]sWA TRMaxTol3D[ETX]`

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2.8.1.12. Variable: StartOfAssignment

The following section contains a detailed description of the variable StartOfAssignment.

Variable Overview

Variable Name	Description
StartOfAssignment	Start of Assignment for 3D Assignment

Communication Name	TRStartOfAss
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	278
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..50000
Initialisation	1000
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TRStartOfAss
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRStartOfAss	String	12	Start of Assignment for 3D Assignment

Read Variable Response:

```
sRA TRStartOfAss <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRStartOfAss	String	12	Start of Assignment for 3D Assignment
Variable Data	data	UDInt	4	

Write Variable:

```
sWN TRStartOfAss <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRStartOfAss	String	12	Start of Assignment for 3D Assignment
Variable Data	data	UDInt	4	

Write Variable Response:

```
sWA TRStartOfAss
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRStartOfAss	String	12	Start of Assignment for 3D Assignment

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRStartOfAss[ETX]`
Read Variable Response:	`[STX]sRA TRStartOfAss 3E8[ETX]`
Write Variable:	`[STX]sWN TRStartOfAss 3E8[ETX]`
Write Variable Response:	`[STX]sWA TRStartOfAss[ETX]`

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2.8.2. Group: OutputTimingBase

2.8.2.1. Variable: OutputTimingControl

The following section contains a detailed description of the variable OutputTimingControl.

Variable Overview

Variable Name	Description
OutputTimingControl	Switch wether output timing is time or track controlled

Communication Name	OTControl
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	279
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:

```
sRN OTControl
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTControl	String	9	Switch wether output timing is time or track controlled

Read Variable Response:

```
sRA OTControl <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTControl	String	9	Switch wether output timing is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:

```
sWN OTControl <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTControl	String	9	Switch wether output timing is time or track controlled
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA OTControl				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTControl	String	9	Switch wether output timing is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OTControl[ETX]
Read Variable Response:	[STX]sRA OTControl 0[ETX]
Write Variable:	[STX]sWN OTControl 0[ETX]
Write Variable Response:	[STX]sWA OTControl[ETX]

2.8.2.2. Variable: OPSendPointTracking

The following section contains a detailed description of the variable OPSendPointTracking.

Variable Overview

Variable Name	Description
OPSendPointTracking	Point of result output if Tracking active

Communication Name	OTSndPntTr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	280
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_OBJECT_RELATED	
	1	TX_END_OF_LABEL	

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Variable Telegram Syntax

Read Variable:				
`sRN OTSndPntTr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTSndPntTr	String	10	Point of result output if Tracking active

Read Variable Response:				
`sRA OTSndPntTr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTSndPntTr	String	10	Point of result output if Tracking active
Variable Data	data	Enum8	1	

Write Variable:				
`sWN OTSndPntTr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTSndPntTr	String	10	Point of result output if Tracking active
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA OTSndPntTr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTSndPntTr	String	10	Point of result output if Tracking active

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTSndPntTr[ETX]`
Read Variable Response:	`[STX]sRA OTSndPntTr 0[ETX]`
Write Variable:	`[STX]sWN OTSndPntTr 0[ETX]`
Write Variable Response:	`[STX]sWA OTSndPntTr[ETX]`

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2.8.2.3. Variable: OPSendPointNonTracking

The following section contains a detailed description of the variable OPSendPointNonTracking.

Variable Overview

Variable Name	Description
OPSendPointNonTracking	Point of result output if Tracking disabled

Communication Name	OTSndPntNoTr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	281
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_END_OF_TRIG	
	1	TX_AS_SOON_AS_POSSIBLE	
	2	TX_END_OF_LABEL	
	3	TX_NEW_LABEL_CONTENT	

Variable Telegram Syntax

Read Variable:

```
sRN OTSndPntNoTr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTSndPntNoTr	String	12	Point of result output if Tracking disabled

Read Variable Response:

```
sRA OTSndPntNoTr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTSndPntNoTr	String	12	Point of result output if Tracking disabled
Variable Data	data	Enum8	1	

Write Variable:

```
sWN OTSndPntNoTr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTSndPntNoTr	String	12	Point of result output if Tracking disabled
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA OTSndPntNoTr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTSndPntNoTr	String	12	Point of result output if Tracking disabled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OTSndPntNoTr[ETX]
Read Variable Response:	[STX]sRA OTSndPntNoTr 0[ETX]
Write Variable:	[STX]sWN OTSndPntNoTr 0[ETX]
Write Variable Response:	[STX]sWA OTSndPntNoTr[ETX]

2.8.2.4. Variable: OPCondASAPenum

The following section contains a detailed description of the variable OPCondASAPenum.

Variable Overview

Variable Name	Description
OPCondASAPenum	Condition enum for output if "As soon as possible" active

Communication Name	OTCondASAPenum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	282
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_GOOD_READ	

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Variable Telegram Syntax

Read Variable:				
`sRN OTCondASAPenum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTCondASAPenum	String	14	Condition enum for output if "As soon as possible" active

Read Variable Response:				
`sRA OTCondASAPenum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTCondASAPenum	String	14	Condition enum for output if "As soon as possible" active
Variable Data	data	Enum8	1	

Write Variable:				
`sWN OTCondASAPenum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTCondASAPenum	String	14	Condition enum for output if "As soon as possible" active
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA OTCondASAPenum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTCondASAPenum	String	14	Condition enum for output if "As soon as possible" active

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTCondASAPenum[ETX]`
Read Variable Response:	`[STX]sRA OTCondASAPenum 0[ETX]`
Write Variable:	`[STX]sWN OTCondASAPenum 0[ETX]`
Write Variable Response:	`[STX]sWA OTCondASAPenum[ETX]`

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2.8.2.5. Variable: OPCondASAPstruct

The following section contains a detailed description of the variable OPCondASAPstruct.

Variable Overview

Variable Name	Description
OPCondASAPstruct	Condition struct for output if "As soon as possible" active

Communication Name	OTCondASAPstruct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	283
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
SETEditExtendibleEnum	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN OTCondASAPstruct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTCondASAPstruct	String	16	Condition struct for output if "As soon as possible" active

Read Variable Response:

```
sRA OTCondASAPstruct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTCondASAPstruct	String	16	Condition struct for output if "As soon as possible" active
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable:

```
sWN OTCondASAPstruct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTCondASAPstruct	String	16	Condition struct for output if "As soon as possible" active
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable Response:

```
sWA OTCondASAPstruct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA OTCondASAPstruct				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	OTCondASAPstruct	String	16	Condition struct for output if "As soon as possible" active

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OTCondASAPstruct[ETX]
Read Variable Response:	[STX]sRA OTCondASAPstruct 0 0[ETX]
Write Variable:	[STX]sWN OTCondASAPstruct 0 +0 0[ETX]
Write Variable Response:	[STX]sWA OTCondASAPstruct[ETX]

2.8.2.6. Variable: OutputSendingPointReference

The following section contains a detailed description of the variable OutputSendingPointReference.

Variable Overview

Variable Name	Description
OutputSendingPointReference	Point of result output if object related

Communication Name	OTSndPntRef
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	284
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_REFERED_TO_TRAILING_EDGE	
	1	TX_REFERED_TO_LEADING_EDGE	

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Variable Telegram Syntax

Read Variable:				
`sRN OTSndPntRef`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTSndPntRef	String	11	Point of result output if object related

Read Variable Response:				
`sRA OTSndPntRef <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTSndPntRef	String	11	Point of result output if object related
Variable Data	data	Enum8	1	

Write Variable:				
`sWN OTSndPntRef <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTSndPntRef	String	11	Point of result output if object related
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA OTSndPntRef`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTSndPntRef	String	11	Point of result output if object related

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTSndPntRef[ETX]`
Read Variable Response:	`[STX]sRA OTSndPntRef 0[ETX]`
Write Variable:	`[STX]sWN OTSndPntRef 0[ETX]`
Write Variable Response:	`[STX]sWA OTSndPntRef[ETX]`

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2.8.2.7. Variable: OutputSendingPointDistance

The following section contains a detailed description of the variable OutputSendingPointDistance.

Variable Overview

Variable Name	Description
OutputSendingPointDistance	Distance of result output if object related

Communication Name	OTSndPntDst
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	285
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50000
Initialisation	2500
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OTSndPntDst
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTSndPntDst	String	11	Distance of result output if object related

Read Variable Response:

```
sRA OTSndPntDst <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTSndPntDst	String	11	Distance of result output if object related
Variable Data	data	UInt	2	

Write Variable:

```
sWN OTSndPntDst <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTSndPntDst	String	11	Distance of result output if object related
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA OTSndPntDst
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTSndPntDst	String	11	Distance of result output if object related

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTSndPntDst[ETX]`
Read Variable Response:	`[STX]sRA OTSndPntDst 9C4[ETX]`
Write Variable:	`[STX]sWN OTSndPntDst 9C4[ETX]`
Write Variable Response:	`[STX]sWA OTSndPntDst[ETX]`

2.8.2.8. Variable: OutputSendingPointTime

The following section contains a detailed description of the variable OutputSendingPointTime.

Variable Overview

Variable Name	Description
OutputSendingPointTime	Time of result output if object related

Communication Name	OTSndPntTime
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	286
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50000
Initialisation	2500
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OTSndPntTime
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTSndPntTime	String	12	Time of result output if object related

Read Variable Response:

```
sRA OTSndPntTime <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTSndPntTime	String	12	Time of result output if object related
Variable Data	data	UInt	2	

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Write Variable:				
sWN OTSndPntTime <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTSndPntTime	String	12	Time of result output if object related
Variable Data	data	UInt	2	

Write Variable Response:				
sWA OTSndPntTime				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTSndPntTime	String	12	Time of result output if object related

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OTSndPntTime[ETX]
Read Variable Response:	[STX]sRA OTSndPntTime 9C4[ETX]
Write Variable:	[STX]sWN OTSndPntTime 9C4[ETX]
Write Variable Response:	[STX]sWA OTSndPntTime[ETX]

2.8.2.9. Variable: OutputDelayTime

The following section contains a detailed description of the variable OutputDelayTime.

Variable Overview

Variable Name	Description
OutputDelayTime	Output delay if time controlled

Communication Name	OTDelayTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	287
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..5000
Initialisation	50
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OTDelayTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTDelayTm	String	9	Output delay if time controlled

Read Variable Response:				
`sRA OTDelayTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTDelayTm	String	9	Output delay if time controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN OTDelayTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTDelayTm	String	9	Output delay if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA OTDelayTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTDelayTm	String	9	Output delay if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTDelayTm[ETX]`
Read Variable Response:	`[STX]sRA OTDelayTm 32[ETX]`
Write Variable:	`[STX]sWN OTDelayTm 32[ETX]`
Write Variable Response:	`[STX]sWA OTDelayTm[ETX]`

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2.8.2.10. Variable: OutputDelayTrack

The following section contains a detailed description of the variable OutputDelayTrack.

Variable Overview

Variable Name	Description
OutputDelayTrack	Output delay if track controlled

Communication Name	OTDelayTk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	288
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..50000
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OTDelayTk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTDelayTk	String	9	Output delay if track controlled

Read Variable Response:

```
sRA OTDelayTk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTDelayTk	String	9	Output delay if track controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN OTDelayTk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTDelayTk	String	9	Output delay if track controlled
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA OTDelayTk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTDelayTk	String	9	Output delay if track controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTDelayTk[ETX]`
Read Variable Response:	`[STX]sRA OTDelayTk 32[ETX]`
Write Variable:	`[STX]sWN OTDelayTk 32[ETX]`
Write Variable Response:	`[STX]sWA OTDelayTk[ETX]`

2.8.2.11. Variable: TimeoutTime

The following section contains a detailed description of the variable TimeoutTime.

Variable Overview

Variable Name	Description
TimeoutTime	End of Label and asap timeout if time controlled

Communication Name	OTTimoTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	289
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50000
Initialisation	500
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OTTimoTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTTimoTm	String	8	End of Label and asap timeout if time controlled

Read Variable Response:

```
sRA OTTimoTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTTimoTm	String	8	End of Label and asap timeout if time controlled
Variable Data	data	UInt	2	

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Write Variable:				
`sWN OTTimoTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTTimoTm	String	8	End of Label and asap timeout if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA OTTimoTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTTimoTm	String	8	End of Label and asap timeout if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTTimoTm[ETX]`
Read Variable Response:	`[STX]sRA OTTimoTm 1F4[ETX]`
Write Variable:	`[STX]sWN OTTimoTm 1F4[ETX]`
Write Variable Response:	`[STX]sWA OTTimoTm[ETX]`

2.8.2.12. Variable: TimeoutTrack

The following section contains a detailed description of the variable TimeoutTrack.

Variable Overview

Variable Name	Description
TimeoutTrack	End of label and asap timeout if track controlled

Communication Name	OTTimoTk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	290
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50000
Initialisation	500
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OTTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTTimoTk	String	8	End of label and asap timeout if track controlled

Read Variable Response:				
`sRA OTTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTTimoTk	String	8	End of label and asap timeout if track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN OTTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTTimoTk	String	8	End of label and asap timeout if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA OTTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTTimoTk	String	8	End of label and asap timeout if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTTimoTk[ETX]`
Read Variable Response:	`[STX]sRA OTTimoTk 1F4[ETX]`
Write Variable:	`[STX]sWN OTTimoTk 1F4[ETX]`
Write Variable Response:	`[STX]sWA OTTimoTk[ETX]`

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2.8.2.13. Variable: OutputOutputMode

The following section contains a detailed description of the variable OutputOutputMode.

Variable Overview

Variable Name	Description
OutputOutputMode	Swithces output mode between single and multiple

Communication Name	OTOutMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	291
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_SINGLE	
	1	TX_MULTIPLE	

Variable Telegram Syntax

Read Variable:

```
sRN OTOutMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTOutMode	String	9	Swithces output mode between single and multiple

Read Variable Response:

```
sRA OTOutMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTOutMode	String	9	Swithces output mode between single and multiple
Variable Data	data	Enum8	1	

Write Variable:

```
sWN OTOutMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTOutMode	String	9	Swithces output mode between single and multiple
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA OTOutMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTOutMode	String	9	Swithces output mode between single and multiple

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTOutMode[ETX]`
Read Variable Response:	`[STX]sRA OTOutMode 0[ETX]`
Write Variable:	`[STX]sWN OTOutMode 0[ETX]`
Write Variable Response:	`[STX]sWA OTOutMode[ETX]`

2.8.2.14. Variable: ASAPLabelTimoutTime

The following section contains a detailed description of the variable ASAPLabelTimoutTime.

Variable Overview

Variable Name	Description
ASAPLabelTimoutTime	Timeout time for one label in ASAP mode

Communication Name	OTASAPLabTimoTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	292
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..60000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OTASAPLabTimoTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTASAPLabTimoTm	String	15	Timeout time for one label in ASAP mode

Read Variable Response:

```
sRA OTASAPLabTimoTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTASAPLabTimoTm	String	15	Timeout time for one label in ASAP mode
Variable Data	data	UDInt	4	

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Write Variable:				
sWN OTASAPLabTimoTm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTASAPLabTimoTm	String	15	Timeout time for one label in ASAP mode
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA OTASAPLabTimoTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTASAPLabTimoTm	String	15	Timeout time for one label in ASAP mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OTASAPLabTimoTm[ETX]
Read Variable Response:	[STX]sRA OTASAPLabTimoTm 64[ETX]
Write Variable:	[STX]sWN OTASAPLabTimoTm 64[ETX]
Write Variable Response:	[STX]sWA OTASAPLabTimoTm[ETX]

2.8.2.15. Variable: ASAPLabelTimoutTrack

The following section contains a detailed description of the variable ASAPLabelTimoutTrack.

Variable Overview

Variable Name	Description
ASAPLabelTimoutTrack	Timeout distance for one label in ASAP mode

Communication Name	TRASAPLabTimoTk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	293
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..50000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRASAPLabTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRASAPLabTimoTk	String	15	Timeout distance for one label in ASAP mode

Read Variable Response:				
`sRA TRASAPLabTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRASAPLabTimoTk	String	15	Timeout distance for one label in ASAP mode
Variable Data	data	UDInt	4	

Write Variable:				
`sWN TRASAPLabTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRASAPLabTimoTk	String	15	Timeout distance for one label in ASAP mode
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA TRASAPLabTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRASAPLabTimoTk	String	15	Timeout distance for one label in ASAP mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRASAPLabTimoTk[ETX]`
Read Variable Response:	`[STX]sRA TRASAPLabTimoTk 64[ETX]`
Write Variable:	`[STX]sWN TRASAPLabTimoTk 64[ETX]`
Write Variable Response:	`[STX]sWA TRASAPLabTimoTk[ETX]`

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2.8.2.16. Variable: ASAPConditionTimoutTime

The following section contains a detailed description of the variable ASAPConditionTimoutTime.

Variable Overview

Variable Name	Description
ASAPConditionTimoutTime	Timeout time for one condition in ASAP mode

Communication Name	OTASAPCondTimoTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	294
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..60000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OTASAPCondTimoTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTASAPCondTimoTm	String	16	Timeout time for one condition in ASAP mode

Read Variable Response:

```
sRA OTASAPCondTimoTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTASAPCondTimoTm	String	16	Timeout time for one condition in ASAP mode
Variable Data	data	UDInt	4	

Write Variable:

```
sWN OTASAPCondTimoTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTASAPCondTimoTm	String	16	Timeout time for one condition in ASAP mode
Variable Data	data	UDInt	4	

Write Variable Response:

```
sWA OTASAPCondTimoTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTASAPCondTimoTm	String	16	Timeout time for one condition in ASAP mode

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTASAPCondTimoTm[ETX]`
Read Variable Response:	`[STX]sRA OTASAPCondTimoTm 64[ETX]`
Write Variable:	`[STX]sWN OTASAPCondTimoTm 64[ETX]`
Write Variable Response:	`[STX]sWA OTASAPCondTimoTm[ETX]`

2.8.2.17. Variable: ASAPConditionTimoutTrack

The following section contains a detailed description of the variable ASAPConditionTimoutTrack.

Variable Overview

Variable Name	Description
ASAPConditionTimoutTrack	Timeout distance for one condition in ASAP mode

Communication Name	TRASAPCondTimoTk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	295
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..50000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN TRASAPCondTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRASAPCondTimoTk	String	16	Timeout distance for one condition in ASAP mode

Read Variable Response:				
`sRA TRASAPCondTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRASAPCondTimoTk	String	16	Timeout distance for one condition in ASAP mode
Variable Data	data	UDInt	4	

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Write Variable:				
sWN TRASAPCondTimoTk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRASAPCondTimoTk	String	16	Timeout distance for one condition in ASAP mode
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA TRASAPCondTimoTk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRASAPCondTimoTk	String	16	Timeout distance for one condition in ASAP mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TRASAPCondTimoTk[ETX]
Read Variable Response:	[STX]sRA TRASAPCondTimoTk 64[ETX]
Write Variable:	[STX]sWN TRASAPCondTimoTk 64[ETX]
Write Variable Response:	[STX]sWA TRASAPCondTimoTk[ETX]

2.8.2.18. Variable: CodeFilterDepth

The following section contains a detailed description of the variable CodeFilterDepth.

Variable Overview

Variable Name	Description
CodeFilterDepth	Depth of the label content filter

Communication Name	TRCdFltrDpt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	296
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..50
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRCdFltrDpt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRCdFltrDpt	String	11	Depth of the label content filter

Read Variable Response:				
`sRA TRCdFltrDpt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRCdFltrDpt	String	11	Depth of the label content filter
Variable Data	data	UDInt	4	

Write Variable:				
`sWN TRCdFltrDpt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRCdFltrDpt	String	11	Depth of the label content filter
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA TRCdFltrDpt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRCdFltrDpt	String	11	Depth of the label content filter

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRCdFltrDpt[ETX]`
Read Variable Response:	`[STX]sRA TRCdFltrDpt 1[ETX]`
Write Variable:	`[STX]sWN TRCdFltrDpt 1[ETX]`
Write Variable Response:	`[STX]sWA TRCdFltrDpt[ETX]`

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2.8.2.19. Variable: LabelTimoutTimeActive

The following section contains a detailed description of the variable LabelTimoutTimeActive.

Variable Overview

Variable Name	Description
LabelTimoutTimeActive	Aktivates the label timeout

Communication Name	OTLabTimoAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	297
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN OTLabTimoAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTLabTimoAct	String	12	Aktivates the label timeout

Read Variable Response:

```
sRA OTLabTimoAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTLabTimoAct	String	12	Aktivates the label timeout
Variable Data	data	Bool	1	

Write Variable:

```
sWN OTLabTimoAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTLabTimoAct	String	12	Aktivates the label timeout
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA OTLabTimoAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTLabTimoAct	String	12	Aktivates the label timeout

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTLabTimoAct[ETX]`
Read Variable Response:	`[STX]sRA OTLabTimoAct 0[ETX]`
Write Variable:	`[STX]sWN OTLabTimoAct 0[ETX]`
Write Variable Response:	`[STX]sWA OTLabTimoAct[ETX]`

2.8.2.20. Variable: LabelTimoutTime

The following section contains a detailed description of the variable LabelTimoutTime.

Variable Overview

Variable Name	Description
LabelTimoutTime	Timeout time for one label

Communication Name	OTLabTimoTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	298
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..60000
Initialisation	100
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN OTLabTimoTm`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OTLabTimoTm	String	11	Timeout time for one label

Read Variable Response:

`sRA OTLabTimoTm <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OTLabTimoTm	String	11	Timeout time for one label
Variable Data	data	UDInt	4	

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Write Variable:				
`sWN OTLabTimoTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OTLabTimoTm	String	11	Timeout time for one label
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA OTLabTimoTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OTLabTimoTm	String	11	Timeout time for one label

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OTLabTimoTm[ETX]`
Read Variable Response:	`[STX]sRA OTLabTimoTm 64[ETX]`
Write Variable:	`[STX]sWN OTLabTimoTm 64[ETX]`
Write Variable Response:	`[STX]sWA OTLabTimoTm[ETX]`

2.8.2.21. Variable: LabelTimoutTrack

The following section contains a detailed description of the variable LabelTimoutTrack.

Variable Overview

Variable Name	Description
LabelTimoutTrack	Timeout distance for one label

Communication Name	TRLabTimoTk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	299
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..50000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TRLabTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TRLabTimoTk	String	11	Timeout distance for one label

Read Variable Response:				
`sRA TRLabTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TRLabTimoTk	String	11	Timeout distance for one label
Variable Data	data	UDInt	4	

Write Variable:				
`sWN TRLabTimoTk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TRLabTimoTk	String	11	Timeout distance for one label
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA TRLabTimoTk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TRLabTimoTk	String	11	Timeout distance for one label

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TRLabTimoTk[ETX]`
Read Variable Response:	`[STX]sRA TRLabTimoTk 64[ETX]`
Write Variable:	`[STX]sWN TRLabTimoTk 64[ETX]`
Write Variable Response:	`[STX]sWA TRLabTimoTk[ETX]`

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2.8.3. Group: OutputFormattingBase

2.8.3.1. Variable: OFTemplateString1

The following section contains a detailed description of the variable OFTemplateString1.

Variable Overview

Variable Name	Description
OFTemplateString1	Temlate string defintion for output definition #1

Communication Name	OFtplstr1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	300
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..1024
Initialisation	\x02[iec _GoodReadCond][f][$BC][e][l]NoRead[e]\x03

Variable Telegram Syntax

Read Variable:

```
sRN OFtplstr1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstr1	String	9	Temlate string defintion for output definition #1

Read Variable Response:

```
sRA OFtplstr1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstr1	String	9	Temlate string defintion for output definition #1
Variable Data	data	FlexString	1024	

Write Variable:

```
sWN OFtplstr1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstr1	String	9	Temlate string defintion for output definition #1
Variable Data	data	FlexString	1024	

Write Variable Response:

```
sWA OFtplstr1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA OFtplstr1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	OFtplstr1	String	9	Temlate string defintion for output definition #1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OFtplstr1[ETX]
Read Variable Response:	[STX]sRA OFtplstr1 32 \x02[iec _GoodReadCond][f][$BC][e][l]NoRead[e]\x03[ETX]
Write Variable:	[STX]sWN OFtplstr1 +50 \x02[iec _GoodReadCond][f][$BC][e][l]NoRead[e]\x03[ETX]
Write Variable Response:	[STX]sWA OFtplstr1[ETX]

2.8.3.2. Variable: OFTemplateString2

The following section contains a detailed description of the variable OFTemplateString2.

Variable Overview

Variable Name	Description
OFTemplateString2	Template string defintion for output definition #2

Communication Name	OFtplstr2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	301
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..1024
Initialisation	\x02[iec _GoodReadCond][f][$BC][e][l]NoRead[e]\x03

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Variable Telegram Syntax

Read Variable:				
`sRN OFtplstr2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstr2	String	9	Template string defintion for output definition #2

Read Variable Response:				
`sRA OFtplstr2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstr2	String	9	Template string defintion for output definition #2
Variable Data	data	FlexString	1024	

Write Variable:				
`sWN OFtplstr2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstr2	String	9	Template string defintion for output definition #2
Variable Data	data	FlexString	1024	

Write Variable Response:				
`sWA OFtplstr2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFtplstr2	String	9	Template string defintion for output definition #2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFtplstr2[ETX]`
Read Variable Response:	`[STX]sRA OFtplstr2 32 \x02[iec _GoodReadCond][f][$BC][e][l]NoRead[e]\x03[ETX]`
Write Variable:	`[STX]sWN OFtplstr2 +50 \x02[iec _GoodReadCond][f][$BC][e][l]NoRead[e]\x03[ETX]`
Write Variable Response:	`[STX]sWA OFtplstr2[ETX]`

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2.8.3.3. Variable: HeartbeatString

The following section contains a detailed description of the variable HeartbeatString.

Variable Overview

Variable Name	Description
HeartbeatString	Heartbeat telegram string

Communication Name	OFHBString
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	302
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..256
Initialisation	\x02HeartBeat\x03

Variable Telegram Syntax

Read Variable:

```
sRN OFHBString
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFHBString	String	10	Heartbeat telegram string

Read Variable Response:

```
sRA OFHBString <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFHBString	String	10	Heartbeat telegram string
Variable Data	data	FlexString	256	

Write Variable:

```
sWN OFHBString <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFHBString	String	10	Heartbeat telegram string
Variable Data	data	FlexString	256	

Write Variable Response:

```
sWA OFHBString
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFHBString	String	10	Heartbeat telegram string

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFHBString[ETX]`
Read Variable Response:	`[STX]sRA OFHBString 11 \x02HeartBeat\x03[ETX]`
Write Variable:	`[STX]sWN OFHBString +17 \x02HeartBeat\x03[ETX]`
Write Variable Response:	`[STX]sWA OFHBString[ETX]`

2.8.3.4. Variable: OFEmbodimentMode

The following section contains a detailed description of the variable OFEmbodimentMode.

Variable Overview

Variable Name	Description
OFEmbodimentMode	Describes how short the output format should be

Communication Name	OFembmode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	303
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_SHORT	
	1	TX_NORMAL	
	2	TX_FULL	

Variable Telegram Syntax

Read Variable:				
`sRN OFembmode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFembmode	String	9	Describes how short the output format should be

Read Variable Response:				
`sRA OFembmode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFembmode	String	9	Describes how short the output format should be
Variable Data	data	Enum8	1	

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Write Variable:				
sWN OFembmode <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFembmode	String	9	Describes how short the output format should be
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA OFembmode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFembmode	String	9	Describes how short the output format should be

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OFembmode[ETX]
Read Variable Response:	[STX]sRA OFembmode 0[ETX]
Write Variable:	[STX]sWN OFembmode 0[ETX]
Write Variable Response:	[STX]sWA OFembmode[ETX]

2.8.3.5. Variable: OFTemplateString1Maximized

The following section contains a detailed description of the variable OFTemplateString1Maximized.

Variable Overview

Variable Name	Description
OFTemplateString1Maximized	Template String 1 always maximized displayed

Communication Name	OFtplstr1max
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	304
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN OFtplstr1max`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstr1max	String	12	Template String 1 always maximized displayed

Read Variable Response:				
`sRA OFtplstr1max <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstr1max	String	12	Template String 1 always maximized displayed
Variable Data	data	Bool	1	

Write Variable:				
`sWN OFtplstr1max <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstr1max	String	12	Template String 1 always maximized displayed
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA OFtplstr1max`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFtplstr1max	String	12	Template String 1 always maximized displayed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFtplstr1max[ETX]`
Read Variable Response:	`[STX]sRA OFtplstr1max 1[ETX]`
Write Variable:	`[STX]sWN OFtplstr1max 1[ETX]`
Write Variable Response:	`[STX]sWA OFtplstr1max[ETX]`

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2.8.3.6. Variable: OFTemplateString2Maximized

The following section contains a detailed description of the variable OFTemplateString2Maximized.

Variable Overview

Variable Name	Description
OFTemplateString2Maximized	Template String 2 always maximized displayed

Communication Name	OFtplstr2max
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	305
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN OFtplstr2max
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstr2max	String	12	Template String 2 always maximized displayed

Read Variable Response:

```
sRA OFtplstr2max <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstr2max	String	12	Template String 2 always maximized displayed
Variable Data	data	Bool	1	

Write Variable:

```
sWN OFtplstr2max <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstr2max	String	12	Template String 2 always maximized displayed
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA OFtplstr2max
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFtplstr2max	String	12	Template String 2 always maximized displayed

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFtplstr2max[ETX]`
Read Variable Response:	`[STX]sRA OFtplstr2max 1[ETX]`
Write Variable:	`[STX]sWN OFtplstr2max 1[ETX]`
Write Variable Response:	`[STX]sWA OFtplstr2max[ETX]`

2.8.3.7. Variable: OFTemplateStringFixString1

The following section contains a detailed description of the variable OFTemplateStringFixString1.

Variable Overview

Variable Name	Description
OFTemplateStringFixString1	Fix format string 1 editable by SOPAS ET

Communication Name	OFtplstrFix1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	306
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..62
Initialisation	

Variable Telegram Syntax

Read Variable:				
`sRN OFtplstrFix1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstrFix1	String	12	Fix format string 1 editable by SOPAS ET

Read Variable Response:				
`sRA OFtplstrFix1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstrFix1	String	12	Fix format string 1 editable by SOPAS ET
Variable Data	data	FlexString	62	

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Write Variable:				
sWN OFtplstrFix1 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstrFix1	String	12	Fix format string 1 editable by SOPAS ET
Variable Data	data	FlexString	62	

Write Variable Response:				
sWA OFtplstrFix1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFtplstrFix1	String	12	Fix format string 1 editable by SOPAS ET

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OFtplstrFix1[ETX]
Read Variable Response:	[STX]sRA OFtplstrFix1 0[ETX]
Write Variable:	[STX]sWN OFtplstrFix1 +0 0[ETX]
Write Variable Response:	[STX]sWA OFtplstrFix1[ETX]

2.8.3.8. Variable: OFTemplateStringFixString2

The following section contains a detailed description of the variable OFTemplateStringFixString2.

Variable Overview

Variable Name	Description
OFTemplateStringFixString2	Fix format string 2 editable by SOPAS ET

Communication Name	OFtplstrFix2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	307
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..62
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN OFtplstrFix2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstrFix2	String	12	Fix format string 2 editable by SOPAS ET

Read Variable Response:				
`sRA OFtplstrFix2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstrFix2	String	12	Fix format string 2 editable by SOPAS ET
Variable Data	data	FlexString	62	

Write Variable:				
`sWN OFtplstrFix2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstrFix2	String	12	Fix format string 2 editable by SOPAS ET
Variable Data	data	FlexString	62	

Write Variable Response:				
`sWA OFtplstrFix2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFtplstrFix2	String	12	Fix format string 2 editable by SOPAS ET

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFtplstrFix2[ETX]`
Read Variable Response:	`[STX]sRA OFtplstrFix2 0[ETX]`
Write Variable:	`[STX]sWN OFtplstrFix2 +0 0[ETX]`
Write Variable Response:	`[STX]sWA OFtplstrFix2[ETX]`

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2.8.3.9. Variable: OFTemplateStringFixString3

The following section contains a detailed description of the variable OFTemplateStringFixString3.

Variable Overview

Variable Name	Description
OFTemplateStringFixString3	Fix format string 3 editable by SOPAS ET

Communication Name	OFtplstrFix3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	308
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..62
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN OFtplstrFix3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFtplstrFix3	String	12	Fix format string 3 editable by SOPAS ET

Read Variable Response:

```
sRA OFtplstrFix3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFtplstrFix3	String	12	Fix format string 3 editable by SOPAS ET
Variable Data	data	FlexString	62	

Write Variable:

```
sWN OFtplstrFix3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFtplstrFix3	String	12	Fix format string 3 editable by SOPAS ET
Variable Data	data	FlexString	62	

Write Variable Response:

```
sWA OFtplstrFix3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFtplstrFix3	String	12	Fix format string 3 editable by SOPAS ET

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFtplstrFix3[ETX]`
Read Variable Response:	`[STX]sRA OFtplstrFix3 0[ETX]`
Write Variable:	`[STX]sWN OFtplstrFix3 +0 0[ETX]`
Write Variable Response:	`[STX]sWA OFtplstrFix3[ETX]`

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2.8.4. Group: SorterFilterBase

2.8.4.1. Variable: SFStructure1

The following section contains a detailed description of the variable SFStructure1.

Variable Overview

Variable Name	Description
SFStructure1	Describes the structure of the filter/sorter #1

Communication Name	SFstrct1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	311
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	0..128
Default Value	{3, {20, 21, 0}}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN SFstrct1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SFstrct1	String	8	Describes the structure of the filter/sorter #1

Read Variable Response:

```
sRA SFstrct1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SFstrct1	String	8	Describes the structure of the filter/sorter #1
Variable Data	data	Array	128	

Write Variable:

```
sWN SFstrct1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SFstrct1	String	8	Describes the structure of the filter/sorter #1
Variable Data	data	Array	128	

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Write Variable Response:				
sWA SFstrct1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SFstrct1	String	8	Describes the structure of the filter/sorter #1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SFstrct1[ETX]
Read Variable Response:	[STX]sRA SFstrct1 3 14 15 0[ETX]
Write Variable:	[STX]sWN SFstrct1 +3 14 15 0[ETX]
Write Variable Response:	[STX]sWA SFstrct1[ETX]

2.8.4.2. Variable: SFStructure2

The following section contains a detailed description of the variable SFStructure2.

Variable Overview

Variable Name	Description
SFStructure2	Describes the structure of the filter/sorter #2

Communication Name	SFstrct2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	312
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		0..128
Default Value		{3, {22, 23, 0}}
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN SFstrct2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SFstrct2	String	8	Describes the structure of the filter/sorter #2

Read Variable Response:				
`sRA SFstrct2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SFstrct2	String	8	Describes the structure of the filter/sorter #2
Variable Data	data	Array	128	

Write Variable:				
`sWN SFstrct2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SFstrct2	String	8	Describes the structure of the filter/sorter #2
Variable Data	data	Array	128	

Write Variable Response:				
`sWA SFstrct2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SFstrct2	String	8	Describes the structure of the filter/sorter #2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SFstrct2[ETX]`
Read Variable Response:	`[STX]sRA SFstrct2 3 16 17 0[ETX]`
Write Variable:	`[STX]sWN SFstrct2 +3 16 17 0[ETX]`
Write Variable Response:	`[STX]sWA SFstrct2[ETX]`

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2.8.4.3. Variable: SFParameter

The following section contains a detailed description of the variable SFParameter.

Variable Overview

Variable Name	Description
SFParameter	Parameters of the all filters and sorters

Communication Name	SFprms
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	313
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array				
Length			16	
Default Value			{{1, 0, {5, {0x56, 0x41, 0x4C, 0x3E, 0x30}}},{2, 1, {2, {0x43, 0x53}}},{1, 0, {5, {0x56, 0x41, 0x4C, 0x3E, 0x30}}},{2, 1, {2, {0x43, 0x53}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}},{0, 0, {0, {}}}	
	Struct			
	Type			
		Enum8		
		Default Value	0	
		Value	Name	Description
		0	TX_UNUSED	
		1	TX_FILTER	
		2	TX_SORTER	
	SortDir			
		Enum8		
		Default Value	0	
		Value	Name	Description
		0	TX_ASCENDING	
		1	TX_DESCENDING	
	Condition			
		FlexString		
		Length	0..16	
		Initialisation		

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Variable Telegram Syntax

Read Variable:				
`sRN SFprms`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SFprms	String	6	Parameters of the all filters and sorters

Read Variable Response:				
`sRA SFprms <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SFprms	String	6	Parameters of the all filters and sorters
Variable Data	data	Array	288	

Write Variable:				
`sWN SFprms <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SFprms	String	6	Parameters of the all filters and sorters
Variable Data	data	Array	288	

Write Variable Response:				
`sWA SFprms`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SFprms	String	6	Parameters of the all filters and sorters

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SFprms[ETX]`
Read Variable Response:	`[STX]sRA SFprms 1 0 5 VAL>0 2 1 2 CS 1 0 5 VAL>0 2 1 2 CS 0 0 0

2.8.5. Group: EvalConditions

2.8.5.1. Variable: EVMainGoodReadStruct

The following section contains a detailed description of the variable EVMainGoodReadStruct.

Variable Overview

Variable Name	Description
EVMainGoodReadStruct	Structure for defining good read condition

Communication Name	EVstrgoodr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	314
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
EnumValue			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_USE_MIN_MAX_CODE_LEN	
UseExtraValue			
	Bool		
	Value Range	False, True	
	Initialisation	False	
ExtraValue			
	FlexString		
	Length	0..18	
	Initialisation		

Variable Telegram Syntax

Read Variable:				
`sRN EVstrgoodr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVstrgoodr	String	10	Structure for defining good read condition

Read Variable Response:				
`sRA EVstrgoodr <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVstrgoodr	String	10	Structure for defining good read condition
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

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Write Variable:				
`sWN EVstrgoodr <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVstrgoodr	String	10	Structure for defining good read condition
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA EVstrgoodr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVstrgoodr	String	10	Structure for defining good read condition

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVstrgoodr[ETX]`
Read Variable Response:	`[STX]sRA EVstrgoodr 0 0 0[ETX]`
Write Variable:	`[STX]sWN EVstrgoodr 0 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA EVstrgoodr[ETX]`

2.8.5.2. Variable: EVMinNbrCodes

The following section contains a detailed description of the variable EVMinNbrCodes.

Variable Overview

Variable Name	Description
EVMinNbrCodes	Minimum number of codes which should be read

Communication Name	EVmincodes
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	315
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EVmincodes`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVmincodes	String	10	Minimum number of codes which should be read

Read Variable Response:				
`sRA EVmincodes <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVmincodes	String	10	Minimum number of codes which should be read
Variable Data	data	UInt	2	

Write Variable:				
`sWN EVmincodes <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVmincodes	String	10	Minimum number of codes which should be read
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EVmincodes`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVmincodes	String	10	Minimum number of codes which should be read

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVmincodes[ETX]`
Read Variable Response:	`[STX]sRA EVmincodes 1[ETX]`
Write Variable:	`[STX]sWN EVmincodes 1[ETX]`
Write Variable Response:	`[STX]sWA EVmincodes[ETX]`

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2.8.5.3. Variable: EVCheckMinNbr

The following section contains a detailed description of the variable EVCheckMinNbr.

Variable Overview

Variable Name	Description
EVCheckMinNbr	Check minimum number of codes which should be read

Communication Name	EVchkmin
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	316
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EVchkmin
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVchkmin	String	8	Check minimum number of codes which should be read

Read Variable Response:

```
sRA EVchkmin <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVchkmin	String	8	Check minimum number of codes which should be read
Variable Data	data	Bool	1	

Write Variable:

```
sWN EVchkmin <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVchkmin	String	8	Check minimum number of codes which should be read
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA EVchkmin
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EVchkmin				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EVchkmin	String	8	Check minimum number of codes which should be read

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EVchkmin[ETX]
Read Variable Response:	[STX]sRA EVchkmin 0[ETX]
Write Variable:	[STX]sWN EVchkmin 0[ETX]
Write Variable Response:	[STX]sWA EVchkmin[ETX]

2.8.5.4. Variable: EVMaxNbrCodes

The following section contains a detailed description of the variable EVMaxNbrCodes.

Variable Overview

Variable Name	Description
EVMaxNbrCodes	Maximum number of codes which should be read

Communication Name	EVmaxcodes
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	317
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EVmaxcodes`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVmaxcodes	String	10	Maximum number of codes which should be read

Read Variable Response:				
`sRA EVmaxcodes <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVmaxcodes	String	10	Maximum number of codes which should be read
Variable Data	data	UInt	2	

Write Variable:				
`sWN EVmaxcodes <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVmaxcodes	String	10	Maximum number of codes which should be read
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EVmaxcodes`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVmaxcodes	String	10	Maximum number of codes which should be read

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVmaxcodes[ETX]`
Read Variable Response:	`[STX]sRA EVmaxcodes 1[ETX]`
Write Variable:	`[STX]sWN EVmaxcodes 1[ETX]`
Write Variable Response:	`[STX]sWA EVmaxcodes[ETX]`

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2.8.5.5. Variable: EVCheckMaxNbr

The following section contains a detailed description of the variable EVCheckMaxNbr.

Variable Overview

Variable Name	Description
EVCheckMaxNbr	Check maximum number of codes which should be read

Communication Name	EVchkmax
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	318
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EVchkmax
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVchkmax	String	8	Check maximum number of codes which should be read

Read Variable Response:

```
sRA EVchkmax <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVchkmax	String	8	Check maximum number of codes which should be read
Variable Data	data	Bool	1	

Write Variable:

```
sWN EVchkmax <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVchkmax	String	8	Check maximum number of codes which should be read
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA EVchkmax
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EVchkmax				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EVchkmax	String	8	Check maximum number of codes which should be read

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EVchkmax[ETX]
Read Variable Response:	[STX]sRA EVchkmax 0[ETX]
Write Variable:	[STX]sWN EVchkmax 0[ETX]
Write Variable Response:	[STX]sWA EVchkmax[ETX]

2.8.5.6. Variable: EVCondtions

The following section contains a detailed description of the variable EVCondtions.

Variable Overview

Variable Name	Description
EVCondtions	Eval conditions

Communication Name	EVcond
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	319
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

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Array				
Length			0..48	
Default Value			{4,{{0, 0, 1, 0, {16, {0x7B, 0x42, 0x43, 0x7E, 0x31, 0x32, 0x33, 0x2E, 0x2A, 0x7D, 0x26, 0x56, 0x41, 0x4C, 0x3E, 0x30}}},{0, 1, 0, 0, {5, {0x56, 0x43, 0x43, 0x3E, 0x32}}},{2, 0, 1, 0, {12, {0x43, 0x4C, 0x3E, 0x3D, 0x34, 0x26, 0x43, 0x4C, 0x3C, 0x3D, 0x35, 0x30}}},{2, 0, 1, 0, {12, {0x43, 0x4C, 0x3E, 0x3D, 0x34, 0x26, 0x43, 0x4C, 0x3C, 0x3D, 0x35, 0x30}}}}}	
	Struct			
	Mode			
		Enum8		
		Default Value	0	
		Value	Name	Description
		0	TX_NORMAL	
		1	TX_ALWAYS_TRUE	
		2	TX_ALWAYS_FALSE	
	Type			
		Enum8		
		Default Value	0	
		Value	Name	Description
		0	TX_MATCH	
		1	TX_FREE	
		2	TX_COMBINATION	
	Relation			
		Enum8		
		Default Value	0	
		Value	Name	Description
		0	TX_OBJ_RELATED	
		1	TX_CODE_RELATED	
	DependencyLevel			
		USInt		
		Value Range	0..255	
		Initialisation	0	
		Physical Unit		
		Physical Unit Factor	0.0	
	Condition			
		FlexString		
		Length	0..94	
		Initialisation		

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Variable Telegram Syntax

Read Variable:				
`sRN EVcond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVcond	String	6	Eval conditions

Read Variable Response:				
`sRA EVcond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVcond	String	6	Eval conditions
Variable Data	data	Array	4704	

Write Variable:				
`sWN EVcond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVcond	String	6	Eval conditions
Variable Data	data	Array	4704	

Write Variable Response:				
`sWA EVcond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVcond	String	6	Eval conditions

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVcond[ETX]`
Read Variable Response:	`[STX]sRA EVcond 4 0 0 1 0 10 {BC~123.*}&VAL>0 0 1 0 0 5 VCC>2 2 0 1 0 C CL>=4&CL<=50 2 0 1 0 C CL>=4&CL<=50[ETX]`
Write Variable:	`[STX]sWN EVcond +4 0 0 1 0 +16 {BC~123.*}&VAL>0 0 1 0 0 +5 VCC>2 2 0 1 0 +12 CL>=4&CL<=50 2 0 1 0 +12 CL>=4&CL<=50[ETX]`
Write Variable Response:	`[STX]sWA EVcond[ETX]`

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2.8.5.7. Variable: EVCondtionNames

The following section contains a detailed description of the variable EVCondtionNames.

Variable Overview

Variable Name	Description
EVCondtionNames	Names of available conditions

Communication Name	EVcndnames
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	320
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		0..48
Default Value		{4, {{6, {0x4D, 0x61, 0x74, 0x63, 0x68, 0x31}}, {10, {0x4D, 0x75, 0x6C, 0x74, 0x43, 0x6F, 0x64, 0x65, 0x73, 0x31}},{8, {0x54, 0x65, 0x61, 0x63, 0x68, 0x49, 0x6E, 0x31}},{8, {0x54, 0x65, 0x61, 0x63, 0x68, 0x49, 0x6E, 0x32}}}}
	FlexString	
	Length	0..18
	Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN EVcndnames
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVcndnames	String	10	Names of available conditions

Read Variable Response:

```
sRA EVcndnames <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVcndnames	String	10	Names of available conditions
Variable Data	data	Array	864	

Write Variable:

```
sWN EVcndnames <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVcndnames	String	10	Names of available conditions
Variable Data	data	Array	864	

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Write Variable Response:				
sWA EVcndnames				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVcndnames	String	10	Names of available conditions

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVcndnames[ETX]`
Read Variable Response:	`[STX]sRA EVcndnames 4 6 Match1 A MultCodes1 8 TeachIn1 8 TeachIn2[ETX]`
Write Variable:	`[STX]sWN EVcndnames +4 +6 Match1 +10 MultCodes1 +8 TeachIn1 +8 TeachIn2[ETX]`
Write Variable Response:	`[STX]sWA EVcndnames[ETX]`

2.8.5.8. Variable: EVUserDefCondtionNames

The following section contains a detailed description of the variable EVUserDefCondtionNames.

Variable Overview

Variable Name	Description
EVUserDefCondtionNames	Names of available user defined conditions

Communication Name	EVuserdefcndnames
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	321
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	0..10
Default Value	{0,{}}
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN EVuserdefcndnames`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVuserdefcndnames	String	17	Names of available user defined conditions

Read Variable Response:				
`sRA EVuserdefcndnames <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVuserdefcndnames	String	17	Names of available user defined conditions
Variable Data	data	Array	180	

Write Variable:				
`sWN EVuserdefcndnames <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVuserdefcndnames	String	17	Names of available user defined conditions
Variable Data	data	Array	180	

Write Variable Response:				
`sWA EVuserdefcndnames`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVuserdefcndnames	String	17	Names of available user defined conditions

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVuserdefcndnames[ETX]`
Read Variable Response:	`[STX]sRA EVuserdefcndnames 0[ETX]`
Write Variable:	`[STX]sWN EVuserdefcndnames +0[ETX]`
Write Variable Response:	`[STX]sWA EVuserdefcndnames[ETX]`

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2.8.5.9. Variable: EVCondtionDiag

The following section contains a detailed description of the variable EVCondtionDiag.

Variable Overview

Variable Name	Description
EVCondtionDiag	Diagnosis strings buffer when conditon is wrong/missing

Communication Name	EVdiag
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	322
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array				
Length			0..10	
Default Value			{0,{}}	
	Struct			
	CauseKey			
		FlexString		
		Length	0..8	
		Initialisation		
	ConditionName			
		FlexString		
		Length	0..18	
		Initialisation		
	ErrorState			
		Enum8		
		Value	Name	Description
		0	UNKNOWN	
		1	CONDITION_NOT_EXISTS	
		2	CONDITION_OBJ_RELATED_INSTEAD_OF_CODE_RELATED	

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Variable Telegram Syntax

Read Variable:				
`sRN EVdiag`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EVdiag	String	6	Diagnosis strings buffer when conditon is wrong/missing

Read Variable Response:				
`sRA EVdiag <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EVdiag	String	6	Diagnosis strings buffer when conditon is wrong/missing
Variable Data	data	Array	270	

Write Variable:				
`sWN EVdiag <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EVdiag	String	6	Diagnosis strings buffer when conditon is wrong/missing
Variable Data	data	Array	270	

Write Variable Response:				
`sWA EVdiag`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EVdiag	String	6	Diagnosis strings buffer when conditon is wrong/missing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EVdiag[ETX]`
Read Variable Response:	`[STX]sRA EVdiag 0[ETX]`
Write Variable:	`[STX]sWN EVdiag +0[ETX]`
Write Variable Response:	`[STX]sWA EVdiag[ETX]`

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2.8.5.10. Method: EVSetMatchCode

The following section contains a detailed description of the method EVSetMatchCode.

Method Overview

Method Name	Description
EVSetMatchCode	Easy matchcode setter

Communication Name	mEVSetMatchCode
Sopas Index	62
Invocation Access	AuthorizedClient

Parameters		
Parameters		
	FlexString	
	Length	0..192
	Initialisation	

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mEVSetMatchCode <Parameters>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mEVSetMatchCode	String	15	Easy matchcode setter
Parameter 1	Parameters	FlexString	192	

Method Return Value:

```
sAN mEVSetMatchCode <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mEVSetMatchCode	String	15	Easy matchcode setter
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mEVSetMatchCode +0 0[ETX]`
Method Return Value:	`[STX]sAN mEVSetMatchCode 0[ETX]`

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2.8.6. Group: CodePosCompare

2.8.6.1. Variable: CPUseComparison

The following section contains a detailed description of the variable CPUseComparison.

Variable Overview

Variable Name	Description
CPUseComparison	Flag if CP compare is on (TRUE) or off (FALSE)

Communication Name	CPComp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	326
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN CPComp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CPComp	String	6	Flag if CP compare is on (TRUE) or off (FALSE)

Read Variable Response:

```
sRA CPComp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CPComp	String	6	Flag if CP compare is on (TRUE) or off (FALSE)
Variable Data	data	Bool	1	

Write Variable:

```
sWN CPComp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CPComp	String	6	Flag if CP compare is on (TRUE) or off (FALSE)
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA CPComp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA CPComp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CPComp	String	6	Flag if CP compare is on (TRUE) or off (FALSE)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CPComp[ETX]
Read Variable Response:	[STX]sRA CPComp 0[ETX]
Write Variable:	[STX]sWN CPComp 0[ETX]
Write Variable Response:	[STX]sWA CPComp[ETX]

2.8.6.2. Variable: CPCodeDistance

The following section contains a detailed description of the variable CPCodeDistance.

Variable Overview

Variable Name	Description
CPCodeDistance	Max. code distance

Communication Name	CPDist
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	327
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..5000
Initialisation	300
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN CPDist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CPDist	String	6	Max. code distance

Read Variable Response:				
`sRA CPDist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CPDist	String	6	Max. code distance
Variable Data	data	UInt	2	

Write Variable:				
`sWN CPDist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CPDist	String	6	Max. code distance
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA CPDist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CPDist	String	6	Max. code distance

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CPDist[ETX]`
Read Variable Response:	`[STX]sRA CPDist 12C[ETX]`
Write Variable:	`[STX]sWN CPDist 12C[ETX]`
Write Variable Response:	`[STX]sWA CPDist[ETX]`

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2.8.6.3. Variable: CPCompareDeviceID

The following section contains a detailed description of the variable CPCompareDeviceID.

Variable Overview

Variable Name	Description
CPCompareDeviceID	Flag if device ID shall also be compared

Communication Name	CPCompDID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	328
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN CPCompDID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CPCompDID	String	9	Flag if device ID shall also be compared

Read Variable Response:

```
sRA CPCompDID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CPCompDID	String	9	Flag if device ID shall also be compared
Variable Data	data	Bool	1	

Write Variable:

```
sWN CPCompDID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CPCompDID	String	9	Flag if device ID shall also be compared
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA CPCompDID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CPCompDID	String	9	Flag if device ID shall also be compared

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CPCompDID[ETX]`
Read Variable Response:	`[STX]sRA CPCompDID 0[ETX]`
Write Variable:	`[STX]sWN CPCompDID 0[ETX]`
Write Variable Response:	`[STX]sWA CPCompDID[ETX]`

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2.8.7. Group: ExternalDataInput

2.8.7.1. Variable: ExtDataStringDefault

The following section contains a detailed description of the variable ExtDataStringDefault.

Variable Overview

Variable Name	Description
ExtDataStringDefault	When no external data string was received during reading gate ExtDataStringDflt is inserted

Communication Name	ExtDatStrDflt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	329
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..50
Initialisation	-

Variable Telegram Syntax

Read Variable:

```
sRN ExtDatStrDflt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ExtDatStrDflt	String	13	When no external data string was received during reading gate ExtDataStringDflt is inserted

Read Variable Response:

```
sRA ExtDatStrDflt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ExtDatStrDflt	String	13	When no external data string was received during reading gate ExtDataStringDflt is inserted
Variable Data	data	FlexString	50	

Write Variable:

```
sWN ExtDatStrDflt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ExtDatStrDflt	String	13	When no external data string was received during reading gate ExtDataStringDflt is inserted
Variable Data	data	FlexString	50	

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Write Variable Response:				
sWA ExtDatStrDflt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ExtDatStrDflt	String	13	When no external data string was received during reading gate ExtDataStringDflt is inserted

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN ExtDatStrDflt[ETX]
Read Variable Response:	[STX]sRA ExtDatStrDflt 1 -[ETX]
Write Variable:	[STX]sWN ExtDatStrDflt +1 -[ETX]
Write Variable Response:	[STX]sWA ExtDatStrDflt[ETX]

2.8.7.2. Method: SetExternalDataString

The following section contains a detailed description of the method SetExternalDataString.

Method Overview

Method Name	Description
SetExternalDataString	Data string via serial interface will be put to DB tag (ExtDataStringDefault used for initializing at reading gate start)

Communication Name	mSetExtDataString
Sopas Index	63
Invocation Access	Always

Parameters	
ExtDataString	External data string content
FlexString	
Length	0..50
Initialisation	

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mSetExtDataString <ExtDataString>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSetExtDataString	String	17	Data string via serial interface will be put to DB tag (ExtDataStringDefault used for initializing at reading gate start)
Parameter 1	ExtDataString	FlexString	50	External data string content

Method Return Value:				
`sAN mSetExtDataString <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSetExtDataString	String	17	Data string via serial interface will be put to DB tag (ExtDataStringDefault used for initializing at reading gate start)
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSetExtDataString +0 0[ETX]`
Method Return Value:	`[STX]sAN mSetExtDataString 0[ETX]`

2.8.7.3. Method: SetExternalReadingData

The following section contains a detailed description of the method SetExternalReadingData.

Method Overview

Method Name	Description
SetExternalReadingData	Code data string via serial interface will be put to DB tag (uses CodeEmulator formatting -> see plone)

Communication Name	mSetExtReadData
Sopas Index	64
Invocation Access	Always

Parameters		
GateCtrl		ReadingGateControl
	USInt	
	Value Range	0..255
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

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Parameters	
CodeContent	Code content string
FlexString	
Length	0..50
Initialisation	

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mSetExtReadData <GateCtrl> <CodeContent>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSetExtReadData	String	15	Code data string via serial interface will be put to DB tag (uses CodeEmulator formatting -> see plone)
Parameter 1	GateCtrl	USInt	1	ReadingGateControl
Parameter 2	CodeContent	FlexString	50	Code content string

Method Return Value:

```
sAN mSetExtReadData <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSetExtReadData	String	15	Code data string via serial interface will be put to DB tag (uses CodeEmulator formatting -> see plone)
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mSetExtReadData 0 +0 0[ETX]`
Method Return Value:	`[STX]sAN mSetExtReadData 0[ETX]`

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2.9. Interface Block: GeneralCfgCAN1Base

2.9.1. Group: CAN1BusBase

2.9.1.1. Variable: CAN1Mode

The following section contains a detailed description of the variable CAN1Mode.

Variable Overview

Variable Name	Description
CAN1Mode	CAN mode (none, CANopen, OTC-Mode, ...)

Communication Name	CImode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	330
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_INACTIVE	
	1	TX_SICK_NETWORK	
	2	TX_CAN_OPEN	

Variable Telegram Syntax

Read Variable:

```
sRN CImode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CImode	String	6	CAN mode (none, CANopen, OTC-Mode, ...)

Read Variable Response:

```
sRA CImode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CImode	String	6	CAN mode (none, CANopen, OTC-Mode, ...)
Variable Data	data	Enum8	1	

Write Variable:

```
sWN CImode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CImode	String	6	CAN mode (none, CANopen, OTC-Mode, ...)
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA CImode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CImode	String	6	CAN mode (none, CANopen, OTC-Mode, ...)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CImode[ETX]
Read Variable Response:	[STX]sRA CImode 0[ETX]
Write Variable:	[STX]sWN CImode 0[ETX]
Write Variable Response:	[STX]sWA CImode[ETX]

2.9.1.2. Variable: CAN1Baudrate

The following section contains a detailed description of the variable CAN1Baudrate.

Variable Overview

Variable Name	Description
CAN1Baudrate	CAN baudrate (1000, 500, 250, ...)

Communication Name	CIbaud
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	332
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		3	
	Value	Name	Description
	0	TX_1000kB	
	1	TX_800kB	
	2	TX_500kB	
	3	TX_250kB	
	4	TX_125kB	
	5	TX_100kB	
	6	TX_50kB	
	7	TX_20kB	

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Variable Telegram Syntax

Read Variable:				
`sRN CIbaud`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CIbaud	String	6	CAN baudrate (1000, 500, 250, ...)

Read Variable Response:				
`sRA CIbaud <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CIbaud	String	6	CAN baudrate (1000, 500, 250, ...)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN CIbaud <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CIbaud	String	6	CAN baudrate (1000, 500, 250, ...)
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA CIbaud`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CIbaud	String	6	CAN baudrate (1000, 500, 250, ...)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CIbaud[ETX]`
Read Variable Response:	`[STX]sRA CIbaud 3[ETX]`
Write Variable:	`[STX]sWN CIbaud 3[ETX]`
Write Variable Response:	`[STX]sWA CIbaud[ETX]`

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2.9.1.3. Variable: CAN1Format

The following section contains a detailed description of the variable CAN1Format.

Variable Overview

Variable Name	Description
CAN1Format	Output format for CAN 1

Communication Name	CIHstFrm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	333
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OUTPUT_FORMAT_DEF_1	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_OUTPUT_FORMAT_DEF_1	
	2	TX_OUTPUT_FORMAT_DEF_2	

Variable Telegram Syntax

Read Variable:				
`sRN CIHstFrm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CIHstFrm	String	8	Output format for CAN 1

Read Variable Response:				
`sRA CIHstFrm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CIHstFrm	String	8	Output format for CAN 1
Variable Data	data	Enum8	1	

Write Variable:				
`sWN CIHstFrm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CIHstFrm	String	8	Output format for CAN 1
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA CIHstFrm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA CIHstFrm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CIHstFrm	String	8	Output format for CAN 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CIHstFrm[ETX]
Read Variable Response:	[STX]sRA CIHstFrm 1[ETX]
Write Variable:	[STX]sWN CIHstFrm 1[ETX]
Write Variable Response:	[STX]sWA CIHstFrm[ETX]

2.9.1.4. Variable: CAN1DigOutputPdoId

The following section contains a detailed description of the variable CAN1DigOutputPdoId.

Variable Overview

Variable Name	Description
CAN1DigOutputPdoId	COB-Id for the PDO which sends digital Outputs of the sensor

Communication Name	C1_DoID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	334
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x280
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_DoID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_DoID	String	7	COB-Id for the PDO which sends digital Outputs of the sensor

Read Variable Response:				
`sRA C1_DoID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_DoID	String	7	COB-Id for the PDO which sends digital Outputs of the sensor
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_DoID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_DoID	String	7	COB-Id for the PDO which sends digital Outputs of the sensor
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_DoID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_DoID	String	7	COB-Id for the PDO which sends digital Outputs of the sensor

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_DoID[ETX]`
Read Variable Response:	`[STX]sRA C1_DoID 280[ETX]`
Write Variable:	`[STX]sWN C1_DoID 280[ETX]`
Write Variable Response:	`[STX]sWA C1_DoID[ETX]`

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2.9.1.5. Variable: CAN1DigOutputPdoEna

The following section contains a detailed description of the variable CAN1DigOutputPdoEna.

Variable Overview

Variable Name	Description
CAN1DigOutputPdoEna	Enables sending of Digital output PDO

Communication Name	C1_DoEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	335
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN C1_DoEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_DoEna	String	8	Enables sending of Digital output PDO

Read Variable Response:

```
sRA C1_DoEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_DoEna	String	8	Enables sending of Digital output PDO
Variable Data	data	Bool	1	

Write Variable:

```
sWN C1_DoEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_DoEna	String	8	Enables sending of Digital output PDO
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA C1_DoEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_DoEna	String	8	Enables sending of Digital output PDO

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_DoEna[ETX]`
Read Variable Response:	`[STX]sRA C1_DoEna 0[ETX]`
Write Variable:	`[STX]sWN C1_DoEna 0[ETX]`
Write Variable Response:	`[STX]sWA C1_DoEna[ETX]`

2.9.1.6. Variable: CAN1DigInputPdoId

The following section contains a detailed description of the variable CAN1DigInputPdoId.

Variable Overview

Variable Name	Description
CAN1DigInputPdoId	COB-Id for the PDO which receives digital inputs to the sensor

Communication Name	C1_DiIID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	336
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x200
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN C1_DiIID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_DiIID	String	8	COB-Id for the PDO which receives digital inputs to the sensor

Read Variable Response:				
`sRA C1_DiIID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_DiIID	String	8	COB-Id for the PDO which receives digital inputs to the sensor
Variable Data	data	UInt	2	

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Write Variable:				
sWN C1_DiIID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_DiIID	String	8	COB-Id for the PDO which receives digital inputs to the sensor
Variable Data	data	UInt	2	

Write Variable Response:				
sWA C1_DiIID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_DiIID	String	8	COB-Id for the PDO which receives digital inputs to the sensor

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_DiIID[ETX]
Read Variable Response:	[STX]sRA C1_DiIID 200[ETX]
Write Variable:	[STX]sWN C1_DiIID 200[ETX]
Write Variable Response:	[STX]sWA C1_DiIID[ETX]

2.9.1.7. Variable: CAN1DigInputMask

The following section contains a detailed description of the variable CAN1DigInputMask.

Variable Overview

Variable Name	Description
CAN1DigInputMask	Mask for receiving digital input bits

Communication Name	C1_DiMsk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	337
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0xFFFF
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_DiMsk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_DiMsk	String	8	Mask for receiving digital input bits

Read Variable Response:				
`sRA C1_DiMsk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_DiMsk	String	8	Mask for receiving digital input bits
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_DiMsk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_DiMsk	String	8	Mask for receiving digital input bits
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_DiMsk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_DiMsk	String	8	Mask for receiving digital input bits

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_DiMsk[ETX]`
Read Variable Response:	`[STX]sRA C1_DiMsk FFFF[ETX]`
Write Variable:	`[STX]sWN C1_DiMsk FFFF[ETX]`
Write Variable Response:	`[STX]sWA C1_DiMsk[ETX]`

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2.9.1.8. Variable: CAN1HBEna

The following section contains a detailed description of the variable CAN1HBEna.

Variable Overview

Variable Name
CAN1HBEna

Communication Name	C1HBEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	338
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:				
`sRN C1HBEna`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1HBEna	String	7	

Read Variable Response:				
`sRA C1HBEna <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1HBEna	String	7	
Variable Data	data	Bool	1	

Write Variable:				
`sWN C1HBEna <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1HBEna	String	7	
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA C1HBEna`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1HBEna	String	7	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1HBEna[ETX]`
Read Variable Response:	`[STX]sRA C1HBEna 0[ETX]`
Write Variable:	`[STX]sWN C1HBEna 0[ETX]`
Write Variable Response:	`[STX]sWA C1HBEna[ETX]`

2.9.1.9. Variable: CAN1HBInterval

The following section contains a detailed description of the variable CAN1HBInterval.

Variable Overview

Variable Name
CAN1HBInterval

Communication Name	C1HBInt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	339
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..600
Initialisation	30
Physical Unit	s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1HBInt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1HBInt	String	7	

Read Variable Response:

```
sRA C1HBInt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1HBInt	String	7	
Variable Data	data	UInt	2	

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Write Variable:				
`sWN C1HBInt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1HBInt	String	7	
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1HBInt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1HBInt	String	7	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1HBInt[ETX]`
Read Variable Response:	`[STX]sRA C1HBInt 1E[ETX]`
Write Variable:	`[STX]sWN C1HBInt 1E[ETX]`
Write Variable Response:	`[STX]sWA C1HBInt[ETX]`

2.9.1.10. Variable: CAN1RetrHB

The following section contains a detailed description of the variable CAN1RetrHB.

Variable Overview

Variable Name	Description
CAN1RetrHB	Retrigger heartbeat on Hostinterface

Communication Name	C1RetrHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	340
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN C1RetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1RetrHB	String	8	Retrigger heartbeat on Hostinterface

Read Variable Response:				
`sRA C1RetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1RetrHB	String	8	Retrigger heartbeat on Hostinterface
Variable Data	data	Bool	1	

Write Variable:				
`sWN C1RetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1RetrHB	String	8	Retrigger heartbeat on Hostinterface
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA C1RetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1RetrHB	String	8	Retrigger heartbeat on Hostinterface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1RetrHB[ETX]`
Read Variable Response:	`[STX]sRA C1RetrHB 1[ETX]`
Write Variable:	`[STX]sWN C1RetrHB 1[ETX]`
Write Variable Response:	`[STX]sWA C1RetrHB[ETX]`

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2.9.1.11. Variable: CAN1UsrIOEna

The following section contains a detailed description of the variable CAN1UsrIOEna.

Variable Overview

Variable Name	Description
CAN1UsrIOEna	Enables receiving ans Sending PDO with user Io data which may be handled by speed skript

Communication Name	C1UIOEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	341
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN C1UIOEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1UIOEna	String	8	Enables receiving ans Sending PDO with user Io data which may be handled by speed skript

Read Variable Response:

```
sRA C1UIOEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1UIOEna	String	8	Enables receiving ans Sending PDO with user Io data which may be handled by speed skript
Variable Data	data	Bool	1	

Write Variable:

```
sWN C1UIOEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1UIOEna	String	8	Enables receiving ans Sending PDO with user Io data which may be handled by speed skript
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA C1UIOEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA C1UIOEna				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	C1UIOEna	String	8	Enables receiving ans Sending PDO with user Io data which may be handled by speed skript

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1UIOEna[ETX]
Read Variable Response:	[STX]sRA C1UIOEna 0[ETX]
Write Variable:	[STX]sWN C1UIOEna 0[ETX]
Write Variable Response:	[STX]sWA C1UIOEna[ETX]

2.9.1.12. Variable: CAN1UserInpPdoId

The following section contains a detailed description of the variable CAN1UserInpPdoId.

Variable Overview

Variable Name	Description
CAN1UserInpPdoId	COB-Id for the PDO which receives user digital inputs bits which may be handled by SPEED skript

Communication Name	C1UInpID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	342
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x481
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1UInpID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1UInpID	String	8	COB-Id for the PDO which receives user digital inputs bits which may be handled by SPEED skript

Read Variable Response:				
`sRA C1UInpID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1UInpID	String	8	COB-Id for the PDO which receives user digital inputs bits which may be handled by SPEED skript
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1UInpID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1UInpID	String	8	COB-Id for the PDO which receives user digital inputs bits which may be handled by SPEED skript
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1UInpID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1UInpID	String	8	COB-Id for the PDO which receives user digital inputs bits which may be handled by SPEED skript

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1UInpID[ETX]`
Read Variable Response:	`[STX]sRA C1UInpID 481[ETX]`
Write Variable:	`[STX]sWN C1UInpID 481[ETX]`
Write Variable Response:	`[STX]sWA C1UInpID[ETX]`

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2.9.1.13. Variable: CAN1UserInpByteNum

The following section contains a detailed description of the variable CAN1UserInpByteNum.

Variable Overview

Variable Name	Description
CAN1UserInpByteNum	Number of bytes mapped in CAN1UserInpPdo

Communication Name	C1UInpByNum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	343
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x01
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1UInpByNum
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1UInpByNum	String	11	Number of bytes mapped in CAN1UserInpPdo

Read Variable Response:

```
sRA C1UInpByNum <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1UInpByNum	String	11	Number of bytes mapped in CAN1UserInpPdo
Variable Data	data	UInt	2	

Write Variable:

```
sWN C1UInpByNum <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1UInpByNum	String	11	Number of bytes mapped in CAN1UserInpPdo
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA C1UInpByNum
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1UInpByNum	String	11	Number of bytes mapped in CAN1UserInpPdo

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1UInpByNum[ETX]`
Read Variable Response:	`[STX]sRA C1UInpByNum 1[ETX]`
Write Variable:	`[STX]sWN C1UInpByNum 1[ETX]`
Write Variable Response:	`[STX]sWA C1UInpByNum[ETX]`

2.9.1.14. Variable: CAN1UserOutpPdoId

The following section contains a detailed description of the variable CAN1UserOutpPdoId.

Variable Overview

Variable Name	Description
CAN1UserOutpPdoId	COB-Id for the PDO which transmits user digital output bits which may be handled by SPEED skript

Communication Name	C1UOutpID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	344
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x480
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN C1UOutpID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1UOutpID	String	9	COB-Id for the PDO which transmits user digital output bits which may be handled by SPEED skript

Read Variable Response:				
`sRA C1UOutpID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1UOutpID	String	9	COB-Id for the PDO which transmits user digital output bits which may be handled by SPEED skript
Variable Data	data	UInt	2	

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Write Variable:				
sWN C1UOutpID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1UOutpID	String	9	COB-Id for the PDO which transmits user digital output bits which may be handled by SPEED skript
Variable Data	data	UInt	2	

Write Variable Response:				
sWA C1UOutpID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1UOutpID	String	9	COB-Id for the PDO which transmits user digital output bits which may be handled by SPEED skript

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1UOutpID[ETX]
Read Variable Response:	[STX]sRA C1UOutpID 480[ETX]
Write Variable:	[STX]sWN C1UOutpID 480[ETX]
Write Variable Response:	[STX]sWA C1UOutpID[ETX]

2.9.1.15. Variable: CAN1UserOutpByteNum

The following section contains a detailed description of the variable CAN1UserOutpByteNum.

Variable Overview

Variable Name	Description
CAN1UserOutpByteNum	Number of bytes mapped in CAN1UserOutpPdo

Communication Name	C1UOutpByNum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	345
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x01
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1UOutpByNum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1UOutpByNum	String	12	Number of bytes mapped in CAN1UserOutpPdo

Read Variable Response:				
`sRA C1UOutpByNum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1UOutpByNum	String	12	Number of bytes mapped in CAN1UserOutpPdo
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1UOutpByNum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1UOutpByNum	String	12	Number of bytes mapped in CAN1UserOutpPdo
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1UOutpByNum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1UOutpByNum	String	12	Number of bytes mapped in CAN1UserOutpPdo

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1UOutpByNum[ETX]`
Read Variable Response:	`[STX]sRA C1UOutpByNum 1[ETX]`
Write Variable:	`[STX]sWN C1UOutpByNum 1[ETX]`
Write Variable Response:	`[STX]sWA C1UOutpByNum[ETX]`

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2.9.2. Group: CAN1BusCANopen

2.9.2.1. Variable: CAN1ProdHbTime

The following section contains a detailed description of the variable CAN1ProdHbTime.

Variable Overview

Variable Name	Description
CAN1ProdHbTime	Heartbeat time in ms. 0: no Heartbeating

Communication Name	C1_HbTime
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	346
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_HbTime
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_HbTime	String	9	Heartbeat time in ms. 0: no Heartbeating

Read Variable Response:

```
sRA C1_HbTime <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_HbTime	String	9	Heartbeat time in ms. 0: no Heartbeating
Variable Data	data	UInt	2	

Write Variable:

```
sWN C1_HbTime <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_HbTime	String	9	Heartbeat time in ms. 0: no Heartbeating
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA C1_HbTime				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_HbTime	String	9	Heartbeat time in ms. 0: no Heartbeating

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_HbTime[ETX]
Read Variable Response:	[STX]sRA C1_HbTime 0[ETX]
Write Variable:	[STX]sWN C1_HbTime 0[ETX]
Write Variable Response:	[STX]sWA C1_HbTime[ETX]

2.9.2.2. Variable: CAN1ReadResultEnable

The following section contains a detailed description of the variable CAN1ReadResultEnable.

Variable Overview

Variable Name	Description
CAN1ReadResultEnable	If true, device fills objects 0x2000 and ox2001 with read result data. It sends a 'data available PDO' to initiate SDO upload of read result data.

Communication Name	C1_ResEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	347
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN C1_ResEna`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_ResEna	String	9	If true, device fills objects 0x2000 and ox2001 with read result data. It sends a 'data available PDO' to initiate SDO upload of read result data.

Read Variable Response:				
`sRA C1_ResEna <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_ResEna	String	9	If true, device fills objects 0x2000 and ox2001 with read result data. It sends a 'data available PDO' to initiate SDO upload of read result data.
Variable Data	data	Bool	1	

Write Variable:				
`sWN C1_ResEna <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_ResEna	String	9	If true, device fills objects 0x2000 and ox2001 with read result data. It sends a 'data available PDO' to initiate SDO upload of read result data.
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA C1_ResEna`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_ResEna	String	9	If true, device fills objects 0x2000 and ox2001 with read result data. It sends a 'data available PDO' to initiate SDO upload of read result data.

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_ResEna[ETX]`
Read Variable Response:	`[STX]sRA C1_ResEna 1[ETX]`
Write Variable:	`[STX]sWN C1_ResEna 1[ETX]`
Write Variable Response:	`[STX]sWA C1_ResEna[ETX]`

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2.9.2.3. Variable: CAN1SendMode

The following section contains a detailed description of the variable CAN1SendMode.

Variable Overview

Variable Name	Description
CAN1SendMode	Mode to send read result (BySDO, ByPDO)

Communication Name	C1_SMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	348
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_BY_SDO	
	Value	Name	Description
	0	TX_BY_SDO	
	1	TX_BY_PDO	

Variable Telegram Syntax

Read Variable:				
`sRN C1_SMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_SMode	String	8	Mode to send read result (BySDO, ByPDO)

Read Variable Response:				
`sRA C1_SMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_SMode	String	8	Mode to send read result (BySDO, ByPDO)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN C1_SMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_SMode	String	8	Mode to send read result (BySDO, ByPDO)
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA C1_SMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_SMode	String	8	Mode to send read result (BySDO, ByPDO)

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_SMode[ETX]`
Read Variable Response:	`[STX]sRA C1_SMode 0[ETX]`
Write Variable:	`[STX]sWN C1_SMode 0[ETX]`
Write Variable Response:	`[STX]sWA C1_SMode[ETX]`

2.9.2.4. Variable: CAN1_ReadResultTimeout

The following section contains a detailed description of the variable CAN1_ReadResultTimeout.

Variable Overview

Variable Name	Description
CAN1_ReadResultTimeout	Timeout in ms for read result upload after Data available PDO was startet

Communication Name	C1_ResTmo
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	349
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	2000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_ResTmo
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_ResTmo	String	9	Timeout in ms for read result upload after Data available PDO was startet

Read Variable Response:

```
sRA C1_ResTmo <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_ResTmo	String	9	Timeout in ms for read result upload after Data available PDO was startet
Variable Data	data	UInt	2	

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Write Variable:				
sWN C1_ResTmo <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_ResTmo	String	9	Timeout in ms for read result upload after Data available PDO was startet
Variable Data	data	UInt	2	

Write Variable Response:				
sWA C1_ResTmo				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_ResTmo	String	9	Timeout in ms for read result upload after Data available PDO was startet

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_ResTmo[ETX]
Read Variable Response:	[STX]sRA C1_ResTmo 7D0[ETX]
Write Variable:	[STX]sWN C1_ResTmo 7D0[ETX]
Write Variable Response:	[STX]sWA C1_ResTmo[ETX]

2.9.2.5. Variable: CAN1AutoSdoRelease

The following section contains a detailed description of the variable CAN1AutoSdoRelease.

Variable Overview

Variable Name	Description
CAN1AutoSdoRelease	when to release read result data in SDO mode: user access (write 0 to 0x2000/3) or automatic after first SDO upload was finished

Communication Name	C1_SdoRel
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	350
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN C1_SdoRel`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_SdoRel	String	9	when to release read result data in SDO mode: user access (write 0 to 0x2000/3) or automatic after first SDO upload was finished

Read Variable Response:				
`sRA C1_SdoRel <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_SdoRel	String	9	when to release read result data in SDO mode: user access (write 0 to 0x2000/3) or automatic after first SDO upload was finished
Variable Data	data	Bool	1	

Write Variable:				
`sWN C1_SdoRel <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_SdoRel	String	9	when to release read result data in SDO mode: user access (write 0 to 0x2000/3) or automatic after first SDO upload was finished
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA C1_SdoRel`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_SdoRel	String	9	when to release read result data in SDO mode: user access (write 0 to 0x2000/3) or automatic after first SDO upload was finished

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_SdoRel[ETX]`
Read Variable Response:	`[STX]sRA C1_SdoRel 0[ETX]`
Write Variable:	`[STX]sWN C1_SdoRel 0[ETX]`
Write Variable Response:	`[STX]sWA C1_SdoRel[ETX]`

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2.9.2.6. Variable: CAN1PdoNum

The following section contains a detailed description of the variable CAN1PdoNum.

Variable Overview

Variable Name	Description
CAN1PdoNum	Number of PDOs to be sent if send mode is TX_BY_PDO. Each PDO has 7 bytes of read result

Communication Name	C1_PdoNum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	351
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	1..7
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_PdoNum
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_PdoNum	String	9	Number of PDOs to be sent if send mode is TX_BY_PDO. Each PDO has 7 bytes of read result

Read Variable Response:

```
sRA C1_PdoNum <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_PdoNum	String	9	Number of PDOs to be sent if send mode is TX_BY_PDO. Each PDO has 7 bytes of read result
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_PdoNum <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_PdoNum	String	9	Number of PDOs to be sent if send mode is TX_BY_PDO. Each PDO has 7 bytes of read result
Variable Data	data	USInt	1	

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Write Variable Response:				
sWA C1_PdoNum				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_PdoNum	String	9	Number of PDOs to be sent if send mode is TX_BY_PDO. Each PDO has 7 bytes of read result

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_PdoNum[ETX]
Read Variable Response:	[STX]sRA C1_PdoNum 1[ETX]
Write Variable:	[STX]sWN C1_PdoNum 1[ETX]
Write Variable Response:	[STX]sWA C1_PdoNum[ETX]

2.9.2.7. Variable: CAN1PdoID

The following section contains a detailed description of the variable CAN1PdoID.

Variable Overview

Variable Name	Description
CAN1PdoID	COB-id of the first PDO of the read result PDO set. The other PDOs have successive identifiers

Communication Name	C1_PdoId
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	352
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x480
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_PdoId`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_PdoId	String	8	COB-id of the first PDO of the read result PDO set. The other PDOs have successive identifiers

Read Variable Response:				
`sRA C1_PdoId <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_PdoId	String	8	COB-id of the first PDO of the read result PDO set. The other PDOs have successive identifiers
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_PdoId <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_PdoId	String	8	COB-id of the first PDO of the read result PDO set. The other PDOs have successive identifiers
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_PdoId`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_PdoId	String	8	COB-id of the first PDO of the read result PDO set. The other PDOs have successive identifiers

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_PdoId[ETX]`
Read Variable Response:	`[STX]sRA C1_PdoId 480[ETX]`
Write Variable:	`[STX]sWN C1_PdoId 480[ETX]`
Write Variable Response:	`[STX]sWA C1_PdoId[ETX]`

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2.9.2.8. Variable: CAN1PdoTrmType

The following section contains a detailed description of the variable CAN1PdoTrmType.

Variable Overview

Variable Name	Description
CAN1PdoTrmType	Transmission type for all read result TPDOs.

Communication Name	C1_PdoTT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	353
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_PdoTT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_PdoTT	String	8	Transmission type for all read result TPDOs.

Read Variable Response:

```
sRA C1_PdoTT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_PdoTT	String	8	Transmission type for all read result TPDOs.
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_PdoTT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_PdoTT	String	8	Transmission type for all read result TPDOs.
Variable Data	data	USInt	1	

Write Variable Response:

```
sWA C1_PdoTT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_PdoTT	String	8	Transmission type for all read result TPDOs.

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_PdoTT[ETX]`
Read Variable Response:	`[STX]sRA C1_PdoTT FE[ETX]`
Write Variable:	`[STX]sWN C1_PdoTT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_PdoTT[ETX]`

2.9.2.9. Variable: CAN1PdoInhibitTime

The following section contains a detailed description of the variable CAN1PdoInhibitTime.

Variable Overview

Variable Name	Description
CAN1PdoInhibitTime	Inhibit time for all read result TPDOs. Unit 100 us

Communication Name	C1_PdoIT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	354
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN C1_PdoIT`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_PdoIT	String	8	Inhibit time for all read result TPDOs. Unit 100 us

Read Variable Response:

`sRA C1_PdoIT <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_PdoIT	String	8	Inhibit time for all read result TPDOs. Unit 100 us
Variable Data	data	UInt	2	

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Write Variable:				
sWN C1_PdoIT <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_PdoIT	String	8	Inhibit time for all read result TPDOs. Unit 100 us
Variable Data	data	UInt	2	

Write Variable Response:				
sWA C1_PdoIT				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_PdoIT	String	8	Inhibit time for all read result TPDOs. Unit 100 us

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_PdoIT[ETX]
Read Variable Response:	[STX]sRA C1_PdoIT 0[ETX]
Write Variable:	[STX]sWN C1_PdoIT 0[ETX]
Write Variable Response:	[STX]sWA C1_PdoIT[ETX]

2.9.2.10. Variable: CAN1PdoEventTime

The following section contains a detailed description of the variable CAN1PdoEventTime.

Variable Overview

Variable Name	Description
CAN1PdoEventTime	Event time for all read result TPDOs. Unit 1 ms

Communication Name	C1_PdoET
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	355
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_PdoET`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_PdoET	String	8	Event time for all read result TPDOs. Unit 1 ms

Read Variable Response:				
`sRA C1_PdoET <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_PdoET	String	8	Event time for all read result TPDOs. Unit 1 ms
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_PdoET <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_PdoET	String	8	Event time for all read result TPDOs. Unit 1 ms
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_PdoET`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_PdoET	String	8	Event time for all read result TPDOs. Unit 1 ms

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_PdoET[ETX]`
Read Variable Response:	`[STX]sRA C1_PdoET 0[ETX]`
Write Variable:	`[STX]sWN C1_PdoET 0[ETX]`
Write Variable Response:	`[STX]sWA C1_PdoET[ETX]`

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2.9.2.11. Variable: CAN1DiagEnable

The following section contains a detailed description of the variable CAN1DiagEnable.

Variable Overview

Variable Name	Description
CAN1DiagEnable	If true, device fills object 0x2010 with diagnosis data string. It sends a 'data available PDO' to initiate SDO upload

Communication Name	C1_DiagEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	356
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN C1_DiagEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_DiagEna	String	10	If true, device fills object 0x2010 with diagnosis data string. It sends a 'data available PDO' to initiate SDO upload

Read Variable Response:

```
sRA C1_DiagEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_DiagEna	String	10	If true, device fills object 0x2010 with diagnosis data string. It sends a 'data available PDO' to initiate SDO upload
Variable Data	data	Bool	1	

Write Variable:

```
sWN C1_DiagEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_DiagEna	String	10	If true, device fills object 0x2010 with diagnosis data string. It sends a 'data available PDO' to initiate SDO upload
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA C1_DiagEna				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_DiagEna	String	10	If true, device fills object 0x2010 with diagnosis data string. It sends a 'data available PDO' to initiate SDO upload

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_DiagEna[ETX]
Read Variable Response:	[STX]sRA C1_DiagEna 0[ETX]
Write Variable:	[STX]sWN C1_DiagEna 0[ETX]
Write Variable Response:	[STX]sWA C1_DiagEna[ETX]

2.9.2.12. Variable: CAN1_DiagDataTimeout

The following section contains a detailed description of the variable CAN1_DiagDataTimeout.

Variable Overview

Variable Name	Description
CAN1_DiagDataTimeout	Timeout in ms for read result upload after Data available PDO was startet

Communication Name	C1_DiagTmo
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	357
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	2000
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_DiagTmo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_DiagTmo	String	10	Timeout in ms for read result upload after Data available PDO was startet

Read Variable Response:				
`sRA C1_DiagTmo <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_DiagTmo	String	10	Timeout in ms for read result upload after Data available PDO was startet
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_DiagTmo <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_DiagTmo	String	10	Timeout in ms for read result upload after Data available PDO was startet
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_DiagTmo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_DiagTmo	String	10	Timeout in ms for read result upload after Data available PDO was startet

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_DiagTmo[ETX]`
Read Variable Response:	`[STX]sRA C1_DiagTmo 7D0[ETX]`
Write Variable:	`[STX]sWN C1_DiagTmo 7D0[ETX]`
Write Variable Response:	`[STX]sWA C1_DiagTmo[ETX]`

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2.9.2.13. Variable: CAN1CmdRespEnable

The following section contains a detailed description of the variable CAN1CmdRespEnable.

Variable Overview

Variable Name	Description
CAN1CmdRespEnable	If true, device fills object 0x2020 with command response data string after a command was received via object 0x2200. It sends a 'data available PDO' to initiate SDO upload

Communication Name	C1_CmdRespEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	358
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN C1_CmdRespEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_CmdRespEna	String	13	If true, device fills object 0x2020 with command response data string after a command was received via object 0x2200. It sends a 'data available PDO' to initiate SDO upload

Read Variable Response:

```
sRA C1_CmdRespEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_CmdRespEna	String	13	If true, device fills object 0x2020 with command response data string after a command was received via object 0x2200. It sends a 'data available PDO' to initiate SDO upload
Variable Data	data	Bool	1	

Write Variable:

```
sWN C1_CmdRespEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_CmdRespEna	String	13	If true, device fills object 0x2020 with command response data string after a command was received via object 0x2200. It sends a 'data available PDO' to initiate SDO upload
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA C1_CmdRespEna				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_CmdRespEna	String	13	If true, device fills object 0x2020 with command response data string after a command was received via object 0x2200. It sends a 'data available PDO' to initiate SDO upload

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_CmdRespEna[ETX]
Read Variable Response:	[STX]sRA C1_CmdRespEna 1[ETX]
Write Variable:	[STX]sWN C1_CmdRespEna 1[ETX]
Write Variable Response:	[STX]sWA C1_CmdRespEna[ETX]

2.9.2.14. Variable: CAN1_CmdResponseTimeout

The following section contains a detailed description of the variable CAN1_CmdResponseTimeout.

Variable Overview

Variable Name	Description
CAN1_CmdResponseTimeout	Timeout in ms for command response (0x2020) upload after Data available PDO was startet

Communication Name	C1_CmdRespTmo
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	359
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	2000
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_CmdRespTmo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_CmdRespTmo	String	13	Timeout in ms for command response (0x2020) upload after Data available PDO was startet

Read Variable Response:				
`sRA C1_CmdRespTmo <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_CmdRespTmo	String	13	Timeout in ms for command response (0x2020) upload after Data available PDO was startet
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_CmdRespTmo <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_CmdRespTmo	String	13	Timeout in ms for command response (0x2020) upload after Data available PDO was startet
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_CmdRespTmo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_CmdRespTmo	String	13	Timeout in ms for command response (0x2020) upload after Data available PDO was startet

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_CmdRespTmo[ETX]`
Read Variable Response:	`[STX]sRA C1_CmdRespTmo 7D0[ETX]`
Write Variable:	`[STX]sWN C1_CmdRespTmo 7D0[ETX]`
Write Variable Response:	`[STX]sWA C1_CmdRespTmo[ETX]`

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2.9.2.15. Variable: CAN1EmcyID

The following section contains a detailed description of the variable CAN1EmcyID.

Variable Overview

Variable Name	Description
CAN1EmcyID	COB-id of the Emercency object: Default value = 0: used defoult ID = 0x80 + Node ID

Communication Name	C1_EmcyId
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	360
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..0
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN C1_EmcyId`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_EmcyId	String	9	COB-id of the Emercency object: Default value = 0: used defoult ID = 0x80 + Node ID

Read Variable Response:				
`sRA C1_EmcyId <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_EmcyId	String	9	COB-id of the Emercency object: Default value = 0: used defoult ID = 0x80 + Node ID
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_EmcyId <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_EmcyId	String	9	COB-id of the Emercency object: Default value = 0: used defoult ID = 0x80 + Node ID
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA C1_EmcyId				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_EmcyId	String	9	COB-id of the Emercency object: Default value = 0: used defoult ID = 0x80 + Node ID

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_EmcyId[ETX]
Read Variable Response:	[STX]sRA C1_EmcyId 0[ETX]
Write Variable:	[STX]sWN C1_EmcyId 0[ETX]
Write Variable Response:	[STX]sWA C1_EmcyId[ETX]

2.9.2.16. Variable: CAN1EmcyInhibitTime

The following section contains a detailed description of the variable CAN1EmcyInhibitTime.

Variable Overview

Variable Name	Description
CAN1EmcyInhibitTime	Inhibit time for all read result TPDOs. Unit 100 us

Communication Name	C1_EmcyIT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	361
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_EmcyIT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_EmcyIT	String	9	Inhibit time for all read result TPDOs. Unit 100 us

Read Variable Response:				
`sRA C1_EmcyIT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_EmcyIT	String	9	Inhibit time for all read result TPDOs. Unit 100 us
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_EmcyIT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_EmcyIT	String	9	Inhibit time for all read result TPDOs. Unit 100 us
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_EmcyIT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_EmcyIT	String	9	Inhibit time for all read result TPDOs. Unit 100 us

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_EmcyIT[ETX]`
Read Variable Response:	`[STX]sRA C1_EmcyIT 0[ETX]`
Write Variable:	`[STX]sWN C1_EmcyIT 0[ETX]`
Write Variable Response:	`[STX]sWA C1_EmcyIT[ETX]`

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2.9.3. Group: CAN1BusTPDO

2.9.3.1. Variable: C1_TPDO1_MapNum

The following section contains a detailed description of the variable C1_TPDO1_MapNum.

Variable Overview

Variable Name	Description
C1_TPDO1_MapNum	Number of mapping entries for TPDO1

Communication Name	C1_TP1_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	362
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP1_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_MN	String	9	Number of mapping entries for TPDO1

Read Variable Response:

```
sRA C1_TP1_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_MN	String	9	Number of mapping entries for TPDO1
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_TP1_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_MN	String	9	Number of mapping entries for TPDO1
Variable Data	data	USInt	1	

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Write Variable Response:				
sWA C1_TP1_MN				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_MN	String	9	Number of mapping entries for TPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP1_MN[ETX]
Read Variable Response:	[STX]sRA C1_TP1_MN 0[ETX]
Write Variable:	[STX]sWN C1_TP1_MN 0[ETX]
Write Variable Response:	[STX]sWA C1_TP1_MN[ETX]

2.9.3.2. Variable: C1_TPDO1_MapObjs

The following section contains a detailed description of the variable C1_TPDO1_MapObjs.

Variable Overview

Variable Name	Description
C1_TPDO1_MapObjs	array[8] of mapping objects for TPDO1

Communication Name	C1_TP1_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	363
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UDInt	
	Value Range	0..4294967295
	Initialisation	0x00000000
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP1_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_MOBJ	String	11	array[8] of mapping objects for TPDO1

Read Variable Response:				
`sRA C1_TP1_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_MOBJ	String	11	array[8] of mapping objects for TPDO1
Variable Data	data	Array	32	

Write Variable:				
`sWN C1_TP1_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_MOBJ	String	11	array[8] of mapping objects for TPDO1
Variable Data	data	Array	32	

Write Variable Response:				
`sWA C1_TP1_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_MOBJ	String	11	array[8] of mapping objects for TPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP1_MOBJ[ETX]`
Read Variable Response:	`[STX]sRA C1_TP1_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN C1_TP1_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP1_MOBJ[ETX]`

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2.9.3.3. Variable: C1_TPDO1_PreConnSet

The following section contains a detailed description of the variable C1_TPDO1_PreConnSet.

Variable Overview

Variable Name	Description
C1_TPDO1_PreConnSet	Define use of predefined connection set

Communication Name	C1_TP1_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	364
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP1_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_PCS	String	10	Define use of predefined connection set

Read Variable Response:

```
sRA C1_TP1_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:

```
sWN C1_TP1_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:

```
sWA C1_TP1_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_PCS	String	10	Define use of predefined connection set

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP1_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_TP1_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_TP1_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_TP1_PCS[ETX]`

2.9.3.4. Variable: C1_TPDO1_CobId

The following section contains a detailed description of the variable C1_TPDO1_CobId.

Variable Overview

Variable Name	Description
C1_TPDO1_CobId	Can identifier for TPDO1

Communication Name	C1_TP1_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	365
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP1_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_ID	String	9	Can identifier for TPDO1

Read Variable Response:

```
sRA C1_TP1_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_ID	String	9	Can identifier for TPDO1
Variable Data	data	UDInt	4	

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Write Variable:				
sWN C1_TP1_ID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_ID	String	9	Can identifier for TPDO1
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA C1_TP1_ID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_ID	String	9	Can identifier for TPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP1_ID[ETX]
Read Variable Response:	[STX]sRA C1_TP1_ID 80000000[ETX]
Write Variable:	[STX]sWN C1_TP1_ID 80000000[ETX]
Write Variable Response:	[STX]sWA C1_TP1_ID[ETX]

2.9.3.5. Variable: C1_TPDO1_TrmType

The following section contains a detailed description of the variable C1_TPDO1_TrmType.

Variable Overview

Variable Name	Description
C1_TPDO1_TrmType	Transmission type for TPDO1

Communication Name	C1_TP1_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	366
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP1_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_TT	String	9	Transmission type for TPDO1

Read Variable Response:				
`sRA C1_TP1_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_TT	String	9	Transmission type for TPDO1
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_TP1_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_TT	String	9	Transmission type for TPDO1
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_TP1_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_TT	String	9	Transmission type for TPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP1_TT[ETX]`
Read Variable Response:	`[STX]sRA C1_TP1_TT FE[ETX]`
Write Variable:	`[STX]sWN C1_TP1_TT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_TP1_TT[ETX]`

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2.9.3.6. Variable: C1_TPDO1_InhibtTime

The following section contains a detailed description of the variable C1_TPDO1_InhibtTime.

Variable Overview

Variable Name	Description
C1_TPDO1_InhibtTime	Inhibt time for TPDO1

Communication Name	C1_TP1_IT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	367
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP1_IT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_IT	String	9	Inhibt time for TPDO1

Read Variable Response:

```
sRA C1_TP1_IT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_IT	String	9	Inhibt time for TPDO1
Variable Data	data	UInt	2	

Write Variable:

```
sWN C1_TP1_IT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_IT	String	9	Inhibt time for TPDO1
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA C1_TP1_IT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_IT	String	9	Inhibt time for TPDO1

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP1_IT[ETX]`
Read Variable Response:	`[STX]sRA C1_TP1_IT 0[ETX]`
Write Variable:	`[STX]sWN C1_TP1_IT 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP1_IT[ETX]`

2.9.3.7. Variable: C1_TPDO1_EventTime

The following section contains a detailed description of the variable C1_TPDO1_EventTime.

Variable Overview

Variable Name	Description
C1_TPDO1_EventTime	Event time for TPDO1

Communication Name	C1_TP1_ET
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	368
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN C1_TP1_ET`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP1_ET	String	9	Event time for TPDO1

Read Variable Response:

`sRA C1_TP1_ET <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP1_ET	String	9	Event time for TPDO1
Variable Data	data	UInt	2	

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Write Variable:				
sWN C1_TP1_ET <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP1_ET	String	9	Event time for TPDO1
Variable Data	data	UInt	2	

Write Variable Response:				
sWA C1_TP1_ET				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP1_ET	String	9	Event time for TPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP1_ET[ETX]
Read Variable Response:	[STX]sRA C1_TP1_ET 0[ETX]
Write Variable:	[STX]sWN C1_TP1_ET 0[ETX]
Write Variable Response:	[STX]sWA C1_TP1_ET[ETX]

2.9.3.8. Variable: C1_TPDO2_MapNum

The following section contains a detailed description of the variable C1_TPDO2_MapNum.

Variable Overview

Variable Name	Description
C1_TPDO2_MapNum	Number of mapping entries for TPDO2

Communication Name	C1_TP2_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	369
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP2_MN`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_MN	String	9	Number of mapping entries for TPDO2

Read Variable Response:				
`sRA C1_TP2_MN <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_MN	String	9	Number of mapping entries for TPDO2
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_TP2_MN <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_MN	String	9	Number of mapping entries for TPDO2
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_TP2_MN`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_MN	String	9	Number of mapping entries for TPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP2_MN[ETX]`
Read Variable Response:	`[STX]sRA C1_TP2_MN 0[ETX]`
Write Variable:	`[STX]sWN C1_TP2_MN 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP2_MN[ETX]`

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2.9.3.9. Variable: C1_TPDO2_MapObjs

The following section contains a detailed description of the variable C1_TPDO2_MapObjs.

Variable Overview

Variable Name	Description
C1_TPDO2_MapObjs	array[8] of mapping objects for TPDO2

Communication Name	C1_TP2_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	370
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	8
UDInt	
Value Range	0..4294967295
Initialisation	0x00000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP2_MOBJ
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_MOBJ	String	11	array[8] of mapping objects for TPDO2

Read Variable Response:

```
sRA C1_TP2_MOBJ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_MOBJ	String	11	array[8] of mapping objects for TPDO2
Variable Data	data	Array	32	

Write Variable:

```
sWN C1_TP2_MOBJ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_MOBJ	String	11	array[8] of mapping objects for TPDO2
Variable Data	data	Array	32	

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Write Variable Response:				
sWA C1_TP2_MOBJ				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_MOBJ	String	11	array[8] of mapping objects for TPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP2_MOBJ[ETX]
Read Variable Response:	[STX]sRA C1_TP2_MOBJ 0 0 0 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN C1_TP2_MOBJ 0 0 0 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA C1_TP2_MOBJ[ETX]

2.9.3.10. Variable: C1_TPDO2_PreConnSet

The following section contains a detailed description of the variable C1_TPDO2_PreConnSet.

Variable Overview

Variable Name	Description
C1_TPDO2_PreConnSet	Define use of predefined connection set

Communication Name	C1_TP2_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	371
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP2_PCS`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_PCS	String	10	Define use of predefined connection set

Read Variable Response:				
`sRA C1_TP2_PCS <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:				
`sWN C1_TP2_PCS <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:				
`sWA C1_TP2_PCS`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_PCS	String	10	Define use of predefined connection set

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP2_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_TP2_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_TP2_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_TP2_PCS[ETX]`

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2.9.3.11. Variable: C1_TPDO2_CobId

The following section contains a detailed description of the variable C1_TPDO2_CobId.

Variable Overview

Variable Name	Description
C1_TPDO2_CobId	Can identifier for TPDO2

Communication Name	C1_TP2_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	372
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP2_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_ID	String	9	Can identifier for TPDO2

Read Variable Response:

```
sRA C1_TP2_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_ID	String	9	Can identifier for TPDO2
Variable Data	data	UDInt	4	

Write Variable:

```
sWN C1_TP2_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_ID	String	9	Can identifier for TPDO2
Variable Data	data	UDInt	4	

Write Variable Response:

```
sWA C1_TP2_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_ID	String	9	Can identifier for TPDO2

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP2_ID[ETX]`
Read Variable Response:	`[STX]sRA C1_TP2_ID 80000000[ETX]`
Write Variable:	`[STX]sWN C1_TP2_ID 80000000[ETX]`
Write Variable Response:	`[STX]sWA C1_TP2_ID[ETX]`

2.9.3.12. Variable: C1_TPDO2_TrmType

The following section contains a detailed description of the variable C1_TPDO2_TrmType.

Variable Overview

Variable Name	Description
C1_TPDO2_TrmType	Transmission type for TPDO2

Communication Name	C1_TP2_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	373
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN C1_TP2_TT`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_TT	String	9	Transmission type for TPDO2

Read Variable Response:

`sRA C1_TP2_TT <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_TT	String	9	Transmission type for TPDO2
Variable Data	data	USInt	1	

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Write Variable:				
sWN C1_TP2_TT <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_TT	String	9	Transmission type for TPDO2
Variable Data	data	USInt	1	

Write Variable Response:				
sWA C1_TP2_TT				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_TT	String	9	Transmission type for TPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP2_TT[ETX]
Read Variable Response:	[STX]sRA C1_TP2_TT FE[ETX]
Write Variable:	[STX]sWN C1_TP2_TT FE[ETX]
Write Variable Response:	[STX]sWA C1_TP2_TT[ETX]

2.9.3.13. Variable: C1_TPDO2_InhibtTime

The following section contains a detailed description of the variable C1_TPDO2_InhibtTime.

Variable Overview

Variable Name	Description
C1_TPDO2_InhibtTime	Inhibt time for TPDO2

Communication Name	C1_TP2_IT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	374
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP2_IT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_IT	String	9	Inhibt time for TPDO2

Read Variable Response:				
`sRA C1_TP2_IT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_IT	String	9	Inhibt time for TPDO2
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_TP2_IT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_IT	String	9	Inhibt time for TPDO2
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_TP2_IT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_IT	String	9	Inhibt time for TPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP2_IT[ETX]`
Read Variable Response:	`[STX]sRA C1_TP2_IT 0[ETX]`
Write Variable:	`[STX]sWN C1_TP2_IT 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP2_IT[ETX]`

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2.9.3.14. Variable: C1_TPDO2_EventTime

The following section contains a detailed description of the variable C1_TPDO2_EventTime.

Variable Overview

Variable Name	Description
C1_TPDO2_EventTime	Event time for TPDO2

Communication Name	C1_TP2_ET
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	375
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP2_ET
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP2_ET	String	9	Event time for TPDO2

Read Variable Response:

```
sRA C1_TP2_ET <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP2_ET	String	9	Event time for TPDO2
Variable Data	data	UInt	2	

Write Variable:

```
sWN C1_TP2_ET <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP2_ET	String	9	Event time for TPDO2
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA C1_TP2_ET
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP2_ET	String	9	Event time for TPDO2

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP2_ET[ETX]`
Read Variable Response:	`[STX]sRA C1_TP2_ET 0[ETX]`
Write Variable:	`[STX]sWN C1_TP2_ET 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP2_ET[ETX]`

2.9.3.15. Variable: C1_TPDO3_MapNum

The following section contains a detailed description of the variable C1_TPDO3_MapNum.

Variable Overview

Variable Name	Description
C1_TPDO3_MapNum	Number of mapping entries for TPDO3

Communication Name	C1_TP3_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	376
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP3_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_MN	String	9	Number of mapping entries for TPDO3

Read Variable Response:

```
sRA C1_TP3_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_MN	String	9	Number of mapping entries for TPDO3
Variable Data	data	USInt	1	

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Write Variable:				
sWN C1_TP3_MN <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_MN	String	9	Number of mapping entries for TPDO3
Variable Data	data	USInt	1	

Write Variable Response:				
sWA C1_TP3_MN				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_MN	String	9	Number of mapping entries for TPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP3_MN[ETX]
Read Variable Response:	[STX]sRA C1_TP3_MN 0[ETX]
Write Variable:	[STX]sWN C1_TP3_MN 0[ETX]
Write Variable Response:	[STX]sWA C1_TP3_MN[ETX]

2.9.3.16. Variable: C1_TPDO3_MapObjs

The following section contains a detailed description of the variable C1_TPDO3_MapObjs.

Variable Overview

Variable Name	Description
C1_TPDO3_MapObjs	array[8] of mapping objects for TPDO3

Communication Name	C1_TP3_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	377
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UDInt	
	Value Range	0..4294967295
	Initialisation	0x00000000
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP3_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_MOBJ	String	11	array[8] of mapping objects for TPDO3

Read Variable Response:				
`sRA C1_TP3_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_MOBJ	String	11	array[8] of mapping objects for TPDO3
Variable Data	data	Array	32	

Write Variable:				
`sWN C1_TP3_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_MOBJ	String	11	array[8] of mapping objects for TPDO3
Variable Data	data	Array	32	

Write Variable Response:				
`sWA C1_TP3_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_MOBJ	String	11	array[8] of mapping objects for TPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP3_MOBJ[ETX]`
Read Variable Response:	`[STX]sRA C1_TP3_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN C1_TP3_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP3_MOBJ[ETX]`

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2.9.3.17. Variable: C1_TPDO3_PreConnSet

The following section contains a detailed description of the variable C1_TPDO3_PreConnSet.

Variable Overview

Variable Name	Description
C1_TPDO3_PreConnSet	Define use of predefined connection set

Communication Name	C1_TP3_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	378
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP3_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_PCS	String	10	Define use of predefined connection set

Read Variable Response:

```
sRA C1_TP3_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:

```
sWN C1_TP3_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:

```
sWA C1_TP3_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_PCS	String	10	Define use of predefined connection set

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP3_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_TP3_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_TP3_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_TP3_PCS[ETX]`

2.9.3.18. Variable: C1_TPDO3_CobId

The following section contains a detailed description of the variable C1_TPDO3_CobId.

Variable Overview

Variable Name	Description
C1_TPDO3_CobId	Can identifier for TPDO3

Communication Name	C1_TP3_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	379
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP3_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_ID	String	9	Can identifier for TPDO3

Read Variable Response:

```
sRA C1_TP3_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_ID	String	9	Can identifier for TPDO3
Variable Data	data	UDInt	4	

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Write Variable:				
sWN C1_TP3_ID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_ID	String	9	Can identifier for TPDO3
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA C1_TP3_ID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_ID	String	9	Can identifier for TPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP3_ID[ETX]
Read Variable Response:	[STX]sRA C1_TP3_ID 80000000[ETX]
Write Variable:	[STX]sWN C1_TP3_ID 80000000[ETX]
Write Variable Response:	[STX]sWA C1_TP3_ID[ETX]

2.9.3.19. Variable: C1_TPDO3_TrmType

The following section contains a detailed description of the variable C1_TPDO3_TrmType.

Variable Overview

Variable Name	Description
C1_TPDO3_TrmType	Transmission type for TPDO3

Communication Name	C1_TP3_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	380
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP3_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_TT	String	9	Transmission type for TPDO3

Read Variable Response:				
`sRA C1_TP3_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_TT	String	9	Transmission type for TPDO3
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_TP3_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_TT	String	9	Transmission type for TPDO3
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_TP3_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_TT	String	9	Transmission type for TPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP3_TT[ETX]`
Read Variable Response:	`[STX]sRA C1_TP3_TT FE[ETX]`
Write Variable:	`[STX]sWN C1_TP3_TT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_TP3_TT[ETX]`

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2.9.3.20. Variable: C1_TPDO3_InhibtTime

The following section contains a detailed description of the variable C1_TPDO3_InhibtTime.

Variable Overview

Variable Name	Description
C1_TPDO3_InhibtTime	Inhibt time for TPDO3

Communication Name	C1_TP3_IT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	381
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP3_IT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_IT	String	9	Inhibt time for TPDO3

Read Variable Response:

```
sRA C1_TP3_IT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_IT	String	9	Inhibt time for TPDO3
Variable Data	data	UInt	2	

Write Variable:

```
sWN C1_TP3_IT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_IT	String	9	Inhibt time for TPDO3
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA C1_TP3_IT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_IT	String	9	Inhibt time for TPDO3

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP3_IT[ETX]`
Read Variable Response:	`[STX]sRA C1_TP3_IT 0[ETX]`
Write Variable:	`[STX]sWN C1_TP3_IT 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP3_IT[ETX]`

2.9.3.21. Variable: C1_TPDO3_EventTime

The following section contains a detailed description of the variable C1_TPDO3_EventTime.

Variable Overview

Variable Name	Description
C1_TPDO3_EventTime	Event time for TPDO3

Communication Name	C1_TP3_ET
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	382
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN C1_TP3_ET`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP3_ET	String	9	Event time for TPDO3

Read Variable Response:

`sRA C1_TP3_ET <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP3_ET	String	9	Event time for TPDO3
Variable Data	data	UInt	2	

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Write Variable:				
sWN C1_TP3_ET <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP3_ET	String	9	Event time for TPDO3
Variable Data	data	UInt	2	

Write Variable Response:				
sWA C1_TP3_ET				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP3_ET	String	9	Event time for TPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP3_ET[ETX]
Read Variable Response:	[STX]sRA C1_TP3_ET 0[ETX]
Write Variable:	[STX]sWN C1_TP3_ET 0[ETX]
Write Variable Response:	[STX]sWA C1_TP3_ET[ETX]

2.9.3.22. Variable: C1_TPDO4_MapNum

The following section contains a detailed description of the variable C1_TPDO4_MapNum.

Variable Overview

Variable Name	Description
C1_TPDO4_MapNum	Number of mapping entries for TPDO4

Communication Name	C1_TP4_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	383
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP4_MN`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_MN	String	9	Number of mapping entries for TPDO4

Read Variable Response:				
`sRA C1_TP4_MN <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_MN	String	9	Number of mapping entries for TPDO4
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_TP4_MN <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_MN	String	9	Number of mapping entries for TPDO4
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_TP4_MN`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_MN	String	9	Number of mapping entries for TPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP4_MN[ETX]`
Read Variable Response:	`[STX]sRA C1_TP4_MN 0[ETX]`
Write Variable:	`[STX]sWN C1_TP4_MN 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP4_MN[ETX]`

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2.9.3.23. Variable: C1_TPDO4_MapObjs

The following section contains a detailed description of the variable C1_TPDO4_MapObjs.

Variable Overview

Variable Name	Description
C1_TPDO4_MapObjs	array[8] of mapping objects for TPDO4

Communication Name	C1_TP4_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	384
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	8
UDInt	
Value Range	0..4294967295
Initialisation	0x00000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP4_MOBJ
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_MOBJ	String	11	array[8] of mapping objects for TPDO4

Read Variable Response:

```
sRA C1_TP4_MOBJ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_MOBJ	String	11	array[8] of mapping objects for TPDO4
Variable Data	data	Array	32	

Write Variable:

```
sWN C1_TP4_MOBJ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_MOBJ	String	11	array[8] of mapping objects for TPDO4
Variable Data	data	Array	32	

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Write Variable Response:				
sWA C1_TP4_MOBJ				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_MOBJ	String	11	array[8] of mapping objects for TPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP4_MOBJ[ETX]
Read Variable Response:	[STX]sRA C1_TP4_MOBJ 0 0 0 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN C1_TP4_MOBJ 0 0 0 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA C1_TP4_MOBJ[ETX]

2.9.3.24. Variable: C1_TPDO4_PreConnSet

The following section contains a detailed description of the variable C1_TPDO4_PreConnSet.

Variable Overview

Variable Name	Description
C1_TPDO4_PreConnSet	Define use of predefined connection set

Communication Name	C1_TP4_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	385
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP4_PCS`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_PCS	String	10	Define use of predefined connection set

Read Variable Response:				
`sRA C1_TP4_PCS <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:				
`sWN C1_TP4_PCS <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:				
`sWA C1_TP4_PCS`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_PCS	String	10	Define use of predefined connection set

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP4_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_TP4_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_TP4_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_TP4_PCS[ETX]`

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2.9.3.25. Variable: C1_TPDO4_CobId

The following section contains a detailed description of the variable C1_TPDO4_CobId.

Variable Overview

Variable Name	Description
C1_TPDO4_CobId	Can identifier for TPDO4

Communication Name	C1_TP4_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	386
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP4_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_ID	String	9	Can identifier for TPDO4

Read Variable Response:

```
sRA C1_TP4_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_ID	String	9	Can identifier for TPDO4
Variable Data	data	UDInt	4	

Write Variable:

```
sWN C1_TP4_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_ID	String	9	Can identifier for TPDO4
Variable Data	data	UDInt	4	

Write Variable Response:

```
sWA C1_TP4_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_ID	String	9	Can identifier for TPDO4

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP4_ID[ETX]`
Read Variable Response:	`[STX]sRA C1_TP4_ID 80000000[ETX]`
Write Variable:	`[STX]sWN C1_TP4_ID 80000000[ETX]`
Write Variable Response:	`[STX]sWA C1_TP4_ID[ETX]`

2.9.3.26. Variable: C1_TPDO4_TrmType

The following section contains a detailed description of the variable C1_TPDO4_TrmType.

Variable Overview

Variable Name	Description
C1_TPDO4_TrmType	Transmission type for TPDO4

Communication Name	C1_TP4_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	387
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN C1_TP4_TT`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_TT	String	9	Transmission type for TPDO4

Read Variable Response:

`sRA C1_TP4_TT <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_TT	String	9	Transmission type for TPDO4
Variable Data	data	USInt	1	

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Write Variable:				
sWN C1_TP4_TT <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_TT	String	9	Transmission type for TPDO4
Variable Data	data	USInt	1	

Write Variable Response:				
sWA C1_TP4_TT				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_TT	String	9	Transmission type for TPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP4_TT[ETX]
Read Variable Response:	[STX]sRA C1_TP4_TT FE[ETX]
Write Variable:	[STX]sWN C1_TP4_TT FE[ETX]
Write Variable Response:	[STX]sWA C1_TP4_TT[ETX]

2.9.3.27. Variable: C1_TPDO4_InhibtTime

The following section contains a detailed description of the variable C1_TPDO4_InhibtTime.

Variable Overview

Variable Name	Description
C1_TPDO4_InhibtTime	Inhibt time for TPDO4

Communication Name	C1_TP4_IT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	388
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_TP4_IT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_IT	String	9	Inhibt time for TPDO4

Read Variable Response:				
`sRA C1_TP4_IT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_IT	String	9	Inhibt time for TPDO4
Variable Data	data	UInt	2	

Write Variable:				
`sWN C1_TP4_IT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_IT	String	9	Inhibt time for TPDO4
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA C1_TP4_IT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_IT	String	9	Inhibt time for TPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_TP4_IT[ETX]`
Read Variable Response:	`[STX]sRA C1_TP4_IT 0[ETX]`
Write Variable:	`[STX]sWN C1_TP4_IT 0[ETX]`
Write Variable Response:	`[STX]sWA C1_TP4_IT[ETX]`

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2.9.3.28. Variable: C1_TPDO4_EventTime

The following section contains a detailed description of the variable C1_TPDO4_EventTime.

Variable Overview

Variable Name	Description
C1_TPDO4_EventTime	Event time for TPDO4

Communication Name	C1_TP4_ET
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	389
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0x00
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_TP4_ET
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_TP4_ET	String	9	Event time for TPDO4

Read Variable Response:

```
sRA C1_TP4_ET <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_TP4_ET	String	9	Event time for TPDO4
Variable Data	data	UInt	2	

Write Variable:

```
sWN C1_TP4_ET <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_TP4_ET	String	9	Event time for TPDO4
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA C1_TP4_ET
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_TP4_ET	String	9	Event time for TPDO4

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_TP4_ET[ETX]
Read Variable Response:	[STX]sRA C1_TP4_ET 0[ETX]
Write Variable:	[STX]sWN C1_TP4_ET 0[ETX]
Write Variable Response:	[STX]sWA C1_TP4_ET[ETX]

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2.9.4. Group: CAN1BusRPDO

2.9.4.1. Variable: C1_RPDO1_MapNum

The following section contains a detailed description of the variable C1_RPDO1_MapNum.

Variable Overview

Variable Name	Description
C1_RPDO1_MapNum	Number of mapping entries for RPDO1

Communication Name	C1_RP1_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	390
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP1_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP1_MN	String	9	Number of mapping entries for RPDO1

Read Variable Response:

```
sRA C1_RP1_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP1_MN	String	9	Number of mapping entries for RPDO1
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_RP1_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP1_MN	String	9	Number of mapping entries for RPDO1
Variable Data	data	USInt	1	

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Write Variable Response:				
sWA C1_RP1_MN				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP1_MN	String	9	Number of mapping entries for RPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_RP1_MN[ETX]
Read Variable Response:	[STX]sRA C1_RP1_MN 0[ETX]
Write Variable:	[STX]sWN C1_RP1_MN 0[ETX]
Write Variable Response:	[STX]sWA C1_RP1_MN[ETX]

2.9.4.2. Variable: C1_RPDO1_MapObjs

The following section contains a detailed description of the variable C1_RPDO1_MapObjs.

Variable Overview

Variable Name	Description
C1_RPDO1_MapObjs	array[8] of mapping objects for RPDO1

Communication Name	C1_RP1_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	391
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UDInt	
	Value Range	0..4294967295
	Initialisation	0x00000000
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP1_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP1_MOBJ	String	11	array[8] of mapping objects for RPDO1

Read Variable Response:				
`sRA C1_RP1_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP1_MOBJ	String	11	array[8] of mapping objects for RPDO1
Variable Data	data	Array	32	

Write Variable:				
`sWN C1_RP1_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP1_MOBJ	String	11	array[8] of mapping objects for RPDO1
Variable Data	data	Array	32	

Write Variable Response:				
`sWA C1_RP1_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP1_MOBJ	String	11	array[8] of mapping objects for RPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP1_MOBJ[ETX]`
Read Variable Response:	`[STX]sRA C1_RP1_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN C1_RP1_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP1_MOBJ[ETX]`

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2.9.4.3. Variable: C1_RPDO1_PreConnSet

The following section contains a detailed description of the variable C1_RPDO1_PreConnSet.

Variable Overview

Variable Name	Description
C1_RPDO1_PreConnSet	Define use of predefined connection set

Communication Name	C1_RP1_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	392
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP1_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP1_PCS	String	10	Define use of predefined connection set

Read Variable Response:

```
sRA C1_RP1_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP1_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:

```
sWN C1_RP1_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP1_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:

```
sWA C1_RP1_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP1_PCS	String	10	Define use of predefined connection set

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP1_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_RP1_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_RP1_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_RP1_PCS[ETX]`

2.9.4.4. Variable: C1_RPDO1_CobId

The following section contains a detailed description of the variable C1_RPDO1_CobId.

Variable Overview

Variable Name	Description
C1_RPDO1_CobId	Can identifier for RPDO1

Communication Name	C1_RP1_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	393
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN C1_RP1_ID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP1_ID	String	9	Can identifier for RPDO1

Read Variable Response:				
`sRA C1_RP1_ID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP1_ID	String	9	Can identifier for RPDO1
Variable Data	data	UDInt	4	

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Write Variable:				
sWN C1_RP1_ID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP1_ID	String	9	Can identifier for RPDO1
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA C1_RP1_ID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP1_ID	String	9	Can identifier for RPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_RP1_ID[ETX]
Read Variable Response:	[STX]sRA C1_RP1_ID 80000000[ETX]
Write Variable:	[STX]sWN C1_RP1_ID 80000000[ETX]
Write Variable Response:	[STX]sWA C1_RP1_ID[ETX]

2.9.4.5. Variable: C1_RPDO1_TrmType

The following section contains a detailed description of the variable C1_RPDO1_TrmType.

Variable Overview

Variable Name	Description
C1_RPDO1_TrmType	Transmission type for RPDO1

Communication Name	C1_RP1_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	394
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP1_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP1_TT	String	9	Transmission type for RPDO1

Read Variable Response:				
`sRA C1_RP1_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP1_TT	String	9	Transmission type for RPDO1
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_RP1_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP1_TT	String	9	Transmission type for RPDO1
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_RP1_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP1_TT	String	9	Transmission type for RPDO1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP1_TT[ETX]`
Read Variable Response:	`[STX]sRA C1_RP1_TT FE[ETX]`
Write Variable:	`[STX]sWN C1_RP1_TT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_RP1_TT[ETX]`

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2.9.4.6. Variable: C1_RPDO2_MapNum

The following section contains a detailed description of the variable C1_RPDO2_MapNum.

Variable Overview

Variable Name	Description
C1_RPDO2_MapNum	Number of mapping entries for RPDO2

Communication Name	C1_RP2_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	395
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP2_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP2_MN	String	9	Number of mapping entries for RPDO2

Read Variable Response:

```
sRA C1_RP2_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP2_MN	String	9	Number of mapping entries for RPDO2
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_RP2_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP2_MN	String	9	Number of mapping entries for RPDO2
Variable Data	data	USInt	1	

Write Variable Response:

```
sWA C1_RP2_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP2_MN	String	9	Number of mapping entries for RPDO2

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP2_MN[ETX]`
Read Variable Response:	`[STX]sRA C1_RP2_MN 0[ETX]`
Write Variable:	`[STX]sWN C1_RP2_MN 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP2_MN[ETX]`

2.9.4.7. Variable: C1_RPDO2_MapObjs

The following section contains a detailed description of the variable C1_RPDO2_MapObjs.

Variable Overview

Variable Name	Description
C1_RPDO2_MapObjs	array[8] of mapping objects for RPDO2

Communication Name	C1_RP2_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	396
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UDInt	
	Value Range	0..4294967295
	Initialisation	0x00000000
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP2_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP2_MOBJ	String	11	array[8] of mapping objects for RPDO2

Read Variable Response:				
`sRA C1_RP2_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP2_MOBJ	String	11	array[8] of mapping objects for RPDO2
Variable Data	data	Array	32	

Write Variable:				
`sWN C1_RP2_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP2_MOBJ	String	11	array[8] of mapping objects for RPDO2
Variable Data	data	Array	32	

Write Variable Response:				
`sWA C1_RP2_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP2_MOBJ	String	11	array[8] of mapping objects for RPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP2_MOBJ[ETX]`
Read Variable Response:	`[STX]sRA C1_RP2_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN C1_RP2_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP2_MOBJ[ETX]`

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2.9.4.8. Variable: C1_RPDO2_PreConnSet

The following section contains a detailed description of the variable C1_RPDO2_PreConnSet.

Variable Overview

Variable Name	Description
C1_RPDO2_PreConnSet	Define use of predefined connection set

Communication Name	C1_RP2_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	397
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP2_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP2_PCS	String	10	Define use of predefined connection set

Read Variable Response:

```
sRA C1_RP2_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP2_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:

```
sWN C1_RP2_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP2_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:

```
sWA C1_RP2_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP2_PCS	String	10	Define use of predefined connection set

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP2_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_RP2_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_RP2_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_RP2_PCS[ETX]`

2.9.4.9. Variable: C1_RPDO2_CobId

The following section contains a detailed description of the variable C1_RPDO2_CobId.

Variable Overview

Variable Name	Description
C1_RPDO2_CobId	Can identifier for RPDO2

Communication Name	C1_RP2_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	398
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN C1_RP2_ID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP2_ID	String	9	Can identifier for RPDO2

Read Variable Response:				
`sRA C1_RP2_ID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP2_ID	String	9	Can identifier for RPDO2
Variable Data	data	UDInt	4	

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Write Variable:				
sWN C1_RP2_ID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP2_ID	String	9	Can identifier for RPDO2
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA C1_RP2_ID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP2_ID	String	9	Can identifier for RPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_RP2_ID[ETX]
Read Variable Response:	[STX]sRA C1_RP2_ID 80000000[ETX]
Write Variable:	[STX]sWN C1_RP2_ID 80000000[ETX]
Write Variable Response:	[STX]sWA C1_RP2_ID[ETX]

2.9.4.10. Variable: C1_RPDO2_TrmType

The following section contains a detailed description of the variable C1_RPDO2_TrmType.

Variable Overview

Variable Name	Description
C1_RPDO2_TrmType	Transmission type for RPDO2

Communication Name	C1_RP2_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	399
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP2_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP2_TT	String	9	Transmission type for RPDO2

Read Variable Response:				
`sRA C1_RP2_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP2_TT	String	9	Transmission type for RPDO2
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_RP2_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP2_TT	String	9	Transmission type for RPDO2
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_RP2_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP2_TT	String	9	Transmission type for RPDO2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP2_TT[ETX]`
Read Variable Response:	`[STX]sRA C1_RP2_TT FE[ETX]`
Write Variable:	`[STX]sWN C1_RP2_TT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_RP2_TT[ETX]`

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2.9.4.11. Variable: C1_RPDO3_MapNum

The following section contains a detailed description of the variable C1_RPDO3_MapNum.

Variable Overview

Variable Name	Description
C1_RPDO3_MapNum	Number of mapping entries for RPDO3

Communication Name	C1_RP3_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	400
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP3_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP3_MN	String	9	Number of mapping entries for RPDO3

Read Variable Response:

```
sRA C1_RP3_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP3_MN	String	9	Number of mapping entries for RPDO3
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_RP3_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP3_MN	String	9	Number of mapping entries for RPDO3
Variable Data	data	USInt	1	

Write Variable Response:

```
sWA C1_RP3_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP3_MN	String	9	Number of mapping entries for RPDO3

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP3_MN[ETX]`
Read Variable Response:	`[STX]sRA C1_RP3_MN 0[ETX]`
Write Variable:	`[STX]sWN C1_RP3_MN 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP3_MN[ETX]`

2.9.4.12. Variable: C1_RPDO3_MapObjs

The following section contains a detailed description of the variable C1_RPDO3_MapObjs.

Variable Overview

Variable Name	Description
C1_RPDO3_MapObjs	array[8] of mapping objects for RPDO3

Communication Name	C1_RP3_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	401
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UDInt	
	Value Range	0..4294967295
	Initialisation	0x00000000
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP3_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP3_MOBJ	String	11	array[8] of mapping objects for RPDO3

Read Variable Response:				
`sRA C1_RP3_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP3_MOBJ	String	11	array[8] of mapping objects for RPDO3
Variable Data	data	Array	32	

Write Variable:				
`sWN C1_RP3_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP3_MOBJ	String	11	array[8] of mapping objects for RPDO3
Variable Data	data	Array	32	

Write Variable Response:				
`sWA C1_RP3_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP3_MOBJ	String	11	array[8] of mapping objects for RPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP3_MOBJ[ETX]`
Read Variable Response:	`[STX]sRA C1_RP3_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN C1_RP3_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP3_MOBJ[ETX]`

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2.9.4.13. Variable: C1_RPDO3_PreConnSet

The following section contains a detailed description of the variable C1_RPDO3_PreConnSet.

Variable Overview

Variable Name	Description
C1_RPDO3_PreConnSet	Define use of predefined connection set

Communication Name	C1_RP3_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	402
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP3_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP3_PCS	String	10	Define use of predefined connection set

Read Variable Response:

```
sRA C1_RP3_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP3_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:

```
sWN C1_RP3_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP3_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:

```
sWA C1_RP3_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP3_PCS	String	10	Define use of predefined connection set

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP3_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_RP3_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_RP3_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_RP3_PCS[ETX]`

2.9.4.14. Variable: C1_RPDO3_CobId

The following section contains a detailed description of the variable C1_RPDO3_CobId.

Variable Overview

Variable Name	Description
C1_RPDO3_CobId	Can identifier for RPDO3

Communication Name	C1_RP3_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	403
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP3_ID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP3_ID	String	9	Can identifier for RPDO3

Read Variable Response:

```
sRA C1_RP3_ID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP3_ID	String	9	Can identifier for RPDO3
Variable Data	data	UDInt	4	

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Write Variable:				
sWN C1_RP3_ID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP3_ID	String	9	Can identifier for RPDO3
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA C1_RP3_ID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP3_ID	String	9	Can identifier for RPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_RP3_ID[ETX]
Read Variable Response:	[STX]sRA C1_RP3_ID 80000000[ETX]
Write Variable:	[STX]sWN C1_RP3_ID 80000000[ETX]
Write Variable Response:	[STX]sWA C1_RP3_ID[ETX]

2.9.4.15. Variable: C1_RPDO3_TrmType

The following section contains a detailed description of the variable C1_RPDO3_TrmType.

Variable Overview

Variable Name	Description
C1_RPDO3_TrmType	Transmission type for RPDO3

Communication Name	C1_RP3_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	404
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP3_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP3_TT	String	9	Transmission type for RPDO3

Read Variable Response:				
`sRA C1_RP3_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP3_TT	String	9	Transmission type for RPDO3
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_RP3_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP3_TT	String	9	Transmission type for RPDO3
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_RP3_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP3_TT	String	9	Transmission type for RPDO3

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP3_TT[ETX]`
Read Variable Response:	`[STX]sRA C1_RP3_TT FE[ETX]`
Write Variable:	`[STX]sWN C1_RP3_TT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_RP3_TT[ETX]`

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2.9.4.16. Variable: C1_RPDO4_MapNum

The following section contains a detailed description of the variable C1_RPDO4_MapNum.

Variable Overview

Variable Name	Description
C1_RPDO4_MapNum	Number of mapping entries for RPDO4

Communication Name	C1_RP4_MN
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	405
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..8
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP4_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP4_MN	String	9	Number of mapping entries for RPDO4

Read Variable Response:

```
sRA C1_RP4_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP4_MN	String	9	Number of mapping entries for RPDO4
Variable Data	data	USInt	1	

Write Variable:

```
sWN C1_RP4_MN <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP4_MN	String	9	Number of mapping entries for RPDO4
Variable Data	data	USInt	1	

Write Variable Response:

```
sWA C1_RP4_MN
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP4_MN	String	9	Number of mapping entries for RPDO4

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP4_MN[ETX]`
Read Variable Response:	`[STX]sRA C1_RP4_MN 0[ETX]`
Write Variable:	`[STX]sWN C1_RP4_MN 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP4_MN[ETX]`

2.9.4.17. Variable: C1_RPDO4_MapObjs

The following section contains a detailed description of the variable C1_RPDO4_MapObjs.

Variable Overview

Variable Name	Description
C1_RPDO4_MapObjs	array[8] of mapping objects for RPDO4

Communication Name	C1_RP4_MOBJ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	406
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UDInt	
	Value Range	0..4294967295
	Initialisation	0x00000000
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP4_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP4_MOBJ	String	11	array[8] of mapping objects for RPDO4

Read Variable Response:				
`sRA C1_RP4_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP4_MOBJ	String	11	array[8] of mapping objects for RPDO4
Variable Data	data	Array	32	

Write Variable:				
`sWN C1_RP4_MOBJ <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP4_MOBJ	String	11	array[8] of mapping objects for RPDO4
Variable Data	data	Array	32	

Write Variable Response:				
`sWA C1_RP4_MOBJ`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP4_MOBJ	String	11	array[8] of mapping objects for RPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP4_MOBJ[ETX]`
Read Variable Response:	`[STX]sRA C1_RP4_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN C1_RP4_MOBJ 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA C1_RP4_MOBJ[ETX]`

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2.9.4.18. Variable: C1_RPDO4_PreConnSet

The following section contains a detailed description of the variable C1_RPDO4_PreConnSet.

Variable Overview

Variable Name	Description
C1_RPDO4_PreConnSet	Define use of predefined connection set

Communication Name	C1_RP4_PCS
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	407
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
eUsePredConnSetType	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN C1_RP4_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP4_PCS	String	10	Define use of predefined connection set

Read Variable Response:

```
sRA C1_RP4_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP4_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable:

```
sWN C1_RP4_PCS <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP4_PCS	String	10	Define use of predefined connection set
Variable Data	data	eUsePredConnSetType	1	

Write Variable Response:

```
sWA C1_RP4_PCS
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP4_PCS	String	10	Define use of predefined connection set

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP4_PCS[ETX]`
Read Variable Response:	`[STX]sRA C1_RP4_PCS 1[ETX]`
Write Variable:	`[STX]sWN C1_RP4_PCS 1[ETX]`
Write Variable Response:	`[STX]sWA C1_RP4_PCS[ETX]`

2.9.4.19. Variable: C1_RPDO4_CobId

The following section contains a detailed description of the variable C1_RPDO4_CobId.

Variable Overview

Variable Name	Description
C1_RPDO4_CobId	Can identifier for RPDO4

Communication Name	C1_RP4_ID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	408
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	0..4294967295
Initialisation	0x80000000
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN C1_RP4_ID`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP4_ID	String	9	Can identifier for RPDO4

Read Variable Response:

`sRA C1_RP4_ID <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP4_ID	String	9	Can identifier for RPDO4
Variable Data	data	UDInt	4	

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Write Variable:				
sWN C1_RP4_ID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP4_ID	String	9	Can identifier for RPDO4
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA C1_RP4_ID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP4_ID	String	9	Can identifier for RPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN C1_RP4_ID[ETX]
Read Variable Response:	[STX]sRA C1_RP4_ID 80000000[ETX]
Write Variable:	[STX]sWN C1_RP4_ID 80000000[ETX]
Write Variable Response:	[STX]sWA C1_RP4_ID[ETX]

2.9.4.20. Variable: C1_RPDO4_TrmType

The following section contains a detailed description of the variable C1_RPDO4_TrmType.

Variable Overview

Variable Name	Description
C1_RPDO4_TrmType	Transmission type for RPDO4

Communication Name	C1_RP4_TT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	409
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	0..255
Initialisation	0xFE
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN C1_RP4_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	C1_RP4_TT	String	9	Transmission type for RPDO4

Read Variable Response:				
`sRA C1_RP4_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	C1_RP4_TT	String	9	Transmission type for RPDO4
Variable Data	data	USInt	1	

Write Variable:				
`sWN C1_RP4_TT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	C1_RP4_TT	String	9	Transmission type for RPDO4
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA C1_RP4_TT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	C1_RP4_TT	String	9	Transmission type for RPDO4

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN C1_RP4_TT[ETX]`
Read Variable Response:	`[STX]sRA C1_RP4_TT FE[ETX]`
Write Variable:	`[STX]sWN C1_RP4_TT FE[ETX]`
Write Variable Response:	`[STX]sWA C1_RP4_TT[ETX]`

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2.10. Interface Block: GeneralCfgSerialBase

2.10.1. Group: SerialBase

2.10.1.1. Variable: SerHostProtocol

The following section contains a detailed description of the variable SerHostProtocol.

Variable Overview

Variable Name	Description
SerHostProtocol	Protocol for Serial Host

Communication Name	SIHstProt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	410
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_OUTPUT_FORMAT_DEF_1	
	2	TX_OUTPUT_FORMAT_DEF_2	
	3	TX_USERDEF_FORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN SIHstProt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstProt	String	9	Protocol for Serial Host

Read Variable Response:

```
sRA SIHstProt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstProt	String	9	Protocol for Serial Host
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SIHstProt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstProt	String	9	Protocol for Serial Host
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SIHstProt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstProt	String	9	Protocol for Serial Host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstProt[ETX]
Read Variable Response:	[STX]sRA SIHstProt 1[ETX]
Write Variable:	[STX]sWN SIHstProt 1[ETX]
Write Variable Response:	[STX]sWA SIHstProt[ETX]

2.10.1.2. Variable: SerHostMultiplex

The following section contains a detailed description of the variable SerHostMultiplex.

Variable Overview

Variable Name	Description
SerHostMultiplex	Output multiplexer data on serial host

Communication Name	SIHstMux
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	411
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN SIHstMux`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstMux	String	8	Output multiplexer data on serial host

Read Variable Response:				
`sRA SIHstMux <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstMux	String	8	Output multiplexer data on serial host
Variable Data	data	Bool	1	

Write Variable:				
`sWN SIHstMux <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstMux	String	8	Output multiplexer data on serial host
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA SIHstMux`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstMux	String	8	Output multiplexer data on serial host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstMux[ETX]`
Read Variable Response:	`[STX]sRA SIHstMux 1[ETX]`
Write Variable:	`[STX]sWN SIHstMux 1[ETX]`
Write Variable Response:	`[STX]sWA SIHstMux[ETX]`

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2.10.1.3. Variable: SerHostBaudrate

The following section contains a detailed description of the variable SerHostBaudrate.

Variable Overview

Variable Name	Description
SerHostBaudrate	Baudrate for HostInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)

Communication Name	SIHstBaud
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	412
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		8	
	Value	Name	Description
	0	300	
	1	600	
	2	1200	
	3	2400	
	4	4800	
	5	9600	
	6	19200	
	7	38400	
	8	57600	
	9	115200	
	10	250000	
	11	500000	

Variable Telegram Syntax

Read Variable:

```
sRN SIHstBaud
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstBaud	String	9	Baudrate for HostInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)

Read Variable Response:

```
sRA SIHstBaud <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstBaud	String	9	Baudrate for HostInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)
Variable Data	data	Enum8	1	

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Write Variable:				
sWN SIHstBaud <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstBaud	String	9	Baudrate for HostInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA SIHstBaud				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstBaud	String	9	Baudrate for HostInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstBaud[ETX]
Read Variable Response:	[STX]sRA SIHstBaud 8[ETX]
Write Variable:	[STX]sWN SIHstBaud 8[ETX]
Write Variable Response:	[STX]sWA SIHstBaud[ETX]

2.10.1.4. Variable: SerHostStopbits

The following section contains a detailed description of the variable SerHostStopbits.

Variable Overview

Variable Name	Description
SerHostStopbits	Number of Stop Bits (1, 2)

Communication Name	SIHstStop
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	413
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	1	
	1	2	

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Variable Telegram Syntax

Read Variable:				
`sRN SIHstStop`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstStop	String	9	Number of Stop Bits (1, 2)

Read Variable Response:				
`sRA SIHstStop <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstStop	String	9	Number of Stop Bits (1, 2)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN SIHstStop <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstStop	String	9	Number of Stop Bits (1, 2)
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA SIHstStop`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstStop	String	9	Number of Stop Bits (1, 2)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstStop[ETX]`
Read Variable Response:	`[STX]sRA SIHstStop 0[ETX]`
Write Variable:	`[STX]sWN SIHstStop 0[ETX]`
Write Variable Response:	`[STX]sWA SIHstStop[ETX]`

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2.10.1.5. Variable: SerHostParity

The following section contains a detailed description of the variable SerHostParity.

Variable Overview

Variable Name	Description
SerHostParity	Combination of Number of Data Bits and Parity settings

Communication Name	SIHstPar
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	414
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DATA8_NO_PARITY	
	1	TX_DATA8_EVEN_PARITY	
	2	TX_DATA7_EVEN_PARITY	
	3	TX_DATA8_ODD_PARITY	
	4	TX_DATA7_ODD_PARITY	
	5	TX_DATA7_MARK_PARITY	
	6	TX_DATA7_SPACE_PARITY	

Variable Telegram Syntax

Read Variable:

```
sRN SIHstPar
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstPar	String	8	Combination of Number of Data Bits and Parity settings

Read Variable Response:

```
sRA SIHstPar <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstPar	String	8	Combination of Number of Data Bits and Parity settings
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SIHstPar <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstPar	String	8	Combination of Number of Data Bits and Parity settings
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SIHstPar				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstPar	String	8	Combination of Number of Data Bits and Parity settings

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstPar[ETX]
Read Variable Response:	[STX]sRA SIHstPar 0[ETX]
Write Variable:	[STX]sWN SIHstPar 0[ETX]
Write Variable Response:	[STX]sWA SIHstPar[ETX]

2.10.1.6. Variable: SerHostHardware

The following section contains a detailed description of the variable SerHostHardware.

Variable Overview

Variable Name	Description
SerHostHardware	Hardware settings for Host Interface (RS232, RS422 / 485)

Communication Name	SIHstHw
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	415
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_RS232	
	1	TX_RS485_2WIRE	
	2	TX_RS422_485_4WIRE	

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Variable Telegram Syntax

Read Variable:				
`sRN SIHstHw`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstHw	String	7	Hardware settings for Host Interface (RS232, RS422 / 485)

Read Variable Response:				
`sRA SIHstHw <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstHw	String	7	Hardware settings for Host Interface (RS232, RS422 / 485)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN SIHstHw <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstHw	String	7	Hardware settings for Host Interface (RS232, RS422 / 485)
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA SIHstHw`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstHw	String	7	Hardware settings for Host Interface (RS232, RS422 / 485)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstHw[ETX]`
Read Variable Response:	`[STX]sRA SIHstHw 0[ETX]`
Write Variable:	`[STX]sWN SIHstHw 0[ETX]`
Write Variable Response:	`[STX]sWA SIHstHw[ETX]`

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2.10.1.7. Variable: SerHostEnHB

The following section contains a detailed description of the variable SerHostEnHB.

Variable Overview

Variable Name	Description
SerHostEnHB	Enable heartbeat on Hostinterface

Communication Name	SIHstEnHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	416
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN SIHstEnHB
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstEnHB	String	9	Enable heartbeat on Hostinterface

Read Variable Response:

```
sRA SIHstEnHB <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstEnHB	String	9	Enable heartbeat on Hostinterface
Variable Data	data	Bool	1	

Write Variable:

```
sWN SIHstEnHB <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstEnHB	String	9	Enable heartbeat on Hostinterface
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA SIHstEnHB
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstEnHB	String	9	Enable heartbeat on Hostinterface

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstEnHB[ETX]`
Read Variable Response:	`[STX]sRA SIHstEnHB 0[ETX]`
Write Variable:	`[STX]sWN SIHstEnHB 0[ETX]`
Write Variable Response:	`[STX]sWA SIHstEnHB[ETX]`

2.10.1.8. Variable: SerHostHBInterval

The following section contains a detailed description of the variable SerHostHBInterval.

Variable Overview

Variable Name	Description
SerHostHBInterval	Heartbeat interval on Hostinterface

Communication Name	SIHstHBInt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	417
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..600
Initialisation	30
Physical Unit	s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN SIHstHBInt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstHBInt	String	10	Heartbeat interval on Hostinterface

Read Variable Response:				
`sRA SIHstHBInt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstHBInt	String	10	Heartbeat interval on Hostinterface
Variable Data	data	UInt	2	

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Write Variable:				
sWN SIHstHBInt <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstHBInt	String	10	Heartbeat interval on Hostinterface
Variable Data	data	UInt	2	

Write Variable Response:				
sWA SIHstHBInt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstHBInt	String	10	Heartbeat interval on Hostinterface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstHBInt[ETX]
Read Variable Response:	[STX]sRA SIHstHBInt 1E[ETX]
Write Variable:	[STX]sWN SIHstHBInt 1E[ETX]
Write Variable Response:	[STX]sWA SIHstHBInt[ETX]

2.10.1.9. Variable: SerHostRetrHB

The following section contains a detailed description of the variable SerHostRetrHB.

Variable Overview

Variable Name	Description
SerHostRetrHB	Retrigger heartbeat on Hostinterface

Communication Name	SIHstRetrHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	418
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN SIHstRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstRetrHB	String	11	Retrigger heartbeat on Hostinterface

Read Variable Response:				
`sRA SIHstRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstRetrHB	String	11	Retrigger heartbeat on Hostinterface
Variable Data	data	Bool	1	

Write Variable:				
`sWN SIHstRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstRetrHB	String	11	Retrigger heartbeat on Hostinterface
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA SIHstRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstRetrHB	String	11	Retrigger heartbeat on Hostinterface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstRetrHB[ETX]`
Read Variable Response:	`[STX]sRA SIHstRetrHB 1[ETX]`
Write Variable:	`[STX]sWN SIHstRetrHB 1[ETX]`
Write Variable Response:	`[STX]sWA SIHstRetrHB[ETX]`

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2.10.1.10. Variable: SerHostInputHandling

The following section contains a detailed description of the variable SerHostInputHandling.

Variable Overview

Variable Name	Description
SerHostInputHandling	Handling method for Input data on Serial Host interface

Communication Name	SIHstInp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	419
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_INPUT_DATA	
	1	TX_INPUT_DATA_FORWARDING	
	2	TX_INPUT_DATA_AUXRESULT	
	3	TX_INPUT_DATA_STRING_FOR_OUTFORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN SIHstInp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstInp	String	8	Handling method for Input data on Serial Host interface

Read Variable Response:

```
sRA SIHstInp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstInp	String	8	Handling method for Input data on Serial Host interface
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SIHstInp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstInp	String	8	Handling method for Input data on Serial Host interface
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SIHstInp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstInp	String	8	Handling method for Input data on Serial Host interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstInp[ETX]
Read Variable Response:	[STX]sRA SIHstInp 0[ETX]
Write Variable:	[STX]sWN SIHstInp 0[ETX]
Write Variable Response:	[STX]sWA SIHstInp[ETX]

2.10.1.11. Variable: SerAuxProtocol

The following section contains a detailed description of the variable SerAuxProtocol.

Variable Overview

Variable Name	Description
SerAuxProtocol	Protocol of serial aux interface

Communication Name	SIAuxProt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	420
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_READ_DIAG	
	2	TX_MONITOR_SERIAL_HOST1	
	3	TX_RDT400_PROTOCOL	
	4	TX_OUTPUT_FORMAT_DEF_1	
	5	TX_OUTPUT_FORMAT_DEF_2	

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Variable Telegram Syntax

Read Variable:				
`sRN SIAuxProt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxProt	String	9	Protocol of serial aux interface

Read Variable Response:				
`sRA SIAuxProt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxProt	String	9	Protocol of serial aux interface
Variable Data	data	Enum8	1	

Write Variable:				
`sWN SIAuxProt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxProt	String	9	Protocol of serial aux interface
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA SIAuxProt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxProt	String	9	Protocol of serial aux interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIAuxProt[ETX]`
Read Variable Response:	`[STX]sRA SIAuxProt 1[ETX]`
Write Variable:	`[STX]sWN SIAuxProt 1[ETX]`
Write Variable Response:	`[STX]sWA SIAuxProt[ETX]`

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2.10.1.12. Variable: SerAuxBaudrate

The following section contains a detailed description of the variable SerAuxBaudrate.

Variable Overview

Variable Name	Description
SerAuxBaudrate	Baudrate for AuxInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)

Communication Name	SIAuxBaud
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	421
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		8	
	Value	Name	Description
	0	300	
	1	600	
	2	1200	
	3	2400	
	4	4800	
	5	9600	
	6	19200	
	7	38400	
	8	57600	
	9	115200	
	10	250000	
	11	500000	

Variable Telegram Syntax

Read Variable:

```
sRN SIAuxBaud
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxBaud	String	9	Baudrate for AuxInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)

Read Variable Response:

```
sRA SIAuxBaud <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxBaud	String	9	Baudrate for AuxInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)
Variable Data	data	Enum8	1	

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Write Variable:				
sWN SIAuxBaud <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxBaud	String	9	Baudrate for AuxInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA SIAuxBaud				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxBaud	String	9	Baudrate for AuxInterface (300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115k Baud)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIAuxBaud[ETX]
Read Variable Response:	[STX]sRA SIAuxBaud 8[ETX]
Write Variable:	[STX]sWN SIAuxBaud 8[ETX]
Write Variable Response:	[STX]sWA SIAuxBaud[ETX]

2.10.1.13. Variable: SerAuxStopbits

The following section contains a detailed description of the variable SerAuxStopbits.

Variable Overview

Variable Name	Description
SerAuxStopbits	Number of Stop Bits (1, 2)

Communication Name	SIAuxStop
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	422
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	1	
	1	2	

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Variable Telegram Syntax

Read Variable:				
`sRN SIAuxStop`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxStop	String	9	Number of Stop Bits (1, 2)

Read Variable Response:				
`sRA SIAuxStop <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxStop	String	9	Number of Stop Bits (1, 2)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN SIAuxStop <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxStop	String	9	Number of Stop Bits (1, 2)
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA SIAuxStop`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxStop	String	9	Number of Stop Bits (1, 2)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIAuxStop[ETX]`
Read Variable Response:	`[STX]sRA SIAuxStop 0[ETX]`
Write Variable:	`[STX]sWN SIAuxStop 0[ETX]`
Write Variable Response:	`[STX]sWA SIAuxStop[ETX]`

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2.10.1.14. Variable: SerAuxParity

The following section contains a detailed description of the variable SerAuxParity.

Variable Overview

Variable Name	Description
SerAuxParity	Combination of Number of Data Bits and Parity settings

Communication Name	SIAuxPar
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	423
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DATA8_NO_PARITY	
	1	TX_DATA8_EVEN_PARITY	
	2	TX_DATA7_EVEN_PARITY	
	3	TX_DATA8_ODD_PARITY	
	4	TX_DATA7_ODD_PARITY	
	5	TX_DATA7_MARK_PARITY	
	6	TX_DATA7_SPACE_PARITY	

Variable Telegram Syntax

Read Variable:

```
sRN SIAuxPar
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxPar	String	8	Combination of Number of Data Bits and Parity settings

Read Variable Response:

```
sRA SIAuxPar <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxPar	String	8	Combination of Number of Data Bits and Parity settings
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SIAuxPar <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxPar	String	8	Combination of Number of Data Bits and Parity settings
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SIAuxPar				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxPar	String	8	Combination of Number of Data Bits and Parity settings

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIAuxPar[ETX]
Read Variable Response:	[STX]sRA SIAuxPar 0[ETX]
Write Variable:	[STX]sWN SIAuxPar 0[ETX]
Write Variable Response:	[STX]sWA SIAuxPar[ETX]

2.10.1.15. Variable: SerAuxHardware

The following section contains a detailed description of the variable SerAuxHardware.

Variable Overview

Variable Name	Description
SerAuxHardware	Hardware settings for Aux Interface (RS232, RS422 / 485)

Communication Name	SIAuxHw
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	424
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_RS232	
	1	TX_RS485_2WIRE	
	2	TX_RS422_485_4WIRE	

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Variable Telegram Syntax

Read Variable:				
`sRN SIAuxHw`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxHw	String	7	Hardware settings for Aux Interface (RS232, RS422 / 485)

Read Variable Response:				
`sRA SIAuxHw <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxHw	String	7	Hardware settings for Aux Interface (RS232, RS422 / 485)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN SIAuxHw <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxHw	String	7	Hardware settings for Aux Interface (RS232, RS422 / 485)
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA SIAuxHw`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxHw	String	7	Hardware settings for Aux Interface (RS232, RS422 / 485)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIAuxHw[ETX]`
Read Variable Response:	`[STX]sRA SIAuxHw 0[ETX]`
Write Variable:	`[STX]sWN SIAuxHw 0[ETX]`
Write Variable Response:	`[STX]sWA SIAuxHw[ETX]`

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2.10.1.16. Variable: SerAuxEnHB

The following section contains a detailed description of the variable SerAuxEnHB.

Variable Overview

Variable Name	Description
SerAuxEnHB	Enable heartbeat on Auxinterface

Communication Name	SIAuxEnHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	425
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN SIAuxEnHB
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxEnHB	String	9	Enable heartbeat on Auxinterface

Read Variable Response:

```
sRA SIAuxEnHB <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxEnHB	String	9	Enable heartbeat on Auxinterface
Variable Data	data	Bool	1	

Write Variable:

```
sWN SIAuxEnHB <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxEnHB	String	9	Enable heartbeat on Auxinterface
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA SIAuxEnHB
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxEnHB	String	9	Enable heartbeat on Auxinterface

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIAuxEnHB[ETX]`
Read Variable Response:	`[STX]sRA SIAuxEnHB 0[ETX]`
Write Variable:	`[STX]sWN SIAuxEnHB 0[ETX]`
Write Variable Response:	`[STX]sWA SIAuxEnHB[ETX]`

2.10.1.17. Variable: SerAuxHBInterval

The following section contains a detailed description of the variable SerAuxHBInterval.

Variable Overview

Variable Name	Description
SerAuxHBInterval	Heartbeat interval on Auxinterface

Communication Name	SIAuxHBInt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	426
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..600
Initialisation	30
Physical Unit	s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN SIAuxHBInt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxHBInt	String	10	Heartbeat interval on Auxinterface

Read Variable Response:

```
sRA SIAuxHBInt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxHBInt	String	10	Heartbeat interval on Auxinterface
Variable Data	data	UInt	2	

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Write Variable:				
sWN SIAuxHBInt <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxHBInt	String	10	Heartbeat interval on Auxinterface
Variable Data	data	UInt	2	

Write Variable Response:				
sWA SIAuxHBInt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxHBInt	String	10	Heartbeat interval on Auxinterface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIAuxHBInt[ETX]
Read Variable Response:	[STX]sRA SIAuxHBInt 1E[ETX]
Write Variable:	[STX]sWN SIAuxHBInt 1E[ETX]
Write Variable Response:	[STX]sWA SIAuxHBInt[ETX]

2.10.1.18. Variable: SerAuxRetrHB

The following section contains a detailed description of the variable SerAuxRetrHB.

Variable Overview

Variable Name	Description
SerAuxRetrHB	Retrigger heartbeat on Auxinterface

Communication Name	SIAuxRetrHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	427
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN SIAuxRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxRetrHB	String	11	Retrigger heartbeat on Auxinterface

Read Variable Response:				
`sRA SIAuxRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxRetrHB	String	11	Retrigger heartbeat on Auxinterface
Variable Data	data	Bool	1	

Write Variable:				
`sWN SIAuxRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxRetrHB	String	11	Retrigger heartbeat on Auxinterface
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA SIAuxRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxRetrHB	String	11	Retrigger heartbeat on Auxinterface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIAuxRetrHB[ETX]`
Read Variable Response:	`[STX]sRA SIAuxRetrHB 1[ETX]`
Write Variable:	`[STX]sWN SIAuxRetrHB 1[ETX]`
Write Variable Response:	`[STX]sWA SIAuxRetrHB[ETX]`

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2.10.1.19. Variable: SerAuxInputHandling

The following section contains a detailed description of the variable SerAuxInputHandling.

Variable Overview

Variable Name	Description
SerAuxInputHandling	Handling method for Input data on serial aux interface

Communication Name	SIAuxtInp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	428
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_INPUT_DATA	
	1	TX_INPUT_DATA_FORWARDING	
	2	TX_INPUT_DATA_AUXRESULT	
	3	TX_INPUT_DATA_STRING_FOR_OUTFORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN SIAuxtInp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIAuxtInp	String	9	Handling method for Input data on serial aux interface

Read Variable Response:

```
sRA SIAuxtInp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIAuxtInp	String	9	Handling method for Input data on serial aux interface
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SIAuxtInp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIAuxtInp	String	9	Handling method for Input data on serial aux interface
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SIAuxtInp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIAuxtInp	String	9	Handling method for Input data on serial aux interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIAuxtInp[ETX]
Read Variable Response:	[STX]sRA SIAuxtInp 0[ETX]
Write Variable:	[STX]sWN SIAuxtInp 0[ETX]
Write Variable Response:	[STX]sWA SIAuxtInp[ETX]

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2.11. Interface Block: GeneralCfgEthernetBase

2.11.1. Group: EthernetBase

2.11.1.1. Variable: EtherIPAddress

The following section contains a detailed description of the variable EtherIPAddress.

Variable Overview

Variable Name	Description
EtherIPAddress	IP-Address of the Device

Communication Name	EIIpAddr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	429
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	4
Default Value	{192,168,0,1}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIIpAddr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIIpAddr	String	8	IP-Address of the Device

Read Variable Response:

```
sRA EIIpAddr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIIpAddr	String	8	IP-Address of the Device
Variable Data	data	Array	4	

Write Variable:

```
sWN EIIpAddr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIIpAddr	String	8	IP-Address of the Device

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Write Variable:				
sWN EIIpAddr <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data	data	Array	4	

Write Variable Response:				
sWA EIIpAddr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIIpAddr	String	8	IP-Address of the Device

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIIpAddr[ETX]
Read Variable Response:	[STX]sRA EIIpAddr C0 A8 0 1[ETX]
Write Variable:	[STX]sWN EIIpAddr C0 A8 0 1[ETX]
Write Variable Response:	[STX]sWA EIIpAddr[ETX]

2.11.1.2. Variable: EtherIPGateAddress

The following section contains a detailed description of the variable EtherIPGateAddress.

Variable Overview

Variable Name	Description
EtherIPGateAddress	IP-Address of the Ethernet Gateway

Communication Name	EIgate
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	430
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		4
Default Value		{0,0,0,0}
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EIgate`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIgate	String	6	IP-Address of the Ethernet Gateway

Read Variable Response:				
`sRA EIgate <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIgate	String	6	IP-Address of the Ethernet Gateway
Variable Data	data	Array	4	

Write Variable:				
`sWN EIgate <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIgate	String	6	IP-Address of the Ethernet Gateway
Variable Data	data	Array	4	

Write Variable Response:				
`sWA EIgate`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIgate	String	6	IP-Address of the Ethernet Gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIgate[ETX]`
Read Variable Response:	`[STX]sRA EIgate 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN EIgate 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA EIgate[ETX]`

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2.11.1.3. Variable: EtherIPMask

The following section contains a detailed description of the variable EtherIPMask.

Variable Overview

Variable Name	Description
EtherIPMask	Netmask

Communication Name	EImask
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	431
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		4
Default Value		{255,255,255,0}
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EImask
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EImask	String	6	Netmask

Read Variable Response:

```
sRA EImask <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EImask	String	6	Netmask
Variable Data	data	Array	4	

Write Variable:

```
sWN EImask <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EImask	String	6	Netmask
Variable Data	data	Array	4	

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Write Variable Response:				
sWA EImask				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EImask	String	6	Netmask

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EImask[ETX]
Read Variable Response:	[STX]sRA EImask FF FF FF 0[ETX]
Write Variable:	[STX]sWN EImask FF FF FF 0[ETX]
Write Variable Response:	[STX]sWA EImask[ETX]

2.11.1.4. Variable: EtherIPSpeedDuplex

The following section contains a detailed description of the variable EtherIPSpeedDuplex.

Variable Overview

Variable Name	Description
EtherIPSpeedDuplex	Speed and Duplex settings

Communication Name	EISpdDpx
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	432
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_AUTO	
	1	TX_10MB_HALF	
	2	TX_10MB_FULL	
	3	TX_100MB_HALF	
	4	TX_100MB_FULL	

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Variable Telegram Syntax

Read Variable:				
`sRN EISpdDpx`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EISpdDpx	String	8	Speed and Duplex settings

Read Variable Response:				
`sRA EISpdDpx <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EISpdDpx	String	8	Speed and Duplex settings
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EISpdDpx <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EISpdDpx	String	8	Speed and Duplex settings
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EISpdDpx`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EISpdDpx	String	8	Speed and Duplex settings

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EISpdDpx[ETX]`
Read Variable Response:	`[STX]sRA EISpdDpx 0[ETX]`
Write Variable:	`[STX]sWN EISpdDpx 0[ETX]`
Write Variable Response:	`[STX]sWA EISpdDpx[ETX]`

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2.11.1.5. Variable: EtherHostProtocol

The following section contains a detailed description of the variable EtherHostProtocol.

Variable Overview

Variable Name	Description
EtherHostProtocol	Protocol for Ethernet Host

Communication Name	EIHstProt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	434
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_OUTPUT_FORMAT_DEF_1	
	2	TX_OUTPUT_FORMAT_DEF_2	
	3	TX_USERDEF_FORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN EIHstProt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstProt	String	9	Protocol for Ethernet Host

Read Variable Response:

```
sRA EIHstProt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstProt	String	9	Protocol for Ethernet Host
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EIHstProt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstProt	String	9	Protocol for Ethernet Host
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EIHstProt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstProt	String	9	Protocol for Ethernet Host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstProt[ETX]
Read Variable Response:	[STX]sRA EIHstProt 1[ETX]
Write Variable:	[STX]sWN EIHstProt 1[ETX]
Write Variable Response:	[STX]sWA EIHstProt[ETX]

2.11.1.6. Variable: EtherHostFTPProtocol

The following section contains a detailed description of the variable EtherHostFTPProtocol.

Variable Overview

Variable Name	Description
EtherHostFTPProtocol	Protocol for Ethernet Host FTP client

Communication Name	EIHstFTPProt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	435
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_OUTPUT_FORMAT_DEF_1	
	2	TX_OUTPUT_FORMAT_DEF_2	

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstFTPProt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstFTPProt	String	12	Protocol for Ethernet Host FTP client

Read Variable Response:				
`sRA EIHstFTPProt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstFTPProt	String	12	Protocol for Ethernet Host FTP client
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIHstFTPProt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstFTPProt	String	12	Protocol for Ethernet Host FTP client
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIHstFTPProt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstFTPProt	String	12	Protocol for Ethernet Host FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstFTPProt[ETX]`
Read Variable Response:	`[STX]sRA EIHstFTPProt 0[ETX]`
Write Variable:	`[STX]sWN EIHstFTPProt 0[ETX]`
Write Variable Response:	`[STX]sWA EIHstFTPProt[ETX]`

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2.11.1.7. Variable: EtherHostFTPUsername

The following section contains a detailed description of the variable EtherHostFTPUsername.

Variable Overview

Variable Name	Description
EtherHostFTPUsername	Username of Host FTP client

Communication Name	EIHstFTPClntUsrNm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	436
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	anonymous

Variable Telegram Syntax

Read Variable:

```
sRN EIHstFTPClntUsrNm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstFTPClntUsrNm	String	17	Username of Host FTP client

Read Variable Response:

```
sRA EIHstFTPClntUsrNm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstFTPClntUsrNm	String	17	Username of Host FTP client
Variable Data	data	FlexString	20	

Write Variable:

```
sWN EIHstFTPClntUsrNm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstFTPClntUsrNm	String	17	Username of Host FTP client
Variable Data	data	FlexString	20	

Write Variable Response:

```
sWA EIHstFTPClntUsrNm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstFTPClntUsrNm	String	17	Username of Host FTP client

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstFTPClntUsrNm[ETX]`
Read Variable Response:	`[STX]sRA EIHstFTPClntUsrNm 9 anonymous[ETX]`
Write Variable:	`[STX]sWN EIHstFTPClntUsrNm +9 anonymous[ETX]`
Write Variable Response:	`[STX]sWA EIHstFTPClntUsrNm[ETX]`

2.11.1.8. Variable: EtherHostFTPPassword

The following section contains a detailed description of the variable EtherHostFTPPassword.

Variable Overview

Variable Name	Description
EtherHostFTPPassword	Password of Host FTP client

Communication Name	EIHstFTPClntPasWd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	437
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	anonymous

Variable Telegram Syntax

Read Variable:

`sRN EIHstFTPClntPasWd`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstFTPClntPasWd	String	17	Password of Host FTP client

Read Variable Response:

`sRA EIHstFTPClntPasWd <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstFTPClntPasWd	String	17	Password of Host FTP client
Variable Data	data	FlexString	20	

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Write Variable:				
sWN EIHstFTPClntPasWd <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstFTPClntPasWd	String	17	Password of Host FTP client
Variable Data	data	FlexString	20	

Write Variable Response:				
sWA EIHstFTPClntPasWd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstFTPClntPasWd	String	17	Password of Host FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstFTPClntPasWd[ETX]
Read Variable Response:	[STX]sRA EIHstFTPClntPasWd 9 anonymous[ETX]
Write Variable:	[STX]sWN EIHstFTPClntPasWd +9 anonymous[ETX]
Write Variable Response:	[STX]sWA EIHstFTPClntPasWd[ETX]

2.11.1.9. Variable: EtherHostFTPUploadPath

The following section contains a detailed description of the variable EtherHostFTPUploadPath.

Variable Overview

Variable Name	Description
EtherHostFTPUploadPath	Upload Path of Host FTP client

Communication Name	EIHstFTPClntUpPath
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	438
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..100
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstFTPClntUpPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstFTPClntUpPath	String	18	Upload Path of Host FTP client

Read Variable Response:				
`sRA EIHstFTPClntUpPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstFTPClntUpPath	String	18	Upload Path of Host FTP client
Variable Data	data	FlexString	100	

Write Variable:				
`sWN EIHstFTPClntUpPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstFTPClntUpPath	String	18	Upload Path of Host FTP client
Variable Data	data	FlexString	100	

Write Variable Response:				
`sWA EIHstFTPClntUpPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstFTPClntUpPath	String	18	Upload Path of Host FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstFTPClntUpPath[ETX]`
Read Variable Response:	`[STX]sRA EIHstFTPClntUpPath 0[ETX]`
Write Variable:	`[STX]sWN EIHstFTPClntUpPath +0 0[ETX]`
Write Variable Response:	`[STX]sWA EIHstFTPClntUpPath[ETX]`

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2.11.1.10. Variable: EtherHostFTPFilename

The following section contains a detailed description of the variable EtherHostFTPFilename.

Variable Overview

Variable Name	Description
EtherHostFTPFilename	Selector for the filename generation

Communication Name	EIHstFTPFlNm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	439
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEFAULT	
	1	TX_FILENAME_FORMATTER_1	
	2	TX_FILENAME_FORMATTER_2	

Variable Telegram Syntax

Read Variable:

```
sRN EIHstFTPFlNm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstFTPFlNm	String	12	Selector for the filename generation

Read Variable Response:

```
sRA EIHstFTPFlNm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstFTPFlNm	String	12	Selector for the filename generation
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EIHstFTPFlNm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstFTPFlNm	String	12	Selector for the filename generation
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA EIHstFTPFlNm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EIHstFTPFlNm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EIHstFTPFlNm	String	12	Selector for the filename generation

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstFTPFlNm[ETX]
Read Variable Response:	[STX]sRA EIHstFTPFlNm 0[ETX]
Write Variable:	[STX]sWN EIHstFTPFlNm 0[ETX]
Write Variable Response:	[STX]sWA EIHstFTPFlNm[ETX]

2.11.1.11. Variable: EtherHostFTPIPPort

The following section contains a detailed description of the variable EtherHostFTPIPPort.

Variable Overview

Variable Name	Description
EtherHostFTPIPPort	Port for FTP communication Host

Communication Name	EIHstFTPPort
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	440
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	21
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstFTPPort`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstFTPPort	String	12	Port for FTP communication Host

Read Variable Response:				
`sRA EIHstFTPPort <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstFTPPort	String	12	Port for FTP communication Host
Variable Data	data	UInt	2	

Write Variable:				
`sWN EIHstFTPPort <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstFTPPort	String	12	Port for FTP communication Host
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EIHstFTPPort`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstFTPPort	String	12	Port for FTP communication Host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstFTPPort[ETX]`
Read Variable Response:	`[STX]sRA EIHstFTPPort 15[ETX]`
Write Variable:	`[STX]sWN EIHstFTPPort 15[ETX]`
Write Variable Response:	`[STX]sWA EIHstFTPPort[ETX]`

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2.11.1.12. Variable: EtherHostMultiplex

The following section contains a detailed description of the variable EtherHostMultiplex.

Variable Overview

Variable Name	Description
EtherHostMultiplex	Output multiplexer data on ethernet host

Communication Name	EIHstMux
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	441
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EIHstMux
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstMux	String	8	Output multiplexer data on ethernet host

Read Variable Response:

```
sRA EIHstMux <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstMux	String	8	Output multiplexer data on ethernet host
Variable Data	data	Bool	1	

Write Variable:

```
sWN EIHstMux <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstMux	String	8	Output multiplexer data on ethernet host
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA EIHstMux
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstMux	String	8	Output multiplexer data on ethernet host

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstMux[ETX]`
Read Variable Response:	`[STX]sRA EIHstMux 0[ETX]`
Write Variable:	`[STX]sWN EIHstMux 0[ETX]`
Write Variable Response:	`[STX]sWA EIHstMux[ETX]`

2.11.1.13. Variable: EtherHostServerClient

The following section contains a detailed description of the variable EtherHostServerClient.

Variable Overview

Variable Name	Description
EtherHostServerClient	Selects if Ethernet Host is server or client

Communication Name	EIHstSrvClnt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	442
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_SERVER	
	1	TX_CLIENT	
	2	TX_FTP_CLIENT	

Variable Telegram Syntax

Read Variable:				
`sRN EIHstSrvClnt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstSrvClnt	String	12	Selects if Ethernet Host is server or client

Read Variable Response:				
`sRA EIHstSrvClnt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstSrvClnt	String	12	Selects if Ethernet Host is server or client
Variable Data	data	Enum8	1	

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Write Variable:				
sWN EIHstSrvClnt <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstSrvClnt	String	12	Selects if Ethernet Host is server or client
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA EIHstSrvClnt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstSrvClnt	String	12	Selects if Ethernet Host is server or client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstSrvClnt[ETX]
Read Variable Response:	[STX]sRA EIHstSrvClnt 0[ETX]
Write Variable:	[STX]sWN EIHstSrvClnt 0[ETX]
Write Variable Response:	[STX]sWA EIHstSrvClnt[ETX]

2.11.1.14. Variable: EtherHostIPPort

The following section contains a detailed description of the variable EtherHostIPPort.

Variable Overview

Variable Name	Description
EtherHostIPPort	Port for TCP/IP communication Aux

Communication Name	EIHstPort
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	443
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	2112
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstPort`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstPort	String	9	Port for TCP/IP communication Aux

Read Variable Response:				
`sRA EIHstPort <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstPort	String	9	Port for TCP/IP communication Aux
Variable Data	data	UInt	2	

Write Variable:				
`sWN EIHstPort <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstPort	String	9	Port for TCP/IP communication Aux
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EIHstPort`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstPort	String	9	Port for TCP/IP communication Aux

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstPort[ETX]`
Read Variable Response:	`[STX]sRA EIHstPort 840[ETX]`
Write Variable:	`[STX]sWN EIHstPort 840[ETX]`
Write Variable Response:	`[STX]sWA EIHstPort[ETX]`

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2.11.1.15. Variable: EtherHostIPServerAddress

The following section contains a detailed description of the variable EtherHostIPServerAddress.

Variable Overview

Variable Name	Description
EtherHostIPServerAddress	Server address needed if client active

Communication Name	EIHstSrvAddr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	444
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	4
Default Value	{192,168,0,11}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIHstSrvAddr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstSrvAddr	String	12	Server address needed if client active

Read Variable Response:

```
sRA EIHstSrvAddr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstSrvAddr	String	12	Server address needed if client active
Variable Data	data	Array	4	

Write Variable:

```
sWN EIHstSrvAddr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstSrvAddr	String	12	Server address needed if client active
Variable Data	data	Array	4	

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Write Variable Response:				
sWA EIHstSrvAddr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstSrvAddr	String	12	Server address needed if client active

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstSrvAddr[ETX]
Read Variable Response:	[STX]sRA EIHstSrvAddr C0 A8 0 B[ETX]
Write Variable:	[STX]sWN EIHstSrvAddr C0 A8 0 B[ETX]
Write Variable Response:	[STX]sWA EIHstSrvAddr[ETX]

2.11.1.16. Variable: EtherHostCoLaDialect

The following section contains a detailed description of the variable EtherHostCoLaDialect.

Variable Overview

Variable Name	Description
EtherHostCoLaDialect	Selects if Ethernet Host is CoLaA or CoLaB

Communication Name	EIHstCola
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	445
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_COLA_ASCII	
	1	TX_COLA_BINARY	

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstCola`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstCola	String	9	Selects if Ethernet Host is CoLaA or CoLaB

Read Variable Response:				
`sRA EIHstCola <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstCola	String	9	Selects if Ethernet Host is CoLaA or CoLaB
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIHstCola <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstCola	String	9	Selects if Ethernet Host is CoLaA or CoLaB
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIHstCola`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstCola	String	9	Selects if Ethernet Host is CoLaA or CoLaB

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstCola[ETX]`
Read Variable Response:	`[STX]sRA EIHstCola 0[ETX]`
Write Variable:	`[STX]sWN EIHstCola 0[ETX]`
Write Variable Response:	`[STX]sWA EIHstCola[ETX]`

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2.11.1.17. Variable: EtherHostEnHB

The following section contains a detailed description of the variable EtherHostEnHB.

Variable Overview

Variable Name	Description
EtherHostEnHB	Enable heartbeat on Ethernet Host

Communication Name	EIHstEnHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	446
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EIHstEnHB
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstEnHB	String	9	Enable heartbeat on Ethernet Host

Read Variable Response:

```
sRA EIHstEnHB <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstEnHB	String	9	Enable heartbeat on Ethernet Host
Variable Data	data	Bool	1	

Write Variable:

```
sWN EIHstEnHB <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstEnHB	String	9	Enable heartbeat on Ethernet Host
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA EIHstEnHB
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstEnHB	String	9	Enable heartbeat on Ethernet Host

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstEnHB[ETX]`
Read Variable Response:	`[STX]sRA EIHstEnHB 0[ETX]`
Write Variable:	`[STX]sWN EIHstEnHB 0[ETX]`
Write Variable Response:	`[STX]sWA EIHstEnHB[ETX]`

2.11.1.18. Variable: EtherHostHBInterval

The following section contains a detailed description of the variable EtherHostHBInterval.

Variable Overview

Variable Name	Description
EtherHostHBInterval	Heartbeat interval on Ethernet Host

Communication Name	EIHstHBInt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	447
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..600
Initialisation	30
Physical Unit	s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIHstHBInt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstHBInt	String	10	Heartbeat interval on Ethernet Host

Read Variable Response:

```
sRA EIHstHBInt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstHBInt	String	10	Heartbeat interval on Ethernet Host
Variable Data	data	UInt	2	

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Write Variable:				
sWN EIHstHBInt <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstHBInt	String	10	Heartbeat interval on Ethernet Host
Variable Data	data	UInt	2	

Write Variable Response:				
sWA EIHstHBInt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstHBInt	String	10	Heartbeat interval on Ethernet Host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstHBInt[ETX]
Read Variable Response:	[STX]sRA EIHstHBInt 1E[ETX]
Write Variable:	[STX]sWN EIHstHBInt 1E[ETX]
Write Variable Response:	[STX]sWA EIHstHBInt[ETX]

2.11.1.19. Variable: EtherHostRetrHB

The following section contains a detailed description of the variable EtherHostRetrHB.

Variable Overview

Variable Name	Description
EtherHostRetrHB	Retrigger heartbeat on Ethernet Host

Communication Name	EIHstRetrHB
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	448
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstRetrHB	String	11	Retrigger heartbeat on Ethernet Host

Read Variable Response:				
`sRA EIHstRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstRetrHB	String	11	Retrigger heartbeat on Ethernet Host
Variable Data	data	Bool	1	

Write Variable:				
`sWN EIHstRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstRetrHB	String	11	Retrigger heartbeat on Ethernet Host
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA EIHstRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstRetrHB	String	11	Retrigger heartbeat on Ethernet Host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstRetrHB[ETX]`
Read Variable Response:	`[STX]sRA EIHstRetrHB 1[ETX]`
Write Variable:	`[STX]sWN EIHstRetrHB 1[ETX]`
Write Variable Response:	`[STX]sWA EIHstRetrHB[ETX]`

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2.11.1.20. Variable: EtherHostInputHandling

The following section contains a detailed description of the variable EtherHostInputHandling.

Variable Overview

Variable Name	Description
EtherHostInputHandling	Handling method for Input data on ethernet host interface

Communication Name	EIHstInp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	449
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_INPUT_DATA	
	1	TX_INPUT_DATA_FORWARDING	
	2	TX_INPUT_DATA_AUXRESULT	
	3	TX_INPUT_DATA_STRING_FOR_OUTFORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN EIHstInp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstInp	String	8	Handling method for Input data on ethernet host interface

Read Variable Response:

```
sRA EIHstInp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstInp	String	8	Handling method for Input data on ethernet host interface
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EIHstInp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstInp	String	8	Handling method for Input data on ethernet host interface
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EIHstInp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstInp	String	8	Handling method for Input data on ethernet host interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstInp[ETX]
Read Variable Response:	[STX]sRA EIHstInp 0[ETX]
Write Variable:	[STX]sWN EIHstInp 0[ETX]
Write Variable Response:	[STX]sWA EIHstInp[ETX]

2.11.1.21. Variable: EtherAuxProtocol

The following section contains a detailed description of the variable EtherAuxProtocol.

Variable Overview

Variable Name	Description
EtherAuxProtocol	Protocol for Ethernet Aux

Communication Name	EIAuxProt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	450
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_READ_DIAG	
	2	TX_OUTPUT_FORMAT_DEF_1	
	3	TX_OUTPUT_FORMAT_DEF_2	

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Variable Telegram Syntax

Read Variable:				
`sRN EIAuxProt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIAuxProt	String	9	Protocol for Ethernet Aux

Read Variable Response:				
`sRA EIAuxProt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIAuxProt	String	9	Protocol for Ethernet Aux
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIAuxProt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIAuxProt	String	9	Protocol for Ethernet Aux
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIAuxProt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIAuxProt	String	9	Protocol for Ethernet Aux

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIAuxProt[ETX]`
Read Variable Response:	`[STX]sRA EIAuxProt 1[ETX]`
Write Variable:	`[STX]sWN EIAuxProt 1[ETX]`
Write Variable Response:	`[STX]sWA EIAuxProt[ETX]`

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2.11.1.22. Variable: EtherAuxIPPort

The following section contains a detailed description of the variable EtherAuxIPPort.

Variable Overview

Variable Name	Description
EtherAuxIPPort	Port for TCP/IP communication Aux

Communication Name	EIAuxPort
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	451
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	2111
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIAuxPort
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIAuxPort	String	9	Port for TCP/IP communication Aux

Read Variable Response:

```
sRA EIAuxPort <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIAuxPort	String	9	Port for TCP/IP communication Aux
Variable Data	data	UInt	2	

Write Variable:

```
sWN EIAuxPort <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIAuxPort	String	9	Port for TCP/IP communication Aux
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA EIAuxPort
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIAuxPort	String	9	Port for TCP/IP communication Aux

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIAuxPort[ETX]`
Read Variable Response:	`[STX]sRA EIAuxPort 83F[ETX]`
Write Variable:	`[STX]sWN EIAuxPort 83F[ETX]`
Write Variable Response:	`[STX]sWA EIAuxPort[ETX]`

2.11.1.23. Variable: EtherAuxCoLaDialect

The following section contains a detailed description of the variable EtherAuxCoLaDialect.

Variable Overview

Variable Name	Description
EtherAuxCoLaDialect	Selects if Ethernet Aux is CoLaA or CoLaB

Communication Name	EIAuxCola
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	453
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_COLA_ASCII	
	1	TX_COLA_BINARY	

Variable Telegram Syntax

Read Variable:				
`sRN EIAuxCola`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIAuxCola	String	9	Selects if Ethernet Aux is CoLaA or CoLaB

Read Variable Response:				
`sRA EIAuxCola <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIAuxCola	String	9	Selects if Ethernet Aux is CoLaA or CoLaB
Variable Data	data	Enum8	1	

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Write Variable:				
sWN EIAuxCola <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIAuxCola	String	9	Selects if Ethernet Aux is CoLaA or CoLaB
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA EIAuxCola				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIAuxCola	String	9	Selects if Ethernet Aux is CoLaA or CoLaB

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIAuxCola[ETX]
Read Variable Response:	[STX]sRA EIAuxCola 0[ETX]
Write Variable:	[STX]sWN EIAuxCola 0[ETX]
Write Variable Response:	[STX]sWA EIAuxCola[ETX]

2.11.1.24. Variable: EtherAuxInputHandling

The following section contains a detailed description of the variable EtherAuxInputHandling.

Variable Overview

Variable Name	Description
EtherAuxInputHandling	Handling method for Input data on Ethernet Aux interface

Communication Name	EIAuxInp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	454
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_INPUT_DATA	
	1	TX_INPUT_DATA_FORWARDING	
	2	TX_INPUT_DATA_AUXRESULT	
	3	TX_INPUT_DATA_STRING_FOR_OUTFORMAT	

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Variable Telegram Syntax

Read Variable:				
`sRN EIAuxInp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIAuxInp	String	8	Handling method for Input data on Ethernet Aux interface

Read Variable Response:				
`sRA EIAuxInp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIAuxInp	String	8	Handling method for Input data on Ethernet Aux interface
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIAuxInp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIAuxInp	String	8	Handling method for Input data on Ethernet Aux interface
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIAuxInp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIAuxInp	String	8	Handling method for Input data on Ethernet Aux interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIAuxInp[ETX]`
Read Variable Response:	`[STX]sRA EIAuxInp 0[ETX]`
Write Variable:	`[STX]sWN EIAuxInp 0[ETX]`
Write Variable Response:	`[STX]sWA EIAuxInp[ETX]`

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2.11.1.25. Variable: EtherRDTServerClient

The following section contains a detailed description of the variable EtherRDTServerClient.

Variable Overview

Variable Name	Description
EtherRDTServerClient	Selects if Ethernet RDT400 is inactive or client

Communication Name	EIRDTSrvClnt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	455
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_CLIENT	

Variable Telegram Syntax

Read Variable:				
`sRN EIRDTSrvClnt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIRDTSrvClnt	String	12	Selects if Ethernet RDT400 is inactive or client

Read Variable Response:				
`sRA EIRDTSrvClnt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIRDTSrvClnt	String	12	Selects if Ethernet RDT400 is inactive or client
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIRDTSrvClnt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIRDTSrvClnt	String	12	Selects if Ethernet RDT400 is inactive or client
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIRDTSrvClnt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIRDTSrvClnt	String	12	Selects if Ethernet RDT400 is inactive or client

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIRDTSrvClnt[ETX]`
Read Variable Response:	`[STX]sRA EIRDTSrvClnt 0[ETX]`
Write Variable:	`[STX]sWN EIRDTSrvClnt 0[ETX]`
Write Variable Response:	`[STX]sWA EIRDTSrvClnt[ETX]`

2.11.1.26. Variable: EtherRDT_ID

The following section contains a detailed description of the variable EtherRDT_ID.

Variable Overview

Variable Name	Description
EtherRDT_ID	ID for RDT400 communication RDT400

Communication Name	EIRDTID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	456
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..99
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN EIRDTID`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIRDTID	String	7	ID for RDT400 communication RDT400

Read Variable Response:

`sRA EIRDTID <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIRDTID	String	7	ID for RDT400 communication RDT400
Variable Data	data	UInt	2	

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Write Variable:				
sWN EIRDTID <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIRDTID	String	7	ID for RDT400 communication RDT400
Variable Data	data	UInt	2	

Write Variable Response:				
sWA EIRDTID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIRDTID	String	7	ID for RDT400 communication RDT400

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIRDTID[ETX]
Read Variable Response:	[STX]sRA EIRDTID 0[ETX]
Write Variable:	[STX]sWN EIRDTID 0[ETX]
Write Variable Response:	[STX]sWA EIRDTID[ETX]

2.11.1.27. Variable: EtherRDTIPPort

The following section contains a detailed description of the variable EtherRDTIPPort.

Variable Overview

Variable Name	Description
EtherRDTIPPort	Port for TCP/IP communication RDT400

Communication Name	EIRDTPort
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	457
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	2001
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EIRDTPort`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIRDTPort	String	9	Port for TCP/IP communication RDT400

Read Variable Response:				
`sRA EIRDTPort <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIRDTPort	String	9	Port for TCP/IP communication RDT400
Variable Data	data	UInt	2	

Write Variable:				
`sWN EIRDTPort <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIRDTPort	String	9	Port for TCP/IP communication RDT400
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EIRDTPort`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIRDTPort	String	9	Port for TCP/IP communication RDT400

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIRDTPort[ETX]`
Read Variable Response:	`[STX]sRA EIRDTPort 7D1[ETX]`
Write Variable:	`[STX]sWN EIRDTPort 7D1[ETX]`
Write Variable Response:	`[STX]sWA EIRDTPort[ETX]`

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2.11.1.28. Variable: EtherRDTIPServerAddress

The following section contains a detailed description of the variable EtherRDTIPServerAddress.

Variable Overview

Variable Name	Description
EtherRDTIPServerAddress	Server address needed if client active

Communication Name	EIRDTSrvAddr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	458
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	4
Default Value	{192,168,0,20}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIRDTSrvAddr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIRDTSrvAddr	String	12	Server address needed if client active

Read Variable Response:

```
sRA EIRDTSrvAddr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIRDTSrvAddr	String	12	Server address needed if client active
Variable Data	data	Array	4	

Write Variable:

```
sWN EIRDTSrvAddr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIRDTSrvAddr	String	12	Server address needed if client active
Variable Data	data	Array	4	

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Write Variable Response:				
sWA EIRDTSrvAddr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIRDTSrvAddr	String	12	Server address needed if client active

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIRDTSrvAddr[ETX]
Read Variable Response:	[STX]sRA EIRDTSrvAddr C0 A8 0 14[ETX]
Write Variable:	[STX]sWN EIRDTSrvAddr C0 A8 0 14[ETX]
Write Variable Response:	[STX]sWA EIRDTSrvAddr[ETX]

2.11.1.29. Method: EthernetUpdate

The following section contains a detailed description of the method EthernetUpdate.

Method Overview

Method Name	Description
EthernetUpdate	updates the ethernet connection

Communication Name	mEthUpdt
Sopas Index	66
Invocation Access	AuthorizedClient

Method Telegram Syntax

Method Invocation:				
sMN mEthUpdt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mEthUpdt	String	8	updates the ethernet connection

Method Return Value:				
sAN mEthUpdt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mEthUpdt	String	8	updates the ethernet connection

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mEthUpdt[ETX]`
Method Return Value:	`[STX]sAN mEthUpdt[ETX]`

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2.11.2. Group: FTPServer

2.11.2.1. Variable: FTPSrvEnabled

The following section contains a detailed description of the variable FTPSrvEnabled.

Variable Overview

Variable Name	Description
FTPSrvEnabled	Enables / disables the FTP server

Communication Name	FTPSEnable
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	475
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN FTPSEnable
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTPSEnable	String	10	Enables / disables the FTP server

Read Variable Response:

```
sRA FTPSEnable <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTPSEnable	String	10	Enables / disables the FTP server
Variable Data	data	Bool	1	

Write Variable:

```
sWN FTPSEnable <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTPSEnable	String	10	Enables / disables the FTP server
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA FTPSEnable
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA FTPSEnable				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	FTPSEnable	String	10	Enables / disables the FTP server

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FTPSEnable[ETX]
Read Variable Response:	[STX]sRA FTPSEnable 0[ETX]
Write Variable:	[STX]sWN FTPSEnable 0[ETX]
Write Variable Response:	[STX]sWA FTPSEnable[ETX]

2.11.2.2. Variable: FTPSrvUsrPassword

The following section contains a detailed description of the variable FTPSrvUsrPassword.

Variable Overview

Variable Name	Description
FTPSrvUsrPassword	Password of FTP server user

Communication Name	FTPSUsrPasWd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	476
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	anonymous

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Variable Telegram Syntax

Read Variable:				
`sRN FTPSUsrPasWd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTPSUsrPasWd	String	12	Password of FTP server user

Read Variable Response:				
`sRA FTPSUsrPasWd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTPSUsrPasWd	String	12	Password of FTP server user
Variable Data	data	FlexString	20	

Write Variable:				
`sWN FTPSUsrPasWd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTPSUsrPasWd	String	12	Password of FTP server user
Variable Data	data	FlexString	20	

Write Variable Response:				
`sWA FTPSUsrPasWd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTPSUsrPasWd	String	12	Password of FTP server user

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTPSUsrPasWd[ETX]`
Read Variable Response:	`[STX]sRA FTPSUsrPasWd 9 anonymous[ETX]`
Write Variable:	`[STX]sWN FTPSUsrPasWd +9 anonymous[ETX]`
Write Variable Response:	`[STX]sWA FTPSUsrPasWd[ETX]`

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2.11.2.3. Variable: FTPSrvUsrName

The following section contains a detailed description of the variable FTPSrvUsrName.

Variable Overview

Variable Name	Description
FTPSrvUsrName	Username of FTP server user

Communication Name	FTPSUsrNm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	477
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	anonymous

Variable Telegram Syntax

Read Variable:

```
sRN FTPSUsrNm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTPSUsrNm	String	9	Username of FTP server user

Read Variable Response:

```
sRA FTPSUsrNm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTPSUsrNm	String	9	Username of FTP server user
Variable Data	data	FlexString	20	

Write Variable:

```
sWN FTPSUsrNm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTPSUsrNm	String	9	Username of FTP server user
Variable Data	data	FlexString	20	

Write Variable Response:

```
sWA FTPSUsrNm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTPSUsrNm	String	9	Username of FTP server user

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTPSUsrNm[ETX]`
Read Variable Response:	`[STX]sRA FTPSUsrNm 9 anonymous[ETX]`
Write Variable:	`[STX]sWN FTPSUsrNm +9 anonymous[ETX]`
Write Variable Response:	`[STX]sWA FTPSUsrNm[ETX]`

2.11.2.4. Variable: FTPSrvPort

The following section contains a detailed description of the variable FTPSrvPort.

Variable Overview

Variable Name	Description
FTPSrvPort	Port for FTP server

Communication Name	FTPSPort
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	478
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	21
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN FTPSPort
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTPSPort	String	8	Port for FTP server

Read Variable Response:

```
sRA FTPSPort <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTPSPort	String	8	Port for FTP server
Variable Data	data	UInt	2	

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Write Variable:				
sWN FTPSPort <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTPSPort	String	8	Port for FTP server
Variable Data	data	UInt	2	

Write Variable Response:				
sWA FTPSPort				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTPSPort	String	8	Port for FTP server

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FTPSPort[ETX]
Read Variable Response:	[STX]sRA FTPSPort 15[ETX]
Write Variable:	[STX]sWN FTPSPort 15[ETX]
Write Variable Response:	[STX]sWA FTPSPort[ETX]

2.11.2.5. Variable: FTPRootPath

The following section contains a detailed description of the variable FTPRootPath.

Variable Overview

Variable Name	Description
FTPRootPath	Root path for FTP server

Communication Name	FTPSRootPath
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	479
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..100
Initialisation	ram:/FTProot

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Variable Telegram Syntax

Read Variable:				
`sRN FTPSRootPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTPSRootPath	String	12	Root path for FTP server

Read Variable Response:				
`sRA FTPSRootPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTPSRootPath	String	12	Root path for FTP server
Variable Data	data	FlexString	100	

Write Variable:				
`sWN FTPSRootPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTPSRootPath	String	12	Root path for FTP server
Variable Data	data	FlexString	100	

Write Variable Response:				
`sWA FTPSRootPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTPSRootPath	String	12	Root path for FTP server

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTPSRootPath[ETX]`
Read Variable Response:	`[STX]sRA FTPSRootPath C ram:/FTProot[ETX]`
Write Variable:	`[STX]sWN FTPSRootPath +12 ram:/FTProot[ETX]`
Write Variable Response:	`[STX]sWA FTPSRootPath[ETX]`

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2.12. Interface Block: GeneralCfgTrigCtrlBase

2.12.1. Group: TrigCtrlBase

2.12.1.1. Variable: TrigControl

The following section contains a detailed description of the variable TrigControl.

Variable Overview

Variable Name	Description
TrigControl	Switch wether trigger is time or track controlled

Communication Name	TCControl
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	480
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_TIME_BASED	
	1	TX_TRACK_BASED	

Variable Telegram Syntax

Read Variable:

```
sRN TCControl
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCControl	String	9	Switch wether trigger is time or track controlled

Read Variable Response:

```
sRA TCControl <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCControl	String	9	Switch wether trigger is time or track controlled
Variable Data	data	Enum8	1	

Write Variable:

```
sWN TCControl <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCControl	String	9	Switch wether trigger is time or track controlled
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA TCControl				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCControl	String	9	Switch wether trigger is time or track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCControl[ETX]
Read Variable Response:	[STX]sRA TCControl 0[ETX]
Write Variable:	[STX]sWN TCControl 0[ETX]
Write Variable Response:	[STX]sWA TCControl[ETX]

2.12.1.2. Variable: TrigStartDelayTime

The following section contains a detailed description of the variable TrigStartDelayTime.

Variable Overview

Variable Name	Description
TrigStartDelayTime	Start delay value if time controlled

Communication Name	TCStartDelTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	481
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	0
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCStartDelTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStartDelTm	String	12	Start delay value if time controlled

Read Variable Response:				
`sRA TCStartDelTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStartDelTm	String	12	Start delay value if time controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN TCStartDelTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStartDelTm	String	12	Start delay value if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA TCStartDelTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStartDelTm	String	12	Start delay value if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStartDelTm[ETX]`
Read Variable Response:	`[STX]sRA TCStartDelTm 0[ETX]`
Write Variable:	`[STX]sWN TCStartDelTm 0[ETX]`
Write Variable Response:	`[STX]sWA TCStartDelTm[ETX]`

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2.12.1.3. Variable: TrigStartDelayTrack

The following section contains a detailed description of the variable TrigStartDelayTrack.

Variable Overview

Variable Name	Description
TrigStartDelayTrack	Start delay value if track controlled

Communication Name	TCStartDelTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	482
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCStartDelTrk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStartDelTrk	String	13	Start delay value if track controlled

Read Variable Response:

```
sRA TCStartDelTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStartDelTrk	String	13	Start delay value if track controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN TCStartDelTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStartDelTrk	String	13	Start delay value if track controlled
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA TCStartDelTrk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStartDelTrk	String	13	Start delay value if track controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStartDelTrk[ETX]`
Read Variable Response:	`[STX]sRA TCStartDelTrk 0[ETX]`
Write Variable:	`[STX]sWN TCStartDelTrk 0[ETX]`
Write Variable Response:	`[STX]sWA TCStartDelTrk[ETX]`

2.12.1.4. Variable: TrigStopTimerTime

The following section contains a detailed description of the variable TrigStopTimerTime.

Variable Overview

Variable Name	Description
TrigStopTimerTime	Stop timer value if time controlled

Communication Name	TCStopTimerTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	483
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50000
Initialisation	1000
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN TCStopTimerTm`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopTimerTm	String	13	Stop timer value if time controlled

Read Variable Response:

`sRA TCStopTimerTm <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopTimerTm	String	13	Stop timer value if time controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN TCStopTimerTm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopTimerTm	String	13	Stop timer value if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA TCStopTimerTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopTimerTm	String	13	Stop timer value if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCStopTimerTm[ETX]
Read Variable Response:	[STX]sRA TCStopTimerTm 3E8[ETX]
Write Variable:	[STX]sWN TCStopTimerTm 3E8[ETX]
Write Variable Response:	[STX]sWA TCStopTimerTm[ETX]

2.12.1.5. Variable: TrigStopTimerTrack

The following section contains a detailed description of the variable TrigStopTimerTrack.

Variable Overview

Variable Name	Description
TrigStopTimerTrack	Stop timer value if track controlled

Communication Name	TCStopTimerTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	484
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..50000
Initialisation	1000
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCStopTimerTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopTimerTrk	String	14	Stop timer value if track controlled

Read Variable Response:				
`sRA TCStopTimerTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopTimerTrk	String	14	Stop timer value if track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN TCStopTimerTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopTimerTrk	String	14	Stop timer value if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA TCStopTimerTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopTimerTrk	String	14	Stop timer value if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStopTimerTrk[ETX]`
Read Variable Response:	`[STX]sRA TCStopTimerTrk 3E8[ETX]`
Write Variable:	`[STX]sWN TCStopTimerTrk 3E8[ETX]`
Write Variable Response:	`[STX]sWA TCStopTimerTrk[ETX]`

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2.12.1.6. Variable: TrigStopDelayTime

The following section contains a detailed description of the variable TrigStopDelayTime.

Variable Overview

Variable Name	Description
TrigStopDelayTime	Stop delay value if time controlled

Communication Name	TCStopDelTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	485
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	0
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCStopDelTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopDelTm	String	11	Stop delay value if time controlled

Read Variable Response:

```
sRA TCStopDelTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopDelTm	String	11	Stop delay value if time controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN TCStopDelTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopDelTm	String	11	Stop delay value if time controlled
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA TCStopDelTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopDelTm	String	11	Stop delay value if time controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStopDelTm[ETX]`
Read Variable Response:	`[STX]sRA TCStopDelTm 0[ETX]`
Write Variable:	`[STX]sWN TCStopDelTm 0[ETX]`
Write Variable Response:	`[STX]sWA TCStopDelTm[ETX]`

2.12.1.7. Variable: TrigStopDelayTrack

The following section contains a detailed description of the variable TrigStopDelayTrack.

Variable Overview

Variable Name	Description
TrigStopDelayTrack	Stop delay value if track controlled

Communication Name	TCStopDelTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	486
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..10000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN TCStopDelTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopDelTrk	String	12	Stop delay value if track controlled

Read Variable Response:				
`sRA TCStopDelTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopDelTrk	String	12	Stop delay value if track controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN TCStopDelTrk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopDelTrk	String	12	Stop delay value if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA TCStopDelTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopDelTrk	String	12	Stop delay value if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCStopDelTrk[ETX]
Read Variable Response:	[STX]sRA TCStopDelTrk 0[ETX]
Write Variable:	[STX]sWN TCStopDelTrk 0[ETX]
Write Variable Response:	[STX]sWA TCStopDelTrk[ETX]

2.12.1.8. Variable: TrigAutoCyclePulseTime

The following section contains a detailed description of the variable TrigAutoCyclePulseTime.

Variable Overview

Variable Name	Description
TrigAutoCyclePulseTime	Duration of Pulse if autocycle mode and time controlled

Communication Name	TCacPlsTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	487
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	1000
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCacPlsTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCacPlsTm	String	9	Duration of Pulse if autocycle mode and time controlled

Read Variable Response:				
`sRA TCacPlsTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCacPlsTm	String	9	Duration of Pulse if autocycle mode and time controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN TCacPlsTm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCacPlsTm	String	9	Duration of Pulse if autocycle mode and time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA TCacPlsTm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCacPlsTm	String	9	Duration of Pulse if autocycle mode and time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCacPlsTm[ETX]`
Read Variable Response:	`[STX]sRA TCacPlsTm 3E8[ETX]`
Write Variable:	`[STX]sWN TCacPlsTm 3E8[ETX]`
Write Variable Response:	`[STX]sWA TCacPlsTm[ETX]`

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2.12.1.9. Variable: TrigAutoCyclePauseTime

The following section contains a detailed description of the variable TrigAutoCyclePauseTime.

Variable Overview

Variable Name	Description
TrigAutoCyclePauseTime	Duration of Pause if autocycle mode and time controlled

Communication Name	TCacPauTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	488
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	1000
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCacPauTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCacPauTm	String	9	Duration of Pause if autocycle mode and time controlled

Read Variable Response:

```
sRA TCacPauTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCacPauTm	String	9	Duration of Pause if autocycle mode and time controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN TCacPauTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCacPauTm	String	9	Duration of Pause if autocycle mode and time controlled
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA TCacPauTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCacPauTm	String	9	Duration of Pause if autocycle mode and time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCacPauTm[ETX]
Read Variable Response:	[STX]sRA TCacPauTm 3E8[ETX]
Write Variable:	[STX]sWN TCacPauTm 3E8[ETX]
Write Variable Response:	[STX]sWA TCacPauTm[ETX]

2.12.1.10. Variable: TrigAutoCyclePulseTrack

The following section contains a detailed description of the variable TrigAutoCyclePulseTrack.

Variable Overview

Variable Name	Description
TrigAutoCyclePulseTrack	Duration of Pulse if autocycle mode and track controlled

Communication Name	TCacPlsTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	489
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	1000
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCacPlsTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCacPlsTrk	String	10	Duration of Pulse if autocycle mode and track controlled

Read Variable Response:				
`sRA TCacPlsTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCacPlsTrk	String	10	Duration of Pulse if autocycle mode and track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN TCacPlsTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCacPlsTrk	String	10	Duration of Pulse if autocycle mode and track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA TCacPlsTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCacPlsTrk	String	10	Duration of Pulse if autocycle mode and track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCacPlsTrk[ETX]`
Read Variable Response:	`[STX]sRA TCacPlsTrk 3E8[ETX]`
Write Variable:	`[STX]sWN TCacPlsTrk 3E8[ETX]`
Write Variable Response:	`[STX]sWA TCacPlsTrk[ETX]`

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2.12.1.11. Variable: TrigAutoCyclePauseTrack

The following section contains a detailed description of the variable TrigAutoCyclePauseTrack.

Variable Overview

Variable Name	Description
TrigAutoCyclePauseTrack	Duration of Pause if autocycle mode and track controlled

Communication Name	TCacPauTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	490
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..10000
Initialisation	1000
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCacPauTrk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCacPauTrk	String	10	Duration of Pause if autocycle mode and track controlled

Read Variable Response:

```
sRA TCacPauTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCacPauTrk	String	10	Duration of Pause if autocycle mode and track controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN TCacPauTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCacPauTrk	String	10	Duration of Pause if autocycle mode and track controlled
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA TCacPauTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCacPauTrk	String	10	Duration of Pause if autocycle mode and track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCacPauTrk[ETX]
Read Variable Response:	[STX]sRA TCacPauTrk 3E8[ETX]
Write Variable:	[STX]sWN TCacPauTrk 3E8[ETX]
Write Variable Response:	[STX]sWA TCacPauTrk[ETX]

2.12.1.12. Variable: TrigCANSource

The following section contains a detailed description of the variable TrigCANSource.

Variable Overview

Variable Name	Description
TrigCANSource	Object trigger distribution source on CAN-Bus

Communication Name	TCcantrgsrc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	491
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	1..63
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCcantrgsrc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCcantrgsrc	String	11	Object trigger distribution source on CAN-Bus

Read Variable Response:				
`sRA TCcantrgsrc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCcantrgsrc	String	11	Object trigger distribution source on CAN-Bus
Variable Data	data	USInt	1	

Write Variable:				
`sWN TCcantrgsrc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCcantrgsrc	String	11	Object trigger distribution source on CAN-Bus
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA TCcantrgsrc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCcantrgsrc	String	11	Object trigger distribution source on CAN-Bus

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCcantrgsrc[ETX]`
Read Variable Response:	`[STX]sRA TCcantrgsrc 1[ETX]`
Write Variable:	`[STX]sWN TCcantrgsrc 1[ETX]`
Write Variable Response:	`[STX]sWA TCcantrgsrc[ETX]`

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2.12.1.13. Variable: TrigDistribute

The following section contains a detailed description of the variable TrigDistribute.

Variable Overview

Variable Name	Description
TrigDistribute	Object trigger distribution on CAN-Bus

Communication Name	TCtrgdist
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	492
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_CAN_1	

Variable Telegram Syntax

Read Variable:				
`sRN TCtrgdist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCtrgdist	String	9	Object trigger distribution on CAN-Bus

Read Variable Response:				
`sRA TCtrgdist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCtrgdist	String	9	Object trigger distribution on CAN-Bus
Variable Data	data	Enum8	1	

Write Variable:				
`sWN TCtrgdist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCtrgdist	String	9	Object trigger distribution on CAN-Bus
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA TCtrgdist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCtrgdist	String	9	Object trigger distribution on CAN-Bus

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCtrgdist[ETX]`
Read Variable Response:	`[STX]sRA TCtrgdist 0[ETX]`
Write Variable:	`[STX]sWN TCtrgdist 0[ETX]`
Write Variable Response:	`[STX]sWA TCtrgdist[ETX]`

2.12.1.14. Variable: TrigExpansionTime

The following section contains a detailed description of the variable TrigExpansionTime.

Variable Overview

Variable Name	Description
TrigExpansionTime	Object trigger expansion behind object if time controlled

Communication Name	TCExpansTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	493
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..3000
Initialisation	0
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCExpansTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCExpansTm	String	10	Object trigger expansion behind object if time controlled

Read Variable Response:

```
sRA TCExpansTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCExpansTm	String	10	Object trigger expansion behind object if time controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN TCExpansTm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCExpansTm	String	10	Object trigger expansion behind object if time controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA TCExpansTm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCExpansTm	String	10	Object trigger expansion behind object if time controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCExpansTm[ETX]
Read Variable Response:	[STX]sRA TCExpansTm 0[ETX]
Write Variable:	[STX]sWN TCExpansTm 0[ETX]
Write Variable Response:	[STX]sWA TCExpansTm[ETX]

2.12.1.15. Variable: TrigExpansionTrack

The following section contains a detailed description of the variable TrigExpansionTrack.

Variable Overview

Variable Name	Description
TrigExpansionTrack	Object trigger expansion behind object if track controlled

Communication Name	TCExpansTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	494
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..30000
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCExpansTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCExpansTrk	String	11	Object trigger expansion behind object if track controlled

Read Variable Response:				
`sRA TCExpansTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCExpansTrk	String	11	Object trigger expansion behind object if track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN TCExpansTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCExpansTrk	String	11	Object trigger expansion behind object if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA TCExpansTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCExpansTrk	String	11	Object trigger expansion behind object if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCExpansTrk[ETX]`
Read Variable Response:	`[STX]sRA TCExpansTrk 32[ETX]`
Write Variable:	`[STX]sWN TCExpansTrk 32[ETX]`
Write Variable Response:	`[STX]sWA TCExpansTrk[ETX]`

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2.12.1.16. Variable: TrigPreExpansionTime

The following section contains a detailed description of the variable TrigPreExpansionTime.

Variable Overview

Variable Name	Description
TrigPreExpansionTime	Object trigger expansion before if time controlled

Communication Name	TCExpPreTm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	495
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..3000
Initialisation	0
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCExpPreTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCExpPreTm	String	10	Object trigger expansion before if time controlled

Read Variable Response:

```
sRA TCExpPreTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCExpPreTm	String	10	Object trigger expansion before if time controlled
Variable Data	data	UInt	2	

Write Variable:

```
sWN TCExpPreTm <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCExpPreTm	String	10	Object trigger expansion before if time controlled
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA TCExpPreTm
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCExpPreTm	String	10	Object trigger expansion before if time controlled

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCExpPreTm[ETX]`
Read Variable Response:	`[STX]sRA TCExpPreTm 0[ETX]`
Write Variable:	`[STX]sWN TCExpPreTm 0[ETX]`
Write Variable Response:	`[STX]sWA TCExpPreTm[ETX]`

2.12.1.17. Variable: TrigPreExpansionTrack

The following section contains a detailed description of the variable TrigPreExpansionTrack.

Variable Overview

Variable Name	Description
TrigPreExpansionTrack	Object trigger expansion before if track controlled

Communication Name	TCExpPreTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	496
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..30000
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCExpPreTrk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCExpPreTrk	String	11	Object trigger expansion before if track controlled

Read Variable Response:

```
sRA TCExpPreTrk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCExpPreTrk	String	11	Object trigger expansion before if track controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN TCExpPreTrk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCExpPreTrk	String	11	Object trigger expansion before if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA TCExpPreTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCExpPreTrk	String	11	Object trigger expansion before if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCExpPreTrk[ETX]
Read Variable Response:	[STX]sRA TCExpPreTrk 32[ETX]
Write Variable:	[STX]sWN TCExpPreTrk 32[ETX]
Write Variable Response:	[STX]sWA TCExpPreTrk[ETX]

2.12.1.18. Variable: ObjTrigSource

The following section contains a detailed description of the variable ObjTrigSource.

Variable Overview

Variable Name	Description
ObjTrigSource	Defines the source of the object trigger

Communication Name	TCObjTrigSrc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	497
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_CLUSTER_TRIGGER	
	1	TX_POLYGON	

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Variable Telegram Syntax

Read Variable:				
`sRN TCObjTrigSrc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCObjTrigSrc	String	12	Defines the source of the object trigger

Read Variable Response:				
`sRA TCObjTrigSrc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCObjTrigSrc	String	12	Defines the source of the object trigger
Variable Data	data	Enum8	1	

Write Variable:				
`sWN TCObjTrigSrc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCObjTrigSrc	String	12	Defines the source of the object trigger
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA TCObjTrigSrc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCObjTrigSrc	String	12	Defines the source of the object trigger

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCObjTrigSrc[ETX]`
Read Variable Response:	`[STX]sRA TCObjTrigSrc 0[ETX]`
Write Variable:	`[STX]sWN TCObjTrigSrc 0[ETX]`
Write Variable Response:	`[STX]sWA TCObjTrigSrc[ETX]`

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2.12.1.19. Variable: MaxIndexValue

The following section contains a detailed description of the variable MaxIndexValue.

Variable Overview

Variable Name	Description
MaxIndexValue	Defines the max. value of the internal index

Communication Name	TCMaxIdxVal
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	498
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	1..2147483647
Initialisation	99999999
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCMaxIdxVal
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCMaxIdxVal	String	11	Defines the max. value of the internal index

Read Variable Response:

```
sRA TCMaxIdxVal <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCMaxIdxVal	String	11	Defines the max. value of the internal index
Variable Data	data	DInt	4	

Write Variable:

```
sWN TCMaxIdxVal <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCMaxIdxVal	String	11	Defines the max. value of the internal index
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA TCMaxIdxVal
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCMaxIdxVal	String	11	Defines the max. value of the internal index

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCMaxIdxVal[ETX]`
Read Variable Response:	`[STX]sRA TCMaxIdxVal 5F5E0FF[ETX]`
Write Variable:	`[STX]sWN TCMaxIdxVal +99999999[ETX]`
Write Variable Response:	`[STX]sWA TCMaxIdxVal[ETX]`

2.12.1.20. Variable: InvalidIndex

The following section contains a detailed description of the variable InvalidIndex.

Variable Overview

Variable Name	Description
InvalidIndex	Defines the invalid index for external index telegram

Communication Name	TCInvalidIdx
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	499
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	0..2147483647
Initialisation	9999
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN TCInvalidIdx
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCInvalidIdx	String	12	Defines the invalid index for external index telegram

Read Variable Response:

```
sRA TCInvalidIdx <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCInvalidIdx	String	12	Defines the invalid index for external index telegram
Variable Data	data	DInt	4	

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Write Variable:				
sWN TCInvalidIdx <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCInvalidIdx	String	12	Defines the invalid index for external index telegram
Variable Data	data	DInt	4	

Write Variable Response:				
sWA TCInvalidIdx				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCInvalidIdx	String	12	Defines the invalid index for external index telegram

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCInvalidIdx[ETX]
Read Variable Response:	[STX]sRA TCInvalidIdx 270F[ETX]
Write Variable:	[STX]sWN TCInvalidIdx +9999[ETX]
Write Variable Response:	[STX]sWA TCInvalidIdx[ETX]

2.12.1.21. Method: ReadingGateOn

The following section contains a detailed description of the method ReadingGateOn.

Method Overview

Method Name	Description
ReadingGateOn	starts a reading gate if parametrized

Communication Name	mTCgateon
Sopas Index	67
Invocation Access	Always

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
sMN mTCgateon				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCgateon	String	9	starts a reading gate if parametrized

Method Return Value:				
sAN mTCgateon <Success>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCgateon	String	9	starts a reading gate if parametrized
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mTCgateon[ETX]
Method Return Value:	[STX]sAN mTCgateon 0[ETX]

2.12.1.22. Method: ReadingGateOff

The following section contains a detailed description of the method ReadingGateOff.

Method Overview

Method Name	Description
ReadingGateOff	stops a reading gate if parametrized

Communication Name	mTCgateoff
Sopas Index	68
Invocation Access	Always

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
sMN mTCgateoff				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCgateoff	String	10	stops a reading gate if parametrized

Method Return Value:				
sAN mTCgateoff <Success>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCgateoff	String	10	stops a reading gate if parametrized
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mTCgateoff[ETX]
Method Return Value:	[STX]sAN mTCgateoff 0[ETX]

2.12.1.23. Method: ReadingGateOnDiag

The following section contains a detailed description of the method ReadingGateOnDiag.

Method Overview

Method Name	Description
ReadingGateOnDiag	starts a reading gate always

Communication Name	mTCgateondiag
Sopas Index	69
Invocation Access	Always

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
sMN mTCgateondiag				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCgateondiag	String	13	starts a reading gate always

Method Return Value:				
sAN mTCgateondiag <Success>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCgateondiag	String	13	starts a reading gate always
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mTCgateondiag[ETX]
Method Return Value:	[STX]sAN mTCgateondiag 0[ETX]

2.12.1.24. Method: ReadingGateOffDiag

The following section contains a detailed description of the method ReadingGateOffDiag.

Method Overview

Method Name	Description
ReadingGateOffDiag	stops a reading gate always

Communication Name	mTCgateoffdiag
Sopas Index	70
Invocation Access	Always

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
sMN mTCgateoffdiag				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCgateoffdiag	String	14	stops a reading gate always

Method Return Value:				
sAN mTCgateoffdiag <Success>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCgateoffdiag	String	14	stops a reading gate always
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mTCgateoffdiag[ETX]
Method Return Value:	[STX]sAN mTCgateoffdiag 0[ETX]

2.12.1.25. Method: DoDiagReading

The following section contains a detailed description of the method DoDiagReading.

Method Overview

Method Name	Description
DoDiagReading	starts the diagnostic reading for the number of reading gates

Communication Name	mTCdodiagread
Sopas Index	71
Invocation Access	Always

Parameters		
NbrReadingGates		
	UDInt	
	Value Range	1..100000
	Initialisation	100
	Physical Unit	
	Physical Unit Factor	0.0

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Parameters	
Timeout	
UDInt	
Value Range	1..100000
Initialisation	10
Physical Unit	s
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mTCdodiagread <NbrReadingGates> <Timeout>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCdodiagread	String	13	starts the diagnostic reading for the number of reading gates
Parameter 1	NbrReadingGates	UDInt	4	
Parameter 2	Timeout	UDInt	4	

Method Return Value:

```
sAN mTCdodiagread
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCdodiagread	String	13	starts the diagnostic reading for the number of reading gates

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mTCdodiagread 64 A[ETX]`
Method Return Value:	`[STX]sAN mTCdodiagread[ETX]`

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2.12.1.26. Method: StartDiagReading

The following section contains a detailed description of the method StartDiagReading.

Method Overview

Method Name	Description
StartDiagReading	starts the diagnostic reading for the number of reading gates and restartes immediately the diagnostic reading, until the EndDiagReading method is called

Communication Name	mTCstartdiagread
Sopas Index	72
Invocation Access	Always

Parameters	
NbrReadingGates	
UDInt	
Value Range	1..100000
Initialisation	100
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mTCstartdiagread <NbrReadingGates>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCstartdiagread	String	16	starts the diagnostic reading for the number of reading gates and restartes immediately the diagnostic reading, until the EndDiagReading method is called
Parameter 1	NbrReadingGates	UDInt	4	

Method Return Value:

```
sAN mTCstartdiagread
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCstartdiagread	String	16	starts the diagnostic reading for the number of reading gates and restartes immediately the diagnostic reading, until the EndDiagReading method is called

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mTCstartdiagread 64[ETX]`
Method Return Value:	`[STX]sAN mTCstartdiagread[ETX]`

2.12.1.27. Method: EndDiagReading

The following section contains a detailed description of the method EndDiagReading.

Method Overview

Method Name	Description
EndDiagReading	finishes the diagnostic reading

Communication Name	mTCenddiagread
Sopas Index	73
Invocation Access	Always

Method Telegram Syntax

Method Invocation:

`sMN mTCenddiagread`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCenddiagread	String	14	finishes the diagnostic reading

Method Return Value:

`sAN mTCenddiagread`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCenddiagread	String	14	finishes the diagnostic reading

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mTCenddiagread[ETX]`
Method Return Value:	`[STX]sAN mTCenddiagread[ETX]`

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2.13. Interface Block: GeneralCfgFileSystemBase

2.13.1. Group: FileSystemBase

2.13.1.1. Method: CreateFSInfo

The following section contains a detailed description of the method CreateFSInfo.

Method Overview

Method Name	Description
CreateFSInfo	Creates the XML file

Communication Name	mFSCrtFSnfo
Sopas Index	74
Invocation Access	Always

Return Values		
FileHandle		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
Size		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:				
`sMN mFSCrtFSnfo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSCrtFSnfo	String	11	Creates the XML file

Method Response:				
`sMA mFSCrtFSnfo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSCrtFSnfo	String	11	Creates the XML file

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Method Return Value:				
sAN mFSCrtFSnfo <FileHandle> <Size>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSCrtFSnfo	String	11	Creates the XML file
Return Value 1	FileHandle	UDInt	4	
Return Value 2	Size	UDInt	4	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mFSCrtFSnfo[ETX]
Method Response:	[STX]sMA mFSCrtFSnfo[ETX]
Method Return Value:	[STX]sAN mFSCrtFSnfo 0 0[ETX]

2.13.1.2. Method: GetFSInfo

The following section contains a detailed description of the method GetFSInfo.

Method Overview

Method Name	Description
GetFSInfo	get the xml file created by method "CreateFSInfo"

Communication Name	mFSGetFSnfo
Sopas Index	75
Invocation Access	Always

Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
State	
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Return Values	
Data	
FlexString	
Length	0..1024
Initialisation	

Method Telegram Syntax

Method Invocation:				
`sMN mFSGetFSnfo <FileHandle>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSGetFSnfo	String	11	get the xml file created by method "CreateFSInfo"
Parameter 1	FileHandle	UDInt	4	

Method Response:				
`sMA mFSGetFSnfo`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSGetFSnfo	String	11	get the xml file created by method "CreateFSInfo"

Method Return Value:				
`sAN mFSGetFSnfo <State> <Data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSGetFSnfo	String	11	get the xml file created by method "CreateFSInfo"
Return Value 1	State	UInt	2	
Return Value 2	Data	FlexString	1024	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFSGetFSnfo 0[ETX]`
Method Response:	`[STX]sMA mFSGetFSnfo[ETX]`
Method Return Value:	`[STX]sAN mFSGetFSnfo 0 0[ETX]`

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2.13.1.3. Method: OpenFile

The following section contains a detailed description of the method OpenFile.

Method Overview

Method Name	Description
OpenFile	Open selected file

Communication Name	mFSOpFile
Sopas Index	76
Invocation Access	Always

Parameters		
Path		
	FlexString	
	Length	0..256
	Initialisation	
Mode		
	FlexString	
	Length	0..5
	Initialisation	

Return Values		
State		
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
FileHandle		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mFSOpFile <Path> <Mode>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSOpFile	String	9	Open selected file
Parameter 1	Path	FlexString	256	
Parameter 2	Mode	FlexString	5	

Method Response:				
`sMA mFSOpFile`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSOpFile	String	9	Open selected file

Method Return Value:				
`sAN mFSOpFile <State> <FileHandle>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSOpFile	String	9	Open selected file
Return Value 1	State	UInt	2	
Return Value 2	FileHandle	UDInt	4	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFSOpFile +0 0 +0 0[ETX]`
Method Response:	`[STX]sMA mFSOpFile[ETX]`
Method Return Value:	`[STX]sAN mFSOpFile 0 0[ETX]`

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2.13.1.4. Method: CloseFile

The following section contains a detailed description of the method CloseFile.

Method Overview

Method Name	Description
CloseFile	Close selected file

Communication Name	mFSClFile
Sopas Index	77
Invocation Access	Always

Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
State	
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mFSClFile <FileHandle>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSClFile	String	9	Close selected file
Parameter 1	FileHandle	UDInt	4	

Method Response:

```
sMA mFSClFile
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSClFile	String	9	Close selected file

Method Return Value:

```
sAN mFSClFile <State>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSClFile	String	9	Close selected file

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Method Return Value:				
sAN mFSClFile <State>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Return Value 1	State	UInt	2	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mFSClFile 0[ETX]
Method Response:	[STX]sMA mFSClFile[ETX]
Method Return Value:	[STX]sAN mFSClFile 0[ETX]

2.13.1.5. Method: DeleteFile

The following section contains a detailed description of the method DeleteFile.

Method Overview

Method Name	Description
DeleteFile	Delete selected file

Communication Name	mFSDelFile
Sopas Index	78
Invocation Access	Always

Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
State	
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mFSDelFile <FileHandle>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSDelFile	String	10	Delete selected file
Parameter 1	FileHandle	UDInt	4	

Method Response:				
`sMA mFSDelFile`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSDelFile	String	10	Delete selected file

Method Return Value:				
`sAN mFSDelFile <State>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSDelFile	String	10	Delete selected file
Return Value 1	State	UInt	2	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFSDelFile 0[ETX]`
Method Response:	`[STX]sMA mFSDelFile[ETX]`
Method Return Value:	`[STX]sAN mFSDelFile 0[ETX]`

2.13.1.6. Method: ReadFile

The following section contains a detailed description of the method ReadFile.

Method Overview

Method Name	Description
ReadFile	Read selected file

Communication Name	mFSRdFile
Sopas Index	79
Invocation Access	Always

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Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
State	
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
Data	
FlexString	
Length	0..1024
Initialisation	
SequenceNumber	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mFSRdFile <FileHandle>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSRdFile	String	9	Read selected file
Parameter 1	FileHandle	UDInt	4	

Method Response:

```
sMA mFSRdFile
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSRdFile	String	9	Read selected file

Method Return Value:

```
sAN mFSRdFile <State> <Data> <SequenceNumber>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSRdFile	String	9	Read selected file
Return Value 1	State	UInt	2	
Return Value 2	Data	FlexString	1024	
Return Value 3	SequenceNumber	UDInt	4	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFSRdFile 0[ETX]`
Method Response:	`[STX]sMA mFSRdFile[ETX]`
Method Return Value:	`[STX]sAN mFSRdFile 0 0 0[ETX]`

2.13.1.7. Method: WriteFile

The following section contains a detailed description of the method WriteFile.

Method Overview

Method Name	Description
WriteFile	Write selected file

Communication Name	mFSWrFile
Sopas Index	80
Invocation Access	Always

Parameters	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
Data	
FlexString	
Length	0..1024
Initialisation	
SequenceNumber	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
State	
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mFSWrFile <FileHandle> <Data> <SequenceNumber>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSWrFile	String	9	Write selected file
Parameter 1	FileHandle	UDInt	4	
Parameter 2	Data	FlexString	1024	
Parameter 3	SequenceNumber	UDInt	4	

Method Response:				
`sMA mFSWrFile`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSWrFile	String	9	Write selected file

Method Return Value:				
`sAN mFSWrFile <State>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSWrFile	String	9	Write selected file
Return Value 1	State	UInt	2	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFSWrFile 0 +0 0 0[ETX]`
Method Response:	`[STX]sMA mFSWrFile[ETX]`
Method Return Value:	`[STX]sAN mFSWrFile 0[ETX]`

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2.13.1.8. Method: CreateDirectory

The following section contains a detailed description of the method CreateDirectory.

Method Overview

Method Name	Description
CreateDirectory	Create a directory

Communication Name	mFSCrDir
Sopas Index	81
Invocation Access	Always

Parameters		
Path		
	FlexString	
	Length	0..256
	Initialisation	
DirName		
	FlexString	
	Length	0..12
	Initialisation	

Return Values		
State		
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mFSCrDir <Path> <DirName>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSCrDir	String	8	Create a directory
Parameter 1	Path	FlexString	256	
Parameter 2	DirName	FlexString	12	

Method Response:

```
sMA mFSCrDir
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSCrDir	String	8	Create a directory

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Method Return Value:				
sAN mFSCrDir <State>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSCrDir	String	8	Create a directory
Return Value 1	State	UInt	2	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mFSCrDir +0 0 +0 0[ETX]
Method Response:	[STX]sMA mFSCrDir[ETX]
Method Return Value:	[STX]sAN mFSCrDir 0[ETX]

2.13.1.9. Method: DeleteDirectory

The following section contains a detailed description of the method DeleteDirectory.

Method Overview

Method Name	Description
DeleteDirectory	Delete selected directory

Communication Name	mFSDelDir
Sopas Index	82
Invocation Access	Always

Parameters		
Path		
	FlexString	
	Length	0..256
	Initialisation	
DirName		
	FlexString	
	Length	0..12
	Initialisation	

Return Values		
State		
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mFSDelDir <Path> <DirName>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSDelDir	String	9	Delete selected directory
Parameter 1	Path	FlexString	256	
Parameter 2	DirName	FlexString	12	

Method Response:				
`sMA mFSDelDir`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSDelDir	String	9	Delete selected directory

Method Return Value:				
`sAN mFSDelDir <State>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSDelDir	String	9	Delete selected directory
Return Value 1	State	UInt	2	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFSDelDir +0 0 +0 0[ETX]`
Method Response:	`[STX]sMA mFSDelDir[ETX]`
Method Return Value:	`[STX]sAN mFSDelDir 0[ETX]`

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2.13.1.10. Method: CreateDirInfo

The following section contains a detailed description of the method CreateDirInfo.

Method Overview

Method Name	Description
CreateDirInfo	Creates the XML file for a specified path

Communication Name	mFSCrtDirInfo
Sopas Index	83
Invocation Access	Always

Parameters	
Path	
FlexString	
Length	0..256
Initialisation	

Return Values	
FileHandle	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
Size	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mFSCrtDirInfo <Path>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFSCrtDirInfo	String	13	Creates the XML file for a specified path
Parameter 1	Path	FlexString	256	

Method Response:

```
sMA mFSCrtDirInfo
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mFSCrtDirInfo	String	13	Creates the XML file for a specified path

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Method Return Value:				
sAN mFSCrtDirInfo <FileHandle> <Size>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFSCrtDirInfo	String	13	Creates the XML file for a specified path
Return Value 1	FileHandle	UDInt	4	
Return Value 2	Size	UDInt	4	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mFSCrtDirInfo +0 0[ETX]
Method Response:	[STX]sMA mFSCrtDirInfo[ETX]
Method Return Value:	[STX]sAN mFSCrtDirInfo 0 0[ETX]

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2.14. Interface Block: GeneralCfgFocusCtrlBase

2.14.1. Group: FocusControlBaseCfg

2.14.1.1. Variable: FocusControlMode

The following section contains a detailed description of the variable FocusControlMode.

Variable Overview

Variable Name	Description
FocusControlMode	Major mode of focus control

Communication Name	FCctrlmd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	518
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_FIX_FOCUS	
	1	TX_DYNAMIC_FOCUS	
	2	TX_AUTOFOCUS	

Variable Telegram Syntax

Read Variable:

```
sRN FCctrlmd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FCctrlmd	String	8	Major mode of focus control

Read Variable Response:

```
sRA FCctrlmd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FCctrlmd	String	8	Major mode of focus control
Variable Data	data	Enum8	1	

Write Variable:

```
sWN FCctrlmd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FCctrlmd	String	8	Major mode of focus control
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA FCctrlmd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FCctrlmd	String	8	Major mode of focus control

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FCctrlmd[ETX]
Read Variable Response:	[STX]sRA FCctrlmd 0[ETX]
Write Variable:	[STX]sWN FCctrlmd 0[ETX]
Write Variable Response:	[STX]sWA FCctrlmd[ETX]

2.14.1.2. Variable: FocusControlDefaultDistance

The following section contains a detailed description of the variable FocusControlDefaultDistance.

Variable Overview

Variable Name	Description
FocusControlDefaultDistance	default focus distance in mm

Communication Name	FCdefdis
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	519
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	20..500
Initialisation	285
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN FCdefdis`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FCdefdis	String	8	default focus distance in mm

Read Variable Response:				
`sRA FCdefdis <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FCdefdis	String	8	default focus distance in mm
Variable Data	data	UInt	2	

Write Variable:				
`sWN FCdefdis <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FCdefdis	String	8	default focus distance in mm
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA FCdefdis`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FCdefdis	String	8	default focus distance in mm

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FCdefdis[ETX]`
Read Variable Response:	`[STX]sRA FCdefdis 11D[ETX]`
Write Variable:	`[STX]sWN FCdefdis 11D[ETX]`
Write Variable Response:	`[STX]sWA FCdefdis[ETX]`

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2.14.1.3. Variable: FocusControlDynDistConfigs

The following section contains a detailed description of the variable FocusControlDynDistConfigs.

Variable Overview

Variable Name	Description
FocusControlDynDistConfigs	List of dynamic distance configurations

Communication Name	FCdynconfigs
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	520
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	8
Default Value	{150,215,285,285,285,285,285,285}
UInt	
Value Range	20..500
Initialisation	285
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN FCdynconfigs
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FCdynconfigs	String	12	List of dynamic distance configurations

Read Variable Response:

```
sRA FCdynconfigs <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FCdynconfigs	String	12	List of dynamic distance configurations
Variable Data	data	Array	16	

Write Variable:

```
sWN FCdynconfigs <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FCdynconfigs	String	12	List of dynamic distance configurations
Variable Data	data	Array	16	

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Write Variable Response:				
sWA FCdynconfigs				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FCdynconfigs	String	12	List of dynamic distance configurations

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FCdynconfigs[ETX]
Read Variable Response:	[STX]sRA FCdynconfigs 96 D7 11D 11D 11D 11D 11D 11D[ETX]
Write Variable:	[STX]sWN FCdynconfigs 96 D7 11D 11D 11D 11D 11D 11D[ETX]
Write Variable Response:	[STX]sWA FCdynconfigs[ETX]

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2.15. Interface Block: GeneralCalibOscMirrorBase

2.15.1. Group: OscMirrorBaseCalib

2.15.1.1. Method: OMReferenceCourse

The following section contains a detailed description of the method OMReferenceCourse.

Method Overview

Method Name	Description
OMReferenceCourse	Forces the oscillating mirror to execute a reference course

Communication Name	mOMRefCourse
Sopas Index	89
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mOMRefCourse`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mOMRefCourse	String	12	Forces the oscillating mirror to execute a reference course

Method Return Value:				
`sAN mOMRefCourse`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mOMRefCourse	String	12	Forces the oscillating mirror to execute a reference course

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mOMRefCourse[ETX]`
Method Return Value:	`[STX]sAN mOMRefCourse[ETX]`

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2.15.1.2. Method: OMFindZeroIndex

The following section contains a detailed description of the method OMFindZeroIndex.

Method Overview

Method Name	Description
OMFindZeroIndex	Finds the zero index of the oscillating mirror unit

Communication Name	mOMFndZero
Sopas Index	90
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mOMFndZero`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mOMFndZero	String	10	Finds the zero index of the oscillating mirror unit

Method Return Value:				
`sAN mOMFndZero`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mOMFndZero	String	10	Finds the zero index of the oscillating mirror unit

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mOMFndZero[ETX]`
Method Return Value:	`[STX]sAN mOMFndZero[ETX]`

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2.15.1.3. Method: OMCheck

The following section contains a detailed description of the method OMCheck.

Method Overview

Method Name	Description
OMCheck	Forces the oscillating mirror to execute a check procedure

Communication Name	mOMCheck
Sopas Index	91
Invocation Access	Always

Parameters			
Mode			
	Enum8		
	Value	Name	Description
	0	TX_STANDARD	
	1	TX_EXTENDED	

Return Values	
ErrCode	
SInt	
Value Range	-128..127
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mOMCheck <Mode>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mOMCheck	String	8	Forces the oscillating mirror to execute a check procedure
Parameter 1	Mode	Enum8	1	

Method Return Value:

```
sAN mOMCheck <ErrCode>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mOMCheck	String	8	Forces the oscillating mirror to execute a check procedure
Return Value 1	ErrCode	SInt	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mOMCheck 0[ETX]`
Method Return Value:	`[STX]sAN mOMCheck 0[ETX]`

2.15.1.4. Method: OMStep

The following section contains a detailed description of the method OMStep.

Method Overview

Method Name	Description
OMStep	Executes the given steps on the oscillating mirror

Communication Name	mOMStep
Sopas Index	92
Invocation Access	Always

Parameters			
AbsRel			
	Enum8		
	Value	Name	Description
	0	TX_ABSOLUTE	
	1	TX_RELATIVE	
Direction			
	Enum8		
	Value	Name	Description
	0	TX_FORWARD	
	1	TX_BACKWARD	
OptAll			
	Enum8		
	Value	Name	Description
	0	TX_OPTIMAL	
	1	TX_ALL	
Number			
	UInt		
	Value Range	0..65535	
	Initialisation		
	Physical Unit		
	Physical Unit Factor	0.0	

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Method Telegram Syntax

Method Invocation:				
`sMN mOMStep <AbsRel> <Direction> <OptAll> <Number>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mOMStep	String	7	Executes the given steps on the oscillating mirror
Parameter 1	AbsRel	Enum8	1	
Parameter 2	Direction	Enum8	1	
Parameter 3	OptAll	Enum8	1	
Parameter 4	Number	UInt	2	

Method Return Value:				
`sAN mOMStep`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mOMStep	String	7	Executes the given steps on the oscillating mirror

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mOMStep 0 0 0 0[ETX]`
Method Return Value:	`[STX]sAN mOMStep[ETX]`

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2.16. Interface Block: GeneralCfgOscMirrorBase

2.16.1. Group: OscMirrorBaseCfg

2.16.1.1. Variable: OMOperatingMode

The following section contains a detailed description of the variable OMOperatingMode.

Variable Overview

Variable Name	Description
OMOperatingMode	Oscillating mirror operating mode

Communication Name	OMMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	533
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_CONTINUOUS	
	1	TX_CONTROLLED	
	2	TX_FIX	

Variable Telegram Syntax

Read Variable:

```
sRN OMMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMMode	String	6	Oscillating mirror operating mode

Read Variable Response:

```
sRA OMMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMMode	String	6	Oscillating mirror operating mode
Variable Data	data	Enum8	1	

Write Variable:

```
sWN OMMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMMode	String	6	Oscillating mirror operating mode
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA OMMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMMode	String	6	Oscillating mirror operating mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OMMode[ETX]
Read Variable Response:	[STX]sRA OMMode 0[ETX]
Write Variable:	[STX]sWN OMMode 0[ETX]
Write Variable Response:	[STX]sWA OMMode[ETX]

2.16.1.2. Variable: OMStartCondition

The following section contains a detailed description of the variable OMStartCondition.

Variable Overview

Variable Name	Description
OMStartCondition	Oscillating mirror start condition

Communication Name	OMStartCond
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	534
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_READING_TRIGGER	
	1	TX_SENSOR_2_HI	
	2	TX_SENSOR_2_LO	
	3	TX_COMMAND	

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Variable Telegram Syntax

Read Variable:				
`sRN OMStartCond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMStartCond	String	11	Oscillating mirror start condition

Read Variable Response:				
`sRA OMStartCond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMStartCond	String	11	Oscillating mirror start condition
Variable Data	data	Enum8	1	

Write Variable:				
`sWN OMStartCond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMStartCond	String	11	Oscillating mirror start condition
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA OMStartCond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMStartCond	String	11	Oscillating mirror start condition

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMStartCond[ETX]`
Read Variable Response:	`[STX]sRA OMStartCond 0[ETX]`
Write Variable:	`[STX]sWN OMStartCond 0[ETX]`
Write Variable Response:	`[STX]sWA OMStartCond[ETX]`

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2.16.1.3. Variable: OMStartPositionChoice

The following section contains a detailed description of the variable OMStartPositionChoice.

Variable Overview

Variable Name	Description
OMStartPositionChoice	Oscillating mirror start position choice

Communication Name	OMStartPosChoice
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	535
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_AMPLITUDE_1	
	1	TX_AMPLITUDE_2	

Variable Telegram Syntax

Read Variable:				
`sRN OMStartPosChoice`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMStartPosChoice	String	16	Oscillating mirror start position choice

Read Variable Response:				
`sRA OMStartPosChoice <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMStartPosChoice	String	16	Oscillating mirror start position choice
Variable Data	data	Enum8	1	

Write Variable:				
`sWN OMStartPosChoice <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMStartPosChoice	String	16	Oscillating mirror start position choice
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA OMStartPosChoice`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMStartPosChoice	String	16	Oscillating mirror start position choice

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMStartPosChoice[ETX]`
Read Variable Response:	`[STX]sRA OMStartPosChoice 0[ETX]`
Write Variable:	`[STX]sWN OMStartPosChoice 0[ETX]`
Write Variable Response:	`[STX]sWA OMStartPosChoice[ETX]`

2.16.1.4. Variable: OMStartPosition

The following section contains a detailed description of the variable OMStartPosition.

Variable Overview

Variable Name	Description
OMStartPosition	Oscillating mirror start position

Communication Name	OMStartPos
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	536
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	-200..200
Initialisation	0
Physical Unit	1/10 °
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OMStartPos
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMStartPos	String	10	Oscillating mirror start position

Read Variable Response:

```
sRA OMStartPos <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMStartPos	String	10	Oscillating mirror start position
Variable Data	data	Int	2	

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Write Variable:				
`sWN OMStartPos <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMStartPos	String	10	Oscillating mirror start position
Variable Data	data	Int	2	

Write Variable Response:				
`sWA OMStartPos`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMStartPos	String	10	Oscillating mirror start position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMStartPos[ETX]`
Read Variable Response:	`[STX]sRA OMStartPos 0[ETX]`
Write Variable:	`[STX]sWN OMStartPos +0[ETX]`
Write Variable Response:	`[STX]sWA OMStartPos[ETX]`

2.16.1.5. Variable: OMStartPositionDyn

The following section contains a detailed description of the variable OMStartPositionDyn.

Variable Overview

Variable Name	Description
OMStartPositionDyn	Oscillating mirror start position

Communication Name	OMStartPosDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	537
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	Int	
	Value Range	-200..200
	Initialisation	0
	Physical Unit	1/10 °
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OMStartPosDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMStartPosDyn	String	13	Oscillating mirror start position

Read Variable Response:				
`sRA OMStartPosDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMStartPosDyn	String	13	Oscillating mirror start position
Variable Data	data	Array	16	

Write Variable:				
`sWN OMStartPosDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMStartPosDyn	String	13	Oscillating mirror start position
Variable Data	data	Array	16	

Write Variable Response:				
`sWA OMStartPosDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMStartPosDyn	String	13	Oscillating mirror start position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMStartPosDyn[ETX]`
Read Variable Response:	`[STX]sRA OMStartPosDyn 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN OMStartPosDyn +0 +0 +0 +0 +0 +0 +0 +0[ETX]`
Write Variable Response:	`[STX]sWA OMStartPosDyn[ETX]`

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2.16.1.6. Variable: OMStopCondition

The following section contains a detailed description of the variable OMStopCondition.

Variable Overview

Variable Name	Description
OMStopCondition	Oscillating mirror stop condition

Communication Name	OMStopCond
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	538
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_START_SRC	
	1	TX_N_PERIODS	

Variable Telegram Syntax

Read Variable:				
`sRN OMStopCond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMStopCond	String	10	Oscillating mirror stop condition

Read Variable Response:				
`sRA OMStopCond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMStopCond	String	10	Oscillating mirror stop condition
Variable Data	data	Enum8	1	

Write Variable:				
`sWN OMStopCond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMStopCond	String	10	Oscillating mirror stop condition
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA OMStopCond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMStopCond	String	10	Oscillating mirror stop condition

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMStopCond[ETX]`
Read Variable Response:	`[STX]sRA OMStopCond 0[ETX]`
Write Variable:	`[STX]sWN OMStopCond 0[ETX]`
Write Variable Response:	`[STX]sWA OMStopCond[ETX]`

2.16.1.7. Variable: OMNumPeriods

The following section contains a detailed description of the variable OMNumPeriods.

Variable Overview

Variable Name	Description
OMNumPeriods	Number of periods for stop condition

Communication Name	OMNPeriods
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	539
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	1..255
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OMNPeriods
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMNPeriods	String	10	Number of periods for stop condition

Read Variable Response:

```
sRA OMNPeriods <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMNPeriods	String	10	Number of periods for stop condition
Variable Data	data	USInt	1	

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Write Variable:				
`sWN OMNPeriods <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMNPeriods	String	10	Number of periods for stop condition
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA OMNPeriods`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMNPeriods	String	10	Number of periods for stop condition

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMNPeriods[ETX]`
Read Variable Response:	`[STX]sRA OMNPeriods 1[ETX]`
Write Variable:	`[STX]sWN OMNPeriods 1[ETX]`
Write Variable Response:	`[STX]sWA OMNPeriods[ETX]`

2.16.1.8. Variable: OMPositiveAmplitude

The following section contains a detailed description of the variable OMPositiveAmplitude.

Variable Overview

Variable Name	Description
OMPositiveAmplitude	Positive amplitude (Amplitude phase 1)

Communication Name	OMPosAmpl
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	540
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	0..200
Initialisation	200
Physical Unit	1/10 °
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OMPosAmpl`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMPosAmpl	String	9	Positive amplitude (Amplitude phase 1)

Read Variable Response:				
`sRA OMPosAmpl <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMPosAmpl	String	9	Positive amplitude (Amplitude phase 1)
Variable Data	data	Int	2	

Write Variable:				
`sWN OMPosAmpl <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMPosAmpl	String	9	Positive amplitude (Amplitude phase 1)
Variable Data	data	Int	2	

Write Variable Response:				
`sWA OMPosAmpl`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMPosAmpl	String	9	Positive amplitude (Amplitude phase 1)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMPosAmpl[ETX]`
Read Variable Response:	`[STX]sRA OMPosAmpl C8[ETX]`
Write Variable:	`[STX]sWN OMPosAmpl +200[ETX]`
Write Variable Response:	`[STX]sWA OMPosAmpl[ETX]`

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2.16.1.9. Variable: OMPositiveAmplitudeDyn

The following section contains a detailed description of the variable OMPositiveAmplitudeDyn.

Variable Overview

Variable Name	Description
OMPositiveAmplitudeDyn	Positive amplitude (Amplitude phase 1) dynamic

Communication Name	OMPosAmplDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	541
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	8
Int	
Value Range	0..200
Initialisation	200
Physical Unit	1/10 °
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN OMPosAmplDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMPosAmplDyn	String	12	Positive amplitude (Amplitude phase 1) dynamic

Read Variable Response:				
`sRA OMPosAmplDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMPosAmplDyn	String	12	Positive amplitude (Amplitude phase 1) dynamic
Variable Data	data	Array	16	

Write Variable:				
`sWN OMPosAmplDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMPosAmplDyn	String	12	Positive amplitude (Amplitude phase 1) dynamic
Variable Data	data	Array	16	

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Write Variable Response:				
sWA OMPosAmplDyn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMPosAmplDyn	String	12	Positive amplitude (Amplitude phase 1) dynamic

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OMPosAmplDyn[ETX]
Read Variable Response:	[STX]sRA OMPosAmplDyn C8 C8 C8 C8 C8 C8 C8 C8[ETX]
Write Variable:	[STX]sWN OMPosAmplDyn +200 +200 +200 +200 +200 +200 +200 +200[ETX]
Write Variable Response:	[STX]sWA OMPosAmplDyn[ETX]

2.16.1.10. Variable: OMNegativeAmplitude

The following section contains a detailed description of the variable OMNegativeAmplitude.

Variable Overview

Variable Name	Description
OMNegativeAmplitude	Negative amplitude (Amplitude phase 2)

Communication Name	OMNegAmpl
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	542
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	-200..0
Initialisation	-200
Physical Unit	1/10 °
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OMNegAmpl`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMNegAmpl	String	9	Negative amplitude (Amplitude phase 2)

Read Variable Response:				
`sRA OMNegAmpl <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMNegAmpl	String	9	Negative amplitude (Amplitude phase 2)
Variable Data	data	Int	2	

Write Variable:				
`sWN OMNegAmpl <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMNegAmpl	String	9	Negative amplitude (Amplitude phase 2)
Variable Data	data	Int	2	

Write Variable Response:				
`sWA OMNegAmpl`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMNegAmpl	String	9	Negative amplitude (Amplitude phase 2)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMNegAmpl[ETX]`
Read Variable Response:	`[STX]sRA OMNegAmpl FF38[ETX]`
Write Variable:	`[STX]sWN OMNegAmpl -200[ETX]`
Write Variable Response:	`[STX]sWA OMNegAmpl[ETX]`

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2.16.1.11. Variable: OMNegativeAmplitudeDyn

The following section contains a detailed description of the variable OMNegativeAmplitudeDyn.

Variable Overview

Variable Name	Description
OMNegativeAmplitudeDyn	Negative amplitude (Amplitude phase 2) dynamic

Communication Name	OMNegAmplDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	543
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	Int	
	Value Range	-200..0
	Initialisation	-200
	Physical Unit	1/10 °
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN OMNegAmplDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMNegAmplDyn	String	12	Negative amplitude (Amplitude phase 2) dynamic

Read Variable Response:				
`sRA OMNegAmplDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMNegAmplDyn	String	12	Negative amplitude (Amplitude phase 2) dynamic
Variable Data	data	Array	16	

Write Variable:				
`sWN OMNegAmplDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMNegAmplDyn	String	12	Negative amplitude (Amplitude phase 2) dynamic
Variable Data	data	Array	16	

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Write Variable Response:				
sWA OMNegAmplDyn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMNegAmplDyn	String	12	Negative amplitude (Amplitude phase 2) dynamic

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OMNegAmplDyn[ETX]
Read Variable Response:	[STX]sRA OMNegAmplDyn FF38 FF38 FF38 FF38 FF38 FF38 FF38 FF38[ETX]
Write Variable:	[STX]sWN OMNegAmplDyn -200 -200 -200 -200 -200 -200 -200 -200[ETX]
Write Variable Response:	[STX]sWA OMNegAmplDyn[ETX]

2.16.1.12. Variable: OMPeriodicTime

The following section contains a detailed description of the variable OMPeriodicTime.

Variable Overview

Variable Name	Description
OMPeriodicTime	Periodic time for full oscillation

Communication Name	OMPeriod
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	544
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	160..2000
Initialisation	1000
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OMPeriod`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMPeriod	String	8	Periodic time for full oscillation

Read Variable Response:				
`sRA OMPeriod <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMPeriod	String	8	Periodic time for full oscillation
Variable Data	data	UInt	2	

Write Variable:				
`sWN OMPeriod <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMPeriod	String	8	Periodic time for full oscillation
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA OMPeriod`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMPeriod	String	8	Periodic time for full oscillation

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMPeriod[ETX]`
Read Variable Response:	`[STX]sRA OMPeriod 3E8[ETX]`
Write Variable:	`[STX]sWN OMPeriod 3E8[ETX]`
Write Variable Response:	`[STX]sWA OMPeriod[ETX]`

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2.16.1.13. Variable: OMPeriodicTimeDyn

The following section contains a detailed description of the variable OMPeriodicTimeDyn.

Variable Overview

Variable Name	Description
OMPeriodicTimeDyn	Periodic time for full oscillation

Communication Name	OMPeriodDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	545
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	UInt	
	Value Range	160..2000
	Initialisation	1000
	Physical Unit	ms
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OMPeriodDyn
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMPeriodDyn	String	11	Periodic time for full oscillation

Read Variable Response:

```
sRA OMPeriodDyn <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMPeriodDyn	String	11	Periodic time for full oscillation
Variable Data	data	Array	16	

Write Variable:

```
sWN OMPeriodDyn <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMPeriodDyn	String	11	Periodic time for full oscillation
Variable Data	data	Array	16	

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Write Variable Response:				
sWA OMPeriodDyn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMPeriodDyn	String	11	Periodic time for full oscillation

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OMPeriodDyn[ETX]
Read Variable Response:	[STX]sRA OMPeriodDyn 3E8 3E8 3E8 3E8 3E8 3E8 3E8 3E8[ETX]
Write Variable:	[STX]sWN OMPeriodDyn 3E8 3E8 3E8 3E8 3E8 3E8 3E8 3E8[ETX]
Write Variable Response:	[STX]sWA OMPeriodDyn[ETX]

2.16.1.14. Variable: OMPeriodicTimeRatio

The following section contains a detailed description of the variable OMPeriodicTimeRatio.

Variable Overview

Variable Name	Description
OMPeriodicTimeRatio	Time ratio between phase1 and 2

Communication Name	OMTimeRatio
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	546
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	10..90
Initialisation	50
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN OMTimeRatio`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMTimeRatio	String	11	Time ratio between phase1 and 2

Read Variable Response:				
`sRA OMTimeRatio <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMTimeRatio	String	11	Time ratio between phase1 and 2
Variable Data	data	UInt	2	

Write Variable:				
`sWN OMTimeRatio <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMTimeRatio	String	11	Time ratio between phase1 and 2
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA OMTimeRatio`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMTimeRatio	String	11	Time ratio between phase1 and 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMTimeRatio[ETX]`
Read Variable Response:	`[STX]sRA OMTimeRatio 32[ETX]`
Write Variable:	`[STX]sWN OMTimeRatio 32[ETX]`
Write Variable Response:	`[STX]sWA OMTimeRatio[ETX]`

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2.16.1.15. Variable: OMPeriodicTimeRatioDyn

The following section contains a detailed description of the variable OMPeriodicTimeRatioDyn.

Variable Overview

Variable Name	Description
OMPeriodicTimeRatioDyn	Time ratio between phase1 and 2

Communication Name	OMTimeRatioDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	547
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	8
UInt	
Value Range	10..90
Initialisation	50
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN OMTimeRatioDyn
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMTimeRatioDyn	String	14	Time ratio between phase1 and 2

Read Variable Response:

```
sRA OMTimeRatioDyn <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMTimeRatioDyn	String	14	Time ratio between phase1 and 2
Variable Data	data	Array	16	

Write Variable:

```
sWN OMTimeRatioDyn <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMTimeRatioDyn	String	14	Time ratio between phase1 and 2
Variable Data	data	Array	16	

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Write Variable Response:				
sWA OMTimeRatioDyn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMTimeRatioDyn	String	14	Time ratio between phase1 and 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OMTimeRatioDyn[ETX]
Read Variable Response:	[STX]sRA OMTimeRatioDyn 32 32 32 32 32 32 32 32[ETX]
Write Variable:	[STX]sWN OMTimeRatioDyn 32 32 32 32 32 32 32 32[ETX]
Write Variable Response:	[STX]sWA OMTimeRatioDyn[ETX]

2.16.1.16. Variable: OMDynCfgEnable

The following section contains a detailed description of the variable OMDynCfgEnable.

Variable Overview

Variable Name	Description
OMDynCfgEnable	Dynamic osc. mirr. cfg. enable switch

Communication Name	OMDynCfgEn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	548
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN OMDynCfgEn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OMDynCfgEn	String	10	Dynamic osc. mirr. cfg. enable switch

Read Variable Response:				
`sRA OMDynCfgEn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OMDynCfgEn	String	10	Dynamic osc. mirr. cfg. enable switch
Variable Data	data	Bool	1	

Write Variable:				
`sWN OMDynCfgEn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OMDynCfgEn	String	10	Dynamic osc. mirr. cfg. enable switch
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA OMDynCfgEn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OMDynCfgEn	String	10	Dynamic osc. mirr. cfg. enable switch

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OMDynCfgEn[ETX]`
Read Variable Response:	`[STX]sRA OMDynCfgEn 0[ETX]`
Write Variable:	`[STX]sWN OMDynCfgEn 0[ETX]`
Write Variable Response:	`[STX]sWA OMDynCfgEn[ETX]`

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2.16.1.17. Method: OMStart

The following section contains a detailed description of the method OMStart.

Method Overview

Method Name	Description
OMStart	Starts the Osc. mirror

Communication Name	mOMStart
Sopas Index	93
Invocation Access	Always

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mOMStart
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mOMStart	String	8	Starts the Osc. mirror

Method Return Value:

```
sAN mOMStart <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mOMStart	String	8	Starts the Osc. mirror
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mOMStart[ETX]`
Method Return Value:	`[STX]sAN mOMStart 0[ETX]`

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2.16.1.18. Method: OMStop

The following section contains a detailed description of the method OMStop.

Method Overview

Method Name	Description
OMStop	Stops the Osc. mirror

Communication Name	mOMStop
Sopas Index	94
Invocation Access	Always

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mOMStop
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mOMStop	String	7	Stops the Osc. mirror

Method Return Value:

```
sAN mOMStop <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mOMStop	String	7	Stops the Osc. mirror
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mOMStop[ETX]`
Method Return Value:	`[STX]sAN mOMStop 0[ETX]`

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2.17. Interface Block: GeneralCfgNetworkBase

2.17.1. Group: NetworkBase

2.17.1.1. Variable: NetDeviceID

The following section contains a detailed description of the variable NetDeviceID.

Variable Overview

Variable Name	Description
NetDeviceID	ID of the Device

Communication Name	NWDevID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	549
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..127
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN NWDevID
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWDevID	String	7	ID of the Device

Read Variable Response:

```
sRA NWDevID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWDevID	String	7	ID of the Device
Variable Data	data	UInt	2	

Write Variable:

```
sWN NWDevID <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWDevID	String	7	ID of the Device
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA NWDevID				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWDevID	String	7	ID of the Device

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN NWDevID[ETX]
Read Variable Response:	[STX]sRA NWDevID 1[ETX]
Write Variable:	[STX]sWN NWDevID 1[ETX]
Write Variable Response:	[STX]sWA NWDevID[ETX]

2.17.1.2. Variable: NetMasterSlave

The following section contains a detailed description of the variable NetMasterSlave.

Variable Overview

Variable Name	Description
NetMasterSlave	Master/Slave Function

Communication Name	NWMstSlv
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	550
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_STAND_ALONE	
	1	TX_SLAVE	
	2	TX_MASTER	

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Variable Telegram Syntax

Read Variable:				
`sRN NWMstSlv`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWMstSlv	String	8	Master/Slave Function

Read Variable Response:				
`sRA NWMstSlv <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWMstSlv	String	8	Master/Slave Function
Variable Data	data	Enum8	1	

Write Variable:				
`sWN NWMstSlv <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWMstSlv	String	8	Master/Slave Function
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA NWMstSlv`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWMstSlv	String	8	Master/Slave Function

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWMstSlv[ETX]`
Read Variable Response:	`[STX]sRA NWMstSlv 0[ETX]`
Write Variable:	`[STX]sWN NWMstSlv 0[ETX]`
Write Variable Response:	`[STX]sWA NWMstSlv[ETX]`

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2.17.1.3. Variable: NetworkAssignment

The following section contains a detailed description of the variable NetworkAssignment.

Variable Overview

Variable Name	Description
NetworkAssignment	Network on which Master/Slave function is assigned

Communication Name	NWNtwAsgn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	551
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_CAN_1	

Variable Telegram Syntax

Read Variable:				
`sRN NWNtwAsgn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWNtwAsgn	String	9	Network on which Master/Slave function is assigned

Read Variable Response:				
`sRA NWNtwAsgn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWNtwAsgn	String	9	Network on which Master/Slave function is assigned
Variable Data	data	Enum8	1	

Write Variable:				
`sWN NWNtwAsgn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWNtwAsgn	String	9	Network on which Master/Slave function is assigned
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA NWNtwAsgn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA NWNtwAsgn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	NWNtwAsgn	String	9	Network on which Master/Slave function is assigned

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN NWNtwAsgn[ETX]
Read Variable Response:	[STX]sRA NWNtwAsgn 0[ETX]
Write Variable:	[STX]sWN NWNtwAsgn 0[ETX]
Write Variable Response:	[STX]sWA NWNtwAsgn[ETX]

2.17.1.4. Variable: NetSlaveList

The following section contains a detailed description of the variable NetSlaveList.

Variable Overview

Variable Name	Description
NetSlaveList	Slave-List of Master/Slave functionality

Communication Name	NWslvlst
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	552
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..180
Initialisation	1,2

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Variable Telegram Syntax

Read Variable:				
`sRN NWslvlst`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWslvlst	String	8	Slave-List of Master/Slave functionality

Read Variable Response:				
`sRA NWslvlst <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWslvlst	String	8	Slave-List of Master/Slave functionality
Variable Data	data	FlexString	180	

Write Variable:				
`sWN NWslvlst <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWslvlst	String	8	Slave-List of Master/Slave functionality
Variable Data	data	FlexString	180	

Write Variable Response:				
`sWA NWslvlst`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWslvlst	String	8	Slave-List of Master/Slave functionality

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWslvlst[ETX]`
Read Variable Response:	`[STX]sRA NWslvlst 3 1,2[ETX]`
Write Variable:	`[STX]sWN NWslvlst +3 1,2[ETX]`
Write Variable Response:	`[STX]sWA NWslvlst[ETX]`

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2.17.1.5. Variable: NetMultiplexerAssignment

The following section contains a detailed description of the variable NetMultiplexerAssignment.

Variable Overview

Variable Name	Description
NetMultiplexerAssignment	Network on which Multiplexer function is assigned

Communication Name	NWMuxAsgn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	554
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_CAN_1	

Variable Telegram Syntax

Read Variable:				
`sRN NWMuxAsgn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWMuxAsgn	String	9	Network on which Multiplexer function is assigned

Read Variable Response:				
`sRA NWMuxAsgn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWMuxAsgn	String	9	Network on which Multiplexer function is assigned
Variable Data	data	Enum8	1	

Write Variable:				
`sWN NWMuxAsgn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWMuxAsgn	String	9	Network on which Multiplexer function is assigned
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA NWMuxAsgn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWMuxAsgn	String	9	Network on which Multiplexer function is assigned

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWMuxAsgn[ETX]`
Read Variable Response:	`[STX]sRA NWMuxAsgn 0[ETX]`
Write Variable:	`[STX]sWN NWMuxAsgn 0[ETX]`
Write Variable Response:	`[STX]sWA NWMuxAsgn[ETX]`

2.17.1.6. Variable: NetServerList

The following section contains a detailed description of the variable NetServerList.

Variable Overview

Variable Name	Description
NetServerList	Server-List of Multiplexer functionality

Communication Name	NWsrvlst
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	555
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..180
Initialisation	1,2

Variable Telegram Syntax

Read Variable:

```
sRN NWsrvlst
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWsrvlst	String	8	Server-List of Multiplexer functionality

Read Variable Response:

```
sRA NWsrvlst <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWsrvlst	String	8	Server-List of Multiplexer functionality
Variable Data	data	FlexString	180	

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Write Variable:				
sWN NWsrvlst <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWsrvlst	String	8	Server-List of Multiplexer functionality
Variable Data	data	FlexString	180	

Write Variable Response:				
sWA NWsrvlst				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWsrvlst	String	8	Server-List of Multiplexer functionality

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN NWsrvlst[ETX]
Read Variable Response:	[STX]sRA NWsrvlst 3 1,2[ETX]
Write Variable:	[STX]sWN NWsrvlst +3 1,2[ETX]
Write Variable Response:	[STX]sWA NWsrvlst[ETX]

2.17.1.7. Variable: NetMonAssignment1

The following section contains a detailed description of the variable NetMonAssignment1.

Variable Overview

Variable Name	Description
NetMonAssignment1	Network on which monitoring function is assigned

Communication Name	NWmonasgn1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	556
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_CAN_1	

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Variable Telegram Syntax

Read Variable:				
`sRN NWmonasgn1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWmonasgn1	String	10	Network on which monitoring function is assigned

Read Variable Response:				
`sRA NWmonasgn1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWmonasgn1	String	10	Network on which monitoring function is assigned
Variable Data	data	Enum8	1	

Write Variable:				
`sWN NWmonasgn1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWmonasgn1	String	10	Network on which monitoring function is assigned
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA NWmonasgn1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWmonasgn1	String	10	Network on which monitoring function is assigned

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWmonasgn1[ETX]`
Read Variable Response:	`[STX]sRA NWmonasgn1 0[ETX]`
Write Variable:	`[STX]sWN NWmonasgn1 0[ETX]`
Write Variable Response:	`[STX]sWA NWmonasgn1[ETX]`

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2.17.1.8. Variable: NetMonDevList1

The following section contains a detailed description of the variable NetMonDevList1.

Variable Overview

Variable Name	Description
NetMonDevList1	List of devices which are monitored

Communication Name	NWmondevlst1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	557
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..180
Initialisation	1,2

Variable Telegram Syntax

Read Variable:

```
sRN NWmondevlst1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWmondevlst1	String	12	List of devices which are monitored

Read Variable Response:

```
sRA NWmondevlst1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWmondevlst1	String	12	List of devices which are monitored
Variable Data	data	FlexString	180	

Write Variable:

```
sWN NWmondevlst1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWmondevlst1	String	12	List of devices which are monitored
Variable Data	data	FlexString	180	

Write Variable Response:

```
sWA NWmondevlst1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWmondevlst1	String	12	List of devices which are monitored

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWmondevlst1[ETX]`
Read Variable Response:	`[STX]sRA NWmondevlst1 3 1,2[ETX]`
Write Variable:	`[STX]sWN NWmondevlst1 +3 1,2[ETX]`
Write Variable Response:	`[STX]sWA NWmondevlst1[ETX]`

2.17.1.9. Variable: NetMonAssignment2

The following section contains a detailed description of the variable NetMonAssignment2.

Variable Overview

Variable Name	Description
NetMonAssignment2	Network on which monitoring function is assigned

Communication Name	NWmonasgn2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	558
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_CAN_1	

Variable Telegram Syntax

Read Variable:				
`sRN NWmonasgn2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWmonasgn2	String	10	Network on which monitoring function is assigned

Read Variable Response:				
`sRA NWmonasgn2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWmonasgn2	String	10	Network on which monitoring function is assigned
Variable Data	data	Enum8	1	

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Write Variable:				
sWN NWmonasgn2 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWmonasgn2	String	10	Network on which monitoring function is assigned
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA NWmonasgn2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWmonasgn2	String	10	Network on which monitoring function is assigned

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN NWmonasgn2[ETX]
Read Variable Response:	[STX]sRA NWmonasgn2 0[ETX]
Write Variable:	[STX]sWN NWmonasgn2 0[ETX]
Write Variable Response:	[STX]sWA NWmonasgn2[ETX]

2.17.1.10. Variable: NetMonDevList2

The following section contains a detailed description of the variable NetMonDevList2.

Variable Overview

Variable Name	Description
NetMonDevList2	List of devices which are monitored

Communication Name	NWmondevlst2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	559
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..180
Initialisation	1,2

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Variable Telegram Syntax

Read Variable:				
`sRN NWmondevlst2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWmondevlst2	String	12	List of devices which are monitored

Read Variable Response:				
`sRA NWmondevlst2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWmondevlst2	String	12	List of devices which are monitored
Variable Data	data	FlexString	180	

Write Variable:				
`sWN NWmondevlst2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWmondevlst2	String	12	List of devices which are monitored
Variable Data	data	FlexString	180	

Write Variable Response:				
`sWA NWmondevlst2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWmondevlst2	String	12	List of devices which are monitored

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWmondevlst2[ETX]`
Read Variable Response:	`[STX]sRA NWmondevlst2 3 1,2[ETX]`
Write Variable:	`[STX]sWN NWmondevlst2 +3 1,2[ETX]`
Write Variable Response:	`[STX]sWA NWmondevlst2[ETX]`

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2.17.1.11. Variable: NetMonTimeout

The following section contains a detailed description of the variable NetMonTimeout.

Variable Overview

Variable Name	Description
NetMonTimeout	Timeout for monitoring

Communication Name	NWmontimeout
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	560
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..300
Initialisation	80
Physical Unit	s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN NWmontimeout
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	NWmontimeout	String	12	Timeout for monitoring

Read Variable Response:

```
sRA NWmontimeout <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	NWmontimeout	String	12	Timeout for monitoring
Variable Data	data	UInt	2	

Write Variable:

```
sWN NWmontimeout <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	NWmontimeout	String	12	Timeout for monitoring
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA NWmontimeout
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	NWmontimeout	String	12	Timeout for monitoring

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN NWmontimeout[ETX]`
Read Variable Response:	`[STX]sRA NWmontimeout 50[ETX]`
Write Variable:	`[STX]sWN NWmontimeout 50[ETX]`
Write Variable Response:	`[STX]sWA NWmontimeout[ETX]`

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2.18. Interface Block: GeneralCfgRDT400Base

2.18.1. Group: RDT400ConfigBase

2.18.1.1. Variable: RDTCTCond1Enum

The following section contains a detailed description of the variable RDTCTCond1Enum.

Variable Overview

Variable Name	Description
RDTCTCond1Enum	Enum of Condition for codetype1 for RDT

Communication Name	RCBrdtctcond1enum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	561
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_WILDCARD	

Variable Telegram Syntax

Read Variable:				
`sRN RCBrdtctcond1enum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBrdtctcond1enum	String	17	Enum of Condition for codetype1 for RDT

Read Variable Response:				
`sRA RCBrdtctcond1enum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBrdtctcond1enum	String	17	Enum of Condition for codetype1 for RDT
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCBrdtctcond1enum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBrdtctcond1enum	String	17	Enum of Condition for codetype1 for RDT
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA RCBrdtctcond1enum				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBrdtctcond1enum	String	17	Enum of Condition for codetype1 for RDT

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCBrdtctcond1enum[ETX]
Read Variable Response:	[STX]sRA RCBrdtctcond1enum 0[ETX]
Write Variable:	[STX]sWN RCBrdtctcond1enum 0[ETX]
Write Variable Response:	[STX]sWA RCBrdtctcond1enum[ETX]

2.18.1.2. Variable: RDTCTCond1Struct

The following section contains a detailed description of the variable RDTCTCond1Struct.

Variable Overview

Variable Name	Description
RDTCTCond1Struct	Struct of Condition for codetype1 for RDT

Communication Name	RCBrdtctcond1struct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	562
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
SETEditExtendibleEnum	See the chapter "User Types" for details.

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Variable Telegram Syntax

Read Variable:				
`sRN RCBrdtctcond1struct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBrdtctcond1struct	String	19	Struct of Condition for codetype1 for RDT

Read Variable Response:				
`sRA RCBrdtctcond1struct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBrdtctcond1struct	String	19	Struct of Condition for codetype1 for RDT
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable:				
`sWN RCBrdtctcond1struct <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBrdtctcond1struct	String	19	Struct of Condition for codetype1 for RDT
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable Response:				
`sWA RCBrdtctcond1struct`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBrdtctcond1struct	String	19	Struct of Condition for codetype1 for RDT

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCBrdtctcond1struct[ETX]`
Read Variable Response:	`[STX]sRA RCBrdtctcond1struct 0 0[ETX]`
Write Variable:	`[STX]sWN RCBrdtctcond1struct 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA RCBrdtctcond1struct[ETX]`

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2.18.1.3. Variable: RDTCTCond2Enum

The following section contains a detailed description of the variable RDTCTCond2Enum.

Variable Overview

Variable Name	Description
RDTCTCond2Enum	Enum of Condition for codetype2 for RDT

Communication Name	RCBrdtctcond2enum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	563
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_WILDCARD	

Variable Telegram Syntax

Read Variable:				
`sRN RCBrdtctcond2enum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBrdtctcond2enum	String	17	Enum of Condition for codetype2 for RDT

Read Variable Response:				
`sRA RCBrdtctcond2enum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBrdtctcond2enum	String	17	Enum of Condition for codetype2 for RDT
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCBrdtctcond2enum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBrdtctcond2enum	String	17	Enum of Condition for codetype2 for RDT
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA RCBrdtctcond2enum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBrdtctcond2enum	String	17	Enum of Condition for codetype2 for RDT

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCBrdtctcond2enum[ETX]`
Read Variable Response:	`[STX]sRA RCBrdtctcond2enum 0[ETX]`
Write Variable:	`[STX]sWN RCBrdtctcond2enum 0[ETX]`
Write Variable Response:	`[STX]sWA RCBrdtctcond2enum[ETX]`

2.18.1.4. Variable: RDTCTCond2Struct

The following section contains a detailed description of the variable RDTCTCond2Struct.

Variable Overview

Variable Name	Description
RDTCTCond2Struct	Struct of Condition for codetype2 for RDT

Communication Name	RCBrdtctcond2struct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	564
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
SETEditExtendibleEnum	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN RCBrdtctcond2struct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBrdtctcond2struct	String	19	Struct of Condition for codetype2 for RDT

Read Variable Response:

```
sRA RCBrdtctcond2struct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBrdtctcond2struct	String	19	Struct of Condition for codetype2 for RDT
Variable Data	data	SETEditExtendibleEnum	19	

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Write Variable:				
sWN RCBrdtctcond2struct <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBrdtctcond2struct	String	19	Struct of Condition for codetype2 for RDT
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable Response:				
sWA RCBrdtctcond2struct				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBrdtctcond2struct	String	19	Struct of Condition for codetype2 for RDT

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCBrdtctcond2struct[ETX]
Read Variable Response:	[STX]sRA RCBrdtctcond2struct 0 0[ETX]
Write Variable:	[STX]sWN RCBrdtctcond2struct 0 +0 0[ETX]
Write Variable Response:	[STX]sWA RCBrdtctcond2struct[ETX]

2.18.1.5. Variable: RDTCTCond3Enum

The following section contains a detailed description of the variable RDTCTCond3Enum.

Variable Overview

Variable Name	Description
RDTCTCond3Enum	Enum of Condition for codetype3 for RDT

Communication Name	RCBrdtctcond3enum
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	565
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_WILDCARD	

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Variable Telegram Syntax

Read Variable:				
`sRN RCBrdtctcond3enum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBrdtctcond3enum	String	17	Enum of Condition for codetype3 for RDT

Read Variable Response:				
`sRA RCBrdtctcond3enum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBrdtctcond3enum	String	17	Enum of Condition for codetype3 for RDT
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCBrdtctcond3enum <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBrdtctcond3enum	String	17	Enum of Condition for codetype3 for RDT
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA RCBrdtctcond3enum`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBrdtctcond3enum	String	17	Enum of Condition for codetype3 for RDT

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCBrdtctcond3enum[ETX]`
Read Variable Response:	`[STX]sRA RCBrdtctcond3enum 0[ETX]`
Write Variable:	`[STX]sWN RCBrdtctcond3enum 0[ETX]`
Write Variable Response:	`[STX]sWA RCBrdtctcond3enum[ETX]`

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2.18.1.6. Variable: RDTCTCond3Struct

The following section contains a detailed description of the variable RDTCTCond3Struct.

Variable Overview

Variable Name	Description
RDTCTCond3Struct	Struct of Condition for codetype3 for RDT

Communication Name	RCBrdtctcond3struct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	566
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UserType	
SETEditExtendibleEnum	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN RCBrdtctcond3struct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBrdtctcond3struct	String	19	Struct of Condition for codetype3 for RDT

Read Variable Response:

```
sRA RCBrdtctcond3struct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBrdtctcond3struct	String	19	Struct of Condition for codetype3 for RDT
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable:

```
sWN RCBrdtctcond3struct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBrdtctcond3struct	String	19	Struct of Condition for codetype3 for RDT
Variable Data	data	SETEditExtendibleEnum	19	

Write Variable Response:

```
sWA RCBrdtctcond3struct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBrdtctcond3struct	String	19	Struct of Condition for codetype3 for RDT

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCBrdtctcond3struct[ETX]`
Read Variable Response:	`[STX]sRA RCBrdtctcond3struct 0 0[ETX]`
Write Variable:	`[STX]sWN RCBrdtctcond3struct 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA RCBrdtctcond3struct[ETX]`

2.18.1.7. Variable: RDTSendTraces

The following section contains a detailed description of the variable RDTSendTraces.

Variable Overview

Variable Name	Description
RDTSendTraces	Activates the traces to RDT interface

Communication Name	OFrdtsendtraces
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	567
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:				
`sRN OFrdtsendtraces`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFrdtsendtraces	String	15	Activates the traces to RDT interface

Read Variable Response:				
`sRA OFrdtsendtraces <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFrdtsendtraces	String	15	Activates the traces to RDT interface
Variable Data	data	Bool	1	

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Write Variable:				
sWN OFrdtsendtraces <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFrdtsendtraces	String	15	Activates the traces to RDT interface
Variable Data	data	Bool	1	

Write Variable Response:				
sWA OFrdtsendtraces				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFrdtsendtraces	String	15	Activates the traces to RDT interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OFrdtsendtraces[ETX]
Read Variable Response:	[STX]sRA OFrdtsendtraces 0[ETX]
Write Variable:	[STX]sWN OFrdtsendtraces 0[ETX]
Write Variable Response:	[STX]sWA OFrdtsendtraces[ETX]

2.18.1.8. Variable: RDTSendCommTraces

The following section contains a detailed description of the variable RDTSendCommTraces.

Variable Overview

Variable Name	Description
RDTSendCommTraces	Activates the communication traces to RDT interface

Communication Name	OFrdtsendcommtraces
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	568
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN OFrdtsendcommtraces`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFrdtsendcommtraces	String	19	Activates the communication traces to RDT interface

Read Variable Response:				
`sRA OFrdtsendcommtraces <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFrdtsendcommtraces	String	19	Activates the communication traces to RDT interface
Variable Data	data	Bool	1	

Write Variable:				
`sWN OFrdtsendcommtraces <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFrdtsendcommtraces	String	19	Activates the communication traces to RDT interface
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA OFrdtsendcommtraces`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFrdtsendcommtraces	String	19	Activates the communication traces to RDT interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFrdtsendcommtraces[ETX]`
Read Variable Response:	`[STX]sRA OFrdtsendcommtraces 0[ETX]`
Write Variable:	`[STX]sWN OFrdtsendcommtraces 0[ETX]`
Write Variable Response:	`[STX]sWA OFrdtsendcommtraces[ETX]`

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2.18.1.9. Variable: RDTEnableErrors

The following section contains a detailed description of the variable RDTEnableErrors.

Variable Overview

Variable Name	Description
RDTEnableErrors	Activates the error numbers in the telegram of RDT interface

Communication Name	OFrdtenaerrors
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	569
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN OFrdtenaerrors
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFrdtenaerrors	String	14	Activates the error numbers in the telegram of RDT interface

Read Variable Response:

```
sRA OFrdtenaerrors <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFrdtenaerrors	String	14	Activates the error numbers in the telegram of RDT interface
Variable Data	data	Bool	1	

Write Variable:

```
sWN OFrdtenaerrors <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFrdtenaerrors	String	14	Activates the error numbers in the telegram of RDT interface
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA OFrdtenaerrors
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA OFrdtenaerrors				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	OFrdtenaerrors	String	14	Activates the error numbers in the telegram of RDT interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OFrdtenaerrors[ETX]
Read Variable Response:	[STX]sRA OFrdtenaerrors 1[ETX]
Write Variable:	[STX]sWN OFrdtenaerrors 1[ETX]
Write Variable Response:	[STX]sWA OFrdtenaerrors[ETX]

2.18.1.10. Variable: RDTVMSSendTraces

The following section contains a detailed description of the variable RDTVMSSendTraces.

Variable Overview

Variable Name	Description
RDTVMSSendTraces	Activates the traces to RDT VMS interface

Communication Name	OFrdtvmssendtraces
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	570
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN OFrdtvmssendtraces`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFrdtvmssendtraces	String	18	Activates the traces to RDT VMS interface

Read Variable Response:				
`sRA OFrdtvmssendtraces <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFrdtvmssendtraces	String	18	Activates the traces to RDT VMS interface
Variable Data	data	Bool	1	

Write Variable:				
`sWN OFrdtvmssendtraces <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFrdtvmssendtraces	String	18	Activates the traces to RDT VMS interface
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA OFrdtvmssendtraces`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFrdtvmssendtraces	String	18	Activates the traces to RDT VMS interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFrdtvmssendtraces[ETX]`
Read Variable Response:	`[STX]sRA OFrdtvmssendtraces 0[ETX]`
Write Variable:	`[STX]sWN OFrdtvmssendtraces 0[ETX]`
Write Variable Response:	`[STX]sWA OFrdtvmssendtraces[ETX]`

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2.18.1.11. Variable: RDTVMSSendCommTraces

The following section contains a detailed description of the variable RDTVMSSendCommTraces.

Variable Overview

Variable Name	Description
RDTVMSSendCommTraces	Activates the communication traces to RDT VMS interface

Communication Name	OFrdtvmssendcommtraces
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	571
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN OFrdtvmssendcommtraces
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFrdtvmssendcommtraces	String	22	Activates the communication traces to RDT VMS interface

Read Variable Response:

```
sRA OFrdtvmssendcommtraces <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFrdtvmssendcommtraces	String	22	Activates the communication traces to RDT VMS interface
Variable Data	data	Bool	1	

Write Variable:

```
sWN OFrdtvmssendcommtraces <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFrdtvmssendcommtraces	String	22	Activates the communication traces to RDT VMS interface
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA OFrdtvmssendcommtraces
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA OFrdtvmssendcommtraces				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	OFrdtvmssendcommtraces	String	22	Activates the communication traces to RDT VMS interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OFrdtvmssendcommtraces[ETX]
Read Variable Response:	[STX]sRA OFrdtvmssendcommtraces 0[ETX]
Write Variable:	[STX]sWN OFrdtvmssendcommtraces 0[ETX]
Write Variable Response:	[STX]sWA OFrdtvmssendcommtraces[ETX]

2.18.1.12. Variable: RDTVMSEnableErrors

The following section contains a detailed description of the variable RDTVMSEnableErrors.

Variable Overview

Variable Name	Description
RDTVMSEnableErrors	Activates the error numbers in the telegram of RDT VMS interface

Communication Name	OFrdtvmsenaerrors
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	572
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN OFrdtvmsenaerrors`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OFrdtvmsenaerrors	String	17	Activates the error numbers in the telegram of RDT VMS interface

Read Variable Response:				
`sRA OFrdtvmsenaerrors <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OFrdtvmsenaerrors	String	17	Activates the error numbers in the telegram of RDT VMS interface
Variable Data	data	Bool	1	

Write Variable:				
`sWN OFrdtvmsenaerrors <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OFrdtvmsenaerrors	String	17	Activates the error numbers in the telegram of RDT VMS interface
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA OFrdtvmsenaerrors`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OFrdtvmsenaerrors	String	17	Activates the error numbers in the telegram of RDT VMS interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN OFrdtvmsenaerrors[ETX]`
Read Variable Response:	`[STX]sRA OFrdtvmsenaerrors 1[ETX]`
Write Variable:	`[STX]sWN OFrdtvmsenaerrors 1[ETX]`
Write Variable Response:	`[STX]sWA OFrdtvmsenaerrors[ETX]`

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2.19. Interface Block: GeneralCfgReadingStatisticBase

2.19.1. Group: ReadingStatisticFileView

2.19.1.1. Variable: RSRefreshRunning

The following section contains a detailed description of the variable RSRefreshRunning.

Variable Overview

Variable Name	Description
RSRefreshRunning	Switch that indicates that a refresh is currenlty running

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	583
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN RSRefreshRunning
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RSRefreshRunning	String	16	Switch that indicates that a refresh is currenlty running

Read Variable Response:

```
sRA RSRefreshRunning <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RSRefreshRunning	String	16	Switch that indicates that a refresh is currenlty running
Variable Data	data	Bool	1	

Write Variable:

```
sWN RSRefreshRunning <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RSRefreshRunning	String	16	Switch that indicates that a refresh is currenlty running
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA RSRefreshRunning				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RSRefreshRunning	String	16	Switch that indicates that a refresh is currenlty running

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RSRefreshRunning[ETX]
Read Variable Response:	[STX]sRA RSRefreshRunning 0[ETX]
Write Variable:	[STX]sWN RSRefreshRunning 0[ETX]
Write Variable Response:	[STX]sWA RSRefreshRunning[ETX]

2.19.1.2. Variable: RSRefreshTrigger

The following section contains a detailed description of the variable RSRefreshTrigger.

Variable Overview

Variable Name	Description
RSRefreshTrigger	Switch to signal that a new diagram viewer file for the reading stat is available

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	584
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN RSRefreshTrigger`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RSRefreshTrigger	String	16	Switch to signal that a new diagram viewer file for the reading stat is available

Read Variable Response:				
`sRA RSRefreshTrigger <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RSRefreshTrigger	String	16	Switch to signal that a new diagram viewer file for the reading stat is available
Variable Data	data	Bool	1	

Write Variable:				
`sWN RSRefreshTrigger <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RSRefreshTrigger	String	16	Switch to signal that a new diagram viewer file for the reading stat is available
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA RSRefreshTrigger`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RSRefreshTrigger	String	16	Switch to signal that a new diagram viewer file for the reading stat is available

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RSRefreshTrigger[ETX]`
Read Variable Response:	`[STX]sRA RSRefreshTrigger 0[ETX]`
Write Variable:	`[STX]sWN RSRefreshTrigger 0[ETX]`
Write Variable Response:	`[STX]sWA RSRefreshTrigger[ETX]`

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2.19.1.3. Method: RSRefreshStat

The following section contains a detailed description of the method RSRefreshStat.

Method Overview

Method Name	Description
RSRefreshStat	Refreshes the statistic data in sopas et

Communication Name	mRSRefreshStat
Sopas Index	96
Invocation Access	Always

Parameters			
eStatisticDataType	enum for choosing the statistic data to show in sopas et diagram viewer		
Enum8			
Value	Name	Description	
0	StatTypeDailyOverview		
1	StatTypeDailyHourly		
2	StatTypeDailyPer100		

Method Telegram Syntax

Method Invocation:				
`sMN mRSRefreshStat <eStatisticDataType>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRSRefreshStat	String	14	Refreshes the statistic data in sopas et
Parameter 1	eStatisticDataType	Enum8	1	enum for choosing the statistic data to show in sopas et diagram viewer

Method Return Value:				
`sAN mRSRefreshStat`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRSRefreshStat	String	14	Refreshes the statistic data in sopas et

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mRSRefreshStat 0[ETX]`
Method Return Value:	`[STX]sAN mRSRefreshStat[ETX]`

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2.20. Interface Block: GeneralCfgCDFpublic

2.20.1. Group: CDF_Config

2.20.1.1. Variable: CDF_FramingHeaderInputSelect_1

The following section contains a detailed description of the variable CDF_FramingHeaderInputSelect_1.

Variable Overview

Variable Name	Description
CDF_FramingHeaderInputSelect_1	Status selects wheather CDF_FramingHeaderIn (Bit0)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH

Communication Name	CdfPlcFhInSel_1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	585
Read-Access	Always
Write-Access	Always

Enum8			
Default Value		SEL_PIS1_FOR_FH1	
	Value	Name	Description
	0	SEL_PIS1_FOR_FH1	
	1	SEL_PIS2_FOR_FH1	
	2	SEL_PLCLIS1_FOR_FH1	

Variable Telegram Syntax

Read Variable:

```
sRN CdfPlcFhInSel_1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPlcFhInSel_1	String	15	Status selects wheather CDF_FramingHeaderIn (Bit0)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH

Read Variable Response:

```
sRA CdfPlcFhInSel_1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPlcFhInSel_1	String	15	Status selects wheather CDF_FramingHeaderIn (Bit0)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH
Variable Data	data	Enum8	1	

Write Variable:

```
sWN CdfPlcFhInSel_1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name

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Write Variable:				
sWN CdfPlcFhInSel_1 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CdfPlcFhInSel_1	String	15	Status selects wheather CDF_FramingHeaderIn (Bit0)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA CdfPlcFhInSel_1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPlcFhInSel_1	String	15	Status selects wheather CDF_FramingHeaderIn (Bit0)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CdfPlcFhInSel_1[ETX]
Read Variable Response:	[STX]sRA CdfPlcFhInSel_1 0[ETX]
Write Variable:	[STX]sWN CdfPlcFhInSel_1 0[ETX]
Write Variable Response:	[STX]sWA CdfPlcFhInSel_1[ETX]

2.20.1.2. Variable: CDF_FramingHeaderInputSelect_2

The following section contains a detailed description of the variable CDF_FramingHeaderInputSelect_2.

Variable Overview

Variable Name	Description
CDF_FramingHeaderInputSelect_2	Status selects wheather CDF_FramingHeaderIn (Bit1)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH

Communication Name	CdfPlcFhInSel_2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	586
Read-Access	Always
Write-Access	Always

Enum8			
Default Value		SEL_PIS2_FOR_FH2	
	Value	Name	Description
	0	SEL_PIS1_FOR_FH2	
	1	SEL_PIS2_FOR_FH2	
	2	SEL_PLCLIS2_FOR_FH2	

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Variable Telegram Syntax

Read Variable:				
`sRN CdfPlcFhInSel_2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPlcFhInSel_2	String	15	Status selects wheather CDF_FramingHeaderIn (Bit1)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH

Read Variable Response:				
`sRA CdfPlcFhInSel_2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPlcFhInSel_2	String	15	Status selects wheather CDF_FramingHeaderIn (Bit1)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH
Variable Data	data	Enum8	1	

Write Variable:				
`sWN CdfPlcFhInSel_2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfPlcFhInSel_2	String	15	Status selects wheather CDF_FramingHeaderIn (Bit1)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA CdfPlcFhInSel_2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPlcFhInSel_2	String	15	Status selects wheather CDF_FramingHeaderIn (Bit1)is copied from CDF_PhysicalInputsState or from CDF_PlcLogicalInputState_FH

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfPlcFhInSel_2[ETX]`
Read Variable Response:	`[STX]sRA CdfPlcFhInSel_2 1[ETX]`
Write Variable:	`[STX]sWN CdfPlcFhInSel_2 1[ETX]`
Write Variable Response:	`[STX]sWA CdfPlcFhInSel_2[ETX]`

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2.20.1.3. Variable: CDF_PhysOutputSelect_1

The following section contains a detailed description of the variable CDF_PhysOutputSelect_1.

Variable Overview

Variable Name	Description
CDF_PhysOutputSelect_1	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH

Communication Name	CdfPhysOutSel_1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	587
Read-Access	Always
Write-Access	Always

Enum8			
Default Value		SEL_FHOUT1_FOR_POS1	
	Value	Name	Description
	0	SEL_PLCOUT1_FOR_POS1	
	1	SEL_PLCOUT2_FOR_POS1	
	2	SEL_FHOUT1_FOR_POS1	
	3	SEL_FHOUT2_FOR_POS1	
	4	SEL_SENSLOS1_FOR_POS1	

Variable Telegram Syntax

Read Variable:

```
sRN CdfPhysOutSel_1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPhysOutSel_1	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH

Read Variable Response:

```
sRA CdfPhysOutSel_1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPhysOutSel_1	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH
Variable Data	data	Enum8	1	

Write Variable:

```
sWN CdfPhysOutSel_1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name

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Write Variable:				
sWN CdfPhysOutSel_1 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CdfPhysOutSel_1	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA CdfPhysOutSel_1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPhysOutSel_1	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CdfPhysOutSel_1[ETX]
Read Variable Response:	[STX]sRA CdfPhysOutSel_1 2[ETX]
Write Variable:	[STX]sWN CdfPhysOutSel_1 2[ETX]
Write Variable Response:	[STX]sWA CdfPhysOutSel_1[ETX]

2.20.1.4. Variable: CDF_PhysOutputSelect_2

The following section contains a detailed description of the variable CDF_PhysOutputSelect_2.

Variable Overview

Variable Name	Description
CDF_PhysOutputSelect_2	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH

Communication Name	CdfPhysOutSel_2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	588
Read-Access	Always
Write-Access	Always

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Enum8			
Default Value		SEL_FHOUT2_FOR_POS2	
	Value	Name	Description
	0	SEL_PLCOUT1_FOR_POS2	
	1	SEL_PLCOUT2_FOR_POS2	
	2	SEL_FHOUT1_FOR_POS2	
	3	SEL_FHOUT2_FOR_POS2	
	4	SEL_SENSLOS2_FOR_POS2	

Variable Telegram Syntax

Read Variable:

```
sRN CdfPhysOutSel_2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPhysOutSel_2	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH

Read Variable Response:

```
sRA CdfPhysOutSel_2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPhysOutSel_2	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH
Variable Data	data	Enum8	1	

Write Variable:

```
sWN CdfPhysOutSel_2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfPhysOutSel_2	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA CdfPhysOutSel_2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPhysOutSel_2	String	15	Status selects wheather CDF_PhysicalOutputsState (Bit0) is copied from CDF_SensorPhysicalOutputState or from CDF_PlcOutputState_FH

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfPhysOutSel_2[ETX]`
Read Variable Response:	`[STX]sRA CdfPhysOutSel_2 3[ETX]`
Write Variable:	`[STX]sWN CdfPhysOutSel_2 3[ETX]`
Write Variable Response:	`[STX]sWA CdfPhysOutSel_2[ETX]`

2.20.1.5. Variable: CDF_PhysInDebounceTime_1

The following section contains a detailed description of the variable CDF_PhysInDebounceTime_1.

Variable Overview

Variable Name	Description
CDF_PhysInDebounceTime_1	Debouncing time for Input 1 of CDF600.

Communication Name	CdfPhysInDeb_1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	589
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..10000
Initialisation	10
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN CdfPhysInDeb_1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPhysInDeb_1	String	14	Debouncing time for Input 1 of CDF600.

Read Variable Response:				
`sRA CdfPhysInDeb_1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPhysInDeb_1	String	14	Debouncing time for Input 1 of CDF600.
Variable Data	data	UInt	2	

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Write Variable:				
sWN CdfPhysInDeb_1 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfPhysInDeb_1	String	14	Debouncing time for Input 1 of CDF600.
Variable Data	data	UInt	2	

Write Variable Response:				
sWA CdfPhysInDeb_1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPhysInDeb_1	String	14	Debouncing time for Input 1 of CDF600.

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CdfPhysInDeb_1[ETX]
Read Variable Response:	[STX]sRA CdfPhysInDeb_1 A[ETX]
Write Variable:	[STX]sWN CdfPhysInDeb_1 A[ETX]
Write Variable Response:	[STX]sWA CdfPhysInDeb_1[ETX]

2.20.1.6. Variable: CDF_PhysInDebounceTime_2

The following section contains a detailed description of the variable CDF_PhysInDebounceTime_2.

Variable Overview

Variable Name	Description
CDF_PhysInDebounceTime_2	Debouncing time for Input 2 of CDF600

Communication Name	CdfPhysInDeb_2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	590
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..10000
Initialisation	10
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN CdfPhysInDeb_2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPhysInDeb_2	String	14	Debouncing time for Input 2 of CDF600

Read Variable Response:				
`sRA CdfPhysInDeb_2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPhysInDeb_2	String	14	Debouncing time for Input 2 of CDF600
Variable Data	data	UInt	2	

Write Variable:				
`sWN CdfPhysInDeb_2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfPhysInDeb_2	String	14	Debouncing time for Input 2 of CDF600
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA CdfPhysInDeb_2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPhysInDeb_2	String	14	Debouncing time for Input 2 of CDF600

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfPhysInDeb_2[ETX]`
Read Variable Response:	`[STX]sRA CdfPhysInDeb_2 A[ETX]`
Write Variable:	`[STX]sWN CdfPhysInDeb_2 A[ETX]`
Write Variable Response:	`[STX]sWA CdfPhysInDeb_2[ETX]`

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2.20.2. Group: CDF_IoPublic

2.20.2.1. Variable: CDF_PlcLogicalInputState_FH

The following section contains a detailed description of the variable CDF_PlcLogicalInputState_FH.

Variable Overview

Variable Name	Description
CDF_PlcLogicalInputState_FH	Logical input state of PLC, which may be sent within fieldbus framing header. From sensors point of view, this is an output function: A sensor can map up to two of its output functions to the framing header input bits.

Communication Name	CdfLis
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	604
Read-Access	Always
Write-Access	Always

USInt	
Value Range	0..255
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN CdfLis
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfLis	String	6	Logical input state of PLC, which may be sent within fieldbus framing header. From sensors point of view, this is an output function: A sensor can map up to two of its output functions to the framing header input bits.

Read Variable Response:

```
sRA CdfLis <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfLis	String	6	Logical input state of PLC, which may be sent within fieldbus framing header. From sensors point of view, this is an output function: A sensor can map up to two of its output functions to the framing header input bits.
Variable Data	data	USInt	1	

Write Variable:

```
sWN CdfLis <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name

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Write Variable:				
`sWN CdfLis <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CdfLis	String	6	Logical input state of PLC, which may be sent within fieldbus framing header. From sensors point of view, this is an output function: A sensor can map up to two of its output functions to the framing header input bits.
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA CdfLis`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfLis	String	6	Logical input state of PLC, which may be sent within fieldbus framing header. From sensors point of view, this is an output function: A sensor can map up to two of its output functions to the framing header input bits.

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfLis[ETX]`
Read Variable Response:	`[STX]sRA CdfLis 0[ETX]`
Write Variable:	`[STX]sWN CdfLis 0[ETX]`
Write Variable Response:	`[STX]sWA CdfLis[ETX]`

2.20.2.2. Variable: CDF_PlcLogicalInputState_Map

The following section contains a detailed description of the variable CDF_PlcLogicalInputState_Map.

Variable Overview

Variable Name	Description
CDF_PlcLogicalInputState_Map	Logical input state of PLC, which may be sent as mapped Fieldbus data from CDF to PLC. (16 bit)

Communication Name	CdfPlcLisMap
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	606
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..65535
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN CdfPlcLisMap`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfPlcLisMap	String	12	Logical input state of PLC, which may be sent as mapped Fieldbus data from CDF to PLC. (16 bit)

Read Variable Response:				
`sRA CdfPlcLisMap <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfPlcLisMap	String	12	Logical input state of PLC, which may be sent as mapped Fieldbus data from CDF to PLC. (16 bit)
Variable Data	data	UInt	2	

Write Variable:				
`sWN CdfPlcLisMap <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfPlcLisMap	String	12	Logical input state of PLC, which may be sent as mapped Fieldbus data from CDF to PLC. (16 bit)
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA CdfPlcLisMap`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfPlcLisMap	String	12	Logical input state of PLC, which may be sent as mapped Fieldbus data from CDF to PLC. (16 bit)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfPlcLisMap[ETX]`
Read Variable Response:	`[STX]sRA CdfPlcLisMap 0[ETX]`
Write Variable:	`[STX]sWN CdfPlcLisMap 0[ETX]`
Write Variable Response:	`[STX]sWA CdfPlcLisMap[ETX]`

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2.20.2.3. Variable: CDF_SensorPhysicalOutputState

The following section contains a detailed description of the variable CDF_SensorPhysicalOutputState.

Variable Overview

Variable Name	Description
CDF_SensorPhysicalOutputState	Output state of sensor, which may be put to physical outpus, depending on selectors status.

Communication Name	CdfSensPos
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	608
Read-Access	Always
Write-Access	Always

USInt	
Value Range	0..255
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN CdfSensPos`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfSensPos	String	10	Output state of sensor, which may be put to physical outpus, depending on selectors status.

Read Variable Response:				
`sRA CdfSensPos <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfSensPos	String	10	Output state of sensor, which may be put to physical outpus, depending on selectors status.
Variable Data	data	USInt	1	

Write Variable:				
`sWN CdfSensPos <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfSensPos	String	10	Output state of sensor, which may be put to physical outpus, depending on selectors status.
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA CdfSensPos`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA CdfSensPos				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CdfSensPos	String	10	Output state of sensor, which may be put to physical outpus, depending on selectors status.

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CdfSensPos[ETX]
Read Variable Response:	[STX]sRA CdfSensPos 0[ETX]
Write Variable:	[STX]sWN CdfSensPos 0[ETX]
Write Variable Response:	[STX]sWA CdfSensPos[ETX]

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2.21. Interface Block: System

2.21.1. Group: Clocks

2.21.1.1. Variable: DeviceTime

The following section contains a detailed description of the variable DeviceTime.

Variable Overview

Variable Name	Description
DeviceTime	Timestamp of the device in milliseconds. Must be updated in real time by the device itself

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	611
Read-Access	Always
Write-Access	Always

UDInt	
Value Range	0..4294967295
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN DeviceTime`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DeviceTime	String	10	Timestamp of the device in milliseconds. Must be updated in real time by the device itself

Read Variable Response:				
`sRA DeviceTime <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DeviceTime	String	10	Timestamp of the device in milliseconds. Must be updated in real time by the device itself
Variable Data	data	UDInt	4	

Write Variable:				
`sWN DeviceTime <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DeviceTime	String	10	Timestamp of the device in milliseconds. Must be updated in real time by the device itself
Variable Data	data	UDInt	4	

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Write Variable Response:				
sWA DeviceTime				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DeviceTime	String	10	Timestamp of the device in milliseconds. Must be updated in real time by the device itself

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DeviceTime[ETX]
Read Variable Response:	[STX]sRA DeviceTime 0[ETX]
Write Variable:	[STX]sWN DeviceTime 0[ETX]
Write Variable Response:	[STX]sWA DeviceTime[ETX]

2.21.1.2. Variable: DeviceInc

The following section contains a detailed description of the variable DeviceInc.

Variable Overview

Variable Name	Description
DeviceInc	Increment value of the device. Must be updated in real time by the device itself

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	612
Read-Access	Always
Write-Access	Always

UDInt	
Value Range	0..4294967295
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DeviceInc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DeviceInc	String	9	Increment value of the device. Must be updated in real time by the device itself

Read Variable Response:				
`sRA DeviceInc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DeviceInc	String	9	Increment value of the device. Must be updated in real time by the device itself
Variable Data	data	UDInt	4	

Write Variable:				
`sWN DeviceInc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DeviceInc	String	9	Increment value of the device. Must be updated in real time by the device itself
Variable Data	data	UDInt	4	

Write Variable Response:				
`sWA DeviceInc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DeviceInc	String	9	Increment value of the device. Must be updated in real time by the device itself

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DeviceInc[ETX]`
Read Variable Response:	`[STX]sRA DeviceInc 0[ETX]`
Write Variable:	`[STX]sWN DeviceInc 0[ETX]`
Write Variable Response:	`[STX]sWA DeviceInc[ETX]`

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2.21.2. Group: GUI

2.21.2.1. Variable: SYUIMode

The following section contains a detailed description of the variable SYUIMode.

Variable Overview

Variable Name	Description
SYUIMode	Parameter stores in which mode of the user interface the parameter file has been edited

Communication Name	SYUImode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	613
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	SINGLE_DEVICE_UI	
	1	STANDARD_UI	

Variable Telegram Syntax

Read Variable:

```
sRN SYUImode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SYUImode	String	8	Parameter stores in which mode of the user interface the parameter file has been edited

Read Variable Response:

```
sRA SYUImode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SYUImode	String	8	Parameter stores in which mode of the user interface the parameter file has been edited
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SYUImode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SYUImode	String	8	Parameter stores in which mode of the user interface the parameter file has been edited
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA SYUImode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SYUImode	String	8	Parameter stores in which mode of the user interface the parameter file has been edited

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SYUImode[ETX]
Read Variable Response:	[STX]sRA SYUImode 0[ETX]
Write Variable:	[STX]sWN SYUImode 0[ETX]
Write Variable Response:	[STX]sWA SYUImode[ETX]

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2.22. Interface Block: Calib

2.22.1. Group: FinalTest

2.22.1.1. Method: FTSwitchBeeper

The following section contains a detailed description of the method FTSwitchBeeper.

Method Overview

Method Name	Description
FTSwitchBeeper	Switch the beeper to the given loudness

Communication Name	mFTSwitchBeep
Sopas Index	109
Invocation Access	Always

Parameters			
BeeperState			
	Enum8		
	Value	Name	Description
	0	TX_OFF	
	1	TX_SOFT	
	2	TX_LOUD	
	3	TX_SMILE	
	4	TX_UP	
	5	TX_DOWN	
	6	TX_SAD	
	7	TX_ACK	
	8	TX_START	
	9	TX_STOP	

Method Telegram Syntax

Method Invocation:				
`sMN mFTSwitchBeep <BeeperState>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFTSwitchBeep	String	13	Switch the beeper to the given loudness
Parameter 1	BeeperState	Enum8	1	

Method Return Value:				
`sAN mFTSwitchBeep`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFTSwitchBeep	String	13	Switch the beeper to the given loudness

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFTSwitchBeep 0[ETX]`
Method Return Value:	`[STX]sAN mFTSwitchBeep[ETX]`

2.22.1.2. Method: FTMeanByAngleEnhReadableQuick

The following section contains a detailed description of the method FTMeanByAngleEnhReadableQuick.

Method Overview

Method Name	Description
FTMeanByAngleEnhReadableQuick	This method returns statistical data on up to 80 seperate measuring spots. The initial spot is indicated by the start position in degrees. This function is similar to the MeanByAngle function but returns the results in human readable form.

Communication Name	mFTmeanbyangleenhrdq
Sopas Index	118
Invocation Access	Always

Parameters				
InPar				
	UserType			
	MbaEnhInPar_t	See the chapter "User Types" for details.		
uiOutMsk		The output mask for this function. Each bit toggles the display of the rep.		
	UInt			
	Value Range	1..1000		
	Initialisation	511		
	Physical Unit			
	Physical Unit Factor	0.0		
eDataDelim		Data Delimiter selection for the result output		
	Enum8			
		Value	Name	Description
		0	DatDelimTabulator	
		1	DatDelimSemicolon	
		2	DatDelimSpace	
eDecimalDelim		Decimal Delimiter selection for the result output		
	Enum8			
		Value	Name	Description
		0	DecDelimPoint	
		1	DecDelimComma	

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Return Values		
Result		Complete result string
	FlexString	
	Length	0..6000
	Initialisation	

Method Telegram Syntax

Method Invocation:				
`sMN mFTmeanbyangleenhrdq <InPar> <uiOutMsk> <eDataDelim> <eDecimalDelim>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFTmeanbyangleenhrdq	String	20	This method returns statistical data on up to 80 seperate measuring spots. The initial spot is indicated by the start position in degrees. This function is similar to the MeanByAngle function but returns the results in human readable form.
Parameter 1	InPar	MbaEnhInPar_t	20	
Parameter 2	uiOutMsk	UInt	2	The output mask for this function. Each bit toggles the display of the rep.
Parameter 3	eDataDelim	Enum8	1	Data Delimiter selection for the result output
Parameter 4	eDecimalDelim	Enum8	1	Decimal Delimiter selection for the result output

Method Return Value:				
`sAN mFTmeanbyangleenhrdq <Result>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFTmeanbyangleenhrdq	String	20	This method returns statistical data on up to 80 seperate measuring spots. The initial spot is indicated by the start position in degrees. This function is similar to the MeanByAngle function but returns the results in human readable form.
Return Value 1	Result	FlexString	6000	Complete result string

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFTmeanbyangleenhrdq 7 0 +0.0 1 3C FA 0 A 0 0 0 1FF 0 0[ETX]`
Method Return Value:	`[STX]sAN mFTmeanbyangleenhrdq 0[ETX]`

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2.22.1.3. Method: FTMeanByAngleEnhQuick

The following section contains a detailed description of the method FTMeanByAngleEnhQuick.

Method Overview

Method Name	Description
FTMeanByAngleEnhQuick	This method returns statistical data on up to 80 seperate measuring spots. The initial spot is indicated by the start position in degrees.

Communication Name	mFTmeanbyangleenhq
Sopas Index	119
Invocation Access	Always

Parameters		
InPar		
	UserType	
	MbaEnhInPar_t	See the chapter "User Types" for details.

Return Values			
aLeader			
	Array		
	Length		0..1
		FlexString	
		Length	0..200
		Initialisation	

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Return Values	
aResult	
Array	
Length	0..80
Struct	
Discarded	
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
Distance	
Struct	
fMean	
Real	Return Values[aResult].Array.Struct[Distance].Struct[fMean].Real
fStd	
Real	Return Values[aResult].Array.Struct[Distance].Struct[fStd].Real
fMin	
Real	Return Values[aResult].Array.Struct[Distance].Struct[fMin].Real
fMax	
Real	Return Values[aResult].Array.Struct[Distance].Struct[fMax].Real
Rssi	
Struct	
fMean	
Real	Return Values[aResult].Array.Struct[Rssi].Struct[fMean].Real
fStd	
Real	Return Values[aResult].Array.Struct[Rssi].Struct[fStd].Real
fMin	
Real	Return Values[aResult].Array.Struct[Rssi].Struct[fMin].Real
fMax	
Real	Return Values[aResult].Array.Struct[Rssi].Struct[fMax].Real
ulError	If 0, the function was successful. Other than zero represents LMS error code.
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Return Values	
aTrailerStd	
Array	
Length	0..1
Struct	
ulRelTime	Relative Time
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	ms
Physical Unit Factor	0.0
uiOutMsk	The output mask for this function. Each bit toggles the display of the rep; usually given as input parameter, but here fix set to 0x1FF
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
fStartAngle	The start angle. This angle is independent of any MCL settings.
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	°
Physical Unit Factor	0.0
fAngleRes	The angular resolution of the measurement values.
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	°
Physical Unit Factor	0.0
uiNumVal	The number of spots to measure.
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
eFacette	
UserType	
eFacetteType	See the chapter "User Types" for details.
fScanFreq	Target scan frequency
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	Hz
Physical Unit Factor	0.0

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Return Values				
Array				
Struct				
fCurPause		The current pause between two measurements in us; this value depends on FSP settings; currently not supported by CLV65x: always 0		
	Real			
	Value Range	See specification IEEE 754		
	Initialisation			
	Physical Unit	us		
	Physical Unit Factor	0.0		
CurFirTap		Current FIR tap.		
	USInt			
	Value Range	0..255		
	Initialisation			
	Physical Unit			
	Physical Unit Factor	0.0		
eProcStage		Processing stage of distance and energy values.		
	UserType			
	ProcStage_t	See the chapter "User Types" for details.		
eErep		Kind of requested energy values		
	Enum8			
	Value	Name	Description	
	0	ErepDigits		
	1	ErepPercent		
	2	ErepNW		
uiNumHistory		The requested number of values used for the moving averages, variance, etc. . I.e. the measuring value history.		
	UInt			
	Value Range	0..65535		
	Initialisation			
	Physical Unit			
	Physical Unit Factor	0.0		
uiMaxTries		The maximum number of scans measured while trying to reach the requested history depth for every single spot.		
	UInt			
	Value Range	0..65535		
	Initialisation			
	Physical Unit			
	Physical Unit Factor	0.0		
uiDiscCnt		The number of scans measured in addition to the requested history depth while trying to reach the requested history depth for every single spot.		
	UInt			
	Value Range	0..65535		
	Initialisation			
	Physical Unit			
	Physical Unit Factor	0.0		

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Return Values				
	Array			
		Struct		
		byUserlevel		The userlevel to be locked on. Note that this telegram is not intended for customer.
			USInt	
			Value Range	0..255
			Initialisation	
			Physical Unit	
			Physical Unit Factor	0.0
aTrailerReftarget				
	Array			
	Length			0..1
		Struct		
		CurDistSig		Current averaged distance value of the reference target; averaged over device's lifetime
			UInt	
			Value Range	0..65535
			Initialisation	
			Physical Unit	digit
			Physical Unit Factor	0.0
		CurRssiSig		Current averaged energy value of the reference target; averaged over device's lifetime
			UInt	
			Value Range	0..65535
			Initialisation	
			Physical Unit	digit_or_nW
			Physical Unit Factor	0.0
		CurRefTarget		
			Struct	
			Discarded	number of discarded scans for ref target measurement
			UInt	Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Discarded].UInt
			Distance	
			Struct	Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Distance].Struct
			Rssi	
			Struct	Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Rssi].Struct

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Return Values	
aTrailerTempData	
Array	
Length	0..1
Struct	
Temp7318Int	current internal temperature measured by ADT7318
DInt	
Value Range	-2147483648..2147483647
Initialisation	
Physical Unit	°C
Physical Unit Factor	0.0
Temp7318Ext	current external temperature measured by ADT7318
DInt	
Value Range	-2147483648..2147483647
Initialisation	
Physical Unit	°C
Physical Unit Factor	0.0
Temp3	currently not supported by CLV65x
DInt	
Value Range	-2147483648..2147483647
Initialisation	
Physical Unit	°C
Physical Unit Factor	0.0
Temp4	currently not supported by CLV65x
DInt	
Value Range	-2147483648..2147483647
Initialisation	
Physical Unit	°C
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Distance].Struct[fMean].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Distance].Struct[fStd].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Distance].Struct[fMin].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Real	Return Values[aResult].Array.Struct[Distance].Struct[fMax].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Rssi].Struct[fMean].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Rssi].Struct[fStd].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Rssi].Struct[fMin].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Real	Return Values[aResult].Array.Struct[Rssi].Struct[fMax].Real
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

UInt	Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Discarded].UInt
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Struct		Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Distance].Struct
fMean		
	Real	
	Value Range	See specification IEEE 754
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
fStd		
	Real	
	Value Range	See specification IEEE 754
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Struct	Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Distance].Struct
fMin	
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
fMax	
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Struct	Return Values[aTrailerReftarget].Array.Struct[CurRefTarget].Struct[Rssi].Struct
fMean	
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
fStd	
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
fMin	
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
fMax	
Real	
Value Range	See specification IEEE 754
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mFTmeanbyangleenhq <InPar>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFTmeanbyangleenhq	String	18	This method returns statistical data on up to 80 seperate measuring spots. The initial spot is indicated by the start position in degrees.
Parameter 1	InPar	MbaEnhInPar_t	20	

Method Return Value:				
`sAN mFTmeanbyangleenhq <aLeader> <aResult> <ulError> <aTrailerStd> <aTrailerReftarget> <aTrailerTempData>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFTmeanbyangleenhq	String	18	This method returns statistical data on up to 80 seperate measuring spots. The initial spot is indicated by the start position in degrees.
Return Value 1	aLeader	Array	200	
Return Value 2	aResult	Array	2720	
Return Value 3	ulError	UDInt	4	If 0, the function was successful. Other than zero represents LMS error code.
Return Value 4	aTrailerStd	Array	35	
Return Value 5	aTrailerReftarget	Array	38	
Return Value 6	aTrailerTempData	Array	16	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFTmeanbyangleenhq 7 0 +0.0 1 3C FA 0 A 0 0 0[ETX]`
Method Return Value:	`[STX]sAN mFTmeanbyangleenhq 0 0 0 0 0 0[ETX]`

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2.22.1.4. Method: FTGetDigInEdgesCount

The following section contains a detailed description of the method FTGetDigInEdgesCount.

Method Overview

Method Name	Description
FTGetDigInEdgesCount	Returns a counter of the edges (raising/falling) of in1/in2/extin1/extin2

Communication Name	mFTGetDigInEdgCnt
Sopas Index	124
Invocation Access	AuthorizedClient

Parameters	
SensorNr	Number of sensor: 1=in1, 2=in2, 3=extin1, 4=extin2
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False
RaisingEdges	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
FallingEdges	
UDInt	
Value Range	0..4294967295
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mFTGetDigInEdgCnt <SensorNr>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFTGetDigInEdgCnt	String	17	Returns a counter of the edges (raising/falling) of in1/in2/extin1/extin2
Parameter 1	SensorNr	UInt	2	Number of sensor: 1=in1, 2=in2, 3=extin1, 4=extin2

Method Return Value:				
`sAN mFTGetDigInEdgCnt <Success> <RaisingEdges> <FallingEdges>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFTGetDigInEdgCnt	String	17	Returns a counter of the edges (raising/falling) of in1/in2/extin1/extin2
Return Value 1	Success	Bool	1	
Return Value 2	RaisingEdges	UDInt	4	
Return Value 3	FallingEdges	UDInt	4	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFTGetDigInEdgCnt 0[ETX]`
Method Return Value:	`[STX]sAN mFTGetDigInEdgCnt 0 0 0[ETX]`

2.22.1.5. Method: FTClearDigInEdgesCount

The following section contains a detailed description of the method FTClearDigInEdgesCount.

Method Overview

Method Name	Description
FTClearDigInEdgesCount	Clears the edges counters

Communication Name	mFTClrDigInEdgCnt
Sopas Index	125
Invocation Access	AuthorizedClient

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mFTClrDigInEdgCnt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mFTClrDigInEdgCnt	String	17	Clears the edges counters

Method Return Value:				
`sAN mFTClrDigInEdgCnt <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mFTClrDigInEdgCnt	String	17	Clears the edges counters
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mFTClrDigInEdgCnt[ETX]`
Method Return Value:	`[STX]sAN mFTClrDigInEdgCnt 0[ETX]`

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2.22.2. Group: FSP

2.22.2.1. Variable: DistCorrDECT

The following section contains a detailed description of the variable DistCorrDECT.

Variable Overview

Variable Name
DistCorrDECT

Communication Name	DstCrrDECT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	782
Storage	Variable is stored in CalibEEpromCLV65x
Read-Access	Always
Write-Access	Always

Array		
Length		700
	Real	
	Value Range	See specification IEEE 754
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN DstCrrDECT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DstCrrDECT	String	10	

Read Variable Response:				
`sRA DstCrrDECT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DstCrrDECT	String	10	
Variable Data	data	Array	2800	

Write Variable:				
`sWN DstCrrDECT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DstCrrDECT	String	10	
Variable Data	data	Array	2800	

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Write Variable Response:				
sWA DstCrrDECT				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DstCrrDECT	String	10	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DstCrrDECT[ETX]

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Read Variable Response:	[STX]sRA DstCrrDECT 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

	00000000 00000000[ETX]
Write Variable:	[STX]sWN DstCrrDECT +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0

2.22.2.2. Variable: DistCorrMinValidDist

The following section contains a detailed description of the variable DistCorrMinValidDist.

Variable Overview

Variable Name
DistCorrMinValidDist

Communication Name	DstCrrMinDist
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	783
Storage	Variable is stored in CalibEEpromCLV65x
Read-Access	Always
Write-Access	Always

UInt	
Value Range	30..4000
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DstCrrMinDist
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DstCrrMinDist	String	13	

Read Variable Response:

```
sRA DstCrrMinDist <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DstCrrMinDist	String	13	
Variable Data	data	UInt	2	

Write Variable:

```
sWN DstCrrMinDist <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DstCrrMinDist	String	13	
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA DstCrrMinDist
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DstCrrMinDist	String	13	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DstCrrMinDist[ETX]`
Read Variable Response:	`[STX]sRA DstCrrMinDist 32[ETX]`
Write Variable:	`[STX]sWN DstCrrMinDist 32[ETX]`
Write Variable Response:	`[STX]sWA DstCrrMinDist[ETX]`

2.22.2.3. Variable: DistCorrMaxValidDist

The following section contains a detailed description of the variable DistCorrMaxValidDist.

Variable Overview

Variable Name
DistCorrMaxValidDist

Communication Name	DstCrrMaxDist
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	784
Storage	Variable is stored in CalibEEpromCLV65x
Read-Access	Always
Write-Access	Always

UInt	
Value Range	30..4000
Initialisation	3000
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DstCrrMaxDist
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DstCrrMaxDist	String	13	

Read Variable Response:

```
sRA DstCrrMaxDist <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DstCrrMaxDist	String	13	
Variable Data	data	UInt	2	

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Write Variable:				
`sWN DstCrrMaxDist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DstCrrMaxDist	String	13	
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DstCrrMaxDist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DstCrrMaxDist	String	13	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DstCrrMaxDist[ETX]`
Read Variable Response:	`[STX]sRA DstCrrMaxDist BB8[ETX]`
Write Variable:	`[STX]sWN DstCrrMaxDist BB8[ETX]`
Write Variable Response:	`[STX]sWA DstCrrMaxDist[ETX]`

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2.23. Interface Block: GeneralCfg

2.23.1. Group: DigitalOutputsEnhancements

2.23.1.1. Variable: Out1FuncTeachInMatchCodeEnh

The following section contains a detailed description of the variable Out1FuncTeachInMatchCodeEnh.

Variable Overview

Variable Name
Out1FuncTeachInMatchCodeEnh

Communication Name	DO1FncTIMCE
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	882
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
EnumValue			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_NOTHING	
UseExtraValue			
	Bool		
	Value Range	False, True	
	Initialisation	False	
ExtraValue			
	FlexString		
	Length	0..18	
	Initialisation		

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Variable Telegram Syntax

Read Variable:				
`sRN DO1FncTIMCE`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1FncTIMCE	String	11	

Read Variable Response:				
`sRA DO1FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable:				
`sWN DO1FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA DO1FncTIMCE`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1FncTIMCE	String	11	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1FncTIMCE[ETX]`
Read Variable Response:	`[STX]sRA DO1FncTIMCE 0 0 0[ETX]`
Write Variable:	`[STX]sWN DO1FncTIMCE 0 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA DO1FncTIMCE[ETX]`

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2.23.1.2. Variable: Out2FuncTeachInMatchCodeEnh

The following section contains a detailed description of the variable Out2FuncTeachInMatchCodeEnh.

Variable Overview

Variable Name
Out2FuncTeachInMatchCodeEnh

Communication Name	DO2FncTIMCE
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	883
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
EnumValue			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_NOTHING	
UseExtraValue			
	Bool		
	Value Range	False, True	
	Initialisation	False	
ExtraValue			
	FlexString		
	Length	0..18	
	Initialisation		

Variable Telegram Syntax

Read Variable:				
`sRN DO2FncTIMCE`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2FncTIMCE	String	11	

Read Variable Response:				
`sRA DO2FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

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Write Variable:				
sWN DO2FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable Response:				
sWA DO2FncTIMCE				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2FncTIMCE	String	11	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DO2FncTIMCE[ETX]
Read Variable Response:	[STX]sRA DO2FncTIMCE 0 0 0[ETX]
Write Variable:	[STX]sWN DO2FncTIMCE 0 0 +0 0[ETX]
Write Variable Response:	[STX]sWA DO2FncTIMCE[ETX]

2.23.1.3. Variable: ExtOut1FuncTeachInMatchCodeEnh

The following section contains a detailed description of the variable ExtOut1FuncTeachInMatchCodeEnh.

Variable Overview

Variable Name
ExtOut1FuncTeachInMatchCodeEnh

Communication Name	DO1FncTIMCE
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	884
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
EnumValue			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_NOTHING	

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Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN DO1FncTIMCE
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO1FncTIMCE	String	11	

Read Variable Response:

```
sRA DO1FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO1FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable:

```
sWN DO1FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO1FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable Response:

```
sWA DO1FncTIMCE
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO1FncTIMCE	String	11	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO1FncTIMCE[ETX]`
Read Variable Response:	`[STX]sRA DO1FncTIMCE 0 0 0[ETX]`
Write Variable:	`[STX]sWN DO1FncTIMCE 0 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA DO1FncTIMCE[ETX]`

2.23.1.4. Variable: ExtOut2FuncTeachInMatchCodeEnh

The following section contains a detailed description of the variable ExtOut2FuncTeachInMatchCodeEnh.

Variable Overview

Variable Name
ExtOut2FuncTeachInMatchCodeEnh

Communication Name	DO2FncTIMCE
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	885
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
EnumValue			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_NOTHING	
UseExtraValue			
	Bool		
	Value Range	False, True	
	Initialisation	False	
ExtraValue			
	FlexString		
	Length	0..18	
	Initialisation		

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Variable Telegram Syntax

Read Variable:				
`sRN DO2FncTIMCE`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DO2FncTIMCE	String	11	

Read Variable Response:				
`sRA DO2FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DO2FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable:				
`sWN DO2FncTIMCE <EnumValue> <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DO2FncTIMCE	String	11	
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA DO2FncTIMCE`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DO2FncTIMCE	String	11	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DO2FncTIMCE[ETX]`
Read Variable Response:	`[STX]sRA DO2FncTIMCE 0 0 0[ETX]`
Write Variable:	`[STX]sWN DO2FncTIMCE 0 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA DO2FncTIMCE[ETX]`

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2.23.2. Group: SystemControlEnh

2.23.2.1. Variable: LocationNameDefaultValue

The following section contains a detailed description of the variable LocationNameDefaultValue.

Variable Overview

Variable Name	Description
LocationNameDefaultValue	Default Value for the LocationName

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	886
Read-Access	Always
Write-Access	Always

FlexString	
Length	0..64
Initialisation	CLV6xx

Variable Telegram Syntax

Read Variable:

```
sRN LocationNameDefaultValue
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	LocationNameDefaultValue	String	24	Default Value for the LocationName

Read Variable Response:

```
sRA LocationNameDefaultValue <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	LocationNameDefaultValue	String	24	Default Value for the LocationName
Variable Data	data	FlexString	64	

Write Variable:

```
sWN LocationNameDefaultValue <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	LocationNameDefaultValue	String	24	Default Value for the LocationName
Variable Data	data	FlexString	64	

Write Variable Response:

```
sWA LocationNameDefaultValue
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	LocationNameDefaultValue	String	24	Default Value for the LocationName

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN LocationNameDefaultValue[ETX]`
Read Variable Response:	`[STX]sRA LocationNameDefaultValue 6 CLV6xx[ETX]`
Write Variable:	`[STX]sWN LocationNameDefaultValue +6 CLV6xx[ETX]`
Write Variable Response:	`[STX]sWA LocationNameDefaultValue[ETX]`

2.23.2.2. Method: LoadFactoryDefaultsRaw

The following section contains a detailed description of the method LoadFactoryDefaultsRaw.

Method Overview

Method Name	Description
LoadFactoryDefaultsRaw	See LoadFactoryDefaults, but does not apply customer specific defaults

Communication Name	mSCloadfacdefraw
Sopas Index	129
Invocation Access	AuthorizedClient

Method Telegram Syntax

Method Invocation:				
`sMN mSCloadfacdefraw`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSCloadfacdefraw	String	16	See LoadFactoryDefaults, but does not apply customer specific defaults

Method Return Value:				
`sAN mSCloadfacdefraw`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSCloadfacdefraw	String	16	See LoadFactoryDefaults, but does not apply customer specific defaults

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSCloadfacdefraw[ETX]`
Method Return Value:	`[STX]sAN mSCloadfacdefraw[ETX]`

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2.23.3. Group: Serial

2.23.3.1. Variable: SerHostCustomProtNb

The following section contains a detailed description of the variable SerHostCustomProtNb.

Variable Overview

Variable Name	Description
SerHostCustomProtNb	Protocol number for the custom protocol

Communication Name	SIHstCstProtNb
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	887
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..9999
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN SIHstCstProtNb`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstCstProtNb	String	14	Protocol number for the custom protocol

Read Variable Response:				
`sRA SIHstCstProtNb <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstCstProtNb	String	14	Protocol number for the custom protocol
Variable Data	data	UInt	2	

Write Variable:				
`sWN SIHstCstProtNb <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstCstProtNb	String	14	Protocol number for the custom protocol
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA SIHstCstProtNb				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstCstProtNb	String	14	Protocol number for the custom protocol

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstCstProtNb[ETX]
Read Variable Response:	[STX]sRA SIHstCstProtNb 1[ETX]
Write Variable:	[STX]sWN SIHstCstProtNb 1[ETX]
Write Variable Response:	[STX]sWA SIHstCstProtNb[ETX]

2.23.3.2. Variable: SerHostXonXoff

The following section contains a detailed description of the variable SerHostXonXoff.

Variable Overview

Variable Name	Description
SerHostXonXoff	checked if xon xoff is active on serial host

Communication Name	SIHstXonXoff
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	888
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN SIHstXonXoff`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstXonXoff	String	12	checked if xon xoff is active on serial host

Read Variable Response:				
`sRA SIHstXonXoff <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstXonXoff	String	12	checked if xon xoff is active on serial host
Variable Data	data	Bool	1	

Write Variable:				
`sWN SIHstXonXoff <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstXonXoff	String	12	checked if xon xoff is active on serial host
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA SIHstXonXoff`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstXonXoff	String	12	checked if xon xoff is active on serial host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstXonXoff[ETX]`
Read Variable Response:	`[STX]sRA SIHstXonXoff 0[ETX]`
Write Variable:	`[STX]sWN SIHstXonXoff 0[ETX]`
Write Variable Response:	`[STX]sWA SIHstXonXoff[ETX]`

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2.23.3.3. Variable: SerHostHandshakeMode

The following section contains a detailed description of the variable SerHostHandshakeMode.

Variable Overview

Variable Name	Description
SerHostHandshakeMode	Handshake Mode like Ack/Nak

Communication Name	SIHstHndshkMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	889
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_HANDSHAKE	
	1	TX_NAK	
	2	TX_ACKNAK	

Variable Telegram Syntax

Read Variable:

```
sRN SIHstHndshkMd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstHndshkMd	String	13	Handshake Mode like Ack/Nak

Read Variable Response:

```
sRA SIHstHndshkMd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstHndshkMd	String	13	Handshake Mode like Ack/Nak
Variable Data	data	Enum8	1	

Write Variable:

```
sWN SIHstHndshkMd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstHndshkMd	String	13	Handshake Mode like Ack/Nak
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA SIHstHndshkMd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA SIHstHndshkMd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	SIHstHndshkMd	String	13	Handshake Mode like Ack/Nak

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SIHstHndshkMd[ETX]
Read Variable Response:	[STX]sRA SIHstHndshkMd 0[ETX]
Write Variable:	[STX]sWN SIHstHndshkMd 0[ETX]
Write Variable Response:	[STX]sWA SIHstHndshkMd[ETX]

2.23.3.4. Variable: SerHostHandshakeTimeout

The following section contains a detailed description of the variable SerHostHandshakeTimeout.

Variable Overview

Variable Name	Description
SerHostHandshakeTimeout	checked if xon xoff is active on serial host

Communication Name	SIHstHndshkTmout
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	890
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	50
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN SIHstHndshkTmout`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SIHstHndshkTmout	String	16	checked if xon xoff is active on serial host

Read Variable Response:				
`sRA SIHstHndshkTmout <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SIHstHndshkTmout	String	16	checked if xon xoff is active on serial host
Variable Data	data	UInt	2	

Write Variable:				
`sWN SIHstHndshkTmout <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SIHstHndshkTmout	String	16	checked if xon xoff is active on serial host
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA SIHstHndshkTmout`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SIHstHndshkTmout	String	16	checked if xon xoff is active on serial host

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SIHstHndshkTmout[ETX]`
Read Variable Response:	`[STX]sRA SIHstHndshkTmout 32[ETX]`
Write Variable:	`[STX]sWN SIHstHndshkTmout 32[ETX]`
Write Variable Response:	`[STX]sWA SIHstHndshkTmout[ETX]`

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2.23.4. Group: Ethernet

2.23.4.1. Variable: EthHostCustomProtNb

The following section contains a detailed description of the variable EthHostCustomProtNb.

Variable Overview

Variable Name	Description
EthHostCustomProtNb	Protocol number for the custom protocol

Communication Name	EIHstCstProtNb
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	891
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..9999
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIHstCstProtNb
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstCstProtNb	String	14	Protocol number for the custom protocol

Read Variable Response:

```
sRA EIHstCstProtNb <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstCstProtNb	String	14	Protocol number for the custom protocol
Variable Data	data	UInt	2	

Write Variable:

```
sWN EIHstCstProtNb <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstCstProtNb	String	14	Protocol number for the custom protocol
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA EIHstCstProtNb				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstCstProtNb	String	14	Protocol number for the custom protocol

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIHstCstProtNb[ETX]
Read Variable Response:	[STX]sRA EIHstCstProtNb 1[ETX]
Write Variable:	[STX]sWN EIHstCstProtNb 1[ETX]
Write Variable Response:	[STX]sWA EIHstCstProtNb[ETX]

2.23.4.2. Variable: EthHostHandshakeMode

The following section contains a detailed description of the variable EthHostHandshakeMode.

Variable Overview

Variable Name	Description
EthHostHandshakeMode	Handshake Mode like Ack/Nak

Communication Name	EIHstHndshkMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	892
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NO_HANDSHAKE	
	1	TX_NAK	
	2	TX_ACKNAK	

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Variable Telegram Syntax

Read Variable:				
`sRN EIHstHndshkMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstHndshkMd	String	13	Handshake Mode like Ack/Nak

Read Variable Response:				
`sRA EIHstHndshkMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstHndshkMd	String	13	Handshake Mode like Ack/Nak
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIHstHndshkMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstHndshkMd	String	13	Handshake Mode like Ack/Nak
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIHstHndshkMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstHndshkMd	String	13	Handshake Mode like Ack/Nak

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstHndshkMd[ETX]`
Read Variable Response:	`[STX]sRA EIHstHndshkMd 0[ETX]`
Write Variable:	`[STX]sWN EIHstHndshkMd 0[ETX]`
Write Variable Response:	`[STX]sWA EIHstHndshkMd[ETX]`

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2.23.4.3. Variable: EthHostHandshakeTimeout

The following section contains a detailed description of the variable EthHostHandshakeTimeout.

Variable Overview

Variable Name	Description
EthHostHandshakeTimeout	checked if xon xoff is active on serial host

Communication Name	EIHstHndshkTmout
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	893
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	50
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIHstHndshkTmout
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIHstHndshkTmout	String	16	checked if xon xoff is active on serial host

Read Variable Response:

```
sRA EIHstHndshkTmout <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIHstHndshkTmout	String	16	checked if xon xoff is active on serial host
Variable Data	data	UInt	2	

Write Variable:

```
sWN EIHstHndshkTmout <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIHstHndshkTmout	String	16	checked if xon xoff is active on serial host
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA EIHstHndshkTmout
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIHstHndshkTmout	String	16	checked if xon xoff is active on serial host

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIHstHndshkTmout[ETX]`
Read Variable Response:	`[STX]sRA EIHstHndshkTmout 32[ETX]`
Write Variable:	`[STX]sWN EIHstHndshkTmout 32[ETX]`
Write Variable Response:	`[STX]sWA EIHstHndshkTmout[ETX]`

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2.23.5. Group: FTP

2.23.5.1. Variable: FTPClientActive

The following section contains a detailed description of the variable FTPClientActive.

Variable Overview

Variable Name	Description
FTPClientActive	Enables FTP Client

Communication Name	FTClntAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	894
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN FTClntAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTClntAct	String	9	Enables FTP Client

Read Variable Response:

```
sRA FTClntAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTClntAct	String	9	Enables FTP Client
Variable Data	data	Bool	1	

Write Variable:

```
sWN FTClntAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTClntAct	String	9	Enables FTP Client
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA FTClntAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA FTClntAct				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	FTClntAct	String	9	Enables FTP Client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FTClntAct[ETX]
Read Variable Response:	[STX]sRA FTClntAct 0[ETX]
Write Variable:	[STX]sWN FTClntAct 0[ETX]
Write Variable Response:	[STX]sWA FTClntAct[ETX]

2.23.5.2. Variable: FTPServerIPAddress

The following section contains a detailed description of the variable FTPServerIPAddress.

Variable Overview

Variable Name	Description
FTPServerIPAddress	IP-Adress of Server for FTP

Communication Name	FTSvrAdr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	895
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	4
Default Value	{192,168,0,11}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN FTSvrAdr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTSvrAdr	String	8	IP-Adress of Server for FTP

Read Variable Response:				
`sRA FTSvrAdr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTSvrAdr	String	8	IP-Adress of Server for FTP
Variable Data	data	Array	4	

Write Variable:				
`sWN FTSvrAdr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTSvrAdr	String	8	IP-Adress of Server for FTP
Variable Data	data	Array	4	

Write Variable Response:				
`sWA FTSvrAdr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTSvrAdr	String	8	IP-Adress of Server for FTP

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTSvrAdr[ETX]`
Read Variable Response:	`[STX]sRA FTSvrAdr C0 A8 0 B[ETX]`
Write Variable:	`[STX]sWN FTSvrAdr C0 A8 0 B[ETX]`
Write Variable Response:	`[STX]sWA FTSvrAdr[ETX]`

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2.23.5.3. Variable: FTPServerIPPort

The following section contains a detailed description of the variable FTPServerIPPort.

Variable Overview

Variable Name	Description
FTPServerIPPort	IP-Port of Server for FTP

Communication Name	FTSvrPrt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	896
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	21
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN FTSvrPrt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTSvrPrt	String	8	IP-Port of Server for FTP

Read Variable Response:

```
sRA FTSvrPrt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTSvrPrt	String	8	IP-Port of Server for FTP
Variable Data	data	UInt	2	

Write Variable:

```
sWN FTSvrPrt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTSvrPrt	String	8	IP-Port of Server for FTP
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA FTSvrPrt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTSvrPrt	String	8	IP-Port of Server for FTP

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTSvrPrt[ETX]`
Read Variable Response:	`[STX]sRA FTSvrPrt 15[ETX]`
Write Variable:	`[STX]sWN FTSvrPrt 15[ETX]`
Write Variable Response:	`[STX]sWA FTSvrPrt[ETX]`

2.23.5.4. Variable: FTPHostname

The following section contains a detailed description of the variable FTPHostname.

Variable Overview

Variable Name	Description
FTPHostname	Hostname for FTP client

Communication Name	FTHstNm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	897
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	

Variable Telegram Syntax

Read Variable:

`sRN FTHstNm`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTHstNm	String	7	Hostname for FTP client

Read Variable Response:

`sRA FTHstNm <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTHstNm	String	7	Hostname for FTP client
Variable Data	data	FlexString	20	

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Write Variable:				
sWN FTHstNm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTHstNm	String	7	Hostname for FTP client
Variable Data	data	FlexString	20	

Write Variable Response:				
sWA FTHstNm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTHstNm	String	7	Hostname for FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FTHstNm[ETX]
Read Variable Response:	[STX]sRA FTHstNm 1 [ETX]
Write Variable:	[STX]sWN FTHstNm +1 [ETX]
Write Variable Response:	[STX]sWA FTHstNm[ETX]

2.23.5.5. Variable: FTPUsername

The following section contains a detailed description of the variable FTPUsername.

Variable Overview

Variable Name	Description
FTPUsername	Username of FTP client

Communication Name	FTClntUsrNm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	898
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	anonymous

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Variable Telegram Syntax

Read Variable:				
`sRN FTClntUsrNm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTClntUsrNm	String	11	Username of FTP client

Read Variable Response:				
`sRA FTClntUsrNm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTClntUsrNm	String	11	Username of FTP client
Variable Data	data	FlexString	20	

Write Variable:				
`sWN FTClntUsrNm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTClntUsrNm	String	11	Username of FTP client
Variable Data	data	FlexString	20	

Write Variable Response:				
`sWA FTClntUsrNm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTClntUsrNm	String	11	Username of FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTClntUsrNm[ETX]`
Read Variable Response:	`[STX]sRA FTClntUsrNm 9 anonymous[ETX]`
Write Variable:	`[STX]sWN FTClntUsrNm +9 anonymous[ETX]`
Write Variable Response:	`[STX]sWA FTClntUsrNm[ETX]`

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2.23.5.6. Variable: FTPPassword

The following section contains a detailed description of the variable FTPPassword.

Variable Overview

Variable Name	Description
FTPPassword	Password of FTP client

Communication Name	FTClntPasWd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	899
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	anonymous

Variable Telegram Syntax

Read Variable:

```
sRN FTClntPasWd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTClntPasWd	String	11	Password of FTP client

Read Variable Response:

```
sRA FTClntPasWd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTClntPasWd	String	11	Password of FTP client
Variable Data	data	FlexString	20	

Write Variable:

```
sWN FTClntPasWd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTClntPasWd	String	11	Password of FTP client
Variable Data	data	FlexString	20	

Write Variable Response:

```
sWA FTClntPasWd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTClntPasWd	String	11	Password of FTP client

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTClntPasWd[ETX]`
Read Variable Response:	`[STX]sRA FTClntPasWd 9 anonymous[ETX]`
Write Variable:	`[STX]sWN FTClntPasWd +9 anonymous[ETX]`
Write Variable Response:	`[STX]sWA FTClntPasWd[ETX]`

2.23.5.7. Variable: FTPUploadPath

The following section contains a detailed description of the variable FTPUploadPath.

Variable Overview

Variable Name	Description
FTPUploadPath	Upload Path of FTP client

Communication Name	FTClntUpPath
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	900
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..20
Initialisation	

Variable Telegram Syntax

Read Variable:				
`sRN FTClntUpPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTClntUpPath	String	12	Upload Path of FTP client

Read Variable Response:				
`sRA FTClntUpPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTClntUpPath	String	12	Upload Path of FTP client
Variable Data	data	FlexString	20	

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Write Variable:				
sWN FTClntUpPath <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTClntUpPath	String	12	Upload Path of FTP client
Variable Data	data	FlexString	20	

Write Variable Response:				
sWA FTClntUpPath				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTClntUpPath	String	12	Upload Path of FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FTClntUpPath[ETX]
Read Variable Response:	[STX]sRA FTClntUpPath 1 [ETX]
Write Variable:	[STX]sWN FTClntUpPath +1 [ETX]
Write Variable Response:	[STX]sWA FTClntUpPath[ETX]

2.23.5.8. Variable: FTPDevUpload

The following section contains a detailed description of the variable FTPDevUpload.

Variable Overview

Variable Name	Description
FTPDevUpload	Device specific Upload Path of FTP client

Communication Name	FTClntDevUpPath
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	901
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_SERIAL_NUMBER	
	1	TX_HOST_NAME	

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Variable Telegram Syntax

Read Variable:				
`sRN FTClntDevUpPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FTClntDevUpPath	String	15	Device specific Upload Path of FTP client

Read Variable Response:				
`sRA FTClntDevUpPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FTClntDevUpPath	String	15	Device specific Upload Path of FTP client
Variable Data	data	Enum8	1	

Write Variable:				
`sWN FTClntDevUpPath <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FTClntDevUpPath	String	15	Device specific Upload Path of FTP client
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA FTClntDevUpPath`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FTClntDevUpPath	String	15	Device specific Upload Path of FTP client

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN FTClntDevUpPath[ETX]`
Read Variable Response:	`[STX]sRA FTClntDevUpPath 0[ETX]`
Write Variable:	`[STX]sWN FTClntDevUpPath 0[ETX]`
Write Variable Response:	`[STX]sWA FTClntDevUpPath[ETX]`

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2.23.6. Group: HTTP

2.23.6.1. Variable: HTWebserverEnabled

The following section contains a detailed description of the variable HTWebserverEnabled.

Variable Overview

Variable Name	Description
HTWebserverEnabled	Enables HTTP Webserver

Communication Name	HTWSAct
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	902
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN HTWSAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	HTWSAct	String	7	Enables HTTP Webserver

Read Variable Response:

```
sRA HTWSAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	HTWSAct	String	7	Enables HTTP Webserver
Variable Data	data	Bool	1	

Write Variable:

```
sWN HTWSAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	HTWSAct	String	7	Enables HTTP Webserver
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA HTWSAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA HTWSAct				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	HTWSAct	String	7	Enables HTTP Webserver

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN HTWSAct[ETX]
Read Variable Response:	[STX]sRA HTWSAct 0[ETX]
Write Variable:	[STX]sWN HTWSAct 0[ETX]
Write Variable Response:	[STX]sWA HTWSAct[ETX]

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2.23.7. Group: Beeper

2.23.7.1. Variable: BeeperLoudness

The following section contains a detailed description of the variable BeeperLoudness.

Variable Overview

Variable Name	Description
BeeperLoudness	Defines the loudness of the beeper

Communication Name	BPLoudness
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	903
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_OFF	
	1	TX_SOFT	
	2	TX_LOUD	

Variable Telegram Syntax

Read Variable:				
`sRN BPLoudness`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	BPLoudness	String	10	Defines the loudness of the beeper

Read Variable Response:				
`sRA BPLoudness <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	BPLoudness	String	10	Defines the loudness of the beeper
Variable Data	data	Enum8	1	

Write Variable:				
`sWN BPLoudness <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	BPLoudness	String	10	Defines the loudness of the beeper
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA BPLoudness				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	BPLoudness	String	10	Defines the loudness of the beeper

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN BPLoudness[ETX]
Read Variable Response:	[STX]sRA BPLoudness 1[ETX]
Write Variable:	[STX]sWN BPLoudness 1[ETX]
Write Variable Response:	[STX]sWA BPLoudness[ETX]

2.23.7.2. Variable: BeeperFunc

The following section contains a detailed description of the variable BeeperFunc.

Variable Overview

Variable Name	Description
BeeperFunc	Function of Beeper

Communication Name	BPFunc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	904
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_GOOD_READ	
	1	TX_NO_READ	
	2	TX_TEACH1_SUCCESS	
	3	TX_TEACH1_FAIL	
	4	TX_TEACH2_SUCCESS	
	5	TX_TEACH2_FAIL	

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Variable Telegram Syntax

Read Variable:				
`sRN BPFunc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	BPFunc	String	6	Function of Beeper

Read Variable Response:				
`sRA BPFunc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	BPFunc	String	6	Function of Beeper
Variable Data	data	Enum8	1	

Write Variable:				
`sWN BPFunc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	BPFunc	String	6	Function of Beeper
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA BPFunc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	BPFunc	String	6	Function of Beeper

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN BPFunc[ETX]`
Read Variable Response:	`[STX]sRA BPFunc 0[ETX]`
Write Variable:	`[STX]sWN BPFunc 0[ETX]`
Write Variable Response:	`[STX]sWA BPFunc[ETX]`

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2.23.7.3. Variable: BeeperFuncExt

The following section contains a detailed description of the variable BeeperFuncExt.

Variable Overview

Variable Name	Description
BeeperFuncExt	Extension of beeper func for evalcond

Communication Name	BPFuncExt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	905
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN BPFuncExt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	BPFuncExt	String	9	Extension of beeper func for evalcond

Read Variable Response:

```
sRA BPFuncExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	BPFuncExt	String	9	Extension of beeper func for evalcond
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:

```
sWN BPFuncExt <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	BPFuncExt	String	9	Extension of beeper func for evalcond
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

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Write Variable Response:				
sWA BPFuncExt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	BPFuncExt	String	9	Extension of beeper func for evalcond

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN BPFuncExt[ETX]
Read Variable Response:	[STX]sRA BPFuncExt 0 0[ETX]
Write Variable:	[STX]sWN BPFuncExt 0 +0 0[ETX]
Write Variable Response:	[STX]sWA BPFuncExt[ETX]

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2.23.8. Group: Gateway

2.23.8.1. Variable: GatewaySerAux

The following section contains a detailed description of the variable GatewaySerAux.

Variable Overview

Variable Name	Description
GatewaySerAux	Defines wether there is a gateway on the serial aux interface

Communication Name	GWSerAuxMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	908
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NONE	
	1	TX_PROFIBUS_DP	
	2	TX_DEVICE_NET	

Variable Telegram Syntax

Read Variable:				
`sRN GWSerAuxMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWSerAuxMd	String	10	Defines wether there is a gateway on the serial aux interface

Read Variable Response:				
`sRA GWSerAuxMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWSerAuxMd	String	10	Defines wether there is a gateway on the serial aux interface
Variable Data	data	Enum8	1	

Write Variable:				
`sWN GWSerAuxMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWSerAuxMd	String	10	Defines wether there is a gateway on the serial aux interface
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA GWSerAuxMd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWSerAuxMd	String	10	Defines wether there is a gateway on the serial aux interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN GWSerAuxMd[ETX]
Read Variable Response:	[STX]sRA GWSerAuxMd 0[ETX]
Write Variable:	[STX]sWN GWSerAuxMd 0[ETX]
Write Variable Response:	[STX]sWA GWSerAuxMd[ETX]

2.23.8.2. Variable: GatewaySerHost

The following section contains a detailed description of the variable GatewaySerHost.

Variable Overview

Variable Name	Description
GatewaySerHost	Defines wether there is a gateway on the serial host interface

Communication Name	GWSerHstMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	909
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NONE	
	1	TX_PROFIBUS_DP	
	2	TX_DEVICE_NET	
	3	TX_PROFINET	

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Variable Telegram Syntax

Read Variable:				
`sRN GWSerHstMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWSerHstMd	String	10	Defines wether there is a gateway on the serial host interface

Read Variable Response:				
`sRA GWSerHstMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWSerHstMd	String	10	Defines wether there is a gateway on the serial host interface
Variable Data	data	Enum8	1	

Write Variable:				
`sWN GWSerHstMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWSerHstMd	String	10	Defines wether there is a gateway on the serial host interface
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA GWSerHstMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWSerHstMd	String	10	Defines wether there is a gateway on the serial host interface

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN GWSerHstMd[ETX]`
Read Variable Response:	`[STX]sRA GWSerHstMd 0[ETX]`
Write Variable:	`[STX]sWN GWSerHstMd 0[ETX]`
Write Variable Response:	`[STX]sWA GWSerHstMd[ETX]`

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2.23.8.3. Variable: GatewayPBDevIDIsPBAdress

The following section contains a detailed description of the variable GatewayPBDevIDIsPBAdress.

Variable Overview

Variable Name	Description
GatewayPBDevIDIsPBAdress	If true, so the device ID is us used as Profilbus address

Communication Name	GWPBdevIDPBAdr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	910
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN GWPBdevIDPBAdr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWPBdevIDPBAdr	String	14	If true, so the device ID is us used as Profilbus address

Read Variable Response:

```
sRA GWPBdevIDPBAdr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWPBdevIDPBAdr	String	14	If true, so the device ID is us used as Profilbus address
Variable Data	data	Bool	1	

Write Variable:

```
sWN GWPBdevIDPBAdr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWPBdevIDPBAdr	String	14	If true, so the device ID is us used as Profilbus address
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA GWPBdevIDPBAdr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA GWPBdevIDPBAdr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	GWPBdevIDPBAdr	String	14	If true, so the device ID is us used as Profilbus address

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN GWPBdevIDPBAdr[ETX]
Read Variable Response:	[STX]sRA GWPBdevIDPBAdr 1[ETX]
Write Variable:	[STX]sWN GWPBdevIDPBAdr 1[ETX]
Write Variable Response:	[STX]sWA GWPBdevIDPBAdr[ETX]

2.23.8.4. Variable: GatewayPBAddress

The following section contains a detailed description of the variable GatewayPBAddress.

Variable Overview

Variable Name	Description
GatewayPBAddress	Address of Profibus if device address is not used

Communication Name	GWPBAddr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	911
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..125
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN GWPBAddr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWPBAddr	String	8	Address of Profibus if device address is not used

Read Variable Response:				
`sRA GWPBAddr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWPBAddr	String	8	Address of Profibus if device address is not used
Variable Data	data	UInt	2	

Write Variable:				
`sWN GWPBAddr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWPBAddr	String	8	Address of Profibus if device address is not used
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA GWPBAddr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWPBAddr	String	8	Address of Profibus if device address is not used

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN GWPBAddr[ETX]`
Read Variable Response:	`[STX]sRA GWPBAddr 1[ETX]`
Write Variable:	`[STX]sWN GWPBAddr 1[ETX]`
Write Variable Response:	`[STX]sWA GWPBAddr[ETX]`

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2.23.8.5. Variable: GatewayPBOpMode

The following section contains a detailed description of the variable GatewayPBOpMode.

Variable Overview

Variable Name	Description
GatewayPBOpMode	Operating mode of ProfiBUS gateway

Communication Name	GWPBOpMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	912
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_CMF_STD_FORMAT_BYTE_HANDSHAKE	
	1	TX_CMF_STD_FORMAT_NO_BYTE_HANDSHAKE	
	2	TX_BMV_COMPATIBLE	

Variable Telegram Syntax

Read Variable:

```
sRN GWPBOpMd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWPBOpMd	String	8	Operating mode of ProfiBUS gateway

Read Variable Response:

```
sRA GWPBOpMd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWPBOpMd	String	8	Operating mode of ProfiBUS gateway
Variable Data	data	Enum8	1	

Write Variable:

```
sWN GWPBOpMd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWPBOpMd	String	8	Operating mode of ProfiBUS gateway
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA GWPBOpMd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWPBOpMd	String	8	Operating mode of ProfiBUS gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN GWPBOpMd[ETX]
Read Variable Response:	[STX]sRA GWPBOpMd 0[ETX]
Write Variable:	[STX]sWN GWPBOpMd 0[ETX]
Write Variable Response:	[STX]sWA GWPBOpMd[ETX]

2.23.8.6. Variable: GatewayDNAddress

The following section contains a detailed description of the variable GatewayDNAddress.

Variable Overview

Variable Name	Description
GatewayDNAddress	Address of DeviceNet if device address is not used

Communication Name	GWDNAddr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	913
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..125
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN GWDNAddr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWDNAddr	String	8	Address of DeviceNet if device address is not used

Read Variable Response:				
`sRA GWDNAddr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWDNAddr	String	8	Address of DeviceNet if device address is not used
Variable Data	data	UInt	2	

Write Variable:				
`sWN GWDNAddr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWDNAddr	String	8	Address of DeviceNet if device address is not used
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA GWDNAddr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWDNAddr	String	8	Address of DeviceNet if device address is not used

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN GWDNAddr[ETX]`
Read Variable Response:	`[STX]sRA GWDNAddr 1[ETX]`
Write Variable:	`[STX]sWN GWDNAddr 1[ETX]`
Write Variable Response:	`[STX]sWA GWDNAddr[ETX]`

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2.23.8.7. Variable: GatewayDNDevIDIsDNAdress

The following section contains a detailed description of the variable GatewayDNDevIDIsDNAdress.

Variable Overview

Variable Name	Description
GatewayDNDevIDIsDNAdress	If true, so the device ID is us used as DeviceNet address

Communication Name	GWDNdevIDDNAdr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	914
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN GWDNdevIDDNAdr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWDNdevIDDNAdr	String	14	If true, so the device ID is us used as DeviceNet address

Read Variable Response:

```
sRA GWDNdevIDDNAdr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWDNdevIDDNAdr	String	14	If true, so the device ID is us used as DeviceNet address
Variable Data	data	Bool	1	

Write Variable:

```
sWN GWDNdevIDDNAdr <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWDNdevIDDNAdr	String	14	If true, so the device ID is us used as DeviceNet address
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA GWDNdevIDDNAdr
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA GWDNdevIDDNAdr				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	GWDNdevIDDNAdr	String	14	If true, so the device ID is us used as DeviceNet address

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN GWDNdevIDDNAdr[ETX]
Read Variable Response:	[STX]sRA GWDNdevIDDNAdr 1[ETX]
Write Variable:	[STX]sWN GWDNdevIDDNAdr 1[ETX]
Write Variable Response:	[STX]sWA GWDNdevIDDNAdr[ETX]

2.23.8.8. Variable: GatewayDNOpMode

The following section contains a detailed description of the variable GatewayDNOpMode.

Variable Overview

Variable Name	Description
GatewayDNOpMode	Operating mode of DeviceNet gateway

Communication Name	GWDNOpMd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	915
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_CMF_STD_FORMAT_BYTE_HANDSHAKE	
	1	TX_CMF_STD_FORMAT_NO_BYTE_HANDSHAKE	

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Variable Telegram Syntax

Read Variable:				
`sRN GWDNOpMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWDNOpMd	String	8	Operating mode of DeviceNet gateway

Read Variable Response:				
`sRA GWDNOpMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWDNOpMd	String	8	Operating mode of DeviceNet gateway
Variable Data	data	Enum8	1	

Write Variable:				
`sWN GWDNOpMd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWDNOpMd	String	8	Operating mode of DeviceNet gateway
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA GWDNOpMd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWDNOpMd	String	8	Operating mode of DeviceNet gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN GWDNOpMd[ETX]`
Read Variable Response:	`[STX]sRA GWDNOpMd 0[ETX]`
Write Variable:	`[STX]sWN GWDNOpMd 0[ETX]`
Write Variable Response:	`[STX]sWA GWDNOpMd[ETX]`

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2.23.8.9. Variable: GatewayDNBaudrate

The following section contains a detailed description of the variable GatewayDNBaudrate.

Variable Overview

Variable Name	Description
GatewayDNBaudrate	Baudrate DeviceNet gateway

Communication Name	GWDNBdRt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	916
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_125_KBAUD	
	1	TX_250_KBAUD	
	2	TX_500_KBAUD	

Variable Telegram Syntax

Read Variable:

```
sRN GWDNBdRt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWDNBdRt	String	8	Baudrate DeviceNet gateway

Read Variable Response:

```
sRA GWDNBdRt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWDNBdRt	String	8	Baudrate DeviceNet gateway
Variable Data	data	Enum8	1	

Write Variable:

```
sWN GWDNBdRt <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWDNBdRt	String	8	Baudrate DeviceNet gateway
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA GWDNBdRt
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA GWDNBdRt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	GWDNBdRt	String	8	Baudrate DeviceNet gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN GWDNBdRt[ETX]
Read Variable Response:	[STX]sRA GWDNBdRt 0[ETX]
Write Variable:	[STX]sWN GWDNBdRt 0[ETX]
Write Variable Response:	[STX]sWA GWDNBdRt[ETX]

2.23.8.10. Variable: GatewayDNInputDataLength

The following section contains a detailed description of the variable GatewayDNInputDataLength.

Variable Overview

Variable Name	Description
GatewayDNInputDataLength	Input Data length of DeviceNet gateway

Communication Name	GWDNInDtL
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	917
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	8..240
Initialisation	32
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN GWDNInDtL`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWDNInDtL	String	9	Input Data length of DeviceNet gateway

Read Variable Response:				
`sRA GWDNInDtL <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWDNInDtL	String	9	Input Data length of DeviceNet gateway
Variable Data	data	USInt	1	

Write Variable:				
`sWN GWDNInDtL <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWDNInDtL	String	9	Input Data length of DeviceNet gateway
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA GWDNInDtL`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWDNInDtL	String	9	Input Data length of DeviceNet gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN GWDNInDtL[ETX]`
Read Variable Response:	`[STX]sRA GWDNInDtL 20[ETX]`
Write Variable:	`[STX]sWN GWDNInDtL 20[ETX]`
Write Variable Response:	`[STX]sWA GWDNInDtL[ETX]`

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2.23.8.11. Variable: GatewayDNOutputDataLength

The following section contains a detailed description of the variable GatewayDNOutputDataLength.

Variable Overview

Variable Name	Description
GatewayDNOutputDataLength	Output Data length of DeviceNet gateway

Communication Name	GWDNOutDtL
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	918
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	8..240
Initialisation	32
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN GWDNOutDtL
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	GWDNOutDtL	String	10	Output Data length of DeviceNet gateway

Read Variable Response:

```
sRA GWDNOutDtL <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	GWDNOutDtL	String	10	Output Data length of DeviceNet gateway
Variable Data	data	USInt	1	

Write Variable:

```
sWN GWDNOutDtL <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	GWDNOutDtL	String	10	Output Data length of DeviceNet gateway
Variable Data	data	USInt	1	

Write Variable Response:

```
sWA GWDNOutDtL
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	GWDNOutDtL	String	10	Output Data length of DeviceNet gateway

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN GWDNOutDtL[ETX]`
Read Variable Response:	`[STX]sRA GWDNOutDtL 20[ETX]`
Write Variable:	`[STX]sWN GWDNOutDtL 20[ETX]`
Write Variable Response:	`[STX]sWA GWDNOutDtL[ETX]`

2.23.8.12. Variable: GatewayPNCmtrlIPAddress

The following section contains a detailed description of the variable GatewayPNCmtrlIPAddress.

Variable Overview

Variable Name	Description
GatewayPNCmtrlIPAddress	IP-Address of the ProfiNet Gateway

Communication Name	PNIpAddr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	919
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		4
Default Value		{192,168,0,2}
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN PNIpAddr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNIpAddr	String	8	IP-Address of the ProfiNet Gateway

Read Variable Response:				
`sRA PNIpAddr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNIpAddr	String	8	IP-Address of the ProfiNet Gateway
Variable Data	data	Array	4	

Write Variable:				
`sWN PNIpAddr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNIpAddr	String	8	IP-Address of the ProfiNet Gateway
Variable Data	data	Array	4	

Write Variable Response:				
`sWA PNIpAddr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNIpAddr	String	8	IP-Address of the ProfiNet Gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PNIpAddr[ETX]`
Read Variable Response:	`[STX]sRA PNIpAddr C0 A8 0 2[ETX]`
Write Variable:	`[STX]sWN PNIpAddr C0 A8 0 2[ETX]`
Write Variable Response:	`[STX]sWA PNIpAddr[ETX]`

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2.23.8.13. Variable: GatewayPNCmtrlIGateAddress

The following section contains a detailed description of the variable GatewayPNCmtrlIGateAddress.

Variable Overview

Variable Name	Description
GatewayPNCmtrlIGateAddress	Gate Address of the ProfiNet Gateway

Communication Name	PNgate
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	920
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array	
Length	4
Default Value	{0,0,0,0}
USInt	
Value Range	0..255
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN PNgate
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNgate	String	6	Gate Address of the ProfiNet Gateway

Read Variable Response:

```
sRA PNgate <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNgate	String	6	Gate Address of the ProfiNet Gateway
Variable Data	data	Array	4	

Write Variable:

```
sWN PNgate <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNgate	String	6	Gate Address of the ProfiNet Gateway
Variable Data	data	Array	4	

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Write Variable Response:				
sWA PNgate				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNgate	String	6	Gate Address of the ProfiNet Gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PNgate[ETX]
Read Variable Response:	[STX]sRA PNgate 0 0 0 0[ETX]
Write Variable:	[STX]sWN PNgate 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA PNgate[ETX]

2.23.8.14. Variable: GatewayPNCmtrlIIPMask

The following section contains a detailed description of the variable GatewayPNCmtrlIIPMask.

Variable Overview

Variable Name	Description
GatewayPNCmtrlIIPMask	Netmask of the ProfiNet Gateway

Communication Name	PNMask
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	921
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		4
Default Value		{255,255,255,0}
	USInt	
	Value Range	0..255
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN PNMask`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNMask	String	6	Netmask of the ProfiNet Gateway

Read Variable Response:				
`sRA PNMask <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNMask	String	6	Netmask of the ProfiNet Gateway
Variable Data	data	Array	4	

Write Variable:				
`sWN PNMask <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNMask	String	6	Netmask of the ProfiNet Gateway
Variable Data	data	Array	4	

Write Variable Response:				
`sWA PNMask`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNMask	String	6	Netmask of the ProfiNet Gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PNMask[ETX]`
Read Variable Response:	`[STX]sRA PNMask FF FF FF 0[ETX]`
Write Variable:	`[STX]sWN PNMask FF FF FF 0[ETX]`
Write Variable Response:	`[STX]sWA PNMask[ETX]`

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2.23.8.15. Variable: GatewayPNCmtrlUseDHCP

The following section contains a detailed description of the variable GatewayPNCmtrlUseDHCP.

Variable Overview

Variable Name	Description
GatewayPNCmtrlUseDHCP	If true the gateway will use DHCP to get IP adress, mask and GW

Communication Name	PNDHCP
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	922
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN PNDHCP
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNDHCP	String	6	If true the gateway will use DHCP to get IP adress, mask and GW

Read Variable Response:

```
sRA PNDHCP <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNDHCP	String	6	If true the gateway will use DHCP to get IP adress, mask and GW
Variable Data	data	Bool	1	

Write Variable:

```
sWN PNDHCP <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNDHCP	String	6	If true the gateway will use DHCP to get IP adress, mask and GW
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA PNDHCP
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA PNDHCP				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	PNDHCP	String	6	If true the gateway will use DHCP to get IP adress, mask and GW

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PNDHCP[ETX]
Read Variable Response:	[STX]sRA PNDHCP 0[ETX]
Write Variable:	[STX]sWN PNDHCP 0[ETX]
Write Variable Response:	[STX]sWA PNDHCP[ETX]

2.23.8.16. Variable: GatewayPNCmtrlStationName

The following section contains a detailed description of the variable GatewayPNCmtrlStationName.

Variable Overview

Variable Name	Description
GatewayPNCmtrlStationName	Station Name of the ProfiNet Gateway

Communication Name	PNStaID
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	923
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..240
Initialisation	CDM425

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Variable Telegram Syntax

Read Variable:				
`sRN PNStaID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNStaID	String	7	Station Name of the ProfiNet Gateway

Read Variable Response:				
`sRA PNStaID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNStaID	String	7	Station Name of the ProfiNet Gateway
Variable Data	data	FlexString	240	

Write Variable:				
`sWN PNStaID <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNStaID	String	7	Station Name of the ProfiNet Gateway
Variable Data	data	FlexString	240	

Write Variable Response:				
`sWA PNStaID`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNStaID	String	7	Station Name of the ProfiNet Gateway

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PNStaID[ETX]`
Read Variable Response:	`[STX]sRA PNStaID 6 CDM425[ETX]`
Write Variable:	`[STX]sWN PNStaID +6 CDM425[ETX]`
Write Variable Response:	`[STX]sWA PNStaID[ETX]`

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2.23.9. Group: Profibus

2.23.9.1. Variable: CdfProfiCmMode

The following section contains a detailed description of the variable CdfProfiCmMode.

Variable Overview

Variable Name	Description
CdfProfiCmMode	Profibus mode (Mode 1-4)

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	924
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_MODE_CDF600_HANDSHAKE	
	Value	Name	Description
	0	TX_MODE_BMV	
	1	TX_MODE_CDF400_NO_HANDSHAKE	
	2	TX_MODE_CDF400_HANDSHAKE	
	3	TX_MODE_CDF600_HANDSHAKE	
	4	TX_MODE_CDF600_NO_HANDSHAKE	

Variable Telegram Syntax

Read Variable:

```
sRN CdfProfiCmMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfProfiCmMode	String	14	Profibus mode (Mode 1-4)

Read Variable Response:

```
sRA CdfProfiCmMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfProfiCmMode	String	14	Profibus mode (Mode 1-4)
Variable Data	data	Enum8	1	

Write Variable:

```
sWN CdfProfiCmMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfProfiCmMode	String	14	Profibus mode (Mode 1-4)
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA CdfProfiCmMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfProfiCmMode	String	14	Profibus mode (Mode 1-4)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CdfProfiCmMode[ETX]
Read Variable Response:	[STX]sRA CdfProfiCmMode 3[ETX]
Write Variable:	[STX]sWN CdfProfiCmMode 3[ETX]
Write Variable Response:	[STX]sWA CdfProfiCmMode[ETX]

2.23.9.2. Variable: CdfSelectDataFormat

The following section contains a detailed description of the variable CdfSelectDataFormat.

Variable Overview

Variable Name	Description
CdfSelectDataFormat	Format string for user data

Communication Name	CdfSelDataFrmt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	925
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_NO_OUTPUT	
	1	TX_OUTPUT_FORMAT_DEF_1	
	2	TX_OUTPUT_FORMAT_DEF_2	

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Variable Telegram Syntax

Read Variable:				
`sRN CdfSelDataFrmt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfSelDataFrmt	String	14	Format string for user data

Read Variable Response:				
`sRA CdfSelDataFrmt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfSelDataFrmt	String	14	Format string for user data
Variable Data	data	Enum8	1	

Write Variable:				
`sWN CdfSelDataFrmt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfSelDataFrmt	String	14	Format string for user data
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA CdfSelDataFrmt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfSelDataFrmt	String	14	Format string for user data

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfSelDataFrmt[ETX]`
Read Variable Response:	`[STX]sRA CdfSelDataFrmt 1[ETX]`
Write Variable:	`[STX]sWN CdfSelDataFrmt 1[ETX]`
Write Variable Response:	`[STX]sWA CdfSelDataFrmt[ETX]`

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2.23.9.3. Variable: CdfCanMultiplexSend

The following section contains a detailed description of the variable CdfCanMultiplexSend.

Variable Overview

Variable Name	Description
CdfCanMultiplexSend	Enables if CDF sends Multiplexer output data

Communication Name	CdfCanMpxOutEnable
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	926
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN CdfCanMpxOutEnable
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfCanMpxOutEnable	String	18	Enables if CDF sends Multiplexer output data

Read Variable Response:

```
sRA CdfCanMpxOutEnable <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfCanMpxOutEnable	String	18	Enables if CDF sends Multiplexer output data
Variable Data	data	Bool	1	

Write Variable:

```
sWN CdfCanMpxOutEnable <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfCanMpxOutEnable	String	18	Enables if CDF sends Multiplexer output data
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA CdfCanMpxOutEnable
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfCanMpxOutEnable	String	18	Enables if CDF sends Multiplexer output data

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN CdfCanMpxOutEnable[ETX]`
Read Variable Response:	`[STX]sRA CdfCanMpxOutEnable 0[ETX]`
Write Variable:	`[STX]sWN CdfCanMpxOutEnable 0[ETX]`
Write Variable Response:	`[STX]sWA CdfCanMpxOutEnable[ETX]`

2.23.9.4. Variable: Usage_CdfProfibusFhOut1

The following section contains a detailed description of the variable Usage_CdfProfibusFhOut1.

Variable Overview

Variable Name	Description
Usage_CdfProfibusFhOut1	Function for input bit 1 which comes from PLC in the framing header if CDF600 is running in CDF400 mode

Communication Name	PBUsage_CdfFhOut1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	927
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_NO_FUNCTION	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_RD_TRIGGER	
	2	TX_SET_EXTOUT1	
	6	TX_DISTANCE_CONFIG0	

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Variable Telegram Syntax

Read Variable:				
`sRN PBUsage_CdfFhOut1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PBUsage_CdfFhOut1	String	17	Function for input bit 1 which comes from PLC in the framing header if CDF600 is running in CDF400 mode

Read Variable Response:				
`sRA PBUsage_CdfFhOut1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PBUsage_CdfFhOut1	String	17	Function for input bit 1 which comes from PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

Write Variable:				
`sWN PBUsage_CdfFhOut1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PBUsage_CdfFhOut1	String	17	Function for input bit 1 which comes from PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA PBUsage_CdfFhOut1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PBUsage_CdfFhOut1	String	17	Function for input bit 1 which comes from PLC in the framing header if CDF600 is running in CDF400 mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PBUsage_CdfFhOut1[ETX]`
Read Variable Response:	`[STX]sRA PBUsage_CdfFhOut1 0[ETX]`
Write Variable:	`[STX]sWN PBUsage_CdfFhOut1 0[ETX]`
Write Variable Response:	`[STX]sWA PBUsage_CdfFhOut1[ETX]`

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2.23.9.5. Variable: Usage_CdfProfibusFhOut2

The following section contains a detailed description of the variable Usage_CdfProfibusFhOut2.

Variable Overview

Variable Name	Description
Usage_CdfProfibusFhOut2	Function for bit 2 which comes from PLC in the framing header if CDF600 is running in CDF400 mode

Communication Name	PBUsage_CdfFhOut2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	928
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_NO_FUNCTION	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_RD_TRIGGER	
	2	TX_SET_EXTOUT2	
	6	TX_DISTANCE_CONFIG1	

Variable Telegram Syntax

Read Variable:

```
sRN PBUsage_CdfFhOut2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PBUsage_CdfFhOut2	String	17	Function for bit 2 which comes from PLC in the framing header if CDF600 is running in CDF400 mode

Read Variable Response:

```
sRA PBUsage_CdfFhOut2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PBUsage_CdfFhOut2	String	17	Function for bit 2 which comes from PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

Write Variable:

```
sWN PBUsage_CdfFhOut2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PBUsage_CdfFhOut2	String	17	Function for bit 2 which comes from PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA PBUsage_CdfFhOut2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PBUsage_CdfFhOut2	String	17	Function for bit 2 which comes from PLC in the framing header if CDF600 is running in CDF400 mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PBUsage_CdfFhOut2[ETX]
Read Variable Response:	[STX]sRA PBUsage_CdfFhOut2 0[ETX]
Write Variable:	[STX]sWN PBUsage_CdfFhOut2 0[ETX]
Write Variable Response:	[STX]sWA PBUsage_CdfFhOut2[ETX]

2.23.9.6. Variable: Usage_CdfProfibusFhIn1

The following section contains a detailed description of the variable Usage_CdfProfibusFhIn1.

Variable Overview

Variable Name	Description
Usage_CdfProfibusFhIn1	Function for CLV output bit 1 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	929
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_NO_FUNCTION	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_DEV_READY	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_IN1_STATUS	
	6	TX_IN2_STATUS	
	7	TX_EXTIN1_STATUS	
	8	TX_EXTIN2_STATUS	
	9	TX_OUT1_STATUS	
	10	TX_OUT2_STATUS	
	11	TX_EXTOUT1_STATUS	
	12	TX_EXTOUT2_STATUS	

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Variable Telegram Syntax

Read Variable:				
`sRN Usage_CdfProfibusFhIn1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	Usage_CdfProfibusFhIn1	String	22	Function for CLV output bit 1 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode

Read Variable Response:				
`sRA Usage_CdfProfibusFhIn1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	Usage_CdfProfibusFhIn1	String	22	Function for CLV output bit 1 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

Write Variable:				
`sWN Usage_CdfProfibusFhIn1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	Usage_CdfProfibusFhIn1	String	22	Function for CLV output bit 1 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA Usage_CdfProfibusFhIn1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	Usage_CdfProfibusFhIn1	String	22	Function for CLV output bit 1 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN Usage_CdfProfibusFhIn1[ETX]`
Read Variable Response:	`[STX]sRA Usage_CdfProfibusFhIn1 0[ETX]`
Write Variable:	`[STX]sWN Usage_CdfProfibusFhIn1 0[ETX]`
Write Variable Response:	`[STX]sWA Usage_CdfProfibusFhIn1[ETX]`

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2.23.9.7. Variable: Usage_CdfProfibusFhIn2

The following section contains a detailed description of the variable Usage_CdfProfibusFhIn2.

Variable Overview

Variable Name	Description
Usage_CdfProfibusFhIn2	Function for CLV output bit 2 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode

Communication Name	PBUsage_CdfFhIn2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	930
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_NO_FUNCTION	
	Value	Name	Description
	0	TX_NO_FUNCTION	
	1	TX_DEV_READY	
	3	TX_GOOD_READ	
	4	TX_NO_READ	
	5	TX_IN1_STATUS	
	6	TX_IN2_STATUS	
	7	TX_EXTIN1_STATUS	
	8	TX_EXTIN2_STATUS	
	9	TX_OUT1_STATUS	
	10	TX_OUT2_STATUS	
	11	TX_EXTOUT1_STATUS	
	12	TX_EXTOUT2_STATUS	

Variable Telegram Syntax

Read Variable:

```
sRN PBUsage_CdfFhIn2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PBUsage_CdfFhIn2	String	16	Function for CLV output bit 2 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode

Read Variable Response:

```
sRA PBUsage_CdfFhIn2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PBUsage_CdfFhIn2	String	16	Function for CLV output bit 2 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

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Write Variable:				
sWN PBUsage_CdfFhIn2 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PBUsage_CdfFhIn2	String	16	Function for CLV output bit 2 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA PBUsage_CdfFhIn2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PBUsage_CdfFhIn2	String	16	Function for CLV output bit 2 which is sent to PLC in the framing header if CDF600 is running in CDF400 mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PBUsage_CdfFhIn2[ETX]
Read Variable Response:	[STX]sRA PBUsage_CdfFhIn2 0[ETX]
Write Variable:	[STX]sWN PBUsage_CdfFhIn2 0[ETX]
Write Variable Response:	[STX]sWA PBUsage_CdfFhIn2[ETX]

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2.23.10. Group: Ethercat

2.23.10.1. Variable: CdfEcatCmMode

The following section contains a detailed description of the variable CdfEcatCmMode.

Variable Overview

Variable Name	Description
CdfEcatCmMode	Ethercat mode (only 2 CDF600 modes) --> other parameters like Profibus (no entry here -> see VID)

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	931
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_MODE_CDF600_HANDSHAKE	
	Value	Name	Description
	3	TX_MODE_CDF600_HANDSHAKE	
	4	TX_MODE_CDF600_NO_HANDSHAKE	

Variable Telegram Syntax

Read Variable:

```
sRN CdfEcatCmMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CdfEcatCmMode	String	13	Ethercat mode (only 2 CDF600 modes) --> other parameters like Profibus (no entry here -> see VID)

Read Variable Response:

```
sRA CdfEcatCmMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CdfEcatCmMode	String	13	Ethercat mode (only 2 CDF600 modes) --> other parameters like Profibus (no entry here -> see VID)
Variable Data	data	Enum8	1	

Write Variable:

```
sWN CdfEcatCmMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CdfEcatCmMode	String	13	Ethercat mode (only 2 CDF600 modes) --> other parameters like Profibus (no entry here -> see VID)
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA CdfEcatCmMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	CdfEcatCmMode	String	13	Ethercat mode (only 2 CDF600 modes) --> other parameters like Profibus (no entry here -> see VID)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CdfEcatCmMode[ETX]
Read Variable Response:	[STX]sRA CdfEcatCmMode 3[ETX]
Write Variable:	[STX]sWN CdfEcatCmMode 3[ETX]
Write Variable Response:	[STX]sWA CdfEcatCmMode[ETX]

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2.23.11. Group: Script

2.23.11.1. Variable: EnableActiveScript

The following section contains a detailed description of the variable EnableActiveScript.

Variable Overview

Variable Name
EnableActiveScript

Communication Name	AScriptEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	932
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN AScriptEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	AScriptEna	String	10	

Read Variable Response:

```
sRA AScriptEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	AScriptEna	String	10	
Variable Data	data	Bool	1	

Write Variable:

```
sWN AScriptEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	AScriptEna	String	10	
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA AScriptEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA AScriptEna				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	AScriptEna	String	10	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN AScriptEna[ETX]
Read Variable Response:	[STX]sRA AScriptEna 0[ETX]
Write Variable:	[STX]sWN AScriptEna 0[ETX]
Write Variable Response:	[STX]sWA AScriptEna[ETX]

2.23.11.2. Method: ScriptListCommand

The following section contains a detailed description of the method ScriptListCommand.

Method Overview

Method Name	Description
ScriptListCommand	Runs a Scriptlist command

Communication Name	mSLCmd
Sopas Index	130
Invocation Access	Always

Parameters		
SLCmd		
	FlexString	
	Length	0..200
	Initialisation	

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mSLCmd <SLCmd>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSLCmd	String	6	Runs a Scriptlist command
Parameter 1	SLCmd	FlexString	200	

Method Return Value:				
`sAN mSLCmd <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSLCmd	String	6	Runs a Scriptlist command
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSLCmd +0 0[ETX]`
Method Return Value:	`[STX]sAN mSLCmd 0[ETX]`

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2.23.12. Group: EthernetFieldbusInternal

2.23.12.1. Variable: EthFbType

The following section contains a detailed description of the variable EthFbType.

Variable Overview

Variable Name	Description
EthFbType	Selects internal Ethernet Fieldbustyp

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	935
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NONE	
	1	TX_ETHERNET_IP	
	2	TX_PROFINET	

Variable Telegram Syntax

Read Variable:

```
sRN EthFbType
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EthFbType	String	9	Selects internal Ethernet Fieldbustyp

Read Variable Response:

```
sRA EthFbType <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EthFbType	String	9	Selects internal Ethernet Fieldbustyp
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EthFbType <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EthFbType	String	9	Selects internal Ethernet Fieldbustyp
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EthFbType				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EthFbType	String	9	Selects internal Ethernet Fieldbustyp

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EthFbType[ETX]
Read Variable Response:	[STX]sRA EthFbType 0[ETX]
Write Variable:	[STX]sWN EthFbType 0[ETX]
Write Variable Response:	[STX]sWA EthFbType[ETX]

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2.23.13. Group: EthernetIP

2.23.13.1. Variable: EIPAct

The following section contains a detailed description of the variable EIPAct.

Variable Overview

Variable Name	Description
EIPAct	EthernetIP Activated (here left only for compatibility reasons)

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	936
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EIPAct
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPAct	String	6	EthernetIP Activated (here left only for compatibility reasons)

Read Variable Response:

```
sRA EIPAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPAct	String	6	EthernetIP Activated (here left only for compatibility reasons)
Variable Data	data	Bool	1	

Write Variable:

```
sWN EIPAct <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPAct	String	6	EthernetIP Activated (here left only for compatibility reasons)
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA EIPAct				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPAct	String	6	EthernetIP Activated (here left only for compatibility reasons)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIPAct[ETX]
Read Variable Response:	[STX]sRA EIPAct 0[ETX]
Write Variable:	[STX]sWN EIPAct 0[ETX]
Write Variable Response:	[STX]sWA EIPAct[ETX]

2.23.13.2. Variable: EIPMode

The following section contains a detailed description of the variable EIPMode.

Variable Overview

Variable Name	Description
EIPMode	EthernetIP Mode

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	937
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_EIP_NO_HANDSHAKE	
	1	TX_EIP_HANDSHAKE	

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Variable Telegram Syntax

Read Variable:				
`sRN EIPMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPMode	String	7	EthernetIP Mode

Read Variable Response:				
`sRA EIPMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPMode	String	7	EthernetIP Mode
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EIPMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPMode	String	7	EthernetIP Mode
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EIPMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPMode	String	7	EthernetIP Mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIPMode[ETX]`
Read Variable Response:	`[STX]sRA EIPMode 0[ETX]`
Write Variable:	`[STX]sWN EIPMode 0[ETX]`
Write Variable Response:	`[STX]sWA EIPMode[ETX]`

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2.23.13.3. Variable: EIPMultiplex

The following section contains a detailed description of the variable EIPMultiplex.

Variable Overview

Variable Name	Description
EIPMultiplex	EthernetIP multiplexer activated

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	938
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EIPMultiplex
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPMultiplex	String	12	EthernetIP multiplexer activated

Read Variable Response:

```
sRA EIPMultiplex <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPMultiplex	String	12	EthernetIP multiplexer activated
Variable Data	data	Bool	1	

Write Variable:

```
sWN EIPMultiplex <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPMultiplex	String	12	EthernetIP multiplexer activated
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA EIPMultiplex
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPMultiplex	String	12	EthernetIP multiplexer activated

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIPMultiplex[ETX]`
Read Variable Response:	`[STX]sRA EIPMultiplex 0[ETX]`
Write Variable:	`[STX]sWN EIPMultiplex 0[ETX]`
Write Variable Response:	`[STX]sWA EIPMultiplex[ETX]`

2.23.13.4. Variable: EIPDataFormat

The following section contains a detailed description of the variable EIPDataFormat.

Variable Overview

Variable Name	Description
EIPDataFormat	EthernetIP Mode

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	939
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_EIP_OUTPUT_FORMAT_1	
	1	TX_EIP_OUTPUT_FORMAT_2	
	2	TX_EIP_NO_OUTPUT_FORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN EIPDataFormat
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPDataFormat	String	13	EthernetIP Mode

Read Variable Response:

```
sRA EIPDataFormat <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPDataFormat	String	13	EthernetIP Mode
Variable Data	data	Enum8	1	

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Write Variable:				
sWN EIPDataFormat <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPDataFormat	String	13	EthernetIP Mode
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA EIPDataFormat				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPDataFormat	String	13	EthernetIP Mode

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIPDataFormat[ETX]
Read Variable Response:	[STX]sRA EIPDataFormat 0[ETX]
Write Variable:	[STX]sWN EIPDataFormat 0[ETX]
Write Variable Response:	[STX]sWA EIPDataFormat[ETX]

2.23.13.5. Variable: EIPControlBitsPlcOutMask

The following section contains a detailed description of the variable EIPControlBitsPlcOutMask.

Variable Overview

Variable Name	Description
EIPControlBitsPlcOutMask	Mask for command Word received by sensor from EthernetIP

Communication Name	EIPCMCtrlOutMask
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	940
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0xFFFF
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN EIPCMCtrlOutMask`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPCMCtrlOutMask	String	16	Mask for command Word received by sensor from EthernetIP

Read Variable Response:				
`sRA EIPCMCtrlOutMask <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPCMCtrlOutMask	String	16	Mask for command Word received by sensor from EthernetIP
Variable Data	data	UInt	2	

Write Variable:				
`sWN EIPCMCtrlOutMask <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPCMCtrlOutMask	String	16	Mask for command Word received by sensor from EthernetIP
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA EIPCMCtrlOutMask`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPCMCtrlOutMask	String	16	Mask for command Word received by sensor from EthernetIP

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIPCMCtrlOutMask[ETX]`
Read Variable Response:	`[STX]sRA EIPCMCtrlOutMask FFFF[ETX]`
Write Variable:	`[STX]sWN EIPCMCtrlOutMask FFFF[ETX]`
Write Variable Response:	`[STX]sWA EIPCMCtrlOutMask[ETX]`

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2.23.13.6. Variable: EIPHBEna

The following section contains a detailed description of the variable EIPHBEna.

Variable Overview

Variable Name
EIPHBEna

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	941
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN EIPHBEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPHBEna	String	8	

Read Variable Response:

```
sRA EIPHBEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPHBEna	String	8	
Variable Data	data	Bool	1	

Write Variable:

```
sWN EIPHBEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPHBEna	String	8	
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA EIPHBEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPHBEna	String	8	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIPHBEna[ETX]`
Read Variable Response:	`[STX]sRA EIPHBEna 0[ETX]`
Write Variable:	`[STX]sWN EIPHBEna 0[ETX]`
Write Variable Response:	`[STX]sWA EIPHBEna[ETX]`

2.23.13.7. Variable: EIPHBInterval

The following section contains a detailed description of the variable EIPHBInterval.

Variable Overview

Variable Name
EIPHBInterval

Communication Name	EIPHBInt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	942
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..600
Initialisation	30
Physical Unit	s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN EIPHBInt`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPHBInt	String	8	

Read Variable Response:

`sRA EIPHBInt <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPHBInt	String	8	
Variable Data	data	UInt	2	

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Write Variable:				
sWN EIPHBInt <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPHBInt	String	8	
Variable Data	data	UInt	2	

Write Variable Response:				
sWA EIPHBInt				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPHBInt	String	8	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EIPHBInt[ETX]
Read Variable Response:	[STX]sRA EIPHBInt 1E[ETX]
Write Variable:	[STX]sWN EIPHBInt 1E[ETX]
Write Variable Response:	[STX]sWA EIPHBInt[ETX]

2.23.13.8. Variable: EIPRetrHB

The following section contains a detailed description of the variable EIPRetrHB.

Variable Overview

Variable Name	Description
EIPRetrHB	Retrigger heartbeat on Ethernet/IP

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	943
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN EIPRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPRetrHB	String	9	Retrigger heartbeat on Ethernet/IP

Read Variable Response:				
`sRA EIPRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPRetrHB	String	9	Retrigger heartbeat on Ethernet/IP
Variable Data	data	Bool	1	

Write Variable:				
`sWN EIPRetrHB <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPRetrHB	String	9	Retrigger heartbeat on Ethernet/IP
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA EIPRetrHB`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPRetrHB	String	9	Retrigger heartbeat on Ethernet/IP

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIPRetrHB[ETX]`
Read Variable Response:	`[STX]sRA EIPRetrHB 1[ETX]`
Write Variable:	`[STX]sWN EIPRetrHB 1[ETX]`
Write Variable Response:	`[STX]sWA EIPRetrHB[ETX]`

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2.23.14. Group: Profinet

2.23.14.1. Variable: PNDataFormat

The following section contains a detailed description of the variable PNDataFormat.

Variable Overview

Variable Name	Description
PNDataFormat	Profinet output format

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	945
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_PN_OUTPUT_FORMAT_1	
	1	TX_PN_OUTPUT_FORMAT_2	
	2	TX_PN_NO_OUTPUT_FORMAT	

Variable Telegram Syntax

Read Variable:

```
sRN PNDataFormat
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNDataFormat	String	12	Profinet output format

Read Variable Response:

```
sRA PNDataFormat <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNDataFormat	String	12	Profinet output format
Variable Data	data	Enum8	1	

Write Variable:

```
sWN PNDataFormat <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNDataFormat	String	12	Profinet output format
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA PNDataFormat				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNDataFormat	String	12	Profinet output format

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PNDataFormat[ETX]
Read Variable Response:	[STX]sRA PNDataFormat 0[ETX]
Write Variable:	[STX]sWN PNDataFormat 0[ETX]
Write Variable Response:	[STX]sWA PNDataFormat[ETX]

2.23.14.2. Variable: PNMultiplexSend

The following section contains a detailed description of the variable PNMultiplexSend.

Variable Overview

Variable Name	Description
PNMultiplexSend	Enables if CLV sends Multiplexer output data

Communication Name	PNMpxOutEnable
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	946
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN PNMpxOutEnable`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNMpxOutEnable	String	14	Enables if CLV sends Multiplexer output data

Read Variable Response:				
`sRA PNMpxOutEnable <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNMpxOutEnable	String	14	Enables if CLV sends Multiplexer output data
Variable Data	data	Bool	1	

Write Variable:				
`sWN PNMpxOutEnable <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNMpxOutEnable	String	14	Enables if CLV sends Multiplexer output data
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA PNMpxOutEnable`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNMpxOutEnable	String	14	Enables if CLV sends Multiplexer output data

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PNMpxOutEnable[ETX]`
Read Variable Response:	`[STX]sRA PNMpxOutEnable 0[ETX]`
Write Variable:	`[STX]sWN PNMpxOutEnable 0[ETX]`
Write Variable Response:	`[STX]sWA PNMpxOutEnable[ETX]`

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2.23.14.3. Variable: PNDigInputMask

The following section contains a detailed description of the variable PNDigInputMask.

Variable Overview

Variable Name	Description
PNDigInputMask	Mask for receiving digital input bits from PLC

Communication Name	PNDiMsk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	947
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..65535
Initialisation	0xFFFF
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN PNDiMsk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNDiMsk	String	7	Mask for receiving digital input bits from PLC

Read Variable Response:

```
sRA PNDiMsk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNDiMsk	String	7	Mask for receiving digital input bits from PLC
Variable Data	data	UInt	2	

Write Variable:

```
sWN PNDiMsk <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNDiMsk	String	7	Mask for receiving digital input bits from PLC
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA PNDiMsk
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNDiMsk	String	7	Mask for receiving digital input bits from PLC

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PNDiMsk[ETX]`
Read Variable Response:	`[STX]sRA PNDiMsk FFFF[ETX]`
Write Variable:	`[STX]sWN PNDiMsk FFFF[ETX]`
Write Variable Response:	`[STX]sWA PNDiMsk[ETX]`

2.23.14.4. Variable: PNPDEV

The following section contains a detailed description of the variable PNPDEV.

Variable Overview

Variable Name	Description
PNPDEV	Profinet PhysicalDEVice needs unstructured EEPROM area for PDEV records. NOTE: Check mem size!

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	948
Storage	Variable is stored in ParamEEpromNoCloning
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..4000
Initialisation	

Variable Telegram Syntax

Read Variable:

`sRN PNPDEV`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PNPDEV	String	6	Profinet PhysicalDEVice needs unstructured EEPROM area for PDEV records. NOTE: Check mem size!

Read Variable Response:

`sRA PNPDEV <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PNPDEV	String	6	Profinet PhysicalDEVice needs unstructured EEPROM area for PDEV records. NOTE: Check mem size!
Variable Data	data	FlexString	4000	

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Write Variable:				
sWN PNPDEV <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PNPDEV	String	6	Profinet PhysicalDEVice needs unstructured EEPROM area for PDEV records. NOTE: Check mem size!
Variable Data	data	FlexString	4000	

Write Variable Response:				
sWA PNPDEV				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PNPDEV	String	6	Profinet PhysicalDEVice needs unstructured EEPROM area for PDEV records. NOTE: Check mem size!

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PNPDEV[ETX]
Read Variable Response:	[STX]sRA PNPDEV 0[ETX]
Write Variable:	[STX]sWN PNPDEV +0 0[ETX]
Write Variable Response:	[STX]sWA PNPDEV[ETX]

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2.24. Interface Block: GeneralCfgApp

2.24.1. Group: System

2.24.1.1. Variable: SYParaPasswordGuarded

The following section contains a detailed description of the variable SYParaPasswordGuarded.

Variable Overview

Variable Name	Description
SYParaPasswordGuarded	If true parametrization if password guarded. (Parameter is only mentioned by SOPAS ET)

Communication Name	SYPwGuarded
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	971
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN SYPwGuarded
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SYPwGuarded	String	11	If true parametrization if password guarded. (Parameter is only mentioned by SOPAS ET)

Read Variable Response:

```
sRA SYPwGuarded <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SYPwGuarded	String	11	If true parametrization if password guarded. (Parameter is only mentioned by SOPAS ET)
Variable Data	data	Bool	1	

Write Variable:

```
sWN SYPwGuarded <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SYPwGuarded	String	11	If true parametrization if password guarded. (Parameter is only mentioned by SOPAS ET)
Variable Data	data	Bool	1	

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Write Variable Response:				
`sWA SYPwGuarded`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SYPwGuarded	String	11	If true parametrization if password guarded. (Parameter is only mentioned by SOPAS ET)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SYPwGuarded[ETX]`
Read Variable Response:	`[STX]sRA SYPwGuarded 0[ETX]`
Write Variable:	`[STX]sWN SYPwGuarded 0[ETX]`
Write Variable Response:	`[STX]sWA SYPwGuarded[ETX]`

2.24.1.2. Variable: SYHMIButtonsEnabled

The following section contains a detailed description of the variable SYHMIButtonsEnabled.

Variable Overview

Variable Name	Description
SYHMIButtonsEnabled	If true, 63x-65x HMI buttons are enabled

Communication Name	SYBtnsEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	972
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN SYBtnsEna`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SYBtnsEna	String	9	If true, 63x-65x HMI buttons are enabled

Read Variable Response:				
`sRA SYBtnsEna <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SYBtnsEna	String	9	If true, 63x-65x HMI buttons are enabled
Variable Data	data	Bool	1	

Write Variable:				
`sWN SYBtnsEna <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SYBtnsEna	String	9	If true, 63x-65x HMI buttons are enabled
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA SYBtnsEna`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SYBtnsEna	String	9	If true, 63x-65x HMI buttons are enabled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SYBtnsEna[ETX]`
Read Variable Response:	`[STX]sRA SYBtnsEna 1[ETX]`
Write Variable:	`[STX]sWN SYBtnsEna 1[ETX]`
Write Variable Response:	`[STX]sWA SYBtnsEna[ETX]`

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2.24.1.3. Variable: SYAutoSuByButtonEnable

The following section contains a detailed description of the variable SYAutoSuByButtonEnable.

Variable Overview

Variable Name	Description
SYAutoSuByButtonEnable	May be used to aviod accidental chanage of parameters by pressing button. If true,autosetup can be started by buttons

Communication Name	SYBtsAsuEna
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	973
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN SYBtsAsuEna
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SYBtsAsuEna	String	11	May be used to aviod accidental chanage of parameters by pressing button. If true,autosetup can be started by buttons

Read Variable Response:

```
sRA SYBtsAsuEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SYBtsAsuEna	String	11	May be used to aviod accidental chanage of parameters by pressing button. If true,autosetup can be started by buttons
Variable Data	data	Bool	1	

Write Variable:

```
sWN SYBtsAsuEna <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SYBtsAsuEna	String	11	May be used to aviod accidental chanage of parameters by pressing button. If true,autosetup can be started by buttons
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA SYBtsAsuEna				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SYBtsAsuEna	String	11	May be used to aviod accidental chanage of parameters by pressing button. If true,autosetup can be started by buttons

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SYBtsAsuEna[ETX]
Read Variable Response:	[STX]sRA SYBtsAsuEna 1[ETX]
Write Variable:	[STX]sWN SYBtsAsuEna 1[ETX]
Write Variable Response:	[STX]sWA SYBtsAsuEna[ETX]

2.24.1.4. Variable: SYNoQuickstart

The following section contains a detailed description of the variable SYNoQuickstart.

Variable Overview

Variable Name	Description
SYNoQuickstart	If true there is no quickstart shown if device is added. (Parameter is only mentioned by SOPAS ET)

Communication Name	SYNoQkStrt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	974
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN SYNoQkStrt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SYNoQkStrt	String	10	If true there is no quickstart shown if device is added. (Parameter is only mentioned by SOPAS ET)

Read Variable Response:				
`sRA SYNoQkStrt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SYNoQkStrt	String	10	If true there is no quickstart shown if device is added. (Parameter is only mentioned by SOPAS ET)
Variable Data	data	Bool	1	

Write Variable:				
`sWN SYNoQkStrt <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SYNoQkStrt	String	10	If true there is no quickstart shown if device is added. (Parameter is only mentioned by SOPAS ET)
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA SYNoQkStrt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	SYNoQkStrt	String	10	If true there is no quickstart shown if device is added. (Parameter is only mentioned by SOPAS ET)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN SYNoQkStrt[ETX]`
Read Variable Response:	`[STX]sRA SYNoQkStrt 0[ETX]`
Write Variable:	`[STX]sWN SYNoQkStrt 0[ETX]`
Write Variable Response:	`[STX]sWA SYNoQkStrt[ETX]`

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2.24.2. Group: Position

2.24.2.1. Variable: ScannerPosAlpha

The following section contains a detailed description of the variable ScannerPosAlpha.

Variable Overview

Variable Name	Description
ScannerPosAlpha	Angle Alpha of scanner position

Communication Name	POalpha
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	975
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	0..360
Initialisation	90
Physical Unit	°
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN POalpha
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POalpha	String	7	Angle Alpha of scanner position

Read Variable Response:

```
sRA POalpha <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POalpha	String	7	Angle Alpha of scanner position
Variable Data	data	DInt	4	

Write Variable:

```
sWN POalpha <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POalpha	String	7	Angle Alpha of scanner position
Variable Data	data	DInt	4	

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Write Variable Response:				
sWA POalpha				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POalpha	String	7	Angle Alpha of scanner position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN POalpha[ETX]
Read Variable Response:	[STX]sRA POalpha 5A[ETX]
Write Variable:	[STX]sWN POalpha +90[ETX]
Write Variable Response:	[STX]sWA POalpha[ETX]

2.24.2.2. Variable: ScannerPosBeta

The following section contains a detailed description of the variable ScannerPosBeta.

Variable Overview

Variable Name	Description
ScannerPosBeta	Angle Beta of scanner position

Communication Name	PObeta
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	976
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	0..360
Initialisation	0
Physical Unit	°
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN PObeta`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PObeta	String	6	Angle Beta of scanner position

Read Variable Response:				
`sRA PObeta <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PObeta	String	6	Angle Beta of scanner position
Variable Data	data	DInt	4	

Write Variable:				
`sWN PObeta <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PObeta	String	6	Angle Beta of scanner position
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA PObeta`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PObeta	String	6	Angle Beta of scanner position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PObeta[ETX]`
Read Variable Response:	`[STX]sRA PObeta 0[ETX]`
Write Variable:	`[STX]sWN PObeta +0[ETX]`
Write Variable Response:	`[STX]sWA PObeta[ETX]`

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2.24.2.3. Variable: ScannerPosGamma

The following section contains a detailed description of the variable ScannerPosGamma.

Variable Overview

Variable Name	Description
ScannerPosGamma	Angle Gamma of scanner position

Communication Name	POgamma
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	977
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	0..360
Initialisation	0
Physical Unit	°
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN POgamma
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POgamma	String	7	Angle Gamma of scanner position

Read Variable Response:

```
sRA POgamma <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POgamma	String	7	Angle Gamma of scanner position
Variable Data	data	DInt	4	

Write Variable:

```
sWN POgamma <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POgamma	String	7	Angle Gamma of scanner position
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA POgamma
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POgamma	String	7	Angle Gamma of scanner position

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN POgamma[ETX]`
Read Variable Response:	`[STX]sRA POgamma 0[ETX]`
Write Variable:	`[STX]sWN POgamma +0[ETX]`
Write Variable Response:	`[STX]sWA POgamma[ETX]`

2.24.2.4. Variable: ScannerPosXCoord

The following section contains a detailed description of the variable ScannerPosXCoord.

Variable Overview

Variable Name	Description
ScannerPosXCoord	X-coordinate of scanner position

Communication Name	POcoordX
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	978
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-10000..10000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN POcoordX`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POcoordX	String	8	X-coordinate of scanner position

Read Variable Response:

`sRA POcoordX <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POcoordX	String	8	X-coordinate of scanner position
Variable Data	data	DInt	4	

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Write Variable:				
sWN POcoordX <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POcoordX	String	8	X-coordinate of scanner position
Variable Data	data	DInt	4	

Write Variable Response:				
sWA POcoordX				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POcoordX	String	8	X-coordinate of scanner position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN POcoordX[ETX]
Read Variable Response:	[STX]sRA POcoordX 0[ETX]
Write Variable:	[STX]sWN POcoordX +0[ETX]
Write Variable Response:	[STX]sWA POcoordX[ETX]

2.24.2.5. Variable: ScannerPosYCoord

The following section contains a detailed description of the variable ScannerPosYCoord.

Variable Overview

Variable Name	Description
ScannerPosYCoord	Y-coordinate of scanner position

Communication Name	POcoordY
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	979
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	200
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN POcoordY`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POcoordY	String	8	Y-coordinate of scanner position

Read Variable Response:				
`sRA POcoordY <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POcoordY	String	8	Y-coordinate of scanner position
Variable Data	data	DInt	4	

Write Variable:				
`sWN POcoordY <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POcoordY	String	8	Y-coordinate of scanner position
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA POcoordY`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POcoordY	String	8	Y-coordinate of scanner position

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN POcoordY[ETX]`
Read Variable Response:	`[STX]sRA POcoordY C8[ETX]`
Write Variable:	`[STX]sWN POcoordY +200[ETX]`
Write Variable Response:	`[STX]sWA POcoordY[ETX]`

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2.24.2.6. Variable: ScannerPosZCoord

The following section contains a detailed description of the variable ScannerPosZCoord.

Variable Overview

Variable Name	Description
ScannerPosZCoord	Z-coordinate of scanner position

Communication Name	POcoordZ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	980
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3500..3500
Initialisation	300
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN POcoordZ
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POcoordZ	String	8	Z-coordinate of scanner position

Read Variable Response:

```
sRA POcoordZ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POcoordZ	String	8	Z-coordinate of scanner position
Variable Data	data	DInt	4	

Write Variable:

```
sWN POcoordZ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POcoordZ	String	8	Z-coordinate of scanner position
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA POcoordZ
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POcoordZ	String	8	Z-coordinate of scanner position

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN POcoordZ[ETX]`
Read Variable Response:	`[STX]sRA POcoordZ 12C[ETX]`
Write Variable:	`[STX]sWN POcoordZ +300[ETX]`
Write Variable Response:	`[STX]sWA POcoordZ[ETX]`

2.24.2.7. Variable: PositionXOffset

The following section contains a detailed description of the variable PositionXOffset.

Variable Overview

Variable Name	Description
PositionXOffset	X-position offset

Communication Name	POoffsX
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	981
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN POoffsX`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POoffsX	String	7	X-position offset

Read Variable Response:				
`sRA POoffsX <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POoffsX	String	7	X-position offset
Variable Data	data	DInt	4	

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Write Variable:				
sWN POoffsX <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POoffsX	String	7	X-position offset
Variable Data	data	DInt	4	

Write Variable Response:				
sWA POoffsX				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POoffsX	String	7	X-position offset

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN POoffsX[ETX]
Read Variable Response:	[STX]sRA POoffsX 0[ETX]
Write Variable:	[STX]sWN POoffsX +0[ETX]
Write Variable Response:	[STX]sWA POoffsX[ETX]

2.24.2.8. Variable: PositionYOffset

The following section contains a detailed description of the variable PositionYOffset.

Variable Overview

Variable Name	Description
PositionYOffset	Z-position offset

Communication Name	POoffsY
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	982
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-2000..2000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN POoffsY`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POoffsY	String	7	Z-position offset

Read Variable Response:				
`sRA POoffsY <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POoffsY	String	7	Z-position offset
Variable Data	data	DInt	4	

Write Variable:				
`sWN POoffsY <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POoffsY	String	7	Z-position offset
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA POoffsY`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POoffsY	String	7	Z-position offset

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN POoffsY[ETX]`
Read Variable Response:	`[STX]sRA POoffsY 0[ETX]`
Write Variable:	`[STX]sWN POoffsY +0[ETX]`
Write Variable Response:	`[STX]sWA POoffsY[ETX]`

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2.24.2.9. Variable: PositionZOffset

The following section contains a detailed description of the variable PositionZOffset.

Variable Overview

Variable Name	Description
PositionZOffset	Z-position offset

Communication Name	POoffsZ
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	983
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-2000..2000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN POoffsZ
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POoffsZ	String	7	Z-position offset

Read Variable Response:

```
sRA POoffsZ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POoffsZ	String	7	Z-position offset
Variable Data	data	DInt	4	

Write Variable:

```
sWN POoffsZ <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POoffsZ	String	7	Z-position offset
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA POoffsZ
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POoffsZ	String	7	Z-position offset

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN POoffsZ[ETX]`
Read Variable Response:	`[STX]sRA POoffsZ 0[ETX]`
Write Variable:	`[STX]sWN POoffsZ +0[ETX]`
Write Variable Response:	`[STX]sWA POoffsZ[ETX]`

2.24.2.10. Variable: DistToRedirectMirror

The following section contains a detailed description of the variable DistToRedirectMirror.

Variable Overview

Variable Name	Description
DistToRedirectMirror	Distance to redirecting mirror

Communication Name	POdstredirmir
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	984
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	0..3500
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN POdstredirmir`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	POdstredirmir	String	13	Distance to redirecting mirror

Read Variable Response:				
`sRA POdstredirmir <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	POdstredirmir	String	13	Distance to redirecting mirror
Variable Data	data	DInt	4	

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Write Variable:				
sWN POdstredirmir <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	POdstredirmir	String	13	Distance to redirecting mirror
Variable Data	data	DInt	4	

Write Variable Response:				
sWA POdstredirmir				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	POdstredirmir	String	13	Distance to redirecting mirror

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN POdstredirmir[ETX]
Read Variable Response:	[STX]sRA POdstredirmir 0[ETX]
Write Variable:	[STX]sWN POdstredirmir +0[ETX]
Write Variable Response:	[STX]sWA POdstredirmir[ETX]

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2.24.3. Group: Reading

2.24.3.1. Variable: RCScanFrequency

The following section contains a detailed description of the variable RCScanFrequency.

Variable Overview

Variable Name	Description
RCScanFrequency	Current scan frequency

Communication Name	RCScanFrq
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	985
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		4	
	Value	Name	Description
	0	400	
	1	450	
	2	500	
	3	550	
	4	600	
	5	650	
	6	700	
	7	750	
	8	800	
	9	850	
	10	900	
	11	950	
	12	1000	
	13	1050	
	14	1100	
	15	1150	
	16	1200	

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Variable Telegram Syntax

Read Variable:				
`sRN RCScanFrq`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCScanFrq	String	9	Current scan frequency

Read Variable Response:				
`sRA RCScanFrq <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCScanFrq	String	9	Current scan frequency
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCScanFrq <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCScanFrq	String	9	Current scan frequency
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA RCScanFrq`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCScanFrq	String	9	Current scan frequency

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCScanFrq[ETX]`
Read Variable Response:	`[STX]sRA RCScanFrq 4[ETX]`
Write Variable:	`[STX]sWN RCScanFrq 4[ETX]`
Write Variable Response:	`[STX]sWA RCScanFrq[ETX]`

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2.24.3.2. Variable: RCQuietZoneMode

The following section contains a detailed description of the variable RCQuietZoneMode.

Variable Overview

Variable Name	Description
RCQuietZoneMode	Quitezone-Mode for segmentation (not already included in PB mapping)

Communication Name	RCQuMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	986
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_Relative	
	1	TX_Absolute	

Variable Telegram Syntax

Read Variable:				
`sRN RCQuMode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCQuMode	String	8	Quitezone-Mode for segmentation (not already included in PB mapping)

Read Variable Response:				
`sRA RCQuMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCQuMode	String	8	Quitezone-Mode for segmentation (not already included in PB mapping)
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCQuMode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCQuMode	String	8	Quitezone-Mode for segmentation (not already included in PB mapping)
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA RCQuMode				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCQuMode	String	8	Quitezone-Mode for segmentation (not already included in PB mapping)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCQuMode[ETX]
Read Variable Response:	[STX]sRA RCQuMode 0[ETX]
Write Variable:	[STX]sWN RCQuMode 0[ETX]
Write Variable Response:	[STX]sWA RCQuMode[ETX]

2.24.3.3. Variable: RCQuietZoneRatio

The following section contains a detailed description of the variable RCQuietZoneRatio.

Variable Overview

Variable Name	Description
RCQuietZoneRatio	Quitezone-Ratio for segmentation

Communication Name	RCQuRat
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	987
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_AUTO	
	1	4	
	2	5	
	3	6	
	4	7	
	5	8	
	6	9	
	7	10	
	8	11	

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Variable Telegram Syntax

Read Variable:				
`sRN RCQuRat`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCQuRat	String	7	Quitezone-Ratio for segmentation

Read Variable Response:				
`sRA RCQuRat <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCQuRat	String	7	Quitezone-Ratio for segmentation
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCQuRat <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCQuRat	String	7	Quitezone-Ratio for segmentation
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA RCQuRat`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCQuRat	String	7	Quitezone-Ratio for segmentation

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCQuRat[ETX]`
Read Variable Response:	`[STX]sRA RCQuRat 0[ETX]`
Write Variable:	`[STX]sWN RCQuRat 0[ETX]`
Write Variable Response:	`[STX]sWA RCQuRat[ETX]`

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2.24.3.4. Variable: RCQuietZoneSize

The following section contains a detailed description of the variable RCQuietZoneSize.

Variable Overview

Variable Name	Description
RCQuietZoneSize	Quitezone-Size for segmentation (not already included in PB mapping)

Communication Name	RCQuSize
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	988
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 1.0..200.0
Initialisation	5.0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCQuSize
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCQuSize	String	8	Quitezone-Size for segmentation (not already included in PB mapping)

Read Variable Response:

```
sRA RCQuSize <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCQuSize	String	8	Quitezone-Size for segmentation (not already included in PB mapping)
Variable Data	data	Real	4	

Write Variable:

```
sWN RCQuSize <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCQuSize	String	8	Quitezone-Size for segmentation (not already included in PB mapping)
Variable Data	data	Real	4	

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Write Variable Response:				
sWA RCQuSize				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCQuSize	String	8	Quitezone-Size for segmentation (not already included in PB mapping)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCQuSize[ETX]
Read Variable Response:	[STX]sRA RCQuSize 40A00000[ETX]
Write Variable:	[STX]sWN RCQuSize +5.0[ETX]
Write Variable Response:	[STX]sWA RCQuSize[ETX]

2.24.3.5. Variable: RCQuietZoneRatioDyn

The following section contains a detailed description of the variable RCQuietZoneRatioDyn.

Variable Overview

Variable Name	Description
RCQuietZoneRatioDyn	Quitezone-Ratio for segmentation, dynamic reading cfg.

Communication Name	RCQuRatDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	989
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array				
Length			8	
	Enum8			
	Default Value		0	
		Value	Name	Description
		0	TX_AUTO	
		1	4	
		2	5	
		3	6	
		4	7	
		5	8	
		6	9	
		7	10	
		8	11	

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Variable Telegram Syntax

Read Variable:				
`sRN RCQuRatDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCQuRatDyn	String	10	Quitezone-Ratio for segmentation, dynamic reading cfg.

Read Variable Response:				
`sRA RCQuRatDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCQuRatDyn	String	10	Quitezone-Ratio for segmentation, dynamic reading cfg.
Variable Data	data	Array	8	

Write Variable:				
`sWN RCQuRatDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCQuRatDyn	String	10	Quitezone-Ratio for segmentation, dynamic reading cfg.
Variable Data	data	Array	8	

Write Variable Response:				
`sWA RCQuRatDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCQuRatDyn	String	10	Quitezone-Ratio for segmentation, dynamic reading cfg.

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCQuRatDyn[ETX]`
Read Variable Response:	`[STX]sRA RCQuRatDyn 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN RCQuRatDyn 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA RCQuRatDyn[ETX]`

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2.24.3.6. Variable: RCMinimumCP

The following section contains a detailed description of the variable RCMinimumCP.

Variable Overview

Variable Name	Description
RCMinimumCP	Minimum Code position for reading

Communication Name	RCMinCP
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	990
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 0.0..100.0
Initialisation	0.0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCMinCP
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCMinCP	String	7	Minimum Code position for reading

Read Variable Response:

```
sRA RCMinCP <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCMinCP	String	7	Minimum Code position for reading
Variable Data	data	Real	4	

Write Variable:

```
sWN RCMinCP <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCMinCP	String	7	Minimum Code position for reading
Variable Data	data	Real	4	

Write Variable Response:

```
sWA RCMinCP
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCMinCP	String	7	Minimum Code position for reading

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCMinCP[ETX]`
Read Variable Response:	`[STX]sRA RCMinCP 00000000[ETX]`
Write Variable:	`[STX]sWN RCMinCP +0.0[ETX]`
Write Variable Response:	`[STX]sWA RCMinCP[ETX]`

2.24.3.7. Variable: RCMinimumCPDyn

The following section contains a detailed description of the variable RCMinimumCPDyn.

Variable Overview

Variable Name	Description
RCMinimumCPDyn	Minimum Code position for reading

Communication Name	RCMinCPDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	991
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	Real	
	Value Range	See specification IEEE 754 0.0..100.0
	Initialisation	0.0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCMinCPDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCMinCPDyn	String	10	Minimum Code position for reading

Read Variable Response:				
`sRA RCMinCPDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCMinCPDyn	String	10	Minimum Code position for reading
Variable Data	data	Array	32	

Write Variable:				
`sWN RCMinCPDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCMinCPDyn	String	10	Minimum Code position for reading
Variable Data	data	Array	32	

Write Variable Response:				
`sWA RCMinCPDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCMinCPDyn	String	10	Minimum Code position for reading

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCMinCPDyn[ETX]`
Read Variable Response:	`[STX]sRA RCMinCPDyn 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000[ETX]`
Write Variable:	`[STX]sWN RCMinCPDyn +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0[ETX]`
Write Variable Response:	`[STX]sWA RCMinCPDyn[ETX]`

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2.24.3.8. Variable: RCMaximumCP

The following section contains a detailed description of the variable RCMaximumCP.

Variable Overview

Variable Name	Description
RCMaximumCP	Maximum Code position for reading

Communication Name	RCMaxCP
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	992
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 0.0..100.0
Initialisation	100.0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCMaxCP
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCMaxCP	String	7	Maximum Code position for reading

Read Variable Response:

```
sRA RCMaxCP <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCMaxCP	String	7	Maximum Code position for reading
Variable Data	data	Real	4	

Write Variable:

```
sWN RCMaxCP <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCMaxCP	String	7	Maximum Code position for reading
Variable Data	data	Real	4	

Write Variable Response:

```
sWA RCMaxCP
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCMaxCP	String	7	Maximum Code position for reading

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCMaxCP[ETX]`
Read Variable Response:	`[STX]sRA RCMaxCP 42C80000[ETX]`
Write Variable:	`[STX]sWN RCMaxCP +100.0[ETX]`
Write Variable Response:	`[STX]sWA RCMaxCP[ETX]`

2.24.3.9. Variable: RCMaximumCPDyn

The following section contains a detailed description of the variable RCMaximumCPDyn.

Variable Overview

Variable Name	Description
RCMaximumCPDyn	Maximum Code position for reading

Communication Name	RCMaxCPDyn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	993
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array		
Length		8
	Real	
	Value Range	See specification IEEE 754 0.0..100.0
	Initialisation	100.0
	Physical Unit	
	Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCMaxCPDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCMaxCPDyn	String	10	Maximum Code position for reading

Read Variable Response:				
`sRA RCMaxCPDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCMaxCPDyn	String	10	Maximum Code position for reading
Variable Data	data	Array	32	

Write Variable:				
`sWN RCMaxCPDyn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCMaxCPDyn	String	10	Maximum Code position for reading
Variable Data	data	Array	32	

Write Variable Response:				
`sWA RCMaxCPDyn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCMaxCPDyn	String	10	Maximum Code position for reading

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCMaxCPDyn[ETX]`
Read Variable Response:	`[STX]sRA RCMaxCPDyn 42C80000 42C80000 42C80000 42C80000 42C80000 42C80000 42C80000 42C80000[ETX]`
Write Variable:	`[STX]sWN RCMaxCPDyn +100.0 +100.0 +100.0 +100.0 +100.0 +100.0 +100.0 +100.0[ETX]`
Write Variable Response:	`[STX]sWA RCMaxCPDyn[ETX]`

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2.24.3.10. Variable: RCCodelabelQuality

The following section contains a detailed description of the variable RCCodelabelQuality.

Variable Overview

Variable Name	Description
RCCodelabelQuality	Defines the code label quality

Communication Name	RCCodeQual
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	994
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array			
Length		8	
	Enum8		
	Default Value	0	
	Value	Name	Description
	2	TX_HIGH_SPECKLE	
	Error in PreAllocation		
	0	TX_STANDARD	
	Error in PreAllocation		
	1	TX_LOW_CONTRAST	
	Error in PreAllocation		
	4	TX_VERY_LOW_CONTRAST	
	Error in PreAllocation		
	3	TX_MODULATION	

Variable Telegram Syntax

Read Variable:

```
sRN RCCodeQual
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCCodeQual	String	10	Defines the code label quality

Read Variable Response:

```
sRA RCCodeQual <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCCodeQual	String	10	Defines the code label quality
Variable Data	data	Array	8	

Write Variable:

```
sWN RCCodeQual <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name

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Write Variable:				
`sWN RCCodeQual <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	RCCodeQual	String	10	Defines the code label quality
Variable Data	data	Array	8	

Write Variable Response:				
`sWA RCCodeQual`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCCodeQual	String	10	Defines the code label quality

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCCodeQual[ETX]`
Read Variable Response:	`[STX]sRA RCCodeQual 0 0 0 0 0 0 0 0[ETX]`
Write Variable:	`[STX]sWN RCCodeQual 0 0 0 0 0 0 0 0[ETX]`
Write Variable Response:	`[STX]sWA RCCodeQual[ETX]`

2.24.3.11. Variable: RCCodelabelQuality65x

The following section contains a detailed description of the variable RCCodelabelQuality65x.

Variable Overview

Variable Name	Description
RCCodelabelQuality65x	Defines the code label quality for CLV65x

Communication Name	RCCodeQual65x
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	995
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

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Array		
Length		8
	Struct	
	LowContrast	
		Bool
		Value Range: False, True
		Initialisation: False
	HighSpeckle	
		Bool
		Value Range: False, True
		Initialisation: False
	LowDensity	
		Bool
		Value Range: False, True
		Initialisation: False

Variable Telegram Syntax

Read Variable:

```
sRN RCCodeQual65x
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCCodeQual65x	String	13	Defines the code label quality for CLV65x

Read Variable Response:

```
sRA RCCodeQual65x <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCCodeQual65x	String	13	Defines the code label quality for CLV65x
Variable Data	data	Array	3	

Write Variable:

```
sWN RCCodeQual65x <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCCodeQual65x	String	13	Defines the code label quality for CLV65x
Variable Data	data	Array	3	

Write Variable Response:

```
sWA RCCodeQual65x
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCCodeQual65x	String	13	Defines the code label quality for CLV65x

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCCodeQual65x[ETX]`
Read Variable Response:	`[STX]sRA RCCodeQual65x 0 0 0

Variable Telegram Syntax

Read Variable:				
`sRN RCCodeDistance`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCCodeDistance	String	14	Distance between scanner and code label

Read Variable Response:				
`sRA RCCodeDistance <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCCodeDistance	String	14	Distance between scanner and code label
Variable Data	data	Array	16	

Write Variable:				
`sWN RCCodeDistance <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCCodeDistance	String	14	Distance between scanner and code label
Variable Data	data	Array	16	

Write Variable Response:				
`sWA RCCodeDistance`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCCodeDistance	String	14	Distance between scanner and code label

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCCodeDistance[ETX]`
Read Variable Response:	`[STX]sRA RCCodeDistance AF AF AF AF AF AF AF AF[ETX]`
Write Variable:	`[STX]sWN RCCodeDistance AF AF AF AF AF AF AF AF[ETX]`
Write Variable Response:	`[STX]sWA RCCodeDistance[ETX]`

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2.24.3.13. Variable: RCReadingAreaLimY1

The following section contains a detailed description of the variable RCReadingAreaLimY1.

Variable Overview

Variable Name	Description
RCReadingAreaLimY1	Y1 reading area. Right edge of conveyor

Communication Name	RCRdArlimY1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1003
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCRdArlimY1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCRdArlimY1	String	11	Y1 reading area. Right edge of conveyor

Read Variable Response:

```
sRA RCRdArlimY1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCRdArlimY1	String	11	Y1 reading area. Right edge of conveyor
Variable Data	data	DInt	4	

Write Variable:

```
sWN RCRdArlimY1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCRdArlimY1	String	11	Y1 reading area. Right edge of conveyor
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA RCRdArlimY1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCRdArlimY1	String	11	Y1 reading area. Right edge of conveyor

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCRdArlimY1[ETX]`
Read Variable Response:	`[STX]sRA RCRdArlimY1 0[ETX]`
Write Variable:	`[STX]sWN RCRdArlimY1 +0[ETX]`
Write Variable Response:	`[STX]sWA RCRdArlimY1[ETX]`

2.24.3.14. Variable: RCReadingAreaLimY2

The following section contains a detailed description of the variable RCReadingAreaLimY2.

Variable Overview

Variable Name	Description
RCReadingAreaLimY2	Y2 reading area. Left edge of conveyor

Communication Name	RCRdArlimY2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1004
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	1200
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN RCRdArlimY2`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCRdArlimY2	String	11	Y2 reading area. Left edge of conveyor

Read Variable Response:

`sRA RCRdArlimY2 <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCRdArlimY2	String	11	Y2 reading area. Left edge of conveyor
Variable Data	data	DInt	4	

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Write Variable:				
sWN RCRdArlimY2 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCRdArlimY2	String	11	Y2 reading area. Left edge of conveyor
Variable Data	data	DInt	4	

Write Variable Response:				
sWA RCRdArlimY2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCRdArlimY2	String	11	Y2 reading area. Left edge of conveyor

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCRdArlimY2[ETX]
Read Variable Response:	[STX]sRA RCRdArlimY2 4B0[ETX]
Write Variable:	[STX]sWN RCRdArlimY2 +1200[ETX]
Write Variable Response:	[STX]sWA RCRdArlimY2[ETX]

2.24.3.15. Variable: RCReadingAreaLimZ1

The following section contains a detailed description of the variable RCReadingAreaLimZ1.

Variable Overview

Variable Name	Description
RCReadingAreaLimZ1	Z1 reading area. Level of conveyor

Communication Name	RCRdArlimZ1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1005
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCRdArlimZ1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCRdArlimZ1	String	11	Z1 reading area. Level of conveyor

Read Variable Response:				
`sRA RCRdArlimZ1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCRdArlimZ1	String	11	Z1 reading area. Level of conveyor
Variable Data	data	DInt	4	

Write Variable:				
`sWN RCRdArlimZ1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCRdArlimZ1	String	11	Z1 reading area. Level of conveyor
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA RCRdArlimZ1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCRdArlimZ1	String	11	Z1 reading area. Level of conveyor

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCRdArlimZ1[ETX]`
Read Variable Response:	`[STX]sRA RCRdArlimZ1 0[ETX]`
Write Variable:	`[STX]sWN RCRdArlimZ1 +0[ETX]`
Write Variable Response:	`[STX]sWA RCRdArlimZ1[ETX]`

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2.24.3.16. Variable: RCReadingAreaLimZ2

The following section contains a detailed description of the variable RCReadingAreaLimZ2.

Variable Overview

Variable Name	Description
RCReadingAreaLimZ2	Z2 reading area. Maximum scanning height

Communication Name	RCRdArlimZ2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1006
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	1600
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCRdArlimZ2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCRdArlimZ2	String	11	Z2 reading area. Maximum scanning height

Read Variable Response:

```
sRA RCRdArlimZ2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCRdArlimZ2	String	11	Z2 reading area. Maximum scanning height
Variable Data	data	DInt	4	

Write Variable:

```
sWN RCRdArlimZ2 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCRdArlimZ2	String	11	Z2 reading area. Maximum scanning height
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA RCRdArlimZ2
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCRdArlimZ2	String	11	Z2 reading area. Maximum scanning height

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCRdArlimZ2[ETX]`
Read Variable Response:	`[STX]sRA RCRdArlimZ2 640[ETX]`
Write Variable:	`[STX]sWN RCRdArlimZ2 +1600[ETX]`
Write Variable Response:	`[STX]sWA RCRdArlimZ2[ETX]`

2.24.3.17. Variable: RCScannerReadingAreaLimY1

The following section contains a detailed description of the variable RCScannerReadingAreaLimY1.

Variable Overview

Variable Name	Description
RCScannerReadingAreaLimY1	right border

Communication Name	RCScRdArlimY1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1007
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	500
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN RCScRdArlimY1`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCScRdArlimY1	String	13	right border

Read Variable Response:

`sRA RCScRdArlimY1 <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCScRdArlimY1	String	13	right border
Variable Data	data	DInt	4	

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Write Variable:				
sWN RCScRdArlimY1 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCScRdArlimY1	String	13	right border
Variable Data	data	DInt	4	

Write Variable Response:				
sWA RCScRdArlimY1				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCScRdArlimY1	String	13	right border

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCScRdArlimY1[ETX]
Read Variable Response:	[STX]sRA RCScRdArlimY1 1F4[ETX]
Write Variable:	[STX]sWN RCScRdArlimY1 +500[ETX]
Write Variable Response:	[STX]sWA RCScRdArlimY1[ETX]

2.24.3.18. Variable: RCScannerReadingAreaLimY2

The following section contains a detailed description of the variable RCScannerReadingAreaLimY2.

Variable Overview

Variable Name	Description
RCScannerReadingAreaLimY2	left border

Communication Name	RCScRdArlimY2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1008
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	-3000..3000
Initialisation	-500
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCScRdArlimY2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCScRdArlimY2	String	13	left border

Read Variable Response:				
`sRA RCScRdArlimY2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCScRdArlimY2	String	13	left border
Variable Data	data	DInt	4	

Write Variable:				
`sWN RCScRdArlimY2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCScRdArlimY2	String	13	left border
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA RCScRdArlimY2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCScRdArlimY2	String	13	left border

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCScRdArlimY2[ETX]`
Read Variable Response:	`[STX]sRA RCScRdArlimY2 FFFFFE0C[ETX]`
Write Variable:	`[STX]sWN RCScRdArlimY2 -500[ETX]`
Write Variable Response:	`[STX]sWA RCScRdArlimY2[ETX]`

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2.24.3.19. Variable: RCScannerReadingAreaLimZ1

The following section contains a detailed description of the variable RCScannerReadingAreaLimZ1.

Variable Overview

Variable Name	Description
RCScannerReadingAreaLimZ1	nearest border to scanner device

Communication Name	RCScRdArlimZ1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1009
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	100..2000
Initialisation	100
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCScRdArlimZ1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCScRdArlimZ1	String	13	nearest border to scanner device

Read Variable Response:

```
sRA RCScRdArlimZ1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCScRdArlimZ1	String	13	nearest border to scanner device
Variable Data	data	DInt	4	

Write Variable:

```
sWN RCScRdArlimZ1 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCScRdArlimZ1	String	13	nearest border to scanner device
Variable Data	data	DInt	4	

Write Variable Response:

```
sWA RCScRdArlimZ1
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCScRdArlimZ1	String	13	nearest border to scanner device

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCScRdArlimZ1[ETX]`
Read Variable Response:	`[STX]sRA RCScRdArlimZ1 64[ETX]`
Write Variable:	`[STX]sWN RCScRdArlimZ1 +100[ETX]`
Write Variable Response:	`[STX]sWA RCScRdArlimZ1[ETX]`

2.24.3.20. Variable: RCScannerReadingAreaLimZ2

The following section contains a detailed description of the variable RCScannerReadingAreaLimZ2.

Variable Overview

Variable Name	Description
RCScannerReadingAreaLimZ2	farest border to scanner device

Communication Name	RCScRdArlimZ2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1010
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	200..2000
Initialisation	1400
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN RCScRdArlimZ2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCScRdArlimZ2	String	13	farest border to scanner device

Read Variable Response:				
`sRA RCScRdArlimZ2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCScRdArlimZ2	String	13	farest border to scanner device
Variable Data	data	DInt	4	

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Write Variable:				
sWN RCScRdArlimZ2 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCScRdArlimZ2	String	13	farest border to scanner device
Variable Data	data	DInt	4	

Write Variable Response:				
sWA RCScRdArlimZ2				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCScRdArlimZ2	String	13	farest border to scanner device

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCScRdArlimZ2[ETX]
Read Variable Response:	[STX]sRA RCScRdArlimZ2 578[ETX]
Write Variable:	[STX]sWN RCScRdArlimZ2 +1400[ETX]
Write Variable Response:	[STX]sWA RCScRdArlimZ2[ETX]

2.24.3.21. Variable: RCPreferredFocus

The following section contains a detailed description of the variable RCPreferredFocus.

Variable Overview

Variable Name
RCPreferredFocus

Communication Name	RCPrefFcs
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1011
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_DEFAULT_FOCUS	
	Value	Name	Description
	0	TX_DEFAULT_FOCUS	
	1	TX_FOCUS_OF_LAST_OBJ	
	2	TX_DEFAULT_FOCUS_AT_GATE_OFF	

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Variable Telegram Syntax

Read Variable:				
`sRN RCPrefFcs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCPrefFcs	String	9	

Read Variable Response:				
`sRA RCPrefFcs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCPrefFcs	String	9	
Variable Data	data	Enum8	1	

Write Variable:				
`sWN RCPrefFcs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCPrefFcs	String	9	
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA RCPrefFcs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCPrefFcs	String	9	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCPrefFcs[ETX]`
Read Variable Response:	`[STX]sRA RCPrefFcs 0[ETX]`
Write Variable:	`[STX]sWN RCPrefFcs 0[ETX]`
Write Variable Response:	`[STX]sWA RCPrefFcs[ETX]`

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2.24.3.22. Variable: RCFieldMinAngle

The following section contains a detailed description of the variable RCFieldMinAngle.

Variable Overview

Variable Name
RCFieldMinAngle

Communication Name	RCFldMinAng
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1012
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	-25..25
Initialisation	-23
Physical Unit	°
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCFldMinAng
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCFldMinAng	String	11	

Read Variable Response:

```
sRA RCFldMinAng <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCFldMinAng	String	11	
Variable Data	data	Int	2	

Write Variable:

```
sWN RCFldMinAng <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCFldMinAng	String	11	
Variable Data	data	Int	2	

Write Variable Response:

```
sWA RCFldMinAng
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCFldMinAng	String	11	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCFldMinAng[ETX]`
Read Variable Response:	`[STX]sRA RCFldMinAng FFE9[ETX]`
Write Variable:	`[STX]sWN RCFldMinAng -23[ETX]`
Write Variable Response:	`[STX]sWA RCFldMinAng[ETX]`

2.24.3.23. Variable: RCFieldMaxAngle

The following section contains a detailed description of the variable RCFieldMaxAngle.

Variable Overview

Variable Name
RCFieldMaxAngle

Communication Name	RCFldMaxAng
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1013
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	-25..25
Initialisation	23
Physical Unit	°
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN RCFldMaxAng`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCFldMaxAng	String	11	

Read Variable Response:

`sRA RCFldMaxAng <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCFldMaxAng	String	11	
Variable Data	data	Int	2	

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Write Variable:				
sWN RCFldMaxAng <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCFldMaxAng	String	11	
Variable Data	data	Int	2	

Write Variable Response:				
sWA RCFldMaxAng				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCFldMaxAng	String	11	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCFldMaxAng[ETX]
Read Variable Response:	[STX]sRA RCFldMaxAng 17[ETX]
Write Variable:	[STX]sWN RCFldMaxAng +23[ETX]
Write Variable Response:	[STX]sWA RCFldMaxAng[ETX]

2.24.3.24. Variable: RCFieldOffset

The following section contains a detailed description of the variable RCFieldOffset.

Variable Overview

Variable Name
RCFieldOffset

Communication Name	RCFldOffs
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1014
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	-32768..32767
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCFldOffs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCFldOffs	String	9	

Read Variable Response:				
`sRA RCFldOffs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCFldOffs	String	9	
Variable Data	data	Int	2	

Write Variable:				
`sWN RCFldOffs <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCFldOffs	String	9	
Variable Data	data	Int	2	

Write Variable Response:				
`sWA RCFldOffs`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCFldOffs	String	9	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCFldOffs[ETX]`
Read Variable Response:	`[STX]sRA RCFldOffs 0[ETX]`
Write Variable:	`[STX]sWN RCFldOffs +0[ETX]`
Write Variable Response:	`[STX]sWA RCFldOffs[ETX]`

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2.24.3.25. Variable: RCFocusStrategy

The following section contains a detailed description of the variable RCFocusStrategy.

Variable Overview

Variable Name
RCFocusStrategy

Communication Name	RCFcsStrtg
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1015
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_HIGHEST	
	Value	Name	Description
	0	TX_HIGHEST	
	1	TX_LOWEST	
	2	TX_NEAREST	
	3	TX_FAREST	
	4	TX_FAREST_TO_DEFAULT	
	5	TX_MOST_IN_THE_MIDDLE	
	6	TX_MOST_LEFT	
	7	TX_MOST_RIGHT	

Variable Telegram Syntax

Read Variable:

```
sRN RCFcsStrtg
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCFcsStrtg	String	10	

Read Variable Response:

```
sRA RCFcsStrtg <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCFcsStrtg	String	10	
Variable Data	data	Enum8	1	

Write Variable:

```
sWN RCFcsStrtg <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCFcsStrtg	String	10	
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA RCFcsStrtg				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCFcsStrtg	String	10	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCFcsStrtg[ETX]
Read Variable Response:	[STX]sRA RCFcsStrtg 0[ETX]
Write Variable:	[STX]sWN RCFcsStrtg 0[ETX]
Write Variable Response:	[STX]sWA RCFcsStrtg[ETX]

2.24.3.26. Variable: RCReadingAreaComposition

The following section contains a detailed description of the variable RCReadingAreaComposition.

Variable Overview

Variable Name	Description
RCReadingAreaComposition	Composition type and reading area selection

Communication Name	RCRdCom
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1016
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
Type			
	Enum8		
	Default Value	COMPOSITE_AND	
	Value	Name	Description
	0	COMPOSITE_OR	
	1	COMPOSITE_AND	
	2	COMPOSITE_MIN	
	3	COMPOSITE_MAX	
ConveyorArea			
	Bool		
	Value Range	False, True	
	Initialisation	False	

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Struct		
ScannerArea		
	Bool	
	Value Range	False, True
	Initialisation	True
TeachInArea		
	Bool	
	Value Range	False, True
	Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN RCRdCom
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCRdCom	String	7	Composition type and reading area selection

Read Variable Response:

```
sRA RCRdCom <Type> <ConveyorArea> <ScannerArea> <TeachInArea>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCRdCom	String	7	Composition type and reading area selection
Variable Data 1	Type	Enum8	1	
Variable Data 2	ConveyorArea	Bool	1	
Variable Data 3	ScannerArea	Bool	1	
Variable Data 4	TeachInArea	Bool	1	

Write Variable:

```
sWN RCRdCom <Type> <ConveyorArea> <ScannerArea> <TeachInArea>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCRdCom	String	7	Composition type and reading area selection
Variable Data 1	Type	Enum8	1	
Variable Data 2	ConveyorArea	Bool	1	
Variable Data 3	ScannerArea	Bool	1	
Variable Data 4	TeachInArea	Bool	1	

Write Variable Response:

```
sWA RCRdCom
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCRdCom	String	7	Composition type and reading area selection

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCRdCom[ETX]`
Read Variable Response:	`[STX]sRA RCRdCom 1 0 1 0[ETX]`
Write Variable:	`[STX]sWN RCRdCom 1 0 1 0[ETX]`
Write Variable Response:	`[STX]sWA RCRdCom[ETX]`

2.24.3.27. Variable: RCTeachedField

The following section contains a detailed description of the variable RCTeachedField.

Variable Overview

Variable Name	Description
RCTeachedField	Teached field (By 'teach field' button)

Communication Name	RCTchdFld
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1017
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
Valid			
	Bool		
	Value Range		False, True
	Initialisation		False
DistValues			
	Array		
	Length		0..60
		Real	
		Value Range	See specification IEEE 754
		Initialisation	0.0
		Physical Unit	
		Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCTchdFld`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCTchdFld	String	9	Teached field (By 'teach field' button)

Read Variable Response:				
`sRA RCTchdFld <Valid> <DistValues>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCTchdFld	String	9	Teached field (By 'teach field' button)
Variable Data 1	Valid	Bool	1	
Variable Data 2	DistValues	Array	240	

Write Variable:				
`sWN RCTchdFld <Valid> <DistValues>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCTchdFld	String	9	Teached field (By 'teach field' button)
Variable Data 1	Valid	Bool	1	
Variable Data 2	DistValues	Array	240	

Write Variable Response:				
`sWA RCTchdFld`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCTchdFld	String	9	Teached field (By 'teach field' button)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCTchdFld[ETX]`
Read Variable Response:	`[STX]sRA RCTchdFld 0 0[ETX]`
Write Variable:	`[STX]sWN RCTchdFld 0 +0[ETX]`
Write Variable Response:	`[STX]sWA RCTchdFld[ETX]`

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2.24.3.28. Variable: RCBlankingWidth

The following section contains a detailed description of the variable RCBlankingWidth.

Variable Overview

Variable Name	Description
RCBlankingWidth	Focusing blanking width

Communication Name	RCBlWdth
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1018
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	1..100
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCBlWdth
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCBlWdth	String	8	Focusing blanking width

Read Variable Response:

```
sRA RCBlWdth <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCBlWdth	String	8	Focusing blanking width
Variable Data	data	UInt	2	

Write Variable:

```
sWN RCBlWdth <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCBlWdth	String	8	Focusing blanking width
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA RCBlWdth
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCBlWdth	String	8	Focusing blanking width

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCBlWdth[ETX]`
Read Variable Response:	`[STX]sRA RCBlWdth 32[ETX]`
Write Variable:	`[STX]sWN RCBlWdth 32[ETX]`
Write Variable Response:	`[STX]sWA RCBlWdth[ETX]`

2.24.3.29. Variable: RCFocusResponseTime

The following section contains a detailed description of the variable RCFocusResponseTime.

Variable Overview

Variable Name	Description
RCFocusResponseTime	Time for field infringement to be signalled

Communication Name	RCTmRspns
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1021
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..1000
Initialisation	0
Physical Unit	ms
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCTmRspns
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCTmRspns	String	9	Time for field infringement to be signalled

Read Variable Response:

```
sRA RCTmRspns <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCTmRspns	String	9	Time for field infringement to be signalled
Variable Data	data	UInt	2	

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Write Variable:				
sWN RCTmRspns <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCTmRspns	String	9	Time for field infringement to be signalled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA RCTmRspns				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCTmRspns	String	9	Time for field infringement to be signalled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCTmRspns[ETX]
Read Variable Response:	[STX]sRA RCTmRspns 0[ETX]
Write Variable:	[STX]sWN RCTmRspns 0[ETX]
Write Variable Response:	[STX]sWA RCTmRspns[ETX]

2.24.3.30. Variable: RCFocusTimeDebouncingValue

The following section contains a detailed description of the variable RCFocusTimeDebouncingValue.

Variable Overview

Variable Name	Description
RCFocusTimeDebouncingValue	Debouncing of focus value over time

Communication Name	RCTmDbnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1022
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..1000
Initialisation	50
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCTmDbnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCTmDbnc	String	8	Debouncing of focus value over time

Read Variable Response:				
`sRA RCTmDbnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCTmDbnc	String	8	Debouncing of focus value over time
Variable Data	data	UInt	2	

Write Variable:				
`sWN RCTmDbnc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCTmDbnc	String	8	Debouncing of focus value over time
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA RCTmDbnc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCTmDbnc	String	8	Debouncing of focus value over time

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCTmDbnc[ETX]`
Read Variable Response:	`[STX]sRA RCTmDbnc 32[ETX]`
Write Variable:	`[STX]sWN RCTmDbnc 32[ETX]`
Write Variable Response:	`[STX]sWA RCTmDbnc[ETX]`

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2.24.3.31. Variable: RCFocusDistanceDebouncingValue

The following section contains a detailed description of the variable RCFocusDistanceDebouncingValue.

Variable Overview

Variable Name	Description
RCFocusDistanceDebouncingValue	When focus changed by that value (or more), focus may be changed

Communication Name	RCDstDbnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1023
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	10..100
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCDstDbnc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCDstDbnc	String	9	When focus changed by that value (or more), focus may be changed

Read Variable Response:

```
sRA RCDstDbnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCDstDbnc	String	9	When focus changed by that value (or more), focus may be changed
Variable Data	data	USInt	1	

Write Variable:

```
sWN RCDstDbnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCDstDbnc	String	9	When focus changed by that value (or more), focus may be changed
Variable Data	data	USInt	1	

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Write Variable Response:				
sWA RCDstDbnc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCDstDbnc	String	9	When focus changed by that value (or more), focus may be changed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCDstDbnc[ETX]
Read Variable Response:	[STX]sRA RCDstDbnc 32[ETX]
Write Variable:	[STX]sWN RCDstDbnc 32[ETX]
Write Variable Response:	[STX]sWA RCDstDbnc[ETX]

2.24.3.32. Variable: RCMinOscMirrFocusAngle

The following section contains a detailed description of the variable RCMinOscMirrFocusAngle.

Variable Overview

Variable Name	Description
RCMinOscMirrFocusAngle	Minimum OM Angle for dist. profiles to be used for autofocus

Communication Name	RCMinOMAF
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1024
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	-200..0
Initialisation	-200
Physical Unit	1/10 °
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN RCMinOMAF`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCMinOMAF	String	9	Minimum OM Angle for dist. profiles to be used for autofocus

Read Variable Response:				
`sRA RCMinOMAF <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCMinOMAF	String	9	Minimum OM Angle for dist. profiles to be used for autofocus
Variable Data	data	Int	2	

Write Variable:				
`sWN RCMinOMAF <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCMinOMAF	String	9	Minimum OM Angle for dist. profiles to be used for autofocus
Variable Data	data	Int	2	

Write Variable Response:				
`sWA RCMinOMAF`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCMinOMAF	String	9	Minimum OM Angle for dist. profiles to be used for autofocus

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCMinOMAF[ETX]`
Read Variable Response:	`[STX]sRA RCMinOMAF FF38[ETX]`
Write Variable:	`[STX]sWN RCMinOMAF -200[ETX]`
Write Variable Response:	`[STX]sWA RCMinOMAF[ETX]`

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2.24.3.33. Variable: RCMaxOscMirrFocusAngle

The following section contains a detailed description of the variable RCMaxOscMirrFocusAngle.

Variable Overview

Variable Name	Description
RCMaxOscMirrFocusAngle	Maximum OM Angle for dist. profiles to be used for autofocus

Communication Name	RCMaxOMAF
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1025
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Int	
Value Range	0..200
Initialisation	200
Physical Unit	1/10 °
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN RCMaxOMAF
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCMaxOMAF	String	9	Maximum OM Angle for dist. profiles to be used for autofocus

Read Variable Response:

```
sRA RCMaxOMAF <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCMaxOMAF	String	9	Maximum OM Angle for dist. profiles to be used for autofocus
Variable Data	data	Int	2	

Write Variable:

```
sWN RCMaxOMAF <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCMaxOMAF	String	9	Maximum OM Angle for dist. profiles to be used for autofocus
Variable Data	data	Int	2	

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Write Variable Response:				
sWA RCMaxOMAF				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCMaxOMAF	String	9	Maximum OM Angle for dist. profiles to be used for autofocus

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN RCMaxOMAF[ETX]
Read Variable Response:	[STX]sRA RCMaxOMAF C8[ETX]
Write Variable:	[STX]sWN RCMaxOMAF +200[ETX]
Write Variable Response:	[STX]sWA RCMaxOMAF[ETX]

2.24.3.34. Variable: RCInverseCode

The following section contains a detailed description of the variable RCInverseCode.

Variable Overview

Variable Name	Description
RCInverseCode	Activates inverse code reading

Communication Name	RCInvCode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1027
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN RCInvCode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	RCInvCode	String	9	Activates inverse code reading

Read Variable Response:				
`sRA RCInvCode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	RCInvCode	String	9	Activates inverse code reading
Variable Data	data	Bool	1	

Write Variable:				
`sWN RCInvCode <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	RCInvCode	String	9	Activates inverse code reading
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA RCInvCode`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	RCInvCode	String	9	Activates inverse code reading

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN RCInvCode[ETX]`
Read Variable Response:	`[STX]sRA RCInvCode 0[ETX]`
Write Variable:	`[STX]sWN RCInvCode 0[ETX]`
Write Variable Response:	`[STX]sWA RCInvCode[ETX]`

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2.24.3.35. Variable: LampTimeoutActive

The following section contains a detailed description of the variable LampTimeoutActive.

Variable Overview

Variable Name	Description
LampTimeoutActive	True if lamp timeout is active

Communication Name	LCTmoutact
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1029
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN LCTmoutact
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	LCTmoutact	String	10	True if lamp timeout is active

Read Variable Response:

```
sRA LCTmoutact <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	LCTmoutact	String	10	True if lamp timeout is active
Variable Data	data	Bool	1	

Write Variable:

```
sWN LCTmoutact <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	LCTmoutact	String	10	True if lamp timeout is active
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA LCTmoutact
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	LCTmoutact	String	10	True if lamp timeout is active

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN LCTmoutact[ETX]`
Read Variable Response:	`[STX]sRA LCTmoutact 0[ETX]`
Write Variable:	`[STX]sWN LCTmoutact 0[ETX]`
Write Variable Response:	`[STX]sWA LCTmoutact[ETX]`

2.24.3.36. Variable: LampTimeoutTime

The following section contains a detailed description of the variable LampTimeoutTime.

Variable Overview

Variable Name	Description
LampTimeoutTime	Defines the time for the lamp timeout in minutes

Communication Name	LCTmouttm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1030
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UDInt	
Value Range	1..1500
Initialisation	10
Physical Unit	min
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

`sRN LCTmouttm`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	LCTmouttm	String	9	Defines the time for the lamp timeout in minutes

Read Variable Response:

`sRA LCTmouttm <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	LCTmouttm	String	9	Defines the time for the lamp timeout in minutes
Variable Data	data	UDInt	4	

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Write Variable:				
sWN LCTmouttm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	LCTmouttm	String	9	Defines the time for the lamp timeout in minutes
Variable Data	data	UDInt	4	

Write Variable Response:				
sWA LCTmouttm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	LCTmouttm	String	9	Defines the time for the lamp timeout in minutes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN LCTmouttm[ETX]
Read Variable Response:	[STX]sRA LCTmouttm A[ETX]
Write Variable:	[STX]sWN LCTmouttm A[ETX]
Write Variable Response:	[STX]sWA LCTmouttm[ETX]

2.24.3.37. Variable: DynamicReadingSource

The following section contains a detailed description of the variable DynamicReadingSource.

Variable Overview

Variable Name	Description
DynamicReadingSource	Source for table switching

Communication Name	DynRdSrc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1031
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
	Value	Name	Description
	0	TX_SW_COMMAND	
	1	TX_TIMER	
	2	TX_OSC_MIRROR_EXTREMA	
	3	TX_SENSOR_INPUTS	
	4	TX_FIELDBUS	

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Variable Telegram Syntax

Read Variable:				
`sRN DynRdSrc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdSrc	String	8	Source for table switching

Read Variable Response:				
`sRA DynRdSrc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdSrc	String	8	Source for table switching
Variable Data	data	Enum8	1	

Write Variable:				
`sWN DynRdSrc <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DynRdSrc	String	8	Source for table switching
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA DynRdSrc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdSrc	String	8	Source for table switching

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DynRdSrc[ETX]`
Read Variable Response:	`[STX]sRA DynRdSrc 0[ETX]`
Write Variable:	`[STX]sWN DynRdSrc 0[ETX]`
Write Variable Response:	`[STX]sWA DynRdSrc[ETX]`

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2.24.3.38. Variable: DynamicReadingMode

The following section contains a detailed description of the variable DynamicReadingMode.

Variable Overview

Variable Name	Description
DynamicReadingMode	Immediate/Latched mode switch for dyn. rd. cfg

Communication Name	DynRdMode
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1032
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
	Value	Name	Description
	0	TX_IMMEDIATE	
	1	TX_LATCHED	

Variable Telegram Syntax

Read Variable:

```
sRN DynRdMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdMode	String	9	Immediate/Latched mode switch for dyn. rd. cfg

Read Variable Response:

```
sRA DynRdMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdMode	String	9	Immediate/Latched mode switch for dyn. rd. cfg
Variable Data	data	Enum8	1	

Write Variable:

```
sWN DynRdMode <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DynRdMode	String	9	Immediate/Latched mode switch for dyn. rd. cfg
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA DynRdMode
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdMode	String	9	Immediate/Latched mode switch for dyn. rd. cfg

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DynRdMode[ETX]`
Read Variable Response:	`[STX]sRA DynRdMode 0[ETX]`
Write Variable:	`[STX]sWN DynRdMode 0[ETX]`
Write Variable Response:	`[STX]sWA DynRdMode[ETX]`

2.24.3.39. Variable: DynamicReadingConfigEnabled

The following section contains a detailed description of the variable DynamicReadingConfigEnabled.

Variable Overview

Variable Name	Description
DynamicReadingConfigEnabled	Flag to enable reading config

Communication Name	DynRdCfgEn
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1033
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

`sRN DynRdCfgEn`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdCfgEn	String	10	Flag to enable reading config

Read Variable Response:

`sRA DynRdCfgEn <data>`

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdCfgEn	String	10	Flag to enable reading config
Variable Data	data	Bool	1	

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Write Variable:				
`sWN DynRdCfgEn <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DynRdCfgEn	String	10	Flag to enable reading config
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA DynRdCfgEn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdCfgEn	String	10	Flag to enable reading config

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DynRdCfgEn[ETX]`
Read Variable Response:	`[STX]sRA DynRdCfgEn 0[ETX]`
Write Variable:	`[STX]sWN DynRdCfgEn 0[ETX]`
Write Variable Response:	`[STX]sWA DynRdCfgEn[ETX]`

2.24.3.40. Variable: DynamicReadingConfigTimerValue

The following section contains a detailed description of the variable DynamicReadingConfigTimerValue.

Variable Overview

Variable Name	Description
DynamicReadingConfigTimerValue	Timer value if source is timer

Communication Name	DynRdTmr
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1034
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	50..65535
Initialisation	500
Physical Unit	ms
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DynRdTmr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdTmr	String	8	Timer value if source is timer

Read Variable Response:				
`sRA DynRdTmr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdTmr	String	8	Timer value if source is timer
Variable Data	data	UInt	2	

Write Variable:				
`sWN DynRdTmr <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DynRdTmr	String	8	Timer value if source is timer
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DynRdTmr`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdTmr	String	8	Timer value if source is timer

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DynRdTmr[ETX]`
Read Variable Response:	`[STX]sRA DynRdTmr 1F4[ETX]`
Write Variable:	`[STX]sWN DynRdTmr 1F4[ETX]`
Write Variable Response:	`[STX]sWA DynRdTmr[ETX]`

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2.24.3.41. Variable: DynamicReadingAssignmentTable

The following section contains a detailed description of the variable DynamicReadingAssignmentTable.

Variable Overview

Variable Name	Description
DynamicReadingAssignmentTable	Assignment table for up to eight reading configurations

Communication Name	DynRdAssgnTbl
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1035
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array			
Length	32		
Default Value	{0, 1, 2, 3, 4, 5, 6, 7, 0, 1, 2, 3, 4, 5, 6, 7, 0, 1, 2, 3, 4, 5, 6, 7, 0, 1, 2, 3, 4, 5, 6, 7}		
Enum8			
	Value	Name	Description
	0	C1	
	1	C2	
	2	C3	
	3	C4	
	4	C5	
	5	C6	
	6	C7	
	7	C8	

Variable Telegram Syntax

Read Variable:

```
sRN DynRdAssgnTbl
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdAssgnTbl	String	13	Assignment table for up to eight reading configurations

Read Variable Response:

```
sRA DynRdAssgnTbl <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdAssgnTbl	String	13	Assignment table for up to eight reading configurations
Variable Data	data	Array	32	

Write Variable:

```
sWN DynRdAssgnTbl <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name

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Write Variable:				
sWN DynRdAssgnTbl <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	DynRdAssgnTbl	String	13	Assignment table for up to eight reading configurations
Variable Data	data	Array	32	

Write Variable Response:				
sWA DynRdAssgnTbl				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdAssgnTbl	String	13	Assignment table for up to eight reading configurations

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DynRdAssgnTbl[ETX]
Read Variable Response:	[STX]sRA DynRdAssgnTbl 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7[ETX]
Write Variable:	[STX]sWN DynRdAssgnTbl 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7[ETX]
Write Variable Response:	[STX]sWA DynRdAssgnTbl[ETX]

2.24.3.42. Variable: DynamicReadingAssignmentTableLength

The following section contains a detailed description of the variable DynamicReadingAssignmentTableLength.

Variable Overview

Variable Name	Description
DynamicReadingAssignmentTableLength	Number of items (up to 32) visible

Communication Name	DynRdAssgnTblLen
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1036
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

USInt	
Value Range	1..8
Initialisation	8
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DynRdAssgnTblLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdAssgnTblLen	String	16	Number of items (up to 32) visible

Read Variable Response:				
`sRA DynRdAssgnTblLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdAssgnTblLen	String	16	Number of items (up to 32) visible
Variable Data	data	USInt	1	

Write Variable:				
`sWN DynRdAssgnTblLen <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DynRdAssgnTblLen	String	16	Number of items (up to 32) visible
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA DynRdAssgnTblLen`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdAssgnTblLen	String	16	Number of items (up to 32) visible

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DynRdAssgnTblLen[ETX]`
Read Variable Response:	`[STX]sRA DynRdAssgnTblLen 8[ETX]`
Write Variable:	`[STX]sWN DynRdAssgnTblLen 8[ETX]`
Write Variable Response:	`[STX]sWA DynRdAssgnTblLen[ETX]`

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2.24.3.43. Variable: DynamicReadingSensorPriorities

The following section contains a detailed description of the variable DynamicReadingSensorPriorities.

Variable Overview

Variable Name	Description
DynamicReadingSensorPriorities	Assignment of priorities to sensor inputs

Communication Name	DynRdInpPrio
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1037
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Array			
Length		5	
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_NONE	
	1	TX_SENS_1	
	2	TX_SENS_2	
	3	TX_EXT_SENS_1	
	4	TX_EXT_SENS_2	

Variable Telegram Syntax

Read Variable:

```
sRN DynRdInpPrio
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DynRdInpPrio	String	12	Assignment of priorities to sensor inputs

Read Variable Response:

```
sRA DynRdInpPrio <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DynRdInpPrio	String	12	Assignment of priorities to sensor inputs
Variable Data	data	Array	5	

Write Variable:

```
sWN DynRdInpPrio <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DynRdInpPrio	String	12	Assignment of priorities to sensor inputs
Variable Data	data	Array	5	

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Write Variable Response:				
sWA DynRdInpPrio				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DynRdInpPrio	String	12	Assignment of priorities to sensor inputs

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DynRdInpPrio[ETX]
Read Variable Response:	[STX]sRA DynRdInpPrio 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN DynRdInpPrio 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA DynRdInpPrio[ETX]

2.24.3.44. Variable: ASSetupCodeConfig

The following section contains a detailed description of the variable ASSetupCodeConfig.

Variable Overview

Variable Name	Description
ASSetupCodeConfig	If true the code configuration setup during auto setup

Communication Name	ASSetupCodeCfg
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1038
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN ASSetupCodeCfg`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ASSetupCodeCfg	String	14	If true the code configuration setup during auto setup

Read Variable Response:				
`sRA ASSetupCodeCfg <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ASSetupCodeCfg	String	14	If true the code configuration setup during auto setup
Variable Data	data	Bool	1	

Write Variable:				
`sWN ASSetupCodeCfg <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ASSetupCodeCfg	String	14	If true the code configuration setup during auto setup
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA ASSetupCodeCfg`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ASSetupCodeCfg	String	14	If true the code configuration setup during auto setup

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ASSetupCodeCfg[ETX]`
Read Variable Response:	`[STX]sRA ASSetupCodeCfg 1[ETX]`
Write Variable:	`[STX]sWN ASSetupCodeCfg 1[ETX]`
Write Variable Response:	`[STX]sWA ASSetupCodeCfg[ETX]`

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2.24.3.45. Variable: ASExtendCodeConfig

The following section contains a detailed description of the variable ASExtendCodeConfig.

Variable Overview

Variable Name	Description
ASExtendCodeConfig	If true the code configuration will be extended when an auto setup is executed

Communication Name	ASExtCodeCfg
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1039
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN ASExtCodeCfg
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ASExtCodeCfg	String	12	If true the code configuration will be extended when an auto setup is executed

Read Variable Response:

```
sRA ASExtCodeCfg <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ASExtCodeCfg	String	12	If true the code configuration will be extended when an auto setup is executed
Variable Data	data	Bool	1	

Write Variable:

```
sWN ASExtCodeCfg <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ASExtCodeCfg	String	12	If true the code configuration will be extended when an auto setup is executed
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA ASExtCodeCfg
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA ASExtCodeCfg				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	ASExtCodeCfg	String	12	If true the code configuration will be extended when an auto setup is executed

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN ASExtCodeCfg[ETX]
Read Variable Response:	[STX]sRA ASExtCodeCfg 1[ETX]
Write Variable:	[STX]sWN ASExtCodeCfg 1[ETX]
Write Variable Response:	[STX]sWA ASExtCodeCfg[ETX]

2.24.3.46. Variable: ASSetupScanfrequency

The following section contains a detailed description of the variable ASSetupScanfrequency.

Variable Overview

Variable Name	Description
ASSetupScanfrequency	If true the scanfrequency will be setup during auto setup

Communication Name	ASSetupScanFrq
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1040
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

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Variable Telegram Syntax

Read Variable:				
`sRN ASSetupScanFrq`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ASSetupScanFrq	String	14	If true the scanfrequency will be setup during auto setup

Read Variable Response:				
`sRA ASSetupScanFrq <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ASSetupScanFrq	String	14	If true the scanfrequency will be setup during auto setup
Variable Data	data	Bool	1	

Write Variable:				
`sWN ASSetupScanFrq <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ASSetupScanFrq	String	14	If true the scanfrequency will be setup during auto setup
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA ASSetupScanFrq`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ASSetupScanFrq	String	14	If true the scanfrequency will be setup during auto setup

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ASSetupScanFrq[ETX]`
Read Variable Response:	`[STX]sRA ASSetupScanFrq 1[ETX]`
Write Variable:	`[STX]sWN ASSetupScanFrq 1[ETX]`
Write Variable Response:	`[STX]sWA ASSetupScanFrq[ETX]`

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2.24.3.47. Variable: ASSetupFocusPos

The following section contains a detailed description of the variable ASSetupFocusPos.

Variable Overview

Variable Name	Description
ASSetupFocusPos	If true the focus position will be setup during auto setup

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1041
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:

```
sRN ASSetupFocusPos
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ASSetupFocusPos	String	15	If true the focus position will be setup during auto setup

Read Variable Response:

```
sRA ASSetupFocusPos <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ASSetupFocusPos	String	15	If true the focus position will be setup during auto setup
Variable Data	data	Bool	1	

Write Variable:

```
sWN ASSetupFocusPos <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ASSetupFocusPos	String	15	If true the focus position will be setup during auto setup
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA ASSetupFocusPos
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ASSetupFocusPos	String	15	If true the focus position will be setup during auto setup

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ASSetupFocusPos[ETX]`
Read Variable Response:	`[STX]sRA ASSetupFocusPos 1[ETX]`
Write Variable:	`[STX]sWN ASSetupFocusPos 1[ETX]`
Write Variable Response:	`[STX]sWA ASSetupFocusPos[ETX]`

2.24.3.48. Variable: ASStorePermanent

The following section contains a detailed description of the variable ASStorePermanent.

Variable Overview

Variable Name	Description
ASStorePermanent	If true the parameters will be stored permanent after a successful auto setup

Communication Name	ASStorePerm
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1042
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	True

Variable Telegram Syntax

Read Variable:				
`sRN ASStorePerm`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ASStorePerm	String	11	If true the parameters will be stored permanent after a successful auto setup

Read Variable Response:				
`sRA ASStorePerm <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ASStorePerm	String	11	If true the parameters will be stored permanent after a successful auto setup
Variable Data	data	Bool	1	

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Write Variable:				
sWN ASStorePerm <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ASStorePerm	String	11	If true the parameters will be stored permanent after a successful auto setup
Variable Data	data	Bool	1	

Write Variable Response:				
sWA ASStorePerm				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ASStorePerm	String	11	If true the parameters will be stored permanent after a successful auto setup

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN ASStorePerm[ETX]
Read Variable Response:	[STX]sRA ASStorePerm 1[ETX]
Write Variable:	[STX]sWN ASStorePerm 1[ETX]
Write Variable Response:	[STX]sWA ASStorePerm[ETX]

2.24.3.49. Method: SetDeviceIdle

The following section contains a detailed description of the method SetDeviceIdle.

Method Overview

Method Name	Description
SetDeviceIdle	sets the device idle if parameter is TRUE, mirror wheel is stopped, and oscillating mirror will be stopped if existing

Communication Name	mTCsetidle
Sopas Index	133
Invocation Access	Always

Parameters	
GoIdle	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
sMN mTCsetidle <GoIdle>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCsetidle	String	10	sets the device idle if parameter is TRUE, mirror wheel is stopped, and oscillating mirror will be stopped if existing
Parameter 1	GoIdle	Bool	1	

Method Return Value:				
sAN mTCsetidle				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCsetidle	String	10	sets the device idle if parameter is TRUE, mirror wheel is stopped, and oscillating mirror will be stopped if existing

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mTCsetidle 0[ETX]
Method Return Value:	[STX]sAN mTCsetidle[ETX]

2.24.3.50. Method: ActivateAdjustingMode

The following section contains a detailed description of the method ActivateAdjustingMode.

Method Overview

Method Name	Description
ActivateAdjustingMode	Activates the adjusting mode. The adjusting mode switches off the laser beam exactly on position RA=50.

Communication Name	mRCadjust
Sopas Index	134
Invocation Access	Always

Parameters	
ActivateAdjust	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
sMN mRCadjust <ActivateAdjust>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRCadjust	String	9	Activates the adjusting mode. The adjusting mode switches off the laser beam exactly on position RA=50.
Parameter 1	ActivateAdjust	Bool	1	

Method Return Value:				
sAN mRCadjust				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRCadjust	String	9	Activates the adjusting mode. The adjusting mode switches off the laser beam exactly on position RA=50.

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mRCadjust 0[ETX]
Method Return Value:	[STX]sAN mRCadjust[ETX]

2.24.3.51. Method: ActivateAdjustingModeEnhanced

The following section contains a detailed description of the method ActivateAdjustingModeEnhanced.

Method Overview

Method Name	Description
ActivateAdjustingModeEnhanced	Activates the adjusting mode. The adjusting mode switches off the laser beam at a given RA position.

Communication Name	mRCadjustEnh
Sopas Index	135
Invocation Access	Always

Parameters				
Mode				
	Enum8			
	Default Value	0		
	Value	Name	Description	
	0	Off	Deactivate adjusting mode	
	1	OnTime	Activate adjusting mode with TimeLaserOff	
	2	OnCP	Activate adjusting mode with CPLaserOn	

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Parameters		
CPLaserOff		CP to switch laser off
	USInt	
	Value Range	0..100
	Initialisation	50
	Physical Unit	
	Physical Unit Factor	0.0
TimeLaserOff		time laser is off for Mode == OnTime
	UInt	
	Value Range	0..5000
	Initialisation	400
	Physical Unit	us
	Physical Unit Factor	0.0
CPLaserOn		CP to switch laser on again for Mode == OnCP
	USInt	
	Value Range	0..100
	Initialisation	80
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mRCadjustEnh <Mode> <CPLaserOff> <TimeLaserOff> <CPLaserOn>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRCadjustEnh	String	12	Activates the adjusting mode. The adjusting mode switches off the laser beam at a given RA position.
Parameter 1	Mode	Enum8	1	
Parameter 2	CPLaserOff	USInt	1	CP to switch laser off
Parameter 3	TimeLaserOff	UInt	2	time laser is off for Mode == OnTime
Parameter 4	CPLaserOn	USInt	1	CP to switch laser on again for Mode == OnCP

Method Return Value:

```
sAN mRCadjustEnh
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRCadjustEnh	String	12	Activates the adjusting mode. The adjusting mode switches off the laser beam at a given RA position.

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mRCadjustEnh 0 32 190 50[ETX]`
Method Return Value:	`[STX]sAN mRCadjustEnh[ETX]`

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2.24.3.52. Method: DoMatchCodeTeachIn

The following section contains a detailed description of the method DoMatchCodeTeachIn.

Method Overview

Method Name	Description
DoMatchCodeTeachIn	executes a match code teach in

Communication Name	mRCMaCdTeach
Sopas Index	136
Invocation Access	Always

Parameters			
Mode			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	DEFAULT	
	1	TEACH_IN_1	
	2	TEACH_IN_2	

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mRCMaCdTeach <Mode>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRCMaCdTeach	String	12	executes a match code teach in
Parameter 1	Mode	Enum8	1	

Method Response:

```
sMA mRCMaCdTeach
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mRCMaCdTeach	String	12	executes a match code teach in

Method Return Value:

```
sAN mRCMaCdTeach <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRCMaCdTeach	String	12	executes a match code teach in
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mRCMaCdTeach 0[ETX]`
Method Response:	`[STX]sMA mRCMaCdTeach[ETX]`
Method Return Value:	`[STX]sAN mRCMaCdTeach 0[ETX]`

2.24.3.53. Method: StartAutoSetup

The following section contains a detailed description of the method StartAutoSetup.

Method Overview

Method Name	Description
StartAutoSetup	executes an auto setup

Communication Name	mRCStartAutoSetup
Sopas Index	137
Invocation Access	Always

Parameters			
Mode			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	SELF_DIRECTED	
	1	STEPWISE	
Step			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	INITIALIZE	
	1	CODE_CONFIG	
	2	SCAN_FREQUENCY	
	3	FOCUS_POSITION	
	4	CODE_QUALITY	
	5	FINISH	
	6	CANCEL	

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mRCStartAutoSetup <Mode> <Step>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRCStartAutoSetup	String	17	executes an auto setup
Parameter 1	Mode	Enum8	1	
Parameter 2	Step	Enum8	1	

Method Response:				
`sMA mRCStartAutoSetup`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mRCStartAutoSetup	String	17	executes an auto setup

Method Return Value:				
`sAN mRCStartAutoSetup <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRCStartAutoSetup	String	17	executes an auto setup
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mRCStartAutoSetup 0 0[ETX]`
Method Response:	`[STX]sMA mRCStartAutoSetup[ETX]`
Method Return Value:	`[STX]sAN mRCStartAutoSetup 0[ETX]`

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2.24.3.54. Method: StopAutoSetup

The following section contains a detailed description of the method StopAutoSetup.

Method Overview

Method Name	Description
StopAutoSetup	cancels an auto setup

Communication Name	mRCStopAutoSetup
Sopas Index	138
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mRCStopAutoSetup`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRCStopAutoSetup	String	16	cancels an auto setup

Method Return Value:				
`sAN mRCStopAutoSetup`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRCStopAutoSetup	String	16	cancels an auto setup

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mRCStopAutoSetup[ETX]`
Method Return Value:	`[STX]sAN mRCStopAutoSetup[ETX]`

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2.24.3.55. Method: SwitchDynRdCfgTableIndex

The following section contains a detailed description of the method SwitchDynRdCfgTableIndex.

Method Overview

Method Name	Description
SwitchDynRdCfgTableIndex	Switches the dynamic reading cfg. table (2AA1-8)

Communication Name	mRCSwDynTblIdx
Sopas Index	139
Invocation Access	Always

Parameters	
Index	
USInt	
Value Range	0..255
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Return Values	
Success	
Bool	
Value Range	False, True
Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mRCSwDynTblIdx <Index>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mRCSwDynTblIdx	String	14	Switches the dynamic reading cfg. table (2AA1-8)
Parameter 1	Index	USInt	1	

Method Return Value:

```
sAN mRCSwDynTblIdx <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mRCSwDynTblIdx	String	14	Switches the dynamic reading cfg. table (2AA1-8)
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mRCSwDynTblIdx 1[ETX]`
Method Return Value:	`[STX]sAN mRCSwDynTblIdx 0[ETX]`

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2.24.4. Group: Increment

2.24.4.1. Variable: IncrSource

The following section contains a detailed description of the variable IncrSource.

Variable Overview

Variable Name	Description
IncrSource	Source of system increment

Communication Name	ICsrc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1051
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_FIX_VELOCITY	
	1	TX_SENSOR1	
	2	TX_SENSOR2	
	3	TX_CAN_1	
	4	TX_SOPAS_CMD	

Variable Telegram Syntax

Read Variable:

```
sRN ICsrc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICsrc	String	5	Source of system increment

Read Variable Response:

```
sRA ICsrc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICsrc	String	5	Source of system increment
Variable Data	data	Enum8	1	

Write Variable:

```
sWN ICsrc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICsrc	String	5	Source of system increment
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA ICsrc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICsrc	String	5	Source of system increment

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN ICsrc[ETX]
Read Variable Response:	[STX]sRA ICsrc 0[ETX]
Write Variable:	[STX]sWN ICsrc 0[ETX]
Write Variable Response:	[STX]sWA ICsrc[ETX]

2.24.4.2. Variable: IncrDistance

The following section contains a detailed description of the variable IncrDistance.

Variable Overview

Variable Name	Description
IncrDistance	Distance per increment (encoder resolution)

Communication Name	ICdist
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1052
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 0.01..100
Initialisation	10
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN ICdist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICdist	String	6	Distance per increment (encoder resolution)

Read Variable Response:				
`sRA ICdist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICdist	String	6	Distance per increment (encoder resolution)
Variable Data	data	Real	4	

Write Variable:				
`sWN ICdist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICdist	String	6	Distance per increment (encoder resolution)
Variable Data	data	Real	4	

Write Variable Response:				
`sWA ICdist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICdist	String	6	Distance per increment (encoder resolution)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ICdist[ETX]`
Read Variable Response:	`[STX]sRA ICdist 41200000[ETX]`
Write Variable:	`[STX]sWN ICdist +10.0[ETX]`
Write Variable Response:	`[STX]sWA ICdist[ETX]`

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2.24.4.3. Variable: IncrDistanceSystem

The following section contains a detailed description of the variable IncrDistanceSystem.

Variable Overview

Variable Name	Description
IncrDistanceSystem	Distance per system increment

Communication Name	ICdistsys
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1053
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 0.01..100
Initialisation	10
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN ICdistsys
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICdistsys	String	9	Distance per system increment

Read Variable Response:

```
sRA ICdistsys <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICdistsys	String	9	Distance per system increment
Variable Data	data	Real	4	

Write Variable:

```
sWN ICdistsys <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICdistsys	String	9	Distance per system increment
Variable Data	data	Real	4	

Write Variable Response:

```
sWA ICdistsys
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICdistsys	String	9	Distance per system increment

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ICdistsys[ETX]`
Read Variable Response:	`[STX]sRA ICdistsys 41200000[ETX]`
Write Variable:	`[STX]sWN ICdistsys +10.0[ETX]`
Write Variable Response:	`[STX]sWA ICdistsys[ETX]`

2.24.4.4. Variable: IncrFixVelocity

The following section contains a detailed description of the variable IncrFixVelocity.

Variable Overview

Variable Name	Description
IncrFixVelocity	If fix velocity is selected

Communication Name	ICFixVel
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1054
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Real	
Value Range	See specification IEEE 754 0.0..10.0
Initialisation	0.0
Physical Unit	m/s
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN ICFixVel
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICFixVel	String	8	If fix velocity is selected

Read Variable Response:

```
sRA ICFixVel <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICFixVel	String	8	If fix velocity is selected
Variable Data	data	Real	4	

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Write Variable:				
sWN ICFixVel <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICFixVel	String	8	If fix velocity is selected
Variable Data	data	Real	4	

Write Variable Response:				
sWA ICFixVel				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICFixVel	String	8	If fix velocity is selected

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN ICFixVel[ETX]
Read Variable Response:	[STX]sRA ICFixVel 00000000[ETX]
Write Variable:	[STX]sWN ICFixVel +0.0[ETX]
Write Variable Response:	[STX]sWA ICFixVel[ETX]

2.24.4.5. Variable: IncrPreProcess

The following section contains a detailed description of the variable IncrPreProcess.

Variable Overview

Variable Name	Description
IncrPreProcess	Increment preprocessing

Communication Name	ICprepro
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1055
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_OFF	
	Value	Name	Description
	0	TX_OFF	
	1	TX_DIVIDER	
	2	TX_MULTIPLIER	

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Variable Telegram Syntax

Read Variable:				
`sRN ICprepro`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICprepro	String	8	Increment preprocessing

Read Variable Response:				
`sRA ICprepro <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICprepro	String	8	Increment preprocessing
Variable Data	data	Enum8	1	

Write Variable:				
`sWN ICprepro <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICprepro	String	8	Increment preprocessing
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA ICprepro`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICprepro	String	8	Increment preprocessing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ICprepro[ETX]`
Read Variable Response:	`[STX]sRA ICprepro 0[ETX]`
Write Variable:	`[STX]sWN ICprepro 0[ETX]`
Write Variable Response:	`[STX]sWA ICprepro[ETX]`

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2.24.4.6. Variable: IncrDivider

The following section contains a detailed description of the variable IncrDivider.

Variable Overview

Variable Name	Description
IncrDivider	Increment divider for the system increment

Communication Name	ICdiv
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1056
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..1000
Initialisation	2
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN ICdiv
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICdiv	String	5	Increment divider for the system increment

Read Variable Response:

```
sRA ICdiv <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICdiv	String	5	Increment divider for the system increment
Variable Data	data	UInt	2	

Write Variable:

```
sWN ICdiv <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICdiv	String	5	Increment divider for the system increment
Variable Data	data	UInt	2	

Write Variable Response:

```
sWA ICdiv
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICdiv	String	5	Increment divider for the system increment

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ICdiv[ETX]`
Read Variable Response:	`[STX]sRA ICdiv 2[ETX]`
Write Variable:	`[STX]sWN ICdiv 2[ETX]`
Write Variable Response:	`[STX]sWA ICdiv[ETX]`

2.24.4.7. Variable: IncrMultiplier

The following section contains a detailed description of the variable IncrMultiplier.

Variable Overview

Variable Name	Description
IncrMultiplier	Increment multiplier for the system increment

Communication Name	ICmul
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1057
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..3000
Initialisation	2
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN ICmul`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICmul	String	5	Increment multiplier for the system increment

Read Variable Response:				
`sRA ICmul <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICmul	String	5	Increment multiplier for the system increment
Variable Data	data	UInt	2	

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Write Variable:				
sWN ICmul <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICmul	String	5	Increment multiplier for the system increment
Variable Data	data	UInt	2	

Write Variable Response:				
sWA ICmul				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICmul	String	5	Increment multiplier for the system increment

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN ICmul[ETX]
Read Variable Response:	[STX]sRA ICmul 2[ETX]
Write Variable:	[STX]sWN ICmul 2[ETX]
Write Variable Response:	[STX]sWA ICmul[ETX]

2.24.4.8. Variable: PeriodFilter

The following section contains a detailed description of the variable PeriodFilter.

Variable Overview

Variable Name	Description
PeriodFilter	Period filter for multiplier

Communication Name	ICperfil
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1058
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	2..10
Initialisation	2
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN ICperfil`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICperfil	String	8	Period filter for multiplier

Read Variable Response:				
`sRA ICperfil <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICperfil	String	8	Period filter for multiplier
Variable Data	data	UInt	2	

Write Variable:				
`sWN ICperfil <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICperfil	String	8	Period filter for multiplier
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA ICperfil`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICperfil	String	8	Period filter for multiplier

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ICperfil[ETX]`
Read Variable Response:	`[STX]sRA ICperfil 2[ETX]`
Write Variable:	`[STX]sWN ICperfil 2[ETX]`
Write Variable Response:	`[STX]sWA ICperfil[ETX]`

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2.24.4.9. Variable: IncrDistribute

The following section contains a detailed description of the variable IncrDistribute.

Variable Overview

Variable Name	Description
IncrDistribute	Increment distribution on CAN-Bus

Communication Name	ICincdist
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1059
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_DISABLED	
	Value	Name	Description
	0	TX_DISABLED	
	1	TX_CAN_1	

Variable Telegram Syntax

Read Variable:				
`sRN ICincdist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	ICincdist	String	9	Increment distribution on CAN-Bus

Read Variable Response:				
`sRA ICincdist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	ICincdist	String	9	Increment distribution on CAN-Bus
Variable Data	data	Enum8	1	

Write Variable:				
`sWN ICincdist <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	ICincdist	String	9	Increment distribution on CAN-Bus
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA ICincdist`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	ICincdist	String	9	Increment distribution on CAN-Bus

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN ICincdist[ETX]`
Read Variable Response:	`[STX]sRA ICincdist 0[ETX]`
Write Variable:	`[STX]sWN ICincdist 0[ETX]`
Write Variable Response:	`[STX]sWA ICincdist[ETX]`

2.24.4.10. Method: SetIncrement

The following section contains a detailed description of the method SetIncrement.

Method Overview

Method Name	Description
SetIncrement	sets the increment value

Communication Name	mSetInc
Sopas Index	140
Invocation Access	Always

Parameters		
IncVal		
	UDInt	
	Value Range	0..4294967295
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

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Method Telegram Syntax

Method Invocation:				
`sMN mSetInc <IncVal>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mSetInc	String	7	sets the increment value
Parameter 1	IncVal	UDInt	4	

Method Return Value:				
`sAN mSetInc <Success>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mSetInc	String	7	sets the increment value
Return Value 1	Success	Bool	1	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mSetInc 0[ETX]`
Method Return Value:	`[STX]sAN mSetInc 0[ETX]`

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2.24.5. Group: TriggerControl

2.24.5.1. Variable: TrigStartCondition

The following section contains a detailed description of the variable TrigStartCondition.

Variable Overview

Variable Name	Description
TrigStartCondition	Start condition of object trigger

Communication Name	TCStartCond
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1060
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_SENSOR1	
	1	TX_SENSOR2	
	2	TX_EXT_INPUT1	
	3	TX_EXT_INPUT2	
	4	TX_COMMAND	
	5	TX_AUTOCYCLE	
	6	TX_CAN_1	
	7	TX_USERDEF_CMD	
	8	TX_CDF600_FIELDBUS	
	9	TX_FREE_RUNNING	

Variable Telegram Syntax

Read Variable:

```
sRN TCStartCond
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStartCond	String	11	Start condition of object trigger

Read Variable Response:

```
sRA TCStartCond <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStartCond	String	11	Start condition of object trigger
Variable Data	data	Enum8	1	

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Write Variable:				
`sWN TCStartCond <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStartCond	String	11	Start condition of object trigger
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA TCStartCond`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStartCond	String	11	Start condition of object trigger

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStartCond[ETX]`
Read Variable Response:	`[STX]sRA TCStartCond 0[ETX]`
Write Variable:	`[STX]sWN TCStartCond 0[ETX]`
Write Variable Response:	`[STX]sWA TCStartCond[ETX]`

2.24.5.2. Variable: TrigStopCondition1

The following section contains a detailed description of the variable TrigStopCondition1.

Variable Overview

Variable Name	Description
TrigStopCondition1	Stop condition 1 of object trigger

Communication Name	TCStopCond1
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1061
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

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Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_REL_2_START	
	2	TX_SENSOR1	
	3	TX_SENSOR2	
	4	TX_EXT_INPUT1	
	5	TX_EXT_INPUT2	
	6	TX_COMMAND	
	7	TX_TIMER_TRACK	
	8	TX_GOOD_READ	
	9	TX_USERDEF_CMD	

Variable Telegram Syntax

Read Variable:				
`sRN TCStopCond1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopCond1	String	11	Stop condition 1 of object trigger

Read Variable Response:				
`sRA TCStopCond1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopCond1	String	11	Stop condition 1 of object trigger
Variable Data	data	Enum8	1	

Write Variable:				
`sWN TCStopCond1 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopCond1	String	11	Stop condition 1 of object trigger
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA TCStopCond1`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopCond1	String	11	Stop condition 1 of object trigger

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStopCond1[ETX]`
Read Variable Response:	`[STX]sRA TCStopCond1 1[ETX]`
Write Variable:	`[STX]sWN TCStopCond1 1[ETX]`
Write Variable Response:	`[STX]sWA TCStopCond1[ETX]`

2.24.5.3. Variable: TrigStopCondition2

The following section contains a detailed description of the variable TrigStopCondition2.

Variable Overview

Variable Name	Description
TrigStopCondition2	Stop condition 1 of object trigger

Communication Name	TCStopCond2
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1062
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_REL_2_START	
	2	TX_SENSOR1	
	3	TX_SENSOR2	
	4	TX_EXT_INPUT1	
	5	TX_EXT_INPUT2	
	6	TX_COMMAND	
	7	TX_TIMER_TRACK	
	8	TX_GOOD_READ	
	9	TX_USERDEF_CMD	

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Variable Telegram Syntax

Read Variable:				
`sRN TCStopCond2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopCond2	String	11	Stop condition 1 of object trigger

Read Variable Response:				
`sRA TCStopCond2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopCond2	String	11	Stop condition 1 of object trigger
Variable Data	data	Enum8	1	

Write Variable:				
`sWN TCStopCond2 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopCond2	String	11	Stop condition 1 of object trigger
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA TCStopCond2`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopCond2	String	11	Stop condition 1 of object trigger

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStopCond2[ETX]`
Read Variable Response:	`[STX]sRA TCStopCond2 0[ETX]`
Write Variable:	`[STX]sWN TCStopCond2 0[ETX]`
Write Variable Response:	`[STX]sWA TCStopCond2[ETX]`

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2.24.5.4. Variable: TrigStopCondition3

The following section contains a detailed description of the variable TrigStopCondition3.

Variable Overview

Variable Name	Description
TrigStopCondition3	Stop condition 1 of object trigger

Communication Name	TCStopCond3
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1063
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_NOT_DEFINED	
	1	TX_REL_2_START	
	2	TX_SENSOR1	
	3	TX_SENSOR2	
	4	TX_EXT_INPUT1	
	5	TX_EXT_INPUT2	
	6	TX_COMMAND	
	7	TX_TIMER_TRACK	
	8	TX_GOOD_READ	
	9	TX_USERDEF_CMD	

Variable Telegram Syntax

Read Variable:

```
sRN TCStopCond3
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopCond3	String	11	Stop condition 1 of object trigger

Read Variable Response:

```
sRA TCStopCond3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopCond3	String	11	Stop condition 1 of object trigger
Variable Data	data	Enum8	1	

Write Variable:

```
sWN TCStopCond3 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopCond3	String	11	Stop condition 1 of object trigger

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Write Variable:				
sWN TCStopCond3 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA TCStopCond3				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopCond3	String	11	Stop condition 1 of object trigger

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCStopCond3[ETX]
Read Variable Response:	[STX]sRA TCStopCond3 0[ETX]
Write Variable:	[STX]sWN TCStopCond3 0[ETX]
Write Variable Response:	[STX]sWA TCStopCond3[ETX]

2.24.5.5. Variable: TrigStopCondition1Ext

The following section contains a detailed description of the variable TrigStopCondition1Ext.

Variable Overview

Variable Name	Description
TrigStopCondition1Ext	Stop condition 1 of trigger Evcnd extension

Communication Name	TCStopCond1Ext
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1064
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN TCStopCond1Ext`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopCond1Ext	String	14	Stop condition 1 of trigger Evcnd extension

Read Variable Response:				
`sRA TCStopCond1Ext <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopCond1Ext	String	14	Stop condition 1 of trigger Evcnd extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN TCStopCond1Ext <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopCond1Ext	String	14	Stop condition 1 of trigger Evcnd extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA TCStopCond1Ext`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopCond1Ext	String	14	Stop condition 1 of trigger Evcnd extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStopCond1Ext[ETX]`
Read Variable Response:	`[STX]sRA TCStopCond1Ext 0 0[ETX]`
Write Variable:	`[STX]sWN TCStopCond1Ext 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA TCStopCond1Ext[ETX]`

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2.24.5.6. Variable: TrigStopCondition2Ext

The following section contains a detailed description of the variable TrigStopCondition2Ext.

Variable Overview

Variable Name	Description
TrigStopCondition2Ext	Stop condition 2 of trigger Evcnd extension

Communication Name	TCStopCond2Ext
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1065
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN TCStopCond2Ext
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopCond2Ext	String	14	Stop condition 2 of trigger Evcnd extension

Read Variable Response:

```
sRA TCStopCond2Ext <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopCond2Ext	String	14	Stop condition 2 of trigger Evcnd extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:

```
sWN TCStopCond2Ext <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopCond2Ext	String	14	Stop condition 2 of trigger Evcnd extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

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Write Variable Response:				
sWA TCStopCond2Ext				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopCond2Ext	String	14	Stop condition 2 of trigger Evcnd extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCStopCond2Ext[ETX]
Read Variable Response:	[STX]sRA TCStopCond2Ext 0 0[ETX]
Write Variable:	[STX]sWN TCStopCond2Ext 0 +0 0[ETX]
Write Variable Response:	[STX]sWA TCStopCond2Ext[ETX]

2.24.5.7. Variable: TrigStopCondition3Ext

The following section contains a detailed description of the variable TrigStopCondition3Ext.

Variable Overview

Variable Name	Description
TrigStopCondition3Ext	Stop condition 3 of trigger Evcnd extension

Communication Name	TCStopCond3Ext
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1066
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN TCStopCond3Ext`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCStopCond3Ext	String	14	Stop condition 3 of trigger Evcnd extension

Read Variable Response:				
`sRA TCStopCond3Ext <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCStopCond3Ext	String	14	Stop condition 3 of trigger Evcnd extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN TCStopCond3Ext <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCStopCond3Ext	String	14	Stop condition 3 of trigger Evcnd extension
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA TCStopCond3Ext`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCStopCond3Ext	String	14	Stop condition 3 of trigger Evcnd extension

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCStopCond3Ext[ETX]`
Read Variable Response:	`[STX]sRA TCStopCond3Ext 0 0[ETX]`
Write Variable:	`[STX]sWN TCStopCond3Ext 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA TCStopCond3Ext[ETX]`

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2.24.5.8. Variable: TriggerEcho

The following section contains a detailed description of the variable TriggerEcho.

Variable Overview

Variable Name	Description
TriggerEcho	Echo on/off for 21/22 triggers and user def. trigger cmd

Communication Name	SnglChrTrgEcho
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1067
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN SnglChrTrgEcho
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	SnglChrTrgEcho	String	14	Echo on/off for 21/22 triggers and user def. trigger cmd

Read Variable Response:

```
sRA SnglChrTrgEcho <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	SnglChrTrgEcho	String	14	Echo on/off for 21/22 triggers and user def. trigger cmd
Variable Data	data	Bool	1	

Write Variable:

```
sWN SnglChrTrgEcho <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	SnglChrTrgEcho	String	14	Echo on/off for 21/22 triggers and user def. trigger cmd
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA SnglChrTrgEcho
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA SnglChrTrgEcho				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	SnglChrTrgEcho	String	14	Echo on/off for 21/22 triggers and user def. trigger cmd

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN SnglChrTrgEcho[ETX]
Read Variable Response:	[STX]sRA SnglChrTrgEcho 0[ETX]
Write Variable:	[STX]sWN SnglChrTrgEcho 0[ETX]
Write Variable Response:	[STX]sWA SnglChrTrgEcho[ETX]

2.24.5.9. Variable: UserDefTriggerStartCmd

The following section contains a detailed description of the variable UserDefTriggerStartCmd.

Variable Overview

Variable Name	Description
UserDefTriggerStartCmd	User defined trigger start command string

Communication Name	UsrDfCmdTrgStart
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1068
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..26
Initialisation	K

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Variable Telegram Syntax

Read Variable:				
`sRN UsrDfCmdTrgStart`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	UsrDfCmdTrgStart	String	16	User defined trigger start command string

Read Variable Response:				
`sRA UsrDfCmdTrgStart <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	UsrDfCmdTrgStart	String	16	User defined trigger start command string
Variable Data	data	FlexString	26	

Write Variable:				
`sWN UsrDfCmdTrgStart <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	UsrDfCmdTrgStart	String	16	User defined trigger start command string
Variable Data	data	FlexString	26	

Write Variable Response:				
`sWA UsrDfCmdTrgStart`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	UsrDfCmdTrgStart	String	16	User defined trigger start command string

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN UsrDfCmdTrgStart[ETX]`
Read Variable Response:	`[STX]sRA UsrDfCmdTrgStart 1 K[ETX]`
Write Variable:	`[STX]sWN UsrDfCmdTrgStart +1 K[ETX]`
Write Variable Response:	`[STX]sWA UsrDfCmdTrgStart[ETX]`

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2.24.5.10. Variable: UserDefTriggerStopCmd

The following section contains a detailed description of the variable UserDefTriggerStopCmd.

Variable Overview

Variable Name	Description
UserDefTriggerStopCmd	User defined trigger stop command string

Communication Name	UsrDfCmdTrgStop
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1069
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..26
Initialisation	I

Variable Telegram Syntax

Read Variable:

```
sRN UsrDfCmdTrgStop
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	UsrDfCmdTrgStop	String	15	User defined trigger stop command string

Read Variable Response:

```
sRA UsrDfCmdTrgStop <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	UsrDfCmdTrgStop	String	15	User defined trigger stop command string
Variable Data	data	FlexString	26	

Write Variable:

```
sWN UsrDfCmdTrgStop <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	UsrDfCmdTrgStop	String	15	User defined trigger stop command string
Variable Data	data	FlexString	26	

Write Variable Response:

```
sWA UsrDfCmdTrgStop
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	UsrDfCmdTrgStop	String	15	User defined trigger stop command string

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN UsrDfCmdTrgStop[ETX]`
Read Variable Response:	`[STX]sRA UsrDfCmdTrgStop 1 I[ETX]`
Write Variable:	`[STX]sWN UsrDfCmdTrgStop +1 I[ETX]`
Write Variable Response:	`[STX]sWA UsrDfCmdTrgStop[ETX]`

2.24.5.11. Variable: SystemGateStartDelayTrack

The following section contains a detailed description of the variable SystemGateStartDelayTrack.

Variable Overview

Variable Name	Description
SystemGateStartDelayTrack	Start delay value if track controlled

Communication Name	TCSGStartDelTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1072
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..50000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN TCSGStartDelTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCSGStartDelTrk	String	15	Start delay value if track controlled

Read Variable Response:				
`sRA TCSGStartDelTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCSGStartDelTrk	String	15	Start delay value if track controlled
Variable Data	data	UInt	2	

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Write Variable:				
sWN TCSGStartDelTrk <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCSGStartDelTrk	String	15	Start delay value if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
sWA TCSGStartDelTrk				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCSGStartDelTrk	String	15	Start delay value if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TCSGStartDelTrk[ETX]
Read Variable Response:	[STX]sRA TCSGStartDelTrk 0[ETX]
Write Variable:	[STX]sWN TCSGStartDelTrk 0[ETX]
Write Variable Response:	[STX]sWA TCSGStartDelTrk[ETX]

2.24.5.12. Variable: SystemGateStopDelayTrack

The following section contains a detailed description of the variable SystemGateStopDelayTrack.

Variable Overview

Variable Name	Description
SystemGateStopDelayTrack	Stop delay value if track controlled

Communication Name	TCSGStopDelTrk
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1073
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..50000
Initialisation	0
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN TCSGStopDelTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TCSGStopDelTrk	String	14	Stop delay value if track controlled

Read Variable Response:				
`sRA TCSGStopDelTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TCSGStopDelTrk	String	14	Stop delay value if track controlled
Variable Data	data	UInt	2	

Write Variable:				
`sWN TCSGStopDelTrk <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TCSGStopDelTrk	String	14	Stop delay value if track controlled
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA TCSGStopDelTrk`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TCSGStopDelTrk	String	14	Stop delay value if track controlled

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TCSGStopDelTrk[ETX]`
Read Variable Response:	`[STX]sRA TCSGStopDelTrk 0[ETX]`
Write Variable:	`[STX]sWN TCSGStopDelTrk 0[ETX]`
Write Variable Response:	`[STX]sWA TCSGStopDelTrk[ETX]`

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2.24.5.13. Method: DoReadingGateDiag

The following section contains a detailed description of the method DoReadingGateDiag.

Method Overview

Method Name	Description
DoReadingGateDiag	executes a reading gate for the given number of scans and evaluates the result afterwards (comparable to obsolete command 2TT)

Communication Name	mTCdogatediag
Sopas Index	141
Invocation Access	Always

Parameters		
NbrScans		
	UDInt	
	Value Range	1..100000
	Initialisation	100
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mTCdogatediag <NbrScans>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCdogatediag	String	13	executes a reading gate for the given number of scans and evaluates the result afterwards (comparable to obsolete command 2TT)
Parameter 1	NbrScans	UDInt	4	

Method Return Value:

```
sAN mTCdogatediag
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCdogatediag	String	13	executes a reading gate for the given number of scans and evaluates the result afterwards (comparable to obsolete command 2TT)

Method Telegram Examples

Example: Default Values

Method telegram examples with parameter data and return value data set to default values.

Method Invocation:	`[STX]sMN mTCdogatediag 64[ETX]`
Method Return Value:	`[STX]sAN mTCdogatediag[ETX]`

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2.24.5.14. Method: StartPercentageEvaluation

The following section contains a detailed description of the method StartPercentageEvaluation.

Method Overview

Method Name	Description
StartPercentageEvaluation	starts the percentage evaluation

Communication Name	mTCstrtperc
Sopas Index	142
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mTCstrtperc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCstrtperc	String	11	starts the percentage evaluation

Method Return Value:				
`sAN mTCstrtperc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCstrtperc	String	11	starts the percentage evaluation

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mTCstrtperc[ETX]`
Method Return Value:	`[STX]sAN mTCstrtperc[ETX]`

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2.24.5.15. Method: StopPercentageEvaluation

The following section contains a detailed description of the method StopPercentageEvaluation.

Method Overview

Method Name	Description
StopPercentageEvaluation	stops the percentage evaluation

Communication Name	mTCstpperc
Sopas Index	143
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mTCstpperc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTCstpperc	String	10	stops the percentage evaluation

Method Return Value:				
`sAN mTCstpperc`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTCstpperc	String	10	stops the percentage evaluation

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mTCstpperc[ETX]`
Method Return Value:	`[STX]sAN mTCstpperc[ETX]`

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2.24.6. Group: CodePostProcessing

2.24.6.1. Variable: EnableScriptCodePostProc

The following section contains a detailed description of the variable EnableScriptCodePostProc.

Variable Overview

Variable Name
EnableScriptCodePostProc

Communication Name	CPProcEnaSc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1074
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN CPProcEnaSc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	CPProcEnaSc	String	11	

Read Variable Response:

```
sRA CPProcEnaSc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	CPProcEnaSc	String	11	
Variable Data	data	Bool	1	

Write Variable:

```
sWN CPProcEnaSc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	CPProcEnaSc	String	11	
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA CPProcEnaSc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA CPProcEnaSc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	CPProcEnaSc	String	11	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN CPProcEnaSc[ETX]
Read Variable Response:	[STX]sRA CPProcEnaSc 0[ETX]
Write Variable:	[STX]sWN CPProcEnaSc 0[ETX]
Write Variable Response:	[STX]sWA CPProcEnaSc[ETX]

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2.24.7. Group: Decoding1DExtensions

2.24.7.1. Variable: OptimizedForPicketFenceReading

The following section contains a detailed description of the variable OptimizedForPicketFenceReading.

Variable Overview

Variable Name
OptimizedForPicketFenceReading

Communication Name	D1DOptPckFnc
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1076
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN D1DOptPckFnc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	D1DOptPckFnc	String	12	

Read Variable Response:

```
sRA D1DOptPckFnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	D1DOptPckFnc	String	12	
Variable Data	data	Bool	1	

Write Variable:

```
sWN D1DOptPckFnc <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	D1DOptPckFnc	String	12	
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA D1DOptPckFnc
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA D1DOptPckFnc				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	D1DOptPckFnc	String	12	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN D1DOptPckFnc[ETX]
Read Variable Response:	[STX]sRA D1DOptPckFnc 0[ETX]
Write Variable:	[STX]sWN D1DOptPckFnc 0[ETX]
Write Variable Response:	[STX]sWA D1DOptPckFnc[ETX]

2.24.7.2. Variable: ExtendedSegmentation

The following section contains a detailed description of the variable ExtendedSegmentation.

Variable Overview

Variable Name	Description
ExtendedSegmentation	Extended segmentation for decoders

Communication Name	D1DExtSeg
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1077
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN D1DExtSeg`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	D1DExtSeg	String	9	Extended segmentation for decoders

Read Variable Response:				
`sRA D1DExtSeg <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	D1DExtSeg	String	9	Extended segmentation for decoders
Variable Data	data	Bool	1	

Write Variable:				
`sWN D1DExtSeg <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	D1DExtSeg	String	9	Extended segmentation for decoders
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA D1DExtSeg`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	D1DExtSeg	String	9	Extended segmentation for decoders

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN D1DExtSeg[ETX]`
Read Variable Response:	`[STX]sRA D1DExtSeg 0[ETX]`
Write Variable:	`[STX]sWN D1DExtSeg 0[ETX]`
Write Variable Response:	`[STX]sWA D1DExtSeg[ETX]`

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2.24.8. Group: ScanView65x

2.24.8.1. Variable: ScanVWAOIDistance

The following section contains a detailed description of the variable ScanVWAOIDistance.

Variable Overview

Variable Name	Description
ScanVWAOIDistance	Distance at angle-of-interest, just for displaying purposes

Communication Name	DMAOIDIst
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1102
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN DMAOIDIst
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DMAOIDIst	String	9	Distance at angle-of-interest, just for displaying purposes

Read Variable Response:

```
sRA DMAOIDIst <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DMAOIDIst	String	9	Distance at angle-of-interest, just for displaying purposes
Variable Data	data	UInt	2	

Write Variable:

```
sWN DMAOIDIst <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DMAOIDIst	String	9	Distance at angle-of-interest, just for displaying purposes
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA DMAOIDIst				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DMAOIDIst	String	9	Distance at angle-of-interest, just for displaying purposes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN DMAOIDIst[ETX]
Read Variable Response:	[STX]sRA DMAOIDIst 0[ETX]
Write Variable:	[STX]sWN DMAOIDIst 0[ETX]
Write Variable Response:	[STX]sWA DMAOIDIst[ETX]

2.24.8.2. Variable: ScanVWAOI0RSSI

The following section contains a detailed description of the variable ScanVWAOI0RSSI.

Variable Overview

Variable Name	Description
ScanVWAOI0RSSI	RSSI at angle-of-interest, just for displaying purposes

Communication Name	DMAOIRSSI
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1103
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN DMAOIRSSI`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	DMAOIRSSI	String	9	RSSI at angle-of-interest, just for displaying purposes

Read Variable Response:				
`sRA DMAOIRSSI <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	DMAOIRSSI	String	9	RSSI at angle-of-interest, just for displaying purposes
Variable Data	data	UInt	2	

Write Variable:				
`sWN DMAOIRSSI <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	DMAOIRSSI	String	9	RSSI at angle-of-interest, just for displaying purposes
Variable Data	data	UInt	2	

Write Variable Response:				
`sWA DMAOIRSSI`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	DMAOIRSSI	String	9	RSSI at angle-of-interest, just for displaying purposes

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN DMAOIRSSI[ETX]`
Read Variable Response:	`[STX]sRA DMAOIRSSI 0[ETX]`
Write Variable:	`[STX]sWN DMAOIRSSI 0[ETX]`
Write Variable Response:	`[STX]sWA DMAOIRSSI[ETX]`

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2.24.9. Group: DistMeas

2.24.9.1. Variable: uiNumOfParamFields

The following section contains a detailed description of the variable uiNumOfParamFields.

Variable Overview

Variable Name	Description
uiNumOfParamFields	number of fields which are parametrized

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1139
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

UInt	
Value Range	0..1
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN uiNumOfParamFields
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	uiNumOfParamFields	String	18	number of fields which are parametrized

Read Variable Response:

```
sRA uiNumOfParamFields <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	uiNumOfParamFields	String	18	number of fields which are parametrized
Variable Data	data	UInt	2	

Write Variable:

```
sWN uiNumOfParamFields <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	uiNumOfParamFields	String	18	number of fields which are parametrized
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA uiNumOfParamFields				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	uiNumOfParamFields	String	18	number of fields which are parametrized

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN uiNumOfParamFields[ETX]
Read Variable Response:	[STX]sRA uiNumOfParamFields 1[ETX]
Write Variable:	[STX]sWN uiNumOfParamFields 1[ETX]
Write Variable Response:	[STX]sWA uiNumOfParamFields[ETX]

2.24.9.2. Variable: LFETeachInDiffToPlane

The following section contains a detailed description of the variable LFETeachInDiffToPlane.

Variable Overview

Variable Name	Description
LFETeachInDiffToPlane	Difference to conv. belt at teach-in

Communication Name	LFEdtp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1140
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

DInt	
Value Range	0..2147483647
Initialisation	50
Physical Unit	mm
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN LFEdtp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	LFEdtp	String	6	Difference to conv. belt at teach-in

Read Variable Response:				
`sRA LFEdtp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	LFEdtp	String	6	Difference to conv. belt at teach-in
Variable Data	data	DInt	4	

Write Variable:				
`sWN LFEdtp <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	LFEdtp	String	6	Difference to conv. belt at teach-in
Variable Data	data	DInt	4	

Write Variable Response:				
`sWA LFEdtp`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	LFEdtp	String	6	Difference to conv. belt at teach-in

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN LFEdtp[ETX]`
Read Variable Response:	`[STX]sRA LFEdtp 32[ETX]`
Write Variable:	`[STX]sWN LFEdtp +50[ETX]`
Write Variable Response:	`[STX]sWA LFEdtp[ETX]`

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2.24.9.3. Method: LFEstartTeachInFieldContour

The following section contains a detailed description of the method LFEstartTeachInFieldContour.

Method Overview

Method Name	Description
LFEstartTeachInFieldContour	TeachIn function field to contour

Communication Name	mLFEstartTIFieldContour
Sopas Index	147
Invocation Access	AuthorizedClient

Return Values		
uiRet		0 method successful, otherwise error
	UDInt	
	Value Range	0..4294967295
	Initialisation	0
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:				
`sMN mLFEstartTIFieldContour`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mLFEstartTIFieldContour	String	23	TeachIn function field to contour

Method Return Value:				
`sAN mLFEstartTIFieldContour <uiRet>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mLFEstartTIFieldContour	String	23	TeachIn function field to contour
Return Value 1	uiRet	UDInt	4	0 method successful, otherwise error

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mLFEstartTIFieldContour[ETX]`
Method Return Value:	`[STX]sAN mLFEstartTIFieldContour 0[ETX]`

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2.24.10. Group: MatchTeachIn

2.24.10.1. Variable: MTIGeneralSettings

The following section contains a detailed description of the variable MTIGeneralSettings.

Variable Overview

Variable Name	Description
MTIGeneralSettings	General settings for both teach-in channels

Communication Name	MTIGnrlStt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1142
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
codeMode			
	Enum8		
	Default Value	1	
	Value	Name	Description
	0	TX_ALL_CODES	
	1	TX_SELECTED_CODES	
	2	TX_ONLY_PHARMA_CODE	
codeConfigHandling			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_DONT_CHANGE_CODE_CONFIG	
	1	TX_CHANGE_CODE_CONFIG_TO_LAST_TEACHED_CODE	
	2	TX_WIDEN_CODE_CONFIG_ON_LAST_TEACHED_CODE	
savePermanent			
	Bool		
	Value Range	False, True	
	Initialisation	False	
triggerType			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_EXTRA_TEACH_TRIGGER	
	1	TX_STD_TRIGGER_NEEDED	
hmiAllowed			
	Bool		
	Value Range	False, True	
	Initialisation	True	

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Variable Telegram Syntax

Read Variable:				
`sRN MTIGnrlStt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIGnrlStt	String	10	General settings for both teach-in channels

Read Variable Response:				
`sRA MTIGnrlStt <codeMode> <codeConfigHandling> <savePermanent> <triggerType> <hmiAllowed>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIGnrlStt	String	10	General settings for both teach-in channels
Variable Data 1	codeMode	Enum8	1	
Variable Data 2	codeConfigHandling	Enum8	1	
Variable Data 3	savePermanent	Bool	1	
Variable Data 4	triggerType	Enum8	1	
Variable Data 5	hmiAllowed	Bool	1	

Write Variable:				
`sWN MTIGnrlStt <codeMode> <codeConfigHandling> <savePermanent> <triggerType> <hmiAllowed>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIGnrlStt	String	10	General settings for both teach-in channels
Variable Data 1	codeMode	Enum8	1	
Variable Data 2	codeConfigHandling	Enum8	1	
Variable Data 3	savePermanent	Bool	1	
Variable Data 4	triggerType	Enum8	1	
Variable Data 5	hmiAllowed	Bool	1	

Write Variable Response:				
`sWA MTIGnrlStt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	MTIGnrlStt	String	10	General settings for both teach-in channels

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN MTIGnrlStt[ETX]`
Read Variable Response:	`[STX]sRA MTIGnrlStt 1 0 0 0 1[ETX]`
Write Variable:	`[STX]sWN MTIGnrlStt 1 0 0 0 1[ETX]`
Write Variable Response:	`[STX]sWA MTIGnrlStt[ETX]`

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2.24.10.2. Variable: MTIChannelSettings1

The following section contains a detailed description of the variable MTIChannelSettings1.

Variable Overview

Variable Name	Description
MTIChannelSettings1	Config for channel1

Communication Name	MTIChnl1Stt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1143
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
triggerSrc			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_INACTIVE	
	1	TX_SENS1	
	2	TX_SENS2	
	3	TX_EXT_SENS1	
	4	TX_EXT_SENS2	
	5	TX_CDF600_FIELDBUS	
teachContent			
	Bool		
	Value Range	False, True	
	Initialisation	True	
teachID			
	Bool		
	Value Range	False, True	
	Initialisation	True	
teachLength			
	Bool		
	Value Range	False, True	
	Initialisation	True	
negativeMatch			
	Bool		
	Value Range	False, True	
	Initialisation	False	

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Variable Telegram Syntax

Read Variable:				
`sRN MTIChnl1Stt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIChnl1Stt	String	11	Config for channel1

Read Variable Response:				
`sRA MTIChnl1Stt <triggerSrc> <teachContent> <teachID> <teachLength> <negativeMatch>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIChnl1Stt	String	11	Config for channel1
Variable Data 1	triggerSrc	Enum8	1	
Variable Data 2	teachContent	Bool	1	
Variable Data 3	teachID	Bool	1	
Variable Data 4	teachLength	Bool	1	
Variable Data 5	negativeMatch	Bool	1	

Write Variable:				
`sWN MTIChnl1Stt <triggerSrc> <teachContent> <teachID> <teachLength> <negativeMatch>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIChnl1Stt	String	11	Config for channel1
Variable Data 1	triggerSrc	Enum8	1	
Variable Data 2	teachContent	Bool	1	
Variable Data 3	teachID	Bool	1	
Variable Data 4	teachLength	Bool	1	
Variable Data 5	negativeMatch	Bool	1	

Write Variable Response:				
`sWA MTIChnl1Stt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	MTIChnl1Stt	String	11	Config for channel1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN MTIChnl1Stt[ETX]`
Read Variable Response:	`[STX]sRA MTIChnl1Stt 0 1 1 1 0[ETX]`
Write Variable:	`[STX]sWN MTIChnl1Stt 0 1 1 1 0[ETX]`
Write Variable Response:	`[STX]sWA MTIChnl1Stt[ETX]`

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2.24.10.3. Variable: MTIChannelStopSettings1

The following section contains a detailed description of the variable MTIChannelStopSettings1.

Variable Overview

Variable Name	Description
MTIChannelStopSettings1	Stopping settings for dyn. teach-in

Communication Name	MTIChnl1Stp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1144
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_STOPPED_BY_TRIGGER_SRC	
	Value	Name	Description
	0	TX_STOPPED_BY_TRIGGER_SRC	
	1	TX_STOPPED_BY_OBJ_TRIG	
	2	TX_STOPPED_BY_VALID_TEACHED_CODE	

Variable Telegram Syntax

Read Variable:

```
sRN MTIChnl1Stp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIChnl1Stp	String	11	Stopping settings for dyn. teach-in

Read Variable Response:

```
sRA MTIChnl1Stp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIChnl1Stp	String	11	Stopping settings for dyn. teach-in
Variable Data	data	Enum8	1	

Write Variable:

```
sWN MTIChnl1Stp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIChnl1Stp	String	11	Stopping settings for dyn. teach-in
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA MTIChnl1Stp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA MTIChnl1Stp				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	MTIChnl1Stp	String	11	Stopping settings for dyn. teach-in

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN MTIChnl1Stp[ETX]
Read Variable Response:	[STX]sRA MTIChnl1Stp 0[ETX]
Write Variable:	[STX]sWN MTIChnl1Stp 0[ETX]
Write Variable Response:	[STX]sWA MTIChnl1Stp[ETX]

2.24.10.4. Variable: MTIChannel1Condition

The following section contains a detailed description of the variable MTIChannel1Condition.

Variable Overview

Variable Name	Description
MTIChannel1Condition	Dest. condition for teach-in 1

Communication Name	MTIChnl1Cnd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1145
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..18
Initialisation	TeachIn1

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Variable Telegram Syntax

Read Variable:				
`sRN MTIChnl1Cnd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIChnl1Cnd	String	11	Dest. condition for teach-in 1

Read Variable Response:				
`sRA MTIChnl1Cnd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIChnl1Cnd	String	11	Dest. condition for teach-in 1
Variable Data	data	FlexString	18	

Write Variable:				
`sWN MTIChnl1Cnd <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIChnl1Cnd	String	11	Dest. condition for teach-in 1
Variable Data	data	FlexString	18	

Write Variable Response:				
`sWA MTIChnl1Cnd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	MTIChnl1Cnd	String	11	Dest. condition for teach-in 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN MTIChnl1Cnd[ETX]`
Read Variable Response:	`[STX]sRA MTIChnl1Cnd 8 TeachIn1[ETX]`
Write Variable:	`[STX]sWN MTIChnl1Cnd +8 TeachIn1[ETX]`
Write Variable Response:	`[STX]sWA MTIChnl1Cnd[ETX]`

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2.24.10.5. Variable: MTIChannelSettings2

The following section contains a detailed description of the variable MTIChannelSettings2.

Variable Overview

Variable Name	Description
MTIChannelSettings2	Config for channel2

Communication Name	MTIChnl2Stt
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1146
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
triggerSrc			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_INACTIVE	
	1	TX_SENS1	
	2	TX_SENS2	
	3	TX_EXT_SENS1	
	4	TX_EXT_SENS2	
	5	TX_CDF600_FIELDBUS	
teachContent			
	Bool		
	Value Range	False, True	
	Initialisation	True	
teachID			
	Bool		
	Value Range	False, True	
	Initialisation	True	
teachLength			
	Bool		
	Value Range	False, True	
	Initialisation	True	
negativeMatch			
	Bool		
	Value Range	False, True	
	Initialisation	False	

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Variable Telegram Syntax

Read Variable:				
`sRN MTIChnl2Stt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIChnl2Stt	String	11	Config for channel2

Read Variable Response:				
`sRA MTIChnl2Stt <triggerSrc> <teachContent> <teachID> <teachLength> <negativeMatch>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIChnl2Stt	String	11	Config for channel2
Variable Data 1	triggerSrc	Enum8	1	
Variable Data 2	teachContent	Bool	1	
Variable Data 3	teachID	Bool	1	
Variable Data 4	teachLength	Bool	1	
Variable Data 5	negativeMatch	Bool	1	

Write Variable:				
`sWN MTIChnl2Stt <triggerSrc> <teachContent> <teachID> <teachLength> <negativeMatch>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIChnl2Stt	String	11	Config for channel2
Variable Data 1	triggerSrc	Enum8	1	
Variable Data 2	teachContent	Bool	1	
Variable Data 3	teachID	Bool	1	
Variable Data 4	teachLength	Bool	1	
Variable Data 5	negativeMatch	Bool	1	

Write Variable Response:				
`sWA MTIChnl2Stt`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	MTIChnl2Stt	String	11	Config for channel2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN MTIChnl2Stt[ETX]`
Read Variable Response:	`[STX]sRA MTIChnl2Stt 0 1 1 1 0[ETX]`
Write Variable:	`[STX]sWN MTIChnl2Stt 0 1 1 1 0[ETX]`
Write Variable Response:	`[STX]sWA MTIChnl2Stt[ETX]`

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2.24.10.6. Variable: MTIChannelStopSettings2

The following section contains a detailed description of the variable MTIChannelStopSettings2.

Variable Overview

Variable Name	Description
MTIChannelStopSettings2	Stopping settings for dyn. teach-in

Communication Name	MTIChnl2Stp
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1147
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_STOPPED_BY_TRIGGER_SRC	
	Value	Name	Description
	0	TX_STOPPED_BY_TRIGGER_SRC	
	1	TX_STOPPED_BY_OBJ_TRIG	

Variable Telegram Syntax

Read Variable:

```
sRN MTIChnl2Stp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIChnl2Stp	String	11	Stopping settings for dyn. teach-in

Read Variable Response:

```
sRA MTIChnl2Stp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIChnl2Stp	String	11	Stopping settings for dyn. teach-in
Variable Data	data	Enum8	1	

Write Variable:

```
sWN MTIChnl2Stp <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIChnl2Stp	String	11	Stopping settings for dyn. teach-in
Variable Data	data	Enum8	1	

Write Variable Response:

```
sWA MTIChnl2Stp
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	MTIChnl2Stp	String	11	Stopping settings for dyn. teach-in

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN MTIChnl2Stp[ETX]`
Read Variable Response:	`[STX]sRA MTIChnl2Stp 0[ETX]`
Write Variable:	`[STX]sWN MTIChnl2Stp 0[ETX]`
Write Variable Response:	`[STX]sWA MTIChnl2Stp[ETX]`

2.24.10.7. Variable: MTIChannel2Condition

The following section contains a detailed description of the variable MTIChannel2Condition.

Variable Overview

Variable Name	Description
MTIChannel2Condition	Dest. condition for teach-in 2

Communication Name	MTIChnl2Cnd
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1148
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..18
Initialisation	TeachIn2

Variable Telegram Syntax

Read Variable:

```
sRN MTIChnl2Cnd
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	MTIChnl2Cnd	String	11	Dest. condition for teach-in 2

Read Variable Response:

```
sRA MTIChnl2Cnd <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	MTIChnl2Cnd	String	11	Dest. condition for teach-in 2
Variable Data	data	FlexString	18	

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Write Variable:				
sWN MTIChnl2Cnd <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	MTIChnl2Cnd	String	11	Dest. condition for teach-in 2
Variable Data	data	FlexString	18	

Write Variable Response:				
sWA MTIChnl2Cnd				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	MTIChnl2Cnd	String	11	Dest. condition for teach-in 2

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN MTIChnl2Cnd[ETX]
Read Variable Response:	[STX]sRA MTIChnl2Cnd 8 TeachIn2[ETX]
Write Variable:	[STX]sWN MTIChnl2Cnd +8 TeachIn2[ETX]
Write Variable Response:	[STX]sWA MTIChnl2Cnd[ETX]

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2.24.11. Group: ApplicationCounters

2.24.11.1. Variable: APCCounterCondition01

The following section contains a detailed description of the variable APCCounterCondition01.

Variable Overview

Variable Name	Description
APCCounterCondition01	Enum of permanent counter 1

Communication Name	APCCC01
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1156
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC01
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC01	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC01 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC01	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC01 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC01	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC01				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC01	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC01[ETX]
Read Variable Response:	[STX]sRA APCCC01 0[ETX]
Write Variable:	[STX]sWN APCCC01 0[ETX]
Write Variable Response:	[STX]sWA APCCC01[ETX]

2.24.11.2. Variable: APCCounterConditionStruct01

The following section contains a detailed description of the variable APCCounterConditionStruct01.

Variable Overview

Variable Name	Description
APCCounterConditionStruct01	Struct of permanent counter for condition name based observing

Communication Name	APCCCS01
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1157
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS01`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS01	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS01 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS01	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS01 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS01	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS01`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS01	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS01[ETX]`
Read Variable Response:	`[STX]sRA APCCCS01 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS01 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS01[ETX]`

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2.24.11.3. Variable: APCCounterDBTagStruct01

The following section contains a detailed description of the variable APCCounterDBTagStruct01.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct01	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS01
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1158
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	True
ExtraValue	
FlexString	
Length	0..6
Initialisation	NC

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS01
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS01	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS01 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS01	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS01 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS01	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS01 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS01				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS01	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS01[ETX]
Read Variable Response:	[STX]sRA APCCDTS01 1 2 NC[ETX]
Write Variable:	[STX]sWN APCCDTS01 1 +2 NC[ETX]
Write Variable Response:	[STX]sWA APCCDTS01[ETX]

2.24.11.4. Variable: APCIsPermanent01

The following section contains a detailed description of the variable APCIsPermanent01.

Variable Overview

Variable Name	Description
APCIsPermanent01	Defines whether a counter is permanent or not

Communication Name	APCIsPerm01
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1159
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm01`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm01	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm01 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm01	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm01 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm01	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm01`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm01	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm01[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm01 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm01 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm01[ETX]`

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2.24.11.5. Variable: APCCounterCondition02

The following section contains a detailed description of the variable APCCounterCondition02.

Variable Overview

Variable Name	Description
APCCounterCondition02	Enum of permanent counter 1

Communication Name	APCCC02
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1160
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC02
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC02	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC02 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC02	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC02 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC02	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC02				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC02	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC02[ETX]
Read Variable Response:	[STX]sRA APCCC02 0[ETX]
Write Variable:	[STX]sWN APCCC02 0[ETX]
Write Variable Response:	[STX]sWA APCCC02[ETX]

2.24.11.6. Variable: APCCounterConditionStruct02

The following section contains a detailed description of the variable APCCounterConditionStruct02.

Variable Overview

Variable Name	Description
APCCounterConditionStruct02	Struct of permanent counter for condition name based observing

Communication Name	APCCCS02
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1161
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS02`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS02	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS02 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS02	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS02 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS02	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS02`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS02	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS02[ETX]`
Read Variable Response:	`[STX]sRA APCCCS02 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS02 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS02[ETX]`

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2.24.11.7. Variable: APCCounterDBTagStruct02

The following section contains a detailed description of the variable APCCounterDBTagStruct02.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct02	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS02
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1162
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	True
ExtraValue	
FlexString	
Length	0..6
Initialisation	SCGR

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS02
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS02	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS02 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS02	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS02 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS02	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS02 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS02				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS02	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS02[ETX]
Read Variable Response:	[STX]sRA APCCDTS02 1 4 SCGR[ETX]
Write Variable:	[STX]sWN APCCDTS02 1 +4 SCGR[ETX]
Write Variable Response:	[STX]sWA APCCDTS02[ETX]

2.24.11.8. Variable: APCIsPermanent02

The following section contains a detailed description of the variable APCIsPermanent02.

Variable Overview

Variable Name	Description
APCIsPermanent02	Defines whether a counter is permanent or not

Communication Name	APCIsPerm02
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1163
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm02`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm02	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm02 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm02	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm02 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm02	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm02`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm02	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm02[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm02 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm02 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm02[ETX]`

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2.24.11.9. Variable: APCCounterCondition03

The following section contains a detailed description of the variable APCCounterCondition03.

Variable Overview

Variable Name	Description
APCCounterCondition03	Enum of permanent counter 1

Communication Name	APCCC03
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1164
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC03
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC03	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC03 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC03	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC03 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC03	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC03				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC03	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC03[ETX]
Read Variable Response:	[STX]sRA APCCC03 0[ETX]
Write Variable:	[STX]sWN APCCC03 0[ETX]
Write Variable Response:	[STX]sWA APCCC03[ETX]

2.24.11.10. Variable: APCCounterConditionStruct03

The following section contains a detailed description of the variable APCCounterConditionStruct03.

Variable Overview

Variable Name	Description
APCCounterConditionStruct03	Struct of permanent counter for condition name based observing

Communication Name	APCCCS03
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1165
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS03`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS03	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS03 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS03	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS03 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS03	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS03`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS03	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS03[ETX]`
Read Variable Response:	`[STX]sRA APCCCS03 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS03 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS03[ETX]`

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2.24.11.11. Variable: APCCounterDBTagStruct03

The following section contains a detailed description of the variable APCCounterDBTagStruct03.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct03	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS03
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1166
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	True
ExtraValue	
FlexString	
Length	0..6
Initialisation	SCNR

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS03
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS03	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS03 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS03	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS03 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS03	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS03 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS03				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS03	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS03[ETX]
Read Variable Response:	[STX]sRA APCCDTS03 1 4 SCNR[ETX]
Write Variable:	[STX]sWN APCCDTS03 1 +4 SCNR[ETX]
Write Variable Response:	[STX]sWA APCCDTS03[ETX]

2.24.11.12. Variable: APCIsPermanent03

The following section contains a detailed description of the variable APCIsPermanent03.

Variable Overview

Variable Name	Description
APCIsPermanent03	Defines whether a counter is permanent or not

Communication Name	APCIsPerm03
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1167
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm03`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm03	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm03 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm03	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm03 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm03	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm03`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm03	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm03[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm03 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm03 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm03[ETX]`

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2.24.11.13. Variable: APCCounterCondition04

The following section contains a detailed description of the variable APCCounterCondition04.

Variable Overview

Variable Name	Description
APCCounterCondition04	Enum of permanent counter 1

Communication Name	APCCC04
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1168
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC04
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC04	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC04 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC04	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC04 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC04	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC04				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC04	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC04[ETX]
Read Variable Response:	[STX]sRA APCCC04 0[ETX]
Write Variable:	[STX]sWN APCCC04 0[ETX]
Write Variable Response:	[STX]sWA APCCC04[ETX]

2.24.11.14. Variable: APCCounterConditionStruct04

The following section contains a detailed description of the variable APCCounterConditionStruct04.

Variable Overview

Variable Name	Description
APCCounterConditionStruct04	Struct of permanent counter for condition name based observing

Communication Name	APCCCS04
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1169
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	True
ExtraValue	
FlexString	
Length	0..18
Initialisation	Match1

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS04`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS04	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS04 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS04	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS04 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS04	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS04`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS04	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS04[ETX]`
Read Variable Response:	`[STX]sRA APCCCS04 1 6 Match1[ETX]`
Write Variable:	`[STX]sWN APCCCS04 1 +6 Match1[ETX]`
Write Variable Response:	`[STX]sWA APCCCS04[ETX]`

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2.24.11.15. Variable: APCCounterDBTagStruct04

The following section contains a detailed description of the variable APCCounterDBTagStruct04.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct04	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS04
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1170
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..6
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS04
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS04	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS04 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS04	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS04 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS04	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS04 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS04				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS04	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS04[ETX]
Read Variable Response:	[STX]sRA APCCDTS04 0 0[ETX]
Write Variable:	[STX]sWN APCCDTS04 0 +0 0[ETX]
Write Variable Response:	[STX]sWA APCCDTS04[ETX]

2.24.11.16. Variable: APCIsPermanent04

The following section contains a detailed description of the variable APCIsPermanent04.

Variable Overview

Variable Name	Description
APCIsPermanent04	Defines whether a counter is permanent or not

Communication Name	APCIsPerm04
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1171
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm04`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm04	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm04 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm04	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm04 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm04	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm04`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm04	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm04[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm04 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm04 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm04[ETX]`

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2.24.11.17. Variable: APCCounterCondition05

The following section contains a detailed description of the variable APCCounterCondition05.

Variable Overview

Variable Name	Description
APCCounterCondition05	Enum of permanent counter 1

Communication Name	APCCC05
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1172
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC05
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC05	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC05 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC05	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC05 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC05	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC05				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC05	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC05[ETX]
Read Variable Response:	[STX]sRA APCCC05 0[ETX]
Write Variable:	[STX]sWN APCCC05 0[ETX]
Write Variable Response:	[STX]sWA APCCC05[ETX]

2.24.11.18. Variable: APCCounterConditionStruct05

The following section contains a detailed description of the variable APCCounterConditionStruct05.

Variable Overview

Variable Name	Description
APCCounterConditionStruct05	Struct of permanent counter for condition name based observing

Communication Name	APCCCS05
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1173
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	True
ExtraValue	
FlexString	
Length	0..18
Initialisation	TeachIn1

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS05`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS05	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS05 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS05	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS05 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS05	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS05`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS05	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS05[ETX]`
Read Variable Response:	`[STX]sRA APCCCS05 1 8 TeachIn1[ETX]`
Write Variable:	`[STX]sWN APCCCS05 1 +8 TeachIn1[ETX]`
Write Variable Response:	`[STX]sWA APCCCS05[ETX]`

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2.24.11.19. Variable: APCCounterDBTagStruct05

The following section contains a detailed description of the variable APCCounterDBTagStruct05.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct05	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS05
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1174
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..6
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS05
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS05	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS05 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS05	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS05 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS05	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS05 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS05				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS05	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS05[ETX]
Read Variable Response:	[STX]sRA APCCDTS05 0 0[ETX]
Write Variable:	[STX]sWN APCCDTS05 0 +0 0[ETX]
Write Variable Response:	[STX]sWA APCCDTS05[ETX]

2.24.11.20. Variable: APCIsPermanent05

The following section contains a detailed description of the variable APCIsPermanent05.

Variable Overview

Variable Name	Description
APCIsPermanent05	Defines whether a counter is permanent or not

Communication Name	APCIsPerm05
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1175
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm05`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm05	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm05 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm05	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm05 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm05	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm05`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm05	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm05[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm05 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm05 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm05[ETX]`

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2.24.11.21. Variable: APCCounterCondition06

The following section contains a detailed description of the variable APCCounterCondition06.

Variable Overview

Variable Name	Description
APCCounterCondition06	Enum of permanent counter 1

Communication Name	APCCC06
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1176
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC06
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC06	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC06 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC06	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC06 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC06	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC06				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC06	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC06[ETX]
Read Variable Response:	[STX]sRA APCCC06 0[ETX]
Write Variable:	[STX]sWN APCCC06 0[ETX]
Write Variable Response:	[STX]sWA APCCC06[ETX]

2.24.11.22. Variable: APCCounterConditionStruct06

The following section contains a detailed description of the variable APCCounterConditionStruct06.

Variable Overview

Variable Name	Description
APCCounterConditionStruct06	Struct of permanent counter for condition name based observing

Communication Name	APCCCS06
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1177
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS06`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS06	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS06 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS06	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS06 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS06	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS06`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS06	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS06[ETX]`
Read Variable Response:	`[STX]sRA APCCCS06 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS06 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS06[ETX]`

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2.24.11.23. Variable: APCCounterDBTagStruct06

The following section contains a detailed description of the variable APCCounterDBTagStruct06.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct06	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS06
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1178
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	True
ExtraValue	
FlexString	
Length	0..6
Initialisation	NY

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS06
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS06	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS06 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS06	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS06 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS06	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS06 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS06				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS06	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS06[ETX]
Read Variable Response:	[STX]sRA APCCDTS06 1 2 NY[ETX]
Write Variable:	[STX]sWN APCCDTS06 1 +2 NY[ETX]
Write Variable Response:	[STX]sWA APCCDTS06[ETX]

2.24.11.24. Variable: APCIsPermanent06

The following section contains a detailed description of the variable APCIsPermanent06.

Variable Overview

Variable Name	Description
APCIsPermanent06	Defines whether a counter is permanent or not

Communication Name	APCIsPerm06
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1179
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm06`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm06	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm06 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm06	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm06 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm06	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm06`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm06	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm06[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm06 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm06 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm06[ETX]`

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2.24.11.25. Variable: APCCounterCondition07

The following section contains a detailed description of the variable APCCounterCondition07.

Variable Overview

Variable Name	Description
APCCounterCondition07	Enum of permanent counter 1

Communication Name	APCCC07
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1180
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC07
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC07	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC07 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC07	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC07 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC07	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC07				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC07	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC07[ETX]
Read Variable Response:	[STX]sRA APCCC07 0[ETX]
Write Variable:	[STX]sWN APCCC07 0[ETX]
Write Variable Response:	[STX]sWA APCCC07[ETX]

2.24.11.26. Variable: APCCounterConditionStruct07

The following section contains a detailed description of the variable APCCounterConditionStruct07.

Variable Overview

Variable Name	Description
APCCounterConditionStruct07	Struct of permanent counter for condition name based observing

Communication Name	APCCCS07
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1181
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS07`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS07	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS07 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS07	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS07 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS07	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS07`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS07	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS07[ETX]`
Read Variable Response:	`[STX]sRA APCCCS07 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS07 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS07[ETX]`

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2.24.11.27. Variable: APCCounterDBTagStruct07

The following section contains a detailed description of the variable APCCounterDBTagStruct07.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct07	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS07
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1182
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..6
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS07
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS07	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS07 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS07	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS07 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS07	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS07 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS07				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS07	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS07[ETX]
Read Variable Response:	[STX]sRA APCCDTS07 0 0[ETX]
Write Variable:	[STX]sWN APCCDTS07 0 +0 0[ETX]
Write Variable Response:	[STX]sWA APCCDTS07[ETX]

2.24.11.28. Variable: APCIsPermanent07

The following section contains a detailed description of the variable APCIsPermanent07.

Variable Overview

Variable Name	Description
APCIsPermanent07	Defines whether a counter is permanent or not

Communication Name	APCIsPerm07
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1183
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm07`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm07	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm07 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm07	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm07 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm07	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm07`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm07	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm07[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm07 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm07 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm07[ETX]`

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2.24.11.29. Variable: APCCounterCondition08

The following section contains a detailed description of the variable APCCounterCondition08.

Variable Overview

Variable Name	Description
APCCounterCondition08	Enum of permanent counter 1

Communication Name	APCCC08
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1184
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC08
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC08	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC08 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC08	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC08 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC08	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC08				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC08	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC08[ETX]
Read Variable Response:	[STX]sRA APCCC08 0[ETX]
Write Variable:	[STX]sWN APCCC08 0[ETX]
Write Variable Response:	[STX]sWA APCCC08[ETX]

2.24.11.30. Variable: APCCounterConditionStruct08

The following section contains a detailed description of the variable APCCounterConditionStruct08.

Variable Overview

Variable Name	Description
APCCounterConditionStruct08	Struct of permanent counter for condition name based observing

Communication Name	APCCCS08
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1185
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS08`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS08	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS08 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS08	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS08 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS08	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS08`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS08	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS08[ETX]`
Read Variable Response:	`[STX]sRA APCCCS08 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS08 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS08[ETX]`

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2.24.11.31. Variable: APCCounterDBTagStruct08

The following section contains a detailed description of the variable APCCounterDBTagStruct08.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct08	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS08
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1186
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..6
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS08
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS08	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS08 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS08	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS08 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS08	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS08 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS08				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS08	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS08[ETX]
Read Variable Response:	[STX]sRA APCCDTS08 0 0[ETX]
Write Variable:	[STX]sWN APCCDTS08 0 +0 0[ETX]
Write Variable Response:	[STX]sWA APCCDTS08[ETX]

2.24.11.32. Variable: APCIsPermanent08

The following section contains a detailed description of the variable APCIsPermanent08.

Variable Overview

Variable Name	Description
APCIsPermanent08	Defines whether a counter is permanent or not

Communication Name	APCIsPerm08
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1187
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm08`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm08	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm08 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm08	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm08 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm08	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm08`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm08	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm08[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm08 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm08 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm08[ETX]`

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2.24.11.33. Variable: APCCounterCondition09

The following section contains a detailed description of the variable APCCounterCondition09.

Variable Overview

Variable Name	Description
APCCounterCondition09	Enum of permanent counter 1

Communication Name	APCCC09
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1188
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC09
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC09	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC09 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC09	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC09 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC09	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC09				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC09	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC09[ETX]
Read Variable Response:	[STX]sRA APCCC09 0[ETX]
Write Variable:	[STX]sWN APCCC09 0[ETX]
Write Variable Response:	[STX]sWA APCCC09[ETX]

2.24.11.34. Variable: APCCounterConditionStruct09

The following section contains a detailed description of the variable APCCounterConditionStruct09.

Variable Overview

Variable Name	Description
APCCounterConditionStruct09	Struct of permanent counter for condition name based observing

Communication Name	APCCCS09
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1189
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS09`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS09	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS09 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS09	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS09 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS09	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS09`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS09	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS09[ETX]`
Read Variable Response:	`[STX]sRA APCCCS09 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS09 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS09[ETX]`

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2.24.11.35. Variable: APCCounterDBTagStruct09

The following section contains a detailed description of the variable APCCounterDBTagStruct09.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct09	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS09
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1190
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..6
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS09
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS09	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS09 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS09	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS09 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS09	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS09 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS09				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS09	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS09[ETX]
Read Variable Response:	[STX]sRA APCCDTS09 0 0[ETX]
Write Variable:	[STX]sWN APCCDTS09 0 +0 0[ETX]
Write Variable Response:	[STX]sWA APCCDTS09[ETX]

2.24.11.36. Variable: APCIsPermanent09

The following section contains a detailed description of the variable APCIsPermanent09.

Variable Overview

Variable Name	Description
APCIsPermanent09	Defines whether a counter is permanent or not

Communication Name	APCIsPerm09
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1191
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm09`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm09	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm09 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm09	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm09 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm09	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm09`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm09	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm09[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm09 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm09 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm09[ETX]`

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2.24.11.37. Variable: APCCounterCondition10

The following section contains a detailed description of the variable APCCounterCondition10.

Variable Overview

Variable Name	Description
APCCounterCondition10	Enum of permanent counter 1

Communication Name	APCCC10
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1192
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		0	
	Value	Name	Description
	0	TX_DEACTIVATED	
	1	TX_INPUT1	
	2	TX_INPUT2	
	3	TX_EXT_IN1	
	4	TX_EXT_IN2	
	5	TX_FIELDBUS_TRIGGER_IN	
	6	TX_FIELDBUS_TEACH_IN1	
	7	TX_FIELDBUS_TEACH_IN2	
	8	TX_OUTPUT1	
	9	TX_OUTPUT2	
	10	TX_EXT_OUT1	
	11	TX_EXT_OUT2	

Variable Telegram Syntax

Read Variable:

```
sRN APCCC10
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCC10	String	7	Enum of permanent counter 1

Read Variable Response:

```
sRA APCCC10 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCC10	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

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Write Variable:				
sWN APCCC10 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCC10	String	7	Enum of permanent counter 1
Variable Data	data	Enum8	1	

Write Variable Response:				
sWA APCCC10				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCC10	String	7	Enum of permanent counter 1

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCC10[ETX]
Read Variable Response:	[STX]sRA APCCC10 0[ETX]
Write Variable:	[STX]sWN APCCC10 0[ETX]
Write Variable Response:	[STX]sWA APCCC10[ETX]

2.24.11.38. Variable: APCCounterConditionStruct10

The following section contains a detailed description of the variable APCCounterConditionStruct10.

Variable Overview

Variable Name	Description
APCCounterConditionStruct10	Struct of permanent counter for condition name based observing

Communication Name	APCCCS10
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1193
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..18
Initialisation	

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Variable Telegram Syntax

Read Variable:				
`sRN APCCCS10`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCCS10	String	8	Struct of permanent counter for condition name based observing

Read Variable Response:				
`sRA APCCCS10 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCCS10	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable:				
`sWN APCCCS10 <UseExtraValue> <ExtraValue>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCCS10	String	8	Struct of permanent counter for condition name based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	18	

Write Variable Response:				
`sWA APCCCS10`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCCS10	String	8	Struct of permanent counter for condition name based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCCCS10[ETX]`
Read Variable Response:	`[STX]sRA APCCCS10 0 0[ETX]`
Write Variable:	`[STX]sWN APCCCS10 0 +0 0[ETX]`
Write Variable Response:	`[STX]sWA APCCCS10[ETX]`

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2.24.11.39. Variable: APCCounterDBTagStruct10

The following section contains a detailed description of the variable APCCounterDBTagStruct10.

Variable Overview

Variable Name	Description
APCCounterDBTagStruct10	Struct of permanent counter for dbtag based observing

Communication Name	APCCDTS10
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1194
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct	
UseExtraValue	
Bool	
Value Range	False, True
Initialisation	False
ExtraValue	
FlexString	
Length	0..6
Initialisation	

Variable Telegram Syntax

Read Variable:

```
sRN APCCDTS10
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCCDTS10	String	9	Struct of permanent counter for dbtag based observing

Read Variable Response:

```
sRA APCCDTS10 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCCDTS10	String	9	Struct of permanent counter for dbtag based observing
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable:

```
sWN APCCDTS10 <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCCDTS10	String	9	Struct of permanent counter for dbtag based observing

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Write Variable:				
sWN APCCDTS10 <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 1	UseExtraValue	Bool	1	
Variable Data 2	ExtraValue	FlexString	6	

Write Variable Response:				
sWA APCCDTS10				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCCDTS10	String	9	Struct of permanent counter for dbtag based observing

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN APCCDTS10[ETX]
Read Variable Response:	[STX]sRA APCCDTS10 0 0[ETX]
Write Variable:	[STX]sWN APCCDTS10 0 +0 0[ETX]
Write Variable Response:	[STX]sWA APCCDTS10[ETX]

2.24.11.40. Variable: APCIsPermanent10

The following section contains a detailed description of the variable APCIsPermanent10.

Variable Overview

Variable Name	Description
APCIsPermanent10	Defines whether a counter is permanent or not

Communication Name	APCIsPerm10
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1195
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN APCIsPerm10`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	APCIsPerm10	String	11	Defines whether a counter is permanent or not

Read Variable Response:				
`sRA APCIsPerm10 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	APCIsPerm10	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable:				
`sWN APCIsPerm10 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	APCIsPerm10	String	11	Defines whether a counter is permanent or not
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA APCIsPerm10`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	APCIsPerm10	String	11	Defines whether a counter is permanent or not

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN APCIsPerm10[ETX]`
Read Variable Response:	`[STX]sRA APCIsPerm10 0[ETX]`
Write Variable:	`[STX]sWN APCIsPerm10 0[ETX]`
Write Variable Response:	`[STX]sWA APCIsPerm10[ETX]`

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2.24.11.41. Method: ResetAppCounter

The following section contains a detailed description of the method ResetAppCounter.

Method Overview

Method Name	Description
ResetAppCounter	Resets the application counters

Communication Name	mAPCReset
Sopas Index	148
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mAPCReset`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mAPCReset	String	9	Resets the application counters

Method Return Value:				
`sAN mAPCReset`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mAPCReset	String	9	Resets the application counters

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mAPCReset[ETX]`
Method Return Value:	`[STX]sAN mAPCReset[ETX]`

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2.24.11.42. Method: StoreAppCounter

The following section contains a detailed description of the method StoreAppCounter.

Method Overview

Method Name	Description
StoreAppCounter	Trigeres the permanent storage of the permanent application counters

Communication Name	mAPCStore
Sopas Index	149
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mAPCStore`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mAPCStore	String	9	Trigeres the permanent storage of the permanent application counters

Method Return Value:				
`sAN mAPCStore`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mAPCStore	String	9	Trigeres the permanent storage of the permanent application counters

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mAPCStore[ETX]`
Method Return Value:	`[STX]sAN mAPCStore[ETX]`

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2.24.12. Group: ObjAdmin

2.24.12.1. Variable: ObjDevListCodesCondition

The following section contains a detailed description of the variable ObjDevListCodesCondition.

Variable Overview

Variable Name	Description
ObjDevListCodesCondition	Condition for codes used to form the object related dev. list (DMBF, DMSF, DMSB)

Communication Name	OADevLstCond
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1196
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Struct			
EnumValue			
	Enum8		
	Default Value	TX_NO_CONDITION	
	Value	Name	Description
	0	TX_NO_CONDITION	
UseExtraValue			
	Bool		
	Value Range	False, True	
	Initialisation	False	
ExtraValue			
	FlexString		
	Length	0..18	
	Initialisation		

Variable Telegram Syntax

Read Variable:

```
sRN OADevLstCond
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	OADevLstCond	String	12	Condition for codes used to form the object related dev. list (DMBF, DMSF, DMSB)

Read Variable Response:

```
sRA OADevLstCond <EnumValue> <UseExtraValue> <ExtraValue>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	OADevLstCond	String	12	Condition for codes used to form the object related dev. list (DMBF, DMSF, DMSB)
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	

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Read Variable Response:				
sRA OADevLstCond <EnumValue> <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Variable Data 3	ExtraValue	FlexString	18	

Write Variable:				
sWN OADevLstCond <EnumValue> <UseExtraValue> <ExtraValue>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	OADevLstCond	String	12	Condition for codes used to form the object related dev. list (DMBF, DMSF, DMSB)
Variable Data 1	EnumValue	Enum8	1	
Variable Data 2	UseExtraValue	Bool	1	
Variable Data 3	ExtraValue	FlexString	18	

Write Variable Response:				
sWA OADevLstCond				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	OADevLstCond	String	12	Condition for codes used to form the object related dev. list (DMBF, DMSF, DMSB)

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN OADevLstCond[ETX]
Read Variable Response:	[STX]sRA OADevLstCond 0 0 0[ETX]
Write Variable:	[STX]sWN OADevLstCond 0 0 +0 0[ETX]
Write Variable Response:	[STX]sWA OADevLstCond[ETX]

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2.24.13. Group: ExternalDataInputHandling

2.24.13.1. Variable: ED_DataForwardDestination

The following section contains a detailed description of the variable ED_DataForwardDestination.

Variable Overview

Variable Name	Description
ED_DataForwardDestination	Destination interface for data forwareding

Communication Name	EDFwDs
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1198
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_EDI_FWD_DST_SER_HOST	
	1	TX_EDI_FWD_DST_SER_AUX	
	2	TX_EDI_FWD_DST_ETH_HOST	
	3	TX_EDI_FWD_DST_ETH_AUX	

Variable Telegram Syntax

Read Variable:

```
sRN EDFwDs
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDFwDs	String	6	Destination interface for data forwareding

Read Variable Response:

```
sRA EDFwDs <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDFwDs	String	6	Destination interface for data forwareding
Variable Data	data	Enum8	1	

Write Variable:

```
sWN EDFwDs <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDFwDs	String	6	Destination interface for data forwareding
Variable Data	data	Enum8	1	

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Write Variable Response:				
sWA EDFwDs				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDFwDs	String	6	Destination interface for data forwareding

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EDFwDs[ETX]
Read Variable Response:	[STX]sRA EDFwDs 1[ETX]
Write Variable:	[STX]sWN EDFwDs 1[ETX]
Write Variable Response:	[STX]sWA EDFwDs[ETX]

2.24.13.2. Variable: ED_DataForwardFrameRxHeader

The following section contains a detailed description of the variable ED_DataForwardFrameRxHeader.

Variable Overview

Variable Name	Description
ED_DataForwardFrameRxHeader	Defines the receive framing start characters for Data Forwarding Commands

Communication Name	EDFwRFH
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1199
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x02/

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Variable Telegram Syntax

Read Variable:				
`sRN EDFwRFH`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDFwRFH	String	7	Defines the receive framing start characters for Data Forwarding Commands

Read Variable Response:				
`sRA EDFwRFH <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDFwRFH	String	7	Defines the receive framing start characters for Data Forwarding Commands
Variable Data	data	FlexString	10	

Write Variable:				
`sWN EDFwRFH <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDFwRFH	String	7	Defines the receive framing start characters for Data Forwarding Commands
Variable Data	data	FlexString	10	

Write Variable Response:				
`sWA EDFwRFH`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDFwRFH	String	7	Defines the receive framing start characters for Data Forwarding Commands

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDFwRFH[ETX]`
Read Variable Response:	`[STX]sRA EDFwRFH 5 \x02/[ETX]`
Write Variable:	`[STX]sWN EDFwRFH +5 \x02/[ETX]`
Write Variable Response:	`[STX]sWA EDFwRFH[ETX]`

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2.24.13.3. Variable: ED_DataForwardFrameRxTerminator

The following section contains a detailed description of the variable ED_DataForwardFrameRxTerminator.

Variable Overview

Variable Name	Description
ED_DataForwardFrameRxTerminator	Defines the receive framing stop characters for Data Forwarding Commands

Communication Name	EDFwRFT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1200
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x03

Variable Telegram Syntax

Read Variable:

```
sRN EDFwRFT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDFwRFT	String	7	Defines the receive framing stop characters for Data Forwarding Commands

Read Variable Response:

```
sRA EDFwRFT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDFwRFT	String	7	Defines the receive framing stop characters for Data Forwarding Commands
Variable Data	data	FlexString	10	

Write Variable:

```
sWN EDFwRFT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDFwRFT	String	7	Defines the receive framing stop characters for Data Forwarding Commands
Variable Data	data	FlexString	10	

Write Variable Response:

```
sWA EDFwRFT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EDFwRFT				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EDFwRFT	String	7	Defines the receive framing stop characters for Data Forwarding Commands

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EDFwRFT[ETX]
Read Variable Response:	[STX]sRA EDFwRFT 4 \x03[ETX]
Write Variable:	[STX]sWN EDFwRFT +4 \x03[ETX]
Write Variable Response:	[STX]sWA EDFwRFT[ETX]

2.24.13.4. Variable: ED_DataForwardFrameTxHeader

The following section contains a detailed description of the variable ED_DataForwardFrameTxHeader.

Variable Overview

Variable Name	Description
ED_DataForwardFrameTxHeader	Defines the transmit framing start characters for Data Forwarding

Communication Name	EDFwTFH
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1201
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x02/

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Variable Telegram Syntax

Read Variable:				
`sRN EDFwTFH`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDFwTFH	String	7	Defines the transmit framing start characters for Data Forwarding

Read Variable Response:				
`sRA EDFwTFH <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDFwTFH	String	7	Defines the transmit framing start characters for Data Forwarding
Variable Data	data	FlexString	10	

Write Variable:				
`sWN EDFwTFH <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDFwTFH	String	7	Defines the transmit framing start characters for Data Forwarding
Variable Data	data	FlexString	10	

Write Variable Response:				
`sWA EDFwTFH`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDFwTFH	String	7	Defines the transmit framing start characters for Data Forwarding

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDFwTFH[ETX]`
Read Variable Response:	`[STX]sRA EDFwTFH 5 \x02/[ETX]`
Write Variable:	`[STX]sWN EDFwTFH +5 \x02/[ETX]`
Write Variable Response:	`[STX]sWA EDFwTFH[ETX]`

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2.24.13.5. Variable: ED_DataForwardFrameTxTerminator

The following section contains a detailed description of the variable ED_DataForwardFrameTxTerminator.

Variable Overview

Variable Name	Description
ED_DataForwardFrameTxTerminator	Defines the transmit framing stop characters for Data Forwarding

Communication Name	EDFwTFT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1202
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x03

Variable Telegram Syntax

Read Variable:

```
sRN EDFwTFT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDFwTFT	String	7	Defines the transmit framing stop characters for Data Forwarding

Read Variable Response:

```
sRA EDFwTFT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDFwTFT	String	7	Defines the transmit framing stop characters for Data Forwarding
Variable Data	data	FlexString	10	

Write Variable:

```
sWN EDFwTFT <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDFwTFT	String	7	Defines the transmit framing stop characters for Data Forwarding
Variable Data	data	FlexString	10	

Write Variable Response:

```
sWA EDFwTFT
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EDFwTFT				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EDFwTFT	String	7	Defines the transmit framing stop characters for Data Forwarding

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EDFwTFT[ETX]
Read Variable Response:	[STX]sRA EDFwTFT 4 \x03[ETX]
Write Variable:	[STX]sWN EDFwTFT +4 \x03[ETX]
Write Variable Response:	[STX]sWA EDFwTFT[ETX]

2.24.13.6. Variable: ED_AuxReadResultBarcodeType

The following section contains a detailed description of the variable ED_AuxReadResultBarcodeType.

Variable Overview

Variable Name	Description
ED_AuxReadResultBarcodeType	Defines ihow to determine the barcode type fo the auxiliary read result: Use fixed barcode type or use first input character as barcode type identifier

Communication Name	EDArsTy
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1203
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

Enum8			
Default Value		TX_EDI_RS_TYPE_C39	
	Value	Name	Description
	0	TX_EDI_RS_TYPE_BY_IDENTIFIER	
	1	TX_EDI_RS_TYPE_CODABAR	
	2	TX_EDI_RS_TYPE_C39	
	3	TX_EDI_RS_TYPE_EAN	
	4	TX_EDI_RS_TYPE_UPC	
	5	TX_EDI_RS_TYPE_25IL	
	6	TX_EDI_RS_TYPE_C93	
	7	TX_EDI_RS_TYPE_C128	
	8	TX_EDI_RS_TYPE_GS1DATABAR	
	9	TX_EDI_RS_TYPE_PHARMA	

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Variable Telegram Syntax

Read Variable:				
`sRN EDArsTy`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDArsTy	String	7	Defines ihow to determine the barcode type fo the auxiliary read result: Use fixed barcode type or use first input character as barcode type identifier

Read Variable Response:				
`sRA EDArsTy <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDArsTy	String	7	Defines ihow to determine the barcode type fo the auxiliary read result: Use fixed barcode type or use first input character as barcode type identifier
Variable Data	data	Enum8	1	

Write Variable:				
`sWN EDArsTy <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDArsTy	String	7	Defines ihow to determine the barcode type fo the auxiliary read result: Use fixed barcode type or use first input character as barcode type identifier
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA EDArsTy`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDArsTy	String	7	Defines ihow to determine the barcode type fo the auxiliary read result: Use fixed barcode type or use first input character as barcode type identifier

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDArsTy[ETX]`
Read Variable Response:	`[STX]sRA EDArsTy 2[ETX]`
Write Variable:	`[STX]sWN EDArsTy 2[ETX]`
Write Variable Response:	`[STX]sWA EDArsTy[ETX]`

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2.24.13.7. Variable: ED_AuxReadResultFrameRxHeader

The following section contains a detailed description of the variable ED_AuxReadResultFrameRxHeader.

Variable Overview

Variable Name	Description
ED_AuxReadResultFrameRxHeader	Defines the receive framing start characters for Data Aux read result Commands

Communication Name	EDArsRFH
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1204
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x02>

Variable Telegram Syntax

Read Variable:

```
sRN EDArsRFH
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDArsRFH	String	8	Defines the receive framing start characters for Data Aux read result Commands

Read Variable Response:

```
sRA EDArsRFH <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDArsRFH	String	8	Defines the receive framing start characters for Data Aux read result Commands
Variable Data	data	FlexString	10	

Write Variable:

```
sWN EDArsRFH <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDArsRFH	String	8	Defines the receive framing start characters for Data Aux read result Commands
Variable Data	data	FlexString	10	

Write Variable Response:

```
sWA EDArsRFH
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA EDArsRFH				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	EDArsRFH	String	8	Defines the receive framing start characters for Data Aux read result Commands

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN EDArsRFH[ETX]
Read Variable Response:	[STX]sRA EDArsRFH 5 \x02>[ETX]
Write Variable:	[STX]sWN EDArsRFH +5 \x02>[ETX]
Write Variable Response:	[STX]sWA EDArsRFH[ETX]

2.24.13.8. Variable: ED_AuxReadResultFrameRxTerminator

The following section contains a detailed description of the variable ED_AuxReadResultFrameRxTerminator.

Variable Overview

Variable Name	Description
ED_AuxReadResultFrameRxTerminator	Defines the receive framing stop characters for Aux read result Commands

Communication Name	EDArsRFT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1205
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x03

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Variable Telegram Syntax

Read Variable:				
`sRN EDArsRFT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDArsRFT	String	8	Defines the receive framing stop characters for Aux read result Commands

Read Variable Response:				
`sRA EDArsRFT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDArsRFT	String	8	Defines the receive framing stop characters for Aux read result Commands
Variable Data	data	FlexString	10	

Write Variable:				
`sWN EDArsRFT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDArsRFT	String	8	Defines the receive framing stop characters for Aux read result Commands
Variable Data	data	FlexString	10	

Write Variable Response:				
`sWA EDArsRFT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDArsRFT	String	8	Defines the receive framing stop characters for Aux read result Commands

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDArsRFT[ETX]`
Read Variable Response:	`[STX]sRA EDArsRFT 4 \x03[ETX]`
Write Variable:	`[STX]sWN EDArsRFT +4 \x03[ETX]`
Write Variable Response:	`[STX]sWA EDArsRFT[ETX]`

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2.24.13.9. Variable: ED_DataStringAcqDefault

The following section contains a detailed description of the variable ED_DataStringAcqDefault.

Variable Overview

Variable Name	Description
ED_DataStringAcqDefault	default value for string acqusition

Communication Name	EDAcqDf
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1206
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..50
Initialisation	NoDataReceived

Variable Telegram Syntax

Read Variable:

```
sRN EDAcqDf
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDAcqDf	String	7	default value for string acqusition

Read Variable Response:

```
sRA EDAcqDf <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDAcqDf	String	7	default value for string acqusition
Variable Data	data	FlexString	50	

Write Variable:

```
sWN EDAcqDf <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDAcqDf	String	7	default value for string acqusition
Variable Data	data	FlexString	50	

Write Variable Response:

```
sWA EDAcqDf
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDAcqDf	String	7	default value for string acqusition

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDAcqDf[ETX]`
Read Variable Response:	`[STX]sRA EDAcqDf E NoDataReceived[ETX]`
Write Variable:	`[STX]sWN EDAcqDf +14 NoDataReceived[ETX]`
Write Variable Response:	`[STX]sWA EDAcqDf[ETX]`

2.24.13.10. Variable: ED_DataStringAcqFrameRxHeader

The following section contains a detailed description of the variable ED_DataStringAcqFrameRxHeader.

Variable Overview

Variable Name	Description
ED_DataStringAcqFrameRxHeader	Defines the receive framing start characters for Data string acquisition Commands

Communication Name	EDAcqRFH
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1207
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x02&

Variable Telegram Syntax

Read Variable:				
`sRN EDAcqRFH`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDAcqRFH	String	8	Defines the receive framing start characters for Data string acquisition Commands

Read Variable Response:				
`sRA EDAcqRFH <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDAcqRFH	String	8	Defines the receive framing start characters for Data string acquisition Commands
Variable Data	data	FlexString	10	

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Write Variable:				
`sWN EDAcqRFH <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDAcqRFH	String	8	Defines the receive framing start characters for Data string acquisition Commands
Variable Data	data	FlexString	10	

Write Variable Response:				
`sWA EDAcqRFH`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDAcqRFH	String	8	Defines the receive framing start characters for Data string acquisition Commands

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDAcqRFH[ETX]`
Read Variable Response:	`[STX]sRA EDAcqRFH 5 \x02&[ETX]`
Write Variable:	`[STX]sWN EDAcqRFH +5 \x02&[ETX]`
Write Variable Response:	`[STX]sWA EDAcqRFH[ETX]`

2.24.13.11. Variable: ED_DataStringAcqFrameRxTerminator

The following section contains a detailed description of the variable ED_DataStringAcqFrameRxTerminator.

Variable Overview

Variable Name	Description
ED_DataStringAcqFrameRxTerminator	Defines the receive framing stop characters for Data string acquisition Commands

Communication Name	EDAcqRFT
Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1208
Storage	Variable is stored in ParamEEprom
Read-Access	Always
Write-Access	AuthorizedClient

FlexString	
Length	0..10
Initialisation	\x03

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Variable Telegram Syntax

Read Variable:				
`sRN EDAcqRFT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EDAcqRFT	String	8	Defines the receive framing stop characters for Data string acquisition Commands

Read Variable Response:				
`sRA EDAcqRFT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EDAcqRFT	String	8	Defines the receive framing stop characters for Data string acquisition Commands
Variable Data	data	FlexString	10	

Write Variable:				
`sWN EDAcqRFT <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EDAcqRFT	String	8	Defines the receive framing stop characters for Data string acquisition Commands
Variable Data	data	FlexString	10	

Write Variable Response:				
`sWA EDAcqRFT`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EDAcqRFT	String	8	Defines the receive framing stop characters for Data string acquisition Commands

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EDAcqRFT[ETX]`
Read Variable Response:	`[STX]sRA EDAcqRFT 4 \x03[ETX]`
Write Variable:	`[STX]sWN EDAcqRFT +4 \x03[ETX]`
Write Variable Response:	`[STX]sWA EDAcqRFT[ETX]`

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2.24.14. Group: DynamicParameter

2.24.14.1. Method: DPForceRunlevelChange

The following section contains a detailed description of the method DPForceRunlevelChange.

Method Overview

Method Name	Description
DPForceRunlevelChange	Method to trigger a runlevel change

Communication Name	DPForceRunLvlChange
Sopas Index	150
Invocation Access	AuthorizedClient

Method Telegram Syntax

Method Invocation:				
`sMN DPForceRunLvlChange`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	DPForceRunLvlChange	String	19	Method to trigger a runlevel change

Method Return Value:				
`sAN DPForceRunLvlChange`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	DPForceRunLvlChange	String	19	Method to trigger a runlevel change

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN DPForceRunLvlChange[ETX]`
Method Return Value:	`[STX]sAN DPForceRunLvlChange[ETX]`

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2.25. Interface Block: Diag

2.25.1. Group: DeviceInformation

2.25.1.1. Method: BootupCDF

The following section contains a detailed description of the method BootupCDF.

Method Overview

Method Name	Description
BootupCDF	Called as bootup message of CDF600

Communication Name	mDIBootCdf
Sopas Index	151
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mDIBootCdf`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mDIBootCdf	String	10	Called as bootup message of CDF600

Method Return Value:				
`sAN mDIBootCdf`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mDIBootCdf	String	10	Called as bootup message of CDF600

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mDIBootCdf[ETX]`
Method Return Value:	`[STX]sAN mDIBootCdf[ETX]`

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2.25.2. Group: CodeDiag

2.25.2.1. Method: mTestCode

The following section contains a detailed description of the method mTestCode.

Method Overview

Method Name
mTestCode

Sopas Index	152
Invocation Access	Always

Parameters		
CodeDef		
	FlexString	
	Length	0..512
	Initialisation	

Return Values		
Success		
	Bool	
	Value Range	False, True
	Initialisation	False

Method Telegram Syntax

Method Invocation:

```
sMN mTestCode <CodeDef>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTestCode	String	9	
Parameter 1	CodeDef	FlexString	512	

Method Return Value:

```
sAN mTestCode <Success>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTestCode	String	9	
Return Value 1	Success	Bool	1	

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Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mTestCode +0 0[ETX]`
Method Return Value:	`[STX]sAN mTestCode 0[ETX]`

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2.26. Interface Block: Fieldbus

2.26.1. Group: Fieldbus

2.26.1.1. Variable: FieldbusAvailable

The following section contains a detailed description of the variable FieldbusAvailable.

Variable Overview

Variable Name	Description
FieldbusAvailable	Is Fieldbus available

Communication Name	FB_Av
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1291
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN FB_Av
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	FB_Av	String	5	Is Fieldbus available

Read Variable Response:

```
sRA FB_Av <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	FB_Av	String	5	Is Fieldbus available
Variable Data	data	Bool	1	

Write Variable:

```
sWN FB_Av <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	FB_Av	String	5	Is Fieldbus available
Variable Data	data	Bool	1	

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Write Variable Response:				
sWA FB_Av				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	FB_Av	String	5	Is Fieldbus available

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN FB_Av[ETX]
Read Variable Response:	[STX]sRA FB_Av 0[ETX]
Write Variable:	[STX]sWN FB_Av 0[ETX]
Write Variable Response:	[STX]sWA FB_Av[ETX]

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2.26.2. Group: EthernetIPCommand

2.26.2.1. Variable: EIPControlBitsPlcOut

The following section contains a detailed description of the variable EIPControlBitsPlcOut.

Variable Overview

Variable Name	Description
EIPControlBitsPlcOut	Command Word received by sensor from EthernetIP

Communication Name	EIPCMCtrlOut
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1294
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..65535
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN EIPCMCtrlOut
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	EIPCMCtrlOut	String	12	Command Word received by sensor from EthernetIP

Read Variable Response:

```
sRA EIPCMCtrlOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	EIPCMCtrlOut	String	12	Command Word received by sensor from EthernetIP
Variable Data	data	UInt	2	

Write Variable:

```
sWN EIPCMCtrlOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	EIPCMCtrlOut	String	12	Command Word received by sensor from EthernetIP
Variable Data	data	UInt	2	

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Write Variable Response:				
`sWA EIPCMCtrlOut`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	EIPCMCtrlOut	String	12	Command Word received by sensor from EthernetIP

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN EIPCMCtrlOut[ETX]`
Read Variable Response:	`[STX]sRA EIPCMCtrlOut 0[ETX]`
Write Variable:	`[STX]sWN EIPCMCtrlOut 0[ETX]`
Write Variable Response:	`[STX]sWA EIPCMCtrlOut[ETX]`

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2.26.3. Group: ProfibusCommand

2.26.3.1. Variable: ControlBitsPlcOut

The following section contains a detailed description of the variable ControlBitsPlcOut.

Variable Overview

Variable Name	Description
ControlBitsPlcOut	Command Word received by sensor from Profibus

Communication Name	PBCMCtrlOut
Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1297
Read-Access	Always
Write-Access	Always

UInt	
Value Range	0..65535
Initialisation	0
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:

```
sRN PBCMCtrlOut
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PBCMCtrlOut	String	11	Command Word received by sensor from Profibus

Read Variable Response:

```
sRA PBCMCtrlOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PBCMCtrlOut	String	11	Command Word received by sensor from Profibus
Variable Data	data	UInt	2	

Write Variable:

```
sWN PBCMCtrlOut <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PBCMCtrlOut	String	11	Command Word received by sensor from Profibus
Variable Data	data	UInt	2	

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Write Variable Response:				
sWA PBCMCtrlOut				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PBCMCtrlOut	String	11	Command Word received by sensor from Profibus

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN PBCMCtrlOut[ETX]
Read Variable Response:	[STX]sRA PBCMCtrlOut 0[ETX]
Write Variable:	[STX]sWN PBCMCtrlOut 0[ETX]
Write Variable Response:	[STX]sWA PBCMCtrlOut[ETX]

2.26.3.2. Variable: vPBEndOfParam

The following section contains a detailed description of the variable vPBEndOfParam.

Variable Overview

Variable Name
vPBEndOfParam

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1369
Read-Access	Always
Write-Access	Always

Enum8			
Default Value		1	
	Value	Name	Description
	0	TX_DO_NOT_SAVE	
	1	TX_DO_SAVE	

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Variable Telegram Syntax

Read Variable:				
`sRN vPBEndOfParam`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	vPBEndOfParam	String	13	

Read Variable Response:				
`sRA vPBEndOfParam <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	vPBEndOfParam	String	13	
Variable Data	data	Enum8	1	

Write Variable:				
`sWN vPBEndOfParam <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	vPBEndOfParam	String	13	
Variable Data	data	Enum8	1	

Write Variable Response:				
`sWA vPBEndOfParam`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	vPBEndOfParam	String	13	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN vPBEndOfParam[ETX]`
Read Variable Response:	`[STX]sRA vPBEndOfParam 1[ETX]`
Write Variable:	`[STX]sWN vPBEndOfParam 1[ETX]`
Write Variable Response:	`[STX]sWA vPBEndOfParam[ETX]`

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2.26.3.3. Variable: vPBCommandX20

The following section contains a detailed description of the variable vPBCommandX20.

Variable Overview

Variable Name
vPBCommandX20

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1370
Read-Access	Always
Write-Access	Always

Array	
Length	20
Default Value	{{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0},{0}}
UserType	
Asci127_t	See the chapter "User Types" for details.

Variable Telegram Syntax

Read Variable:

```
sRN vPBCommandX20
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	vPBCommandX20	String	13	

Read Variable Response:

```
sRA vPBCommandX20 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	vPBCommandX20	String	13	
Variable Data	data	Array	20	

Write Variable:

```
sWN vPBCommandX20 <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	vPBCommandX20	String	13	
Variable Data	data	Array	20	

Write Variable Response:

```
sWA vPBCommandX20
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	vPBCommandX20	String	13	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN vPBCommandX20[ETX]
Read Variable Response:	[STX]sRA vPBCommandX20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0[ETX]
Write Variable:	[STX]sWN vPBCommandX20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0[ETX]
Write Variable Response:	[STX]sWA vPBCommandX20[ETX]

2.26.3.4. Variable: vPBCommandX30

The following section contains a detailed description of the variable vPBCommandX30.

Variable Overview

Variable Name
vPBCommandX30

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1371
Read-Access	Always
Write-Access	Always

Array		
Length		30
Default Value		{{0},{0},{0},

Write Variable:				
sWN vPBCommandX30 <data>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	vPBCommandX30	String	13	
Variable Data	data	Array	30	

Write Variable Response:				
sWA vPBCommandX30				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	vPBCommandX30	String	13	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN vPBCommandX30[ETX]
Read Variable Response:	[STX]sRA vPBCommandX30 0 0 0

Variable Telegram Syntax

Read Variable:				
`sRN vPBCommandX50`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	vPBCommandX50	String	13	

Read Variable Response:				
`sRA vPBCommandX50 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	vPBCommandX50	String	13	
Variable Data	data	Array	50	

Write Variable:				
`sWN vPBCommandX50 <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	vPBCommandX50	String	13	
Variable Data	data	Array	50	

Write Variable Response:				
`sWA vPBCommandX50`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	vPBCommandX50	String	13	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN vPBCommandX50[ETX]`
Read Variable Response:	`[STX]sRA vPBCommandX50 0 0 0

2.26.3.6. Variable: vPBCommandX100

The following section contains a detailed description of the variable vPBCommandX100.

Variable Overview

Variable Name
vPBCommandX100

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1373
Read-Access	Always
Write-Access	Always

Array		
Length		100
Default Value		{{0},{0},{0},

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN vPBCommandX100[ETX]
Read Variable Response:	[STX]sRA vPBCommandX100 0 0 0

Struct	
CodeLength	
Enum8	

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Struct				
		Value	Name	Description
		0	TX_ENUM_0	
		1	TX_ENUM_1	
		2	TX_ENUM_2	
		3	TX_ENUM_3	
		4	TX_ENUM_4	
		5	TX_ENUM_5	
		6	TX_ENUM_6	
		7	TX_ENUM_7	
		8	TX_ENUM_8	
		9	TX_ENUM_9	
		10	TX_ENUM_10	
		11	TX_ENUM_11	
		12	TX_ENUM_12	
		13	TX_ENUM_13	
		14	TX_ENUM_14	
		15	TX_ENUM_15	
		16	TX_ENUM_16	
		17	TX_ENUM_17	
		18	TX_ENUM_18	
		19	TX_ENUM_19	
		20	TX_ENUM_20	
		21	TX_ENUM_21	
		22	TX_ENUM_22	
		23	TX_ENUM_23	
		24	TX_ENUM_24	
		25	TX_ENUM_25	
		26	TX_ENUM_26	
		27	TX_ENUM_27	
		28	TX_ENUM_28	
		29	TX_ENUM_29	
		30	TX_ENUM_30	
		31	TX_ENUM_31	
		32	TX_ENUM_32	
		33	TX_ENUM_33	
		34	TX_ENUM_34	
		35	TX_ENUM_35	
		36	TX_ENUM_36	
		37	TX_ENUM_37	
		38	TX_ENUM_38	
		39	TX_ENUM_39	
		40	TX_ENUM_40	
		41	TX_ENUM_41	
		42	TX_ENUM_42	
		43	TX_ENUM_43	
		44	TX_ENUM_44	
		45	TX_ENUM_45	
		46	TX_ENUM_46	
		47	TX_ENUM_47	
		48	TX_ENUM_48	
		49	TX_ENUM_49	
		50	TX_ENUM_50	
		51	TX_ENUM_51	
		52	TX_ENUM_52	

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Struct				
		53	TX_ENUM_53	
		54	TX_ENUM_54	
		55	TX_ENUM_55	
		56	TX_ENUM_56	
		57	TX_ENUM_57	
		58	TX_ENUM_58	
		59	TX_ENUM_59	
		60	TX_ENUM_60	
		61	TX_ENUM_61	
		62	TX_ENUM_62	
		63	TX_ENUM_63	
		64	TX_ENUM_64	
		65	TX_ENUM_65	
		66	TX_ENUM_66	
		67	TX_ENUM_67	
		68	TX_ENUM_68	
		69	TX_ENUM_69	
		70	TX_ENUM_70	
		71	TX_ENUM_71	
		72	TX_ENUM_72	
		73	TX_ENUM_73	
		74	TX_ENUM_74	
		75	TX_ENUM_75	
		76	TX_ENUM_76	
		77	TX_ENUM_77	
		78	TX_ENUM_78	
		79	TX_ENUM_79	
		80	TX_ENUM_80	
		81	TX_ENUM_81	
		82	TX_ENUM_82	
		83	TX_ENUM_83	
		84	TX_ENUM_84	
		85	TX_ENUM_85	
		86	TX_ENUM_86	
		87	TX_ENUM_87	
		88	TX_ENUM_88	
		89	TX_ENUM_89	
		90	TX_ENUM_90	
		91	TX_ENUM_91	
		92	TX_ENUM_92	
		93	TX_ENUM_93	
		94	TX_ENUM_94	
		95	TX_ENUM_95	
		96	TX_ENUM_96	
		97	TX_ENUM_97	
		98	TX_ENUM_98	
		99	TX_ENUM_99	

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Struct			
CodeType			
	Enum8		
	Value	Name	Description
	0	TX_ENUM_0	
	1	Codabar	
	2	Code39	
	3	UPC	
	4	EAN	
	5	IL25	
	7	MSICode	
	8	Code93	
	9	Code128	
	10	Ean128	
	11	Pharma	
	12	Postnet	
	13	Code25Industrial	
	14	RSSCode	
	17	PDF417	
	20	MCZellweger	
	21	ZellwegerBarcode	
	22	AddonCode	
	23	JapanesePostal	
	24	C32	
	25	DataBar_14	
	26	DataBar_Limited	
	27	DataBar_Expanded	
uSquenceNumber			
	USInt		
	Value Range	0..255	
	Initialisation	0	
	Physical Unit		
	Physical Unit Factor	0.0	

Variable Telegram Syntax

Read Variable:				
`sRN vPBTeach1DynIn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	vPBTeach1DynIn	String	14	

Read Variable Response:				
`sRA vPBTeach1DynIn <szTeachInChars> <CodeLength> <CodeType> <uSquenceNumber>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	vPBTeach1DynIn	String	14	
Variable Data 1	szTeachInChars	Array	29	
Variable Data 2	CodeLength	Enum8	1	
Variable Data 3	CodeType	Enum8	1	
Variable Data 4	uSquenceNumber	USInt	1	

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Write Variable:				
sWN vPBTeach1DynIn <szTeachInChars> <CodeLength> <CodeType> <uSquenceNumber>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	vPBTeach1DynIn	String	14	
Variable Data 1	szTeachInChars	Array	29	
Variable Data 2	CodeLength	Enum8	1	
Variable Data 3	CodeType	Enum8	1	
Variable Data 4	uSquenceNumber	USInt	1	

Write Variable Response:				
sWA vPBTeach1DynIn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	vPBTeach1DynIn	String	14	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN vPBTeach1DynIn[ETX]
Read Variable Response:	[STX]sRA vPBTeach1DynIn 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 0 0 0[ETX]
Write Variable:	[STX]sWN vPBTeach1DynIn 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 0 0 0[ETX]
Write Variable Response:	[STX]sWA vPBTeach1DynIn[ETX]

2.26.3.8. Variable: vPBTeach2DynIn

The following section contains a detailed description of the variable vPBTeach2DynIn.

Variable Overview

Variable Name
vPBTeach2DynIn

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1375
Read-Access	Always
Write-Access	Always

Struct			
szTeachInChars			
	Array		
	Length		29
		UserType	
		Asci127_t	See the chapter "User Types" for details.

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Struct	
CodeLength	
Enum8	

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Struct				
		Value	Name	Description
		0	TX_ENUM_0	
		1	TX_ENUM_1	
		2	TX_ENUM_2	
		3	TX_ENUM_3	
		4	TX_ENUM_4	
		5	TX_ENUM_5	
		6	TX_ENUM_6	
		7	TX_ENUM_7	
		8	TX_ENUM_8	
		9	TX_ENUM_9	
		10	TX_ENUM_10	
		11	TX_ENUM_11	
		12	TX_ENUM_12	
		13	TX_ENUM_13	
		14	TX_ENUM_14	
		15	TX_ENUM_15	
		16	TX_ENUM_16	
		17	TX_ENUM_17	
		18	TX_ENUM_18	
		19	TX_ENUM_19	
		20	TX_ENUM_20	
		21	TX_ENUM_21	
		22	TX_ENUM_22	
		23	TX_ENUM_23	
		24	TX_ENUM_24	
		25	TX_ENUM_25	
		26	TX_ENUM_26	
		27	TX_ENUM_27	
		28	TX_ENUM_28	
		29	TX_ENUM_29	
		30	TX_ENUM_30	
		31	TX_ENUM_31	
		32	TX_ENUM_32	
		33	TX_ENUM_33	
		34	TX_ENUM_34	
		35	TX_ENUM_35	
		36	TX_ENUM_36	
		37	TX_ENUM_37	
		38	TX_ENUM_38	
		39	TX_ENUM_39	
		40	TX_ENUM_40	
		41	TX_ENUM_41	
		42	TX_ENUM_42	
		43	TX_ENUM_43	
		44	TX_ENUM_44	
		45	TX_ENUM_45	
		46	TX_ENUM_46	
		47	TX_ENUM_47	
		48	TX_ENUM_48	
		49	TX_ENUM_49	
		50	TX_ENUM_50	
		51	TX_ENUM_51	
		52	TX_ENUM_52	

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Struct				
		53	TX_ENUM_53	
		54	TX_ENUM_54	
		55	TX_ENUM_55	
		56	TX_ENUM_56	
		57	TX_ENUM_57	
		58	TX_ENUM_58	
		59	TX_ENUM_59	
		60	TX_ENUM_60	
		61	TX_ENUM_61	
		62	TX_ENUM_62	
		63	TX_ENUM_63	
		64	TX_ENUM_64	
		65	TX_ENUM_65	
		66	TX_ENUM_66	
		67	TX_ENUM_67	
		68	TX_ENUM_68	
		69	TX_ENUM_69	
		70	TX_ENUM_70	
		71	TX_ENUM_71	
		72	TX_ENUM_72	
		73	TX_ENUM_73	
		74	TX_ENUM_74	
		75	TX_ENUM_75	
		76	TX_ENUM_76	
		77	TX_ENUM_77	
		78	TX_ENUM_78	
		79	TX_ENUM_79	
		80	TX_ENUM_80	
		81	TX_ENUM_81	
		82	TX_ENUM_82	
		83	TX_ENUM_83	
		84	TX_ENUM_84	
		85	TX_ENUM_85	
		86	TX_ENUM_86	
		87	TX_ENUM_87	
		88	TX_ENUM_88	
		89	TX_ENUM_89	
		90	TX_ENUM_90	
		91	TX_ENUM_91	
		92	TX_ENUM_92	
		93	TX_ENUM_93	
		94	TX_ENUM_94	
		95	TX_ENUM_95	
		96	TX_ENUM_96	
		97	TX_ENUM_97	
		98	TX_ENUM_98	
		99	TX_ENUM_99	

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Struct			
CodeType			
	Enum8		
	Value	Name	Description
	0	TX_ENUM_0	
	1	Codabar	
	2	Code39	
	3	UPC	
	4	EAN	
	5	IL25	
	7	MSICode	
	8	Code93	
	9	Code128	
	10	Ean128	
	11	Pharma	
	12	Postnet	
	13	Code25Industrial	
	14	RSSCode	
	17	PDF417	
	20	MCZellweger	
	21	ZellwegerBarcode	
	22	AddonCode	
	23	JapanesePostal	
	24	C32	
	25	DataBar_14	
	26	DataBar_Limited	
	27	DataBar_Expanded	
uSquenceNumber			
	USInt		
	Value Range	0..255	
	Initialisation	0	
	Physical Unit		
	Physical Unit Factor	0.0	

Variable Telegram Syntax

Read Variable:				
`sRN vPBTeach2DynIn`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	vPBTeach2DynIn	String	14	

Read Variable Response:				
`sRA vPBTeach2DynIn <szTeachInChars> <CodeLength> <CodeType> <uSquenceNumber>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	vPBTeach2DynIn	String	14	
Variable Data 1	szTeachInChars	Array	29	
Variable Data 2	CodeLength	Enum8	1	
Variable Data 3	CodeType	Enum8	1	
Variable Data 4	uSquenceNumber	USInt	1	

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Write Variable:				
sWN vPBTeach2DynIn <szTeachInChars> <CodeLength> <CodeType> <uSquenceNumber>				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	vPBTeach2DynIn	String	14	
Variable Data 1	szTeachInChars	Array	29	
Variable Data 2	CodeLength	Enum8	1	
Variable Data 3	CodeType	Enum8	1	
Variable Data 4	uSquenceNumber	USInt	1	

Write Variable Response:				
sWA vPBTeach2DynIn				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	vPBTeach2DynIn	String	14	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN vPBTeach2DynIn[ETX]
Read Variable Response:	[STX]sRA vPBTeach2DynIn 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 0 0 0[ETX]
Write Variable:	[STX]sWN vPBTeach2DynIn 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 0 0 0[ETX]
Write Variable Response:	[STX]sWA vPBTeach2DynIn[ETX]

2.26.3.9. Variable: PBTeachIn1Out

The following section contains a detailed description of the variable PBTeachIn1Out.

Variable Overview

Variable Name
PBTeachIn1Out

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1376
Read-Access	Always
Write-Access	Always

USInt	
Value Range	0..255
Initialisation	255
Physical Unit	
Physical Unit Factor	0.0

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Variable Telegram Syntax

Read Variable:				
`sRN PBTeachIn1Out`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PBTeachIn1Out	String	13	

Read Variable Response:				
`sRA PBTeachIn1Out <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PBTeachIn1Out	String	13	
Variable Data	data	USInt	1	

Write Variable:				
`sWN PBTeachIn1Out <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PBTeachIn1Out	String	13	
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA PBTeachIn1Out`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PBTeachIn1Out	String	13	

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PBTeachIn1Out[ETX]`
Read Variable Response:	`[STX]sRA PBTeachIn1Out FF[ETX]`
Write Variable:	`[STX]sWN PBTeachIn1Out FF[ETX]`
Write Variable Response:	`[STX]sWA PBTeachIn1Out[ETX]`

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2.26.3.10. Variable: PBTeachIn2Out

The following section contains a detailed description of the variable PBTeachIn2Out.

Variable Overview

Variable Name
PBTeachIn2Out

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1377
Read-Access	Always
Write-Access	Always

USInt	
Value Range	0..255
Initialisation	255
Physical Unit	
Physical Unit Factor	0.0

Variable Telegram Syntax

Read Variable:				
`sRN PBTeachIn2Out`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	PBTeachIn2Out	String	13	

Read Variable Response:				
`sRA PBTeachIn2Out <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	PBTeachIn2Out	String	13	
Variable Data	data	USInt	1	

Write Variable:				
`sWN PBTeachIn2Out <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	PBTeachIn2Out	String	13	
Variable Data	data	USInt	1	

Write Variable Response:				
`sWA PBTeachIn2Out`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	PBTeachIn2Out	String	13	

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Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN PBTeachIn2Out[ETX]`
Read Variable Response:	`[STX]sRA PBTeachIn2Out FF[ETX]`
Write Variable:	`[STX]sWN PBTeachIn2Out FF[ETX]`
Write Variable Response:	`[STX]sWA PBTeachIn2Out[ETX]`

2.26.3.11. Method: ExecutePBCmd

The following section contains a detailed description of the method ExecutePBCmd.

Method Overview

Method Name	Description
ExecutePBCmd	Execute a command received via PB

Communication Name	mPBCMexecCmd
Sopas Index	153
Invocation Access	Always

Parameters			
CmdString			
	Array		
	Length		0..2080
		USInt	
		Value Range	0..255
		Initialisation	0
		Physical Unit	
		Physical Unit Factor	0.0

Return Values			
RespString			
	Array		
	Length		0..4094
		USInt	
		Value Range	0..255
		Initialisation	0
		Physical Unit	
		Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mPBCMexecCmd <CmdString>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mPBCMexecCmd	String	12	Execute a command received via PB
Parameter 1	CmdString	Array	2080	

Method Response:				
`sMA mPBCMexecCmd`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMA	String	3	Response (SOPAS Method Acknowledge)
Command	mPBCMexecCmd	String	12	Execute a command received via PB

Method Return Value:				
`sAN mPBCMexecCmd <RespString>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mPBCMexecCmd	String	12	Execute a command received via PB
Return Value 1	RespString	Array	4094	

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mPBCMexecCmd +0[ETX]`
Method Response:	`[STX]sMA mPBCMexecCmd[ETX]`
Method Return Value:	`[STX]sAN mPBCMexecCmd 0[ETX]`

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2.27. Interface Block: Files

2.27.1. Group: HKAViewer

2.27.1.1. Variable: HKAFileRefreshRunning

The following section contains a detailed description of the variable HKAFileRefreshRunning.

Variable Overview

Variable Name	Description
HKAFileRefreshRunning	Is enabled when a hka file refreshing is currenlty running

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1378
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN HKAFileRefreshRunning
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	HKAFileRefreshRunning	String	21	Is enabled when a hka file refreshing is currenlty running

Read Variable Response:

```
sRA HKAFileRefreshRunning <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	HKAFileRefreshRunning	String	21	Is enabled when a hka file refreshing is currenlty running
Variable Data	data	Bool	1	

Write Variable:

```
sWN HKAFileRefreshRunning <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	HKAFileRefreshRunning	String	21	Is enabled when a hka file refreshing is currenlty running
Variable Data	data	Bool	1	

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Write Variable Response:				
`sWA HKAFileRefreshRunning`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	HKAFileRefreshRunning	String	21	Is enabled when a hka file refreshing is currenlty running

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN HKAFileRefreshRunning[ETX]`
Read Variable Response:	`[STX]sRA HKAFileRefreshRunning 0[ETX]`
Write Variable:	`[STX]sWN HKAFileRefreshRunning 0[ETX]`
Write Variable Response:	`[STX]sWA HKAFileRefreshRunning[ETX]`

2.27.1.2. Variable: HKAFileRefreshToggle

The following section contains a detailed description of the variable HKAFileRefreshToggle.

Variable Overview

Variable Name	Description
HKAFileRefreshToggle	Switch to signal that a new hka file is written and now available

Sopas Synchronisation	Variable is relevant for synchronisation with SOPAS ET.
Sopas Index	1379
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN HKAFileRefreshToggle`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	HKAFileRefreshToggle	String	20	Switch to signal that a new hka file is written and now available

Read Variable Response:				
`sRA HKAFileRefreshToggle <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	HKAFileRefreshToggle	String	20	Switch to signal that a new hka file is written and now available
Variable Data	data	Bool	1	

Write Variable:				
`sWN HKAFileRefreshToggle <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	HKAFileRefreshToggle	String	20	Switch to signal that a new hka file is written and now available
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA HKAFileRefreshToggle`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	HKAFileRefreshToggle	String	20	Switch to signal that a new hka file is written and now available

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN HKAFileRefreshToggle[ETX]`
Read Variable Response:	`[STX]sRA HKAFileRefreshToggle 0[ETX]`
Write Variable:	`[STX]sWN HKAFileRefreshToggle 0[ETX]`
Write Variable Response:	`[STX]sWA HKAFileRefreshToggle[ETX]`

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2.27.1.3. Method: HKAFileRefresh62x64x

The following section contains a detailed description of the method HKAFileRefresh62x64x.

Method Overview

Method Name	Description
HKAFileRefresh62x64x	measures video amplitude (HKA) for 62x64x and writes to a file

Communication Name	mHKAFileRefresh62x64x
Sopas Index	154
Invocation Access	Always

Parameters			
CoordSystem			
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_CARTESIAN_COORDS	
	1	TX_POLAR_COORDS	
DistanceToObjectCartesian		Distance from device front edge. Ignored if coordSystem = polar	
	UInt		
	Value Range	10..999	
	Initialisation	280	
	Physical Unit		
	Physical Unit Factor	0.0	
CodeHightCartesian		Distance from CP50 to the center of the eval region. Negative values to CP100. Ignored if coordSystem = polar	
	Int		
	Value Range	-999..999	
	Initialisation	0	
	Physical Unit		
	Physical Unit Factor	0.0	
DistanceToObjectPolar		Distance from virtual scan axis. Ignored if coordSystem = cartesian	
	UInt		
	Value Range	10..999	
	Initialisation	280	
	Physical Unit		
	Physical Unit Factor	0.0	
CPPolar		Angle to center of eval position in per cent. Ignored if coordSystem = cartesian	
	UInt		
	Value Range	0..100	
	Initialisation	50	
	Physical Unit		
	Physical Unit Factor	0.0	
EvalWidth		Size of the region to evaluate.	
	UInt		
	Value Range	10..200	
	Initialisation	50	
	Physical Unit		
	Physical Unit Factor	0.0	

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Parameters			
NumberOfScansPerFacet		Number of Scans for each facet. Max number of scans = 64 * NumberOfScansPerFacet.	
	UInt		
	Value Range	1..10	
	Initialisation	1	
	Physical Unit		
	Physical Unit Factor	0.0	
LaserOn		TRUE: no effect. FALSE: Laser switched of during measurement to get offet value.	
	Bool		
	Value Range	False, True	
	Initialisation	True	
Traces		Defines how many information will be traced after measurement	
	Enum8		
	Default Value	0	
	Value	Name	Description
	0	TX_NO_TRACES	no traces will be sent.
	1	TX_ONLY_STATISTICS	statistic data will be sent via MStrace event.
	2	TX_ONLY_RAWTABLE	table with raw data will be sent via MStrace event. Warning: too much traces will delay results!
	3	TX_STATISTICS_AND_RAWTABLE	all data will be sent via MStrace event. Warning: too much traces will delay results!
Password			
	String		
	Length	5	
	Initialisation		

Return Values		
DistanceToObjectCartesian		calculated if coordSystem = polar
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
HightCartesian		calculated if coordSystem = polar
	Int	
	Value Range	-32768..32767
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
DistanceToObjectPolar		calculated if coordSystem = cartesian
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

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Return Values		
CPPolar		calculated if coordSystem = cartesian
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
EvalWidth		as given
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
NumberOfScansPerFacet		as given
	UInt	
	Value Range	0..65535
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0
LaserOn		as given
	Bool	
	Value Range	False, True
	Initialisation	True
AmplVals		values: [facet1_min, facet1_max, facet1_mean, ..., facet8_mean, avg_min, AVG_MAX, avg_mean]. For EA-measurement used value: AVG_MAX
	Array	
	Length	27
	Real	
	Value Range	See specification IEEE 754
	Initialisation	
	Physical Unit	
	Physical Unit Factor	0.0

Method Telegram Syntax

Method Invocation:

```
sMN mHKAFileRefresh62x64x <CoordSystem> <DistanceToObjectCartesian> <CodeHightCartesian>
<DistanceToObjectPolar> <CPPolar> <EvalWidth> <NumberOfScansPerFacet> <LaserOn> <Traces> <Password>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mHKAFileRefresh62x64x	String	21	measures video amplitude (HKA) for 62x64x and writes to a file
Parameter 1	CoordSystem	Enum8	1	
Parameter 2	DistanceToObjectCartesian	UInt	2	Distance from device front edge. Ignored if coordSystem = polar
Parameter 3	CodeHightCartesian	Int	2	Distance from CP50 to the center of the eval region. Negative values to CP100. Ignored if coordSystem = polar
Parameter 4	DistanceToObjectPolar	UInt	2	Distance from virtual scan axis. Ignored if coordSystem = cartesian
Parameter 5	CPPolar	UInt	2	Angle to center of eval position in per cent. Ignored if coordSystem = cartesian
Parameter 6	EvalWidth	UInt	2	Size of the region to evaluate.

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Method Invocation:
sMN mHKAFileRefresh62x64x <CoordSystem> <DistanceToObjectCartesian> <CodeHightCartesian> <DistanceToObjectPolar> <CPPolar> <EvalWidth> <NumberOfScansPerFacet> <LaserOn> <Traces> <Password>

Telegram Part	Telegram	Type	Length [Byte]	Description
Parameter 7	NumberOfScansPerFacet	UInt	2	Number of Scans for each facet. Max number of scans = 64 * NumberOfScansPerFacet.
Parameter 8	LaserOn	Bool	1	TRUE: no effect. FALSE: Laser switched of during measurement to get offet value.
Parameter 9	Traces	Enum8	1	Defines how many information will be traced after measurement
Parameter 10	Password	String	5	

Method Return Value:
sAN mHKAFileRefresh62x64x <DistanceToObjectCartesian> <HightCartesian> <DistanceToObjectPolar> <CPPolar> <EvalWidth> <NumberOfScansPerFacet> <LaserOn> <AmplVals>

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mHKAFileRefresh62x64x	String	21	measures video amplitude (HKA) for 62x64x and writes to a file
Return Value 1	DistanceToObjectCartesian	UInt	2	calculated if coordSystem = polar
Return Value 2	HightCartesian	Int	2	calculated if coordSystem = polar
Return Value 3	DistanceToObjectPolar	UInt	2	calculated if coordSystem = cartesian
Return Value 4	CPPolar	UInt	2	calculated if coordSystem = cartesian
Return Value 5	EvalWidth	UInt	2	as given
Return Value 6	NumberOfScansPerFacet	UInt	2	as given
Return Value 7	LaserOn	Bool	1	as given
Return Value 8	AmplVals	Array	108	values: [facet1_min, facet1_max, facet1_mean, ..., facet8_mean, avg_min, AVG_MAX, avg_mean]. For EA-measurement used value: AVG_MAX

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	[STX]sMN mHKAFileRefresh62x64x 0 118 +0 118 32 32 1 1 0 [ETX]
Method Return Value:	[STX]sAN mHKAFileRefresh62x64x 0 0 0 0 0 0 1 00000000 00000000 00000000

2.27.1.4. Method: HKAFileRefresh65x

The following section contains a detailed description of the method HKAFileRefresh65x.

Method Overview

Method Name	Description
HKAFileRefresh65x	measures video amplitude (HKA) for 65x and writes to a file

Communication Name	mHKAFileRefresh65x
Sopas Index	155
Invocation Access	Always

Parameters		
DataMux		DataMux Setting of the fpga
	UInt	
	Value Range	2..6
	Initialisation	3
	Physical Unit	
	Physical Unit Factor	0.0
Facets		the number of facettes which are recorded
	UInt	
	Value Range	1..7
	Initialisation	1
	Physical Unit	
	Physical Unit Factor	0.0
CPStart		CP start value
	Real	
	Value Range	See specification IEEE 754 0.0..100.0
	Initialisation	50.0
	Physical Unit	
	Physical Unit Factor	0.0
MaxNumberOfValues		Max Number of Values which should be recorded
	UInt	
	Value Range	100..8192
	Initialisation	8192
	Physical Unit	
	Physical Unit Factor	0.0
ValueStep		Value Step. greater than 1 if you want to interleave codes
	UInt	
	Value Range	1..100
	Initialisation	1
	Physical Unit	
	Physical Unit Factor	0.0
Password		
	String	
	Length	5
	Initialisation	

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Return Values	
DataMux	Last used DataMux Setting of the fpga
UInt	
Value Range	2..6
Initialisation	3
Physical Unit	
Physical Unit Factor	0.0
Facets	Last used the number of facettes which are recorded
UInt	
Value Range	1..7
Initialisation	7
Physical Unit	
Physical Unit Factor	0.0
CPStart	Last used hor start value
Real	
Value Range	See specification IEEE 754 0.0..100.0
Initialisation	50.0
Physical Unit	
Physical Unit Factor	0.0
MaxNumberOfValues	Last used Max Number of Values which should be recorded
UInt	
Value Range	100..8192
Initialisation	8192
Physical Unit	
Physical Unit Factor	0.0
ValueStep	Last used Value Step. greater than 1 if you want to interleave codes
UInt	
Value Range	1..100
Initialisation	1
Physical Unit	
Physical Unit Factor	0.0
ScanFrequency	Last used Scan Frequency
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0
FocusPosition	Last used FocusPosition
UInt	
Value Range	0..65535
Initialisation	
Physical Unit	
Physical Unit Factor	0.0

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Method Telegram Syntax

Method Invocation:				
`sMN mHKAFileRefresh65x <DataMux> <Facets> <CPStart> <MaxNumberOfValues> <ValueStep> <Password>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mHKAFileRefresh65x	String	18	measures video amplitude (HKA) for 65x and writes to a file
Parameter 1	DataMux	UInt	2	DataMux Setting of the fpga
Parameter 2	Facets	UInt	2	the number of facettes which are recorded
Parameter 3	CPStart	Real	4	CP start value
Parameter 4	MaxNumberOfValues	UInt	2	Max Number of Values which should be recorded
Parameter 5	ValueStep	UInt	2	Value Step. greater than 1 if you want to interleave codes
Parameter 6	Password	String	5	

Method Return Value:				
`sAN mHKAFileRefresh65x <DataMux> <Facets> <CPStart> <MaxNumberOfValues> <ValueStep> <ScanFrequency> <FocusPosition>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mHKAFileRefresh65x	String	18	measures video amplitude (HKA) for 65x and writes to a file
Return Value 1	DataMux	UInt	2	Last used DataMux Setting of the fpga
Return Value 2	Facets	UInt	2	Last used the number of facettes which are recorded
Return Value 3	CPStart	Real	4	Last used hor start value
Return Value 4	MaxNumberOfValues	UInt	2	Last used Max Number of Values which should be recorded
Return Value 5	ValueStep	UInt	2	Last used Value Step. greater than 1 if you want to interleave codes
Return Value 6	ScanFrequency	UInt	2	Last used Scan Frequency
Return Value 7	FocusPosition	UInt	2	Last used FocusPosition

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mHKAFileRefresh65x 3 1 +50.0 2000 1 [ETX]`
Method Return Value:	`[STX]sAN mHKAFileRefresh65x 3 7 42480000 2000 1 0 0[ETX]`

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2.27.2. Group: TempHistoryViewer

2.27.2.1. Variable: TempFileRefreshRunning

The following section contains a detailed description of the variable TempFileRefreshRunning.

Variable Overview

Variable Name	Description
TempFileRefreshRunning	Is enabled when a temperature file refreshing is currenlty running

Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1380
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

Variable Telegram Syntax

Read Variable:

```
sRN TempFileRefreshRunning
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TempFileRefreshRunning	String	22	Is enabled when a temperature file refreshing is currenlty running

Read Variable Response:

```
sRA TempFileRefreshRunning <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TempFileRefreshRunning	String	22	Is enabled when a temperature file refreshing is currenlty running
Variable Data	data	Bool	1	

Write Variable:

```
sWN TempFileRefreshRunning <data>
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TempFileRefreshRunning	String	22	Is enabled when a temperature file refreshing is currenlty running
Variable Data	data	Bool	1	

Write Variable Response:

```
sWA TempFileRefreshRunning
```

Telegram Part	Telegram	Type	Length [Byte]	Description
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge

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Write Variable Response:				
sWA TempFileRefreshRunning				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command	TempFileRefreshRunning	String	22	Is enabled when a temperature file refreshing is currenlty running

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	[STX]sRN TempFileRefreshRunning[ETX]
Read Variable Response:	[STX]sRA TempFileRefreshRunning 0[ETX]
Write Variable:	[STX]sWN TempFileRefreshRunning 0[ETX]
Write Variable Response:	[STX]sWA TempFileRefreshRunning[ETX]

2.27.2.2. Variable: TempFileRefreshToggle

The following section contains a detailed description of the variable TempFileRefreshToggle.

Variable Overview

Variable Name	Description
TempFileRefreshToggle	Switch to signal that a new temperature file is written and now available

Sopas Synchronisation	Variable is not relevant for synchronisation with SOPAS ET.
Sopas Index	1381
Read-Access	Always
Write-Access	Always

Bool	
Value Range	False, True
Initialisation	False

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Variable Telegram Syntax

Read Variable:				
`sRN TempFileRefreshToggle`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRN	String	3	Read SOPAS Variable by Name
Command	TempFileRefreshToggle	String	21	Switch to signal that a new temperature file is written and now available

Read Variable Response:				
`sRA TempFileRefreshToggle <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sRA	String	3	SOPAS Variable Read Acknowledge
Command	TempFileRefreshToggle	String	21	Switch to signal that a new temperature file is written and now available
Variable Data	data	Bool	1	

Write Variable:				
`sWN TempFileRefreshToggle <data>`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWN	String	3	Write SOPAS Variable by Name
Command	TempFileRefreshToggle	String	21	Switch to signal that a new temperature file is written and now available
Variable Data	data	Bool	1	

Write Variable Response:				
`sWA TempFileRefreshToggle`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sWA	String	3	SOPAS Variable Write Acknowledge
Command	TempFileRefreshToggle	String	21	Switch to signal that a new temperature file is written and now available

Variable Telegram Examples

Example: Default Values	
Variable telegram examples with data set to default values.	
Read Variable:	`[STX]sRN TempFileRefreshToggle[ETX]`
Read Variable Response:	`[STX]sRA TempFileRefreshToggle 0[ETX]`
Write Variable:	`[STX]sWN TempFileRefreshToggle 0[ETX]`
Write Variable Response:	`[STX]sWA TempFileRefreshToggle[ETX]`

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2.27.2.3. Method: TempFileRefresh

The following section contains a detailed description of the method TempFileRefresh.

Method Overview

Method Name	Description
TempFileRefresh	reads temperature history values and writes to a file

Communication Name	mTempFileRefresh
Sopas Index	156
Invocation Access	Always

Method Telegram Syntax

Method Invocation:				
`sMN mTempFileRefresh`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sMN	String	3	Request (SOPAS Method by Name)
Command	mTempFileRefresh	String	16	reads temperature history values and writes to a file

Method Return Value:				
`sAN mTempFileRefresh`				
Telegram Part	**Telegram**	**Type**	**Length [Byte]**	**Description**
Command Type	sAN	String	3	Result (SOPAS Method Result)
Command	mTempFileRefresh	String	16	reads temperature history values and writes to a file

Method Telegram Examples

Example: Default Values	
Method telegram examples with parameter data and return value data set to default values.	
Method Invocation:	`[STX]sMN mTempFileRefresh[ETX]`
Method Return Value:	`[STX]sAN mTempFileRefresh[ETX]`

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