MOST

Media Oriented Systems Transport

Multimedia and Control Networking Technology

MOST FunctionBlock NetBlock Rev 2.5.0 12/2006





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SUPPORT AND FURTHER INFORMATION

For more information on the MOST technology, please contact:

MOST Cooperation

Administration Bannwaldallee 48 D-76185 Karlsruhe Germany

Tel: (+49) (0) 721 966 50 00 Fax:(+49) (0) 721 966 50 01

E-mail: contact@mostcooperation.com
Web: www.mostcooperation.com





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References

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I	[1]	MOST Specification 2V5

Bibliography MOST Function CatalogThis is a list of released FunctionBlocks at the release time of this specification. FBlocks which are released later are not reflected in this list.

FBlockID	FunctionBlock
-	GeneralFBlock
-	GeneralPlayer
0x01	NetBlock
0x02	NetworkMaster
0x03	ConnectionMaster
0x06	Diagnosis
0x0F	Enhanced Testability
0x22	AudioAmplifier
0x24	Auxin
0x26	MicrophoneInput
0x30	AudioTapePlayer
0x31	AudioDiskPlayer
0x34	DVDVideoPlayer
0x40	AmFmTuner
0x41	TMCTuner
0x42	TVTuner
0x43	DABTuner
0x44	SDARS
0x50	Telephone
0x51	GeneralPhoneBook
0x60	GraphicDisplay
-	Unique Functions



NetBlock FBlock (0x01) Change History

Changes NetBlock FBlock 2.4 to NetBlock FBlock 2.5.0

Change Ref.	FktID	Changes
2.5-001	General	- Minor corrections in spelling and use of MOST terminology.
	000.0.	- Replaced terms synchronous/asynchronous with streaming/packet data in descriptions.
		- Unified use of RxTxLog to match the MOST specification.
		- Amended XML storage format with new Function Classes, data types and units.
2.5-002	0x001	- Added reference to ISO 14230 to description.
		- Added note on use of ranges for system specific values (0xC00xEF) and supplier specific values (0xF00xFF).
		- Changed description for DeviceInfo 0xA0 NetServicesRevision from BCD to HEX.
		- Added 0x07 CapabilityToWake.
		- Added 0xAD WakeInfo.
		- Added 0xB0 ConnectorSupplier.
		- Added 0xB1 ConnectorPartNumber.
		- Added 0xB2 Connector Revision.
		- Added 0xB3 FOTSupplier.
		- Added 0xB4 FOTPartNumber.
		- Added 0xB5 FOTRevision.
		- Added 0xB6 ePhyPeripherals.
		- Added 0xB7 ePhyPeripheralsRevision.
		- Added 0xB8 ControllerSupplier.
		- Added 0xB9 ControllerPartNumber.
		- Added 0xBA ControllerRevision.
2.5-003	0x005	- Renamed AbilityToWake to PermissionToWake.
2.5-004	0x010	- Added function Version.

Changes NetBlock FBlock 2.3.3 to NetBlock FBlock 2.4

Change Ref.	FktID	Changes			
2.4-001	0x000	- Parameter InstID not optional.			
2.4-002	0x000	- Changed all parameters to optional in FBlockIDlist.			
2.4-003	0x001	- Changed description for ID 0x820x87 to reserved.			
2.4-004	0x001	· Changed MOSTVersion to VVMMYY.			
2.4-005	0x003	- Removed incorrect descriptions.			
	0x004				
2.4-006	0x004	- Operation Set added to GroupAddress.			
2.4-007	0x005	Operation Set added to AbilityToWake.			
2.4-008	0x006	- Added DeviceShutdown and WakeFromDeviceShutdown.			
2.4-009	0x006	- Renamed parameter Suspend to Control.			
2.4-010	0xA03	- Added function Boundary and changed description.			





Changes NetBlock FBlock 2.3.2 to NetBlock FBlock 2.3.3

Change Ref.	FktID	Changes		
2.3.3-001	0x001	- Changed NetservicesRevision length from 0x03 to 0x04		
2.3.3-002	0x002	- Changed valid range for parameter NodePositionAddress.		
2.3.3-003	0x003	- Changed valid range for parameter NodeAddress .		
2.3.3-004	0x007	- Changed valid range for parameters RetryNumbers and RetryTime.		
2.3.3-005	0x100	- Parameter FBlockID changed to Handle.		

Changes NetBlock FBlock 2.3.1 to NetBlock FBlock 2.3.2

Change Ref.	FktID	Changes	
2.3.2-001	0x402	- Changed description of parameter FktlDList.	



1 Introduction

A MOST Function Catalog is a collection of MOST function blocks (FBlocks).

This document contains the specification of an FBlock. MOST FBlocks are standardized and maintained by MOST workgroup Device Architecture (WG_DA). In order to speed up the process of making new FBlocks available, every FBlock will be updated individually as required.

2 FBlock Definition

2.1 NetBlock (FBlockID=0x01)

The NetBlock provides functions that affect a whole device. Each device has to contain the FBlock NetBlock.

Function	Function Overview					
FktID	Name	Section Type				
0x000	<u>FBlockIDs</u>	Coordination				
0x001	<u>DeviceInfo</u>	Coordination				
0x002	<u>NodePositionAddress</u>	Coordination				
0x003	<u>NodeAddress</u>	Coordination				
0x004	GroupAddress	Coordination				
0x005	<u>PermissionToWake</u>	Coordination				
0x006	ShutDown	Coordination				
0x007	RetryParameters	Coordination				
800x0	Sampling Frequency	Coordination				
0x010	Version	Coordination				
0x100	SourceHandles	Coordination				
0x401	Notification	Extension				
0x402	NotificationCheck	Extension				
0xA03	Boundary	Unique				



2.1.1 FBlockIDs (0x000)

Section type: Coordination

Property for querying the FBlocks that are implemented in a device and for setting the InstID.

2.1.1.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	FBlockIDs (0x000)	Get	-
		SetGet	FBlockID, OldInstID, NewInstID
		Status	FBlockIDList
		Error	ErrorCode, ErrorInfo

2.1.1.2 Parameter

FBlockID

Functional address of an FBlock.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Byte	0		1	none

NewInstID

New InstID for the FBlock that is identified by FBlockID.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Byte	0		1	none

OldInstID

Old InstID of the FBlock that is identified by FBlockID.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0		1	none

FBlockIDList

List of FBlockID/InstID pairs for the FBlocks that are implemented in the device.

Basis datatype	Length	Description
Stream		{FBlockID1, InstID1, FBlockID2, InstID2,}



InstID

Distinction of identical FBlocks in a system.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0		1	none

2.1.2 DeviceInfo (0x001)

Section type: Coordination

Access to same information as provided by KWP2000-service "ReadECUIdentification" and some part of KWP2000-service "ReadDataByLocalIdentifier", as well as MOST specific information. Each item is tagged as being either mandatory, optional, or obsolete.

The value range between 0xC0 and 0xEF is used for system specific definitions. The value range between 0xF0 and 0xFF is used for supplier specific definitions.

Note: For details on KWP2000, refer to ISO standard 14230.

2.1.2.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	DeviceInfo (0x001)	Get	ID
		Status	ID, Description
		Error	ErrorCode, ErrorInfo

2.1.2.2 Parameter

ID

A particular information item can be chosen by the parameter ID.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Byte	0	0175	1	none

Description

The information that is to be queried or set through parameter ID.

Basis datatype	Length	Description		
Stream	29	Streamcase	Description	
		PosX=ID, PosY=0x00	Content: CompanyName	
			Classification: optional.	
		PosX=ID, PosY=0x01	Content: ProductName	
			Classification: optional.	
		PosX=ID, PosY=0x02	Content: ProductVersion	
			Classification: optional.	
		PosX=ID, PosY=0x03	Content: ProductSerialNumber	
			Classification: optional.	



Basis datatype	Length		Description
Basis datatype	Longin	PosX=ID, PosY=0x04	Content: ProductDescription
		1 03/1=15,1 031=0/04	Classification: optional.
		PosX=ID, PosY=0x05	Content: LegalCopyright
		F05X=1D, F051=0X05	
		Dooy ID Dooy 0v00	Classification: optional.
		PosX=ID, PosY=0x06	Content: LegalTrademarks
		D V ID D V 0 07	Classification: optional.
		PosX=ID, PosY=0x07	Content: CapabilityToWake
		D 1/ 1D D 1/ 0 00	Classification: mandatory.
		PosX=ID, PosY=0x20	Content: MostTransceiverVersion
		PosX=ID, PosY=0x21	Classification: optional. Content: MostNetservicesVersion
		POSA=ID, POST=0X21	Classification: optional.
		PosX=ID, PosY=0x22	Content: MostNetservicesRevision
		PUSA=ID, PUST=UX22	Classification: optional.
		PosX=ID, PosY=0x80	Content: ECUIdentificationDataTable
		PUSA=ID, PUST=UXOU	Classification: optional.
		PosX=ID, PosY=0x81	Content: ECUIdentificationScalingTable
		1 03/1-10,1 031=0301	Classification: obsolete.
		PosX=ID,	Content:
		PosY=0x820x87	Reserved.
		PosX=ID, PosY=0x88	Content: changeIndex
		. 557(-15, 1 651 - 6700	Classification: obsolete.
		PosX=ID, PosY=0x89	Content: systemSupplierECUSerialNumber
			Classification: optional.
		PosX=ID,	Content:
		PosY=0x8A0x8F	System supplier specific information.
			Classification: optional.
		PosX=ID, PosY=0x90	Content: VIN
			Classification: obsolete.
		PosX=ID, PosY=0x91	Content:
			vehicleManufacturerECUHardwareNumber
			Classification: optional.
		PosX=ID, PosY=0x92	Content:
			systemSupplierECUHardwareNumber
			Classification: obsolete.
		PosX=ID, PosY=0x93	Content:
			systemSupplierECUHardwareVersion
			Number
		DeeV ID DeeV 0: 04	Classification: obsolete.
		PosX=ID, PosY=0x94	Content:
			systemSupplierECUSoftwareNumber Classification: obsolete.
		PosX=ID, PosY=0x95	Content:
		1 03/1-10,1 031=0.890	systemSupplierECUSoftwareVersion
			Number
			Classification: obsolete.
		PosX=ID, PosY=0x96	Content:
			exhaustRegulationOrTypeApprovalNumber
			Classification: obsolete.
		PosX=ID, PosY=0x97	Content: systemNameOrEngineType
			Classification: obsolete.
		PosX=ID, PosY=0x98	Content:
			repairShopCodeOrTesterSerialNumber
		- V I	Classification: obsolete.
		PosX=ID, PosY=0x99	Content: ProgrammingDate
			Classification: optional.



Basis datatype	Length		Description
		PosX=ID, PosY=0x9A	Content:
		,	vehicleManufacturerECUHardwareVersion
			Number
			Classification: optional.
		PosX=ID, PosY=0x9B	Content: vehicleManufacturerCodingIndex
		,	Classification: optional.
		PosX=ID, PosY=0x9C	Content:
			vehicleManufacturerDiagnosticIndex
			Classification: obsolete.
		PosX=ID, PosY=0x9D	Content: dateOfECUManufacturing
			Classification: obsolete.
		PosX=ID, PosY=0x9E	Content: systemSupplierIndex
			Classification: obsolete.
		PosX=ID, PosY=0x9F	Content:
			vehicleManufECUSoftwareLayerVersion
			Numbers
			Classification: obsolete.
		PosX=ID, PosY=0xA0	Content: MOSTVersion
			Classification: optional.
		PosX=ID, PosY=0xAD	Content: WakeInfo
			Classification: optional.
		PosX=ID, PosY=0xAE	Content: MOSTConfigurationSwitch
		Dark ID Dark Out	Classification: optional.
		PosX=ID, PosY=0xAF	Content: OpticalTransmitPowSwitch
		PosX=ID, PosY=0xB0	Classification: optional. Content: ConnectorSupplier
		PUSA=ID, PUST=UXDU	Classification: optional.
		PosX=ID, PosY=0xB1	Content: ConnectorPartNumber
		1 03%=10, 1 031=0%01	Classification: optional.
		PosX=ID, PosY=0xB2	Content: ConnectorRevision
			Classification: optional.
		PosX=ID, PosY=0xB3	Content: FOTSupplier
		,	Classification: optional.
		PosX=ID, PosY=0xB4	Content: FOTPartNumber
		·	Classification: optional.
		PosX=ID, PosY=0xB5	Content: FOTRevision
			Classification: optional.
		PosX=ID, PosY=0xB6	Content: ePhyPeripherals
			Classification: optional.
		PosX=ID, PosY=0xB7	Content: ePhyPeripheralsRevision
			Classification: optional.
		PosX=ID, PosY=0xB8	Content: ControllerSupplier
			Classification: optional.
		PosX=ID, PosY=0xB9	Content: ControllerPartNumber
		- V IS - V	Classification: optional.
		PosX=ID, PosY=0xBA	Content: ControllerRevision
			Classification: optional.

CompanyName

Basis datatype	MaxSize
String	#NULL#

ProductName

Basis datatype	MaxSize
String	#NULL#



ProductVersion

Basis datatype	MaxSize
String	#NULL#

ProductSerialNumber

Basis datatype	MaxSize
String	#NULL#

ProductDescription

Basis datatype	MaxSize
String	#NULL#

LegalCopyright

Basis datatype	MaxSize
String	#NULL#

LegalTrademarks

Basis datatype	MaxSize
String	#NULL#

CapabilityToWake

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	True	HasCapabilityToWake
		False	NoCapabilityToWake

MostTransceiverVersion

Basis datatype	MaxSize
String	#NULL#

MostNetservicesVersion

Basis datatype	MaxSize
String	#NULL#

MostNetservicesRevision

Basis datatype	MaxSize
String	#NULL#



ECUIdentificationDataTable

ECU identification Table

ECUIdentificationDataTable ::= vehicleManufacturerECUHardwareNumber, vehicleManufacturerECUHardwareVersionNumber, vehicleManufacturerECUCodingIndex, vehicleManufacturerECUDiagnosticIndex, systemName, dateOfECUManufacturing, systemSupplierIndex, vehicleManufECUSoftwareLayerVersionNumbers

Basis datatype	Length	Description
Stream	29	

ECUIdentificationScalingTable

ECU identification scaling table.

Basis datatype	Length	Description
Stream	29	

changeIndex

Drawing change index.

Basis datatype	Length	Description
Stream	2	

systemSupplierECUSerialNumber

System supplier ECU serial number.

Basis datatype	Length	Description
Stream	9	

VIN

Last seven digits of the long 17-digit vehicle identification number.

Basis datatype	Length	Description
Stream	7	

vehicleManufacturerECUHardwareNumber

Part number.

Basis datatype	Length	Description
Stream	18	



systemSupplierECUHardwareNumber

System supplier ECU hardware number.

Basis datatype	Length	Description
Stream	29	

systemSupplierECUHardwareVersionNumber

Hardware version number.

Basis datatype	Length	Description
Stream	29	

systemSupplierECUSoftwareNumber

System supplier ECU software number.

Basis datatype	Length	Description
Stream	29	

systemSupplierECUSoftwareVersionNumber

System supplier ECU software version number.

Basis datatype	Length	Description
Stream	29	

exhaust Regulation Or Type Approval Number

Exhaust regulation or type approval number.

Basis datatype	Length	Description
Stream	6	

systemNameOrEngineType

System name.

Basis datatype	Length	Description
Stream	2	

repairShopCodeOrTesterSerialNumber

Repair shop code or the tester's serial number.

Basis datatype	Length	Description
Stream	8	



ProgrammingDate

Current programming date.

Basis datatype	Length	Description
Stream	4	

vehicleManufacturerECUHardwareVersionNumber

Vehicle manufacturer ECU hardware version number.

Basis datatype	Length	Description
Stream	1	

vehicleManufacturerCodingIndex

Vehicle manufacturer coding index.

Basis datatype	Length	Description
Stream	1	

vehicleManufacturerDiagnosticIndex

Vehicle manufacturer diagnostic index.

Basis datatype	Length	Description
Stream	2	

dateOfECUManufacturing

Date of ECU manufacturing.

Basis datatype	Length	Description
Stream	4	

systemSupplierIndex

System supplier index.

Basis datatype	Length	Description
Stream	1	





vehicleManufECUSoftwareLayerVersionNumbers

Four independent vehicle manufacturer ECU software layer version numbers:

- message catalog version
- functional software version
- · operating system version
- reserved (currently unused)

Basis datatype	Length	Description
Stream	12	

MOSTVersion

Version of transceiver and NetServices.

MOSTVersion:= TransceiversVersion.NetservicesVersion.NetservicesRevision

- TransceiversVersion (3 bytes):= VVMMYY (Version.Month.Year, BCD coded number)
- NetservicesVersion (3 bytes):= MMSSBB (MainVersion.SubVersion.BuildInfo, BCD coded number, e.g., 01.09.08)
- NetservicesRevision (4 bytes):= X1X2X3X4
 (Corresponds to the first 8 characters of your "CustomerID", which can be found in each header of MOST NetServices files, HEX coded number)

Basis datatype	Length	Description
Stream	10	

WakeInfo

Indicates whether a device has woken the network itself (internal wakeup) or was woken by reception of a modulated signal on its input (external wakeup).

WakeInfo consists of 2 bytes: Byte 0 determines the WakeStatus. Byte 1 is reserved.

Basis datatype	Length	Description
Stream	2	WakeStatus, Reserved

WakeStatus

For Byte 0 of WakeInfo the following values are defined:

- 0x00 not initialized
- 0x01 internal wakeup
- 0x02 external wakeup

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	full range	1	none



Reserved

Byte 1 of WakeInfo is reserved.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	full range	1	none

MOSTConfigurationSwitch

Control of switching between core and complete ring.

- Bit0 = 0 (core ring)
- Bit0 = 1 (complete ring).

Basis datatype	Length	Description
Stream	1	

OpticalTransmitPowSwitch

For simple debugging purposes, this property shows the power state of the individual optical transmitters. Each transmitter is represented by one bit which shows whether the power is reduced or not.

Example:

- Device with a second MOST-ring Bit0 (LSB) = 0: Power of Transmitter 1 is not reduced
- Bit0 = 1: Power of Transmitter 1 is reduced
- Bit1 = 0: Power of Transmitter 2 is not reduced
- Bit1 = 1: Power of Transmitter 2 is reduced

Basis datatype	Length	Description
Stream	1	

ConnectorSupplier

Supplier of the connector hardware.

Basis datatype	MaxSize
String	#NULL#

ConnectorPartNumber

Part number of the connector hardware.

Basis datatype	MaxSize
String	#NULL#



ConnectorRevision

Revision of the connector hardware.

Basis datatype	MaxSize
String	#NULL#

FOTSupplier

Supplier of the FOT hardware if an optical physical layer is used.

Basis datatype	MaxSize
String	#NULL#

FOTPartNumber

Part number of the FOT hardware if an optical physical layer is used.

Basis datatype	MaxSize
String	#NULL#

FOTRevision

Revision of the FOT hardware if an optical physical layer is used.

Basis datatype	MaxSize
String	#NULL#

ePhyPeripherals

Definition of the hardware components if an electrical physical layer is used.

Basis datatype	MaxSize
String	#NULL#

ePhyPeripheralsRevision

Revision of the hardware components if an electrical physical layer is used.

Basis datatype	MaxSize
String	#NULL#

ControllerSupplier

Supplier of the MOST controller.

Basis datatype	MaxSize
String	#NULL#



ControllerPartNumber

Part number of the MOST controller.

Basis datatype	MaxSize
String	#NULL#

ControllerRevision

Revision of the MOST controller.

Basis datatype	MaxSize
String	#NULL#

2.1.3 NodePositionAddress (0x002)

Section type: Coordination

Query the node position address of the device with this property.

2.1.3.1 Format of Function

Function classes: Number

FBlock	Function	OPType	Parameter
NetBlock (0x01)	NodePosition	Get	-
	Address (0x002)	Status	NodePositionAddress
		Error	ErrorCode, ErrorInfo

2.1.3.2 Parameter

NodePositionAddress

NodePositionAddress = 0x0400 + NodePosition (e.g., 0x0405, if the device has position 5 in the ring).

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Word	0	0x04000x04FF	1	none



2.1.4 NodeAddress (0x003)

Section type: Coordination

With this property, the logical node address of the devices can be set or queried.

2.1.4.1 Format of Function

Function classes: Number

FBlock	Function	OPType	Parameter
NetBlock (0x01)	NodeAddress	Get	-
	(0x003)	SetGet	NodeAddress
		Status	NodeAddress
		Error	ErrorCode, ErrorInfo

2.1.4.2 Parameter

NodeAddress

Calculated by each device when the network is initialized.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Word	0		1	none

2.1.5 GroupAddress (0x004)

Section type: Coordination

With this property, the group address of the devices can be set or queried.

2.1.5.1 Format of Function

Function classes: Number

FBlock	Function	ОРТуре	Parameter
NetBlock (0x01)	GroupAddress	Set	GroupAddress
	(0x004)	Get	-
		SetGet	GroupAddress
		Status	GroupAddress
		Error	ErrorCode, ErrorInfo

2.1.5.2 Parameter

GroupAddress

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Word	0		1	none



2.1.6 PermissionToWake (0x005)

Section type: Coordination

Activate or deactivate the device's ability to wake up the network. This function decides if a device has permission to WakeUp. Operation SetGet shall not be used, use Set instead.

2.1.6.1 Format of Function

Function classes: Enumeration

FBlock	Function	OPType	Parameter
NetBlock (0x01)	PermissionTo	Set	WakeStatus
	Wake (0x005)	Get	-
		SetGet	WakeStatus
		Status	WakeStatus
		Error	ErrorCode, ErrorInfo

2.1.6.2 Parameter

WakeStatus

Permission to wake up the network.

Basis datatype	Range of values	Code	Description
Enum	0x000x02	0x00	Off (Default for non waking device)
		0x01	On (Default for waking device)
		0x02	Critical

2.1.7 ShutDown (0x006)

Section type: Coordination

In normal operation mode, only the PowerMaster switches off the network.

2.1.7.1 Format of Function

Function classes: Unclassified Method

FBlock	Function	OPType	Parameter
NetBlock (0x01)	ShutDown (0x006)	Result	Control
		Start	Control
		Error	ErrorCode, ErrorInfo



2.1.7.2 Parameter

Control

Enumeration of available values for the Control parameter.

Basis datatype	Range of values	Code	Description
Enum	0x000x05	0x00	Query
		0x01	Suspend
		0x02	Execute
		0x03	Temperature Shutdown
		0x04	Device Shutdown
		0x05	Wake from Device Shutdown

2.1.8 RetryParameters (0x007)

Section type: Coordination

With this property, the retry time of the devices can be set or queried.

2.1.8.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	RetryParameters	Set	RetryTime, RetryNumbers
	(0x007)	Get	-
		SetGet	RetryTime, RetryNumbers
		Status	RetryTime, RetryNumbers
		Error	ErrorCode, ErrorInfo

2.1.8.2 Parameter

RetryNumbers

Number of repetitions.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	1255	1	none

RetryTime

Number of control frames.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	3255	1	none



2.1.9 Sampling Frequency (0x008)

Section type: Coordination

Query the sampling frequency of the MOST network. This property is provided only in that device which contains the TimingMaster. A Slave device reports an error message "function not available".

2.1.9.1 Format of Function

Function classes: Number

FBlock	Function	OPType	Parameter
NetBlock (0x01)	Sampling	Get	-
	Frequency (0x008)	Status	SamplingFrequency
		Error	ErrorCode, ErrorInfo

2.1.9.2 Parameter

SamplingFrequency

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Long	0		1	none

2.1.10 Version (0x010)

Section type: Coordination

This function has to be implemented in every node. It describes the version of the FBlock, divided into the major version, the minor version and the build number. (E.g., Version 2.3.5)

2.1.10.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	Version (0x010)	Get	-
		Status	Major, Minor, Build
		Error	ErrorCode, ErrorInfo

2.1.10.2 Parameter

Major

Major version value of the FBlock.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Byte	0	full range	1	none



Minor

Minor version value of the FBlock.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	full range	1	none

Build

Build number of the FBlock.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	full range	1	none

2.1.11 SourceHandles (0x100)

Section type: Coordination

The function SourceHandles is able to determine which FBlock in a device holds a particular connection at the moment. If an inquiry carries the Handle = 0xFF, all respective FBlocks for each connection will be returned.

2.1.11.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	SourceHandles	Get	Handle
	(0x100)	Status	HandleFBlockList
		Error	ErrorCode, ErrorInfo

2.1.11.2 Parameter

Handle

Identifier of a connection.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Byte	0	059	1	none

HandleFBlockList

The information that is to be queried or set through parameter ID.

Basis datatype	Length	Description
Stream		Handle, FBlockID, InstID {, Handle, FBlockID, InstID}



FBlockID

Functional address of an FBlock.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0		1	none

InstID

Distinction of identical FBlocks in a system

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0		1	none

2.1.12 Notification (0x401)

Section type: Extension

This property administrates the Notification Matrix of an FBlock.

2.1.12.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	Notification (0x401)	Set	Control, DeviceID, FktIDList
		Get	FktID
		Status	FktID, DeviceIDList
		Error	ErrorCode, ErrorInfo

2.1.12.2 Parameter

Control

The parameter Control determines where the entry has to be done or the deletion respectively.

- SetAll = Entry of DeviceID in all properties that support notification.
- SetFunction = Entry of DeviceID for the specified functions in the Notification Matrix.
- ClearAll = Deletion of DeviceID at all functions of the Notification Matrix.
- ClearFunction = Deletion of DeviceID for the specified functions in the Notification Matrix.

Basis datatype	Range of values	Code	Description
Enum	0x000x03	0x00	SetAll
		0x01	SetFunction
		0x02	ClearAll
		0x03	ClearFunction



DeviceID

Either RxTxLog of a device or a group address.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Word	0		1	none

FktID

Function ID.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Word	0		1	none

DeviceIDList

List of devices.

Basis datatype	Length	Description
Stream		DeviceID {, DeviceID}

FktIDList

List of functions. The maximum list length is 4.

Basis datatype	Length	Description
Stream	8	FktID {, FktID}



2.1.13 NotificationCheck (0x402)

Section type: Extension

Under certain system conditions, it can be helpful if a device can check whether its entries are still existent in the Notification Matrix. In case of an error, a device is able to renew its entries.

2.1.13.1 Format of Function

Function classes: Unclassified Property

FBlock	Function	OPType	Parameter
NetBlock (0x01)	NotificationCheck	Get	DeviceID
	(0x402)	Status	DeviceID, FktIDList
		Error	ErrorCode, ErrorInfo

2.1.13.2 Parameter

FktIDList

List of functions.

Basis datatype	Length	Description
Stream	-	FktID {, FktID}

FktID

Function ID.

Basis datatype	Ехр.	Range of values	Step	Unit
Unsigned Word	0		1	none

DeviceID

Either RxTxLog of a device or a group address.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Word	0		1	none



2.1.14 Boundary (0xA03)

Section type: Unique

Property for administration of the boundary between streaming data and packet data. This property is available only in the TimingMaster device, and therefore only accessible in the NetBlock with instance ID 0.

2.1.14.1 Format of Function

Function classes: Number

FBlock	Function	OPType	Parameter
NetBlock (0x01)	Boundary (0xA03)	Get	-
		SetGet	BoundaryDescriptor
		Status	BoundaryDescriptor
		Error	ErrorCode, ErrorInfo

2.1.14.2 Parameter

BoundaryDescriptor

Boundary between streaming data and packet data in quadlets.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	615	1	none