

MOST

Media Oriented Systems Transport

Multimedia and Control
Networking Technology

**MOST FunctionBlock NetBlock –
Speed Grade MOST 50
Rev 2.5.1
10/2007**



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References

Number	Document
[1]	MOST Specification 2V5
[2]	MOST FBlock template GeneralFBlock Rev 2.5.1 – Speed Grade MOST50

Bibliography MOST Library

This is a list of released FBlocks and FBlock templates 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
0x0E	Tool
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) Speed Grade MOST50 Change History

Changes NetBlock FBlock 2.5.1 - Speed Grade MOST25 to NetBlock FBlock 2.5.1 - Speed Grade MOST50

Change Ref.	FktID	Changes
2.5.1-001	-	- Created NetBlock for speed grade MOST50, based on NetBlock 2.5.1 (speed grade MOST25).
2.5.1-002	0x100	- Removed function SourceHandles.
2.5.1-003	0xA03	- Modified range of Boundary Descriptor - previously 6-15, now 0-29.

1 Introduction

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.

In addition to the functions contained in this document, the following functions are also part of the NetBlock FBlock. They exist in the GeneralFBlock template Rev. 2.5.1 and are included here by reference:

FktID	Function name
0x010	Version

Function Overview		
FktID	Name	Section Type
0x000	FBlockIDs	Coordination
0x001	DeviceInfo	Coordination
0x002	NodePositionAddress	Coordination
0x003	NodeAddress	Coordination
0x004	GroupAddress	Coordination
0x005	PermissionToWake	Coordination
0x006	ShutDown	Coordination
0x007	RetryParameters	Coordination
0x008	Sampling Frequency	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	Exp.	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

NewInstID

New InstID for 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	Condition	Description
Stream		-	Content: FBlockID, InstID {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	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..175	1	none

Description

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

Basis datatype	Length	Condition	Description
Stream		ID = 0x00	Content: CompanyName Classification: optional.
		ID = 0x01	Content: ProductName Classification: optional.
		ID = 0x02	Content: ProductVersion Classification: optional.
		ID = 0x03	Content: ProductSerialNumber Classification: optional.
		ID = 0x04	Content: ProductDescription Classification: optional.
		ID = 0x05	Content: LegalCopyright

Basis datatype	Length	Condition	Description
			Classification: optional.
		ID = 0x06	Content: LegalTrademarks Classification: optional.
		ID = 0x07	Content: CapabilityToWake Classification: mandatory.
		ID = 0x20	Content: MostTransceiverVersion Classification: optional.
		ID = 0x21	Content: MostNetServicesVersion Classification: optional.
		ID = 0x22	Content: MostNetServicesRevision Classification: optional.
		ID = 0x80	Content: ECUIdentificationDataTable Classification: optional.
		ID = 0x81	Content: ECUIdentificationScalingTable Classification: obsolete.
		ID = 0x82..0x87	Reserved.
		ID = 0x88	Content: changeIndex Classification: obsolete.
		ID = 0x89	Content: systemSupplierECUSerialNumber Classification: optional.
		ID = 0x8A..0x8F	System supplier specific information. Classification: optional.
		ID = 0x90	Content: VIN Classification: obsolete.
		ID = 0x91	Content: vehicleManufacturerECUHardwareNumber Classification: optional.
		ID = 0x92	Content: systemSupplierECUHardwareNumber Classification: obsolete.
		ID = 0x93	Content: systemSupplierECUHardwareVersionNumber Classification: obsolete.
		ID = 0x94	Content: systemSupplierECUSoftwareNumber Classification: obsolete.
		ID = 0x95	Content: systemSupplierECUSoftwareVersionNumber Classification: obsolete.
		ID = 0x96	Content: exhaustRegulationOrTypeApprovalNumber Classification: obsolete.
		ID = 0x97	Content: systemNameOrEngineType Classification: obsolete.
		ID = 0x98	Content: repairShopCodeOrTesterSerialNumber Classification: obsolete.
		ID = 0x99	Content: ProgrammingDate Classification: optional.
		ID = 0x9A	Content: vehicleManufacturerECUHardwareVersionNumber Classification: optional.
		ID = 0x9B	Content: vehicleManufacturerCodingIndex Classification: optional.
		ID = 0x9C	Content: vehicleManufacturerDiagnosticIndex Classification: obsolete.
		ID = 0x9D	Content: dateOfECUManufacturing Classification: obsolete.
		ID = 0x9E	Content: systemSupplierIndex Classification: obsolete.
		ID = 0x9F	Content: vehicleManufECUSoftwareLayerVersionNumbers Classification: obsolete.
		ID = 0xA0	Content: MOSTVersion Classification: optional.

Basis datatype	Length	Condition	Description
		ID = 0xAD	Content: WakeInfo Classification: optional.
		ID = 0xAE	Content: MOSTConfigurationSwitch Classification: optional.
		ID = 0xAF	Content: OpticalTransmitPowSwitch Classification: optional.
		ID = 0xB0	Content: ConnectorSupplier Classification: optional.
		ID = 0xB1	Content: ConnectorPartNumber Classification: optional.
		ID = 0xB2	Content: ConnectorRevision Classification: optional.
		ID = 0xB3	Content: FOTSupplier Classification: optional.
		ID = 0xB4	Content: FOTPartNumber Classification: optional.
		ID = 0xB5	Content: FOTRevision Classification: optional.
		ID = 0xB6	Content: ePhyPeripherals Classification: optional.
		ID = 0xB7	Content: ePhyPeripheralsRevision Classification: optional.
		ID = 0xB8	Content: ControllerSupplier Classification: optional.
		ID = 0xB9	Content: ControllerPartNumber Classification: optional.
		ID = 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	

exhaustRegulationOrTypeApprovalNumber

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	Condition	Description
Stream		-	Content: WakeStatus, Reserved 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 Address (0x002)	Get	-
		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	Exp.	Range of values	Step	Unit
Unsigned Word	0	0x0400..0x04FF	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 (0x003)	Get	-
		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	OPType	Parameter
NetBlock (0x01)	GroupAddress (0x004)	Set	GroupAddress
		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)	PermissionToWake (0x005)	Set	WakeStatus
		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	0x00..0x02	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)	Start	Control
		Result	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	0x00..0x05	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 (0x007)	Set	RetryTime, RetryNumbers
		Get	-
		SetGet	RetryTime, RetryNumbers
		Status	RetryTime, RetryNumbers
		Error	ErrorCode, ErrorInfo

2.1.8.2 Parameter

RetryTime

Number of control frames.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	3..255	1	none

RetryNumbers

Number of repetitions.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	1..255	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 Frequency (0x008)	Get	-
		Status	SamplingFrequency
		Error	ErrorCode, ErrorInfo

2.1.9.2 Parameter

SamplingFrequency

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

2.1.10 Notification (0x401)

Section type: Extension

This property administrates the Notification Matrix of an FBlock.

2.1.10.1 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

2.1.10.2 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	0x00..0x03	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

FktIDList

List of functions. The maximum list length is 4.

Basis datatype	Length	Condition	Description
Stream		-	Content: FktID FktID {, FktID}

FktID

Function ID.

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

DeviceIDList

List of devices.

Basis datatype	Length	Condition	Description
Stream		-	Content: DeviceID DeviceID {, DeviceID}

2.1.11 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.

2.1.11.1 Format of Function

Function classes: Unclassified Property

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

2.1.11.2 Parameter

DeviceID

Either RxTxLog of a device or a group address.

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

FktIDList

List of functions.

Basis datatype	Length	Condition	Description
Stream		-	Content: FktID FktID {, FktID}

FktID

Function ID.

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

2.1.12 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.

2.1.12.1 Format of Function

Function classes: Number

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

2.1.12.2 Parameter

BoundaryDescriptor

Boundary between streaming data and packet data in quadlets.

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..29	1	none