

# MOST

Media Oriented Systems Transport

Multimedia and Control  
Networking Technology

**MOST FunctionBlock TMCTuner**

**Rev 2.3.1**

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## Bibliography MOST Function Catalog

This 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
0x00	GeneralFBlock
0x00	GeneralPlayer
0x01	NetBlock
0x02	NetworkMaster
0x03	ConnectionMaster
0x06	Diagnosis
0x0F	Enhanced Testability
0x22	AudioAmplifier
0x26	MicrophoneInput
0x30	AudioTapePlayer
0x31	AudioDiskPlayer
0x34	DVDVideoPlayer
0x40	AmFmTuner
0x41	TMCTuner
0x42	TVTuner
0x50	Telephone
0x51	GeneralPhoneBook
0x60	GraphicDisplay
0xFF	UniqueFunctions

## TMCTuner FBlock (0x41) Change History

Changes TMCTuner FBlock 2.3 to TMCTuner FBlock 2.3.1

Change Ref.	FktID	Changes
2.3.1-001	0x002	- Changed description of parameter FktIDList.
		-
		-

# 1 Introduction

A MOST Function Catalog is a collection of MOST FunctionBlocks.

This document contains the specification of a FunctionBlock. MOST FunctionBlocks are standardized and maintained by MOST workgroup Device Architecture ( WG\_DA). In order to speed up the process of making new Function Blocks available, every Function Block will be updated individually as required.

## 2 FunctionBlock Definition

### 2.1 TMCTuner (FBlockID=0x41)

This function Block extends an AMFMtuner by RDS TMC capabilities. This version contains the legacy interface (functions 0x200 and 0x201, deprecated) as well as the new one.

#### 2.1.1 FktIDs (0x000)

With the property FktIDs the functions of a function block may be inquired.

##### 2.1.1.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	FktIDs (0x000)	Get	
		Status	BitField
		Error	ErrorCode, ErrorInfo

##### 2.1.1.2 Parameter

BitField

RLE-coded bitfield of available functions Remark: FktIDs are 12 Bit encoded !

Basis datatype	Length	Description
Stream		FktID1, FktID2, ...

##### 2.1.2 Notification (0x001)

This property administrates the Notification Matrix of a function block.

### 2.1.2.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	Notification (0x001)	Set	Control, DeviceID, FktIDList
		Get	FktID
		Status	FktID, DeviceIDList
		Error	ErrorCode, ErrorInfo

### 2.1.2.2 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

Rx/TxLog of a device or group address

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

FktID

Function

Basis datatype	Exp.	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 with a maximum of 4.

Basis datatype	Length	Description
Stream	8	FktID {, FktID}

## 2.1.3 NotificationCheck (0x002)

Under certain system conditions it can be helpfull if a device can check whether its entries are still existent in the notification matrix or not. In case of error, a device is able to renew its entries.

### 2.1.3.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	NotificationCheck (0x002)	Get	DeviceID
		Status	DeviceID, FktIDList
		Error	ErrorCode, ErrorInfo

### 2.1.3.2 Parameter

FktIDList

---

List of functions.

Basis datatype	Length	Description
Stream	-	FktID {, FktID}

FktID

---

Function

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

DeviceID

---

Rx/TxLog of a device or groupaddress

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

ErrorCode

---

ErrorInfo

## 2.1.4 TMCTProgramms (0x200)

This function should not be used in new projects. Datatype: Array [1..NMax] of Record of { Selected, TMCSEndername, TMCServiceIdentifier, TMCMessageGeographicalScope, TMCLocationTable, TMCServiceType, TMCTProviderName, TMCTCompatibility, TMCPI }

### 2.1.4.1 Format of Function

**Function classes:** Array of { Record of { Boolean String Number Number Number Boolean String Boolean Number } }

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCTProgramms (0x200)	Set	Pos, Data
		Get	Pos
		SetGet	Pos, Data
		Status	Pos, Data
		Error	ErrorCode, ErrorInfo

### 2.1.4.2 Parameter

Pos

The parameter Pos={x,y} consists of two byte x and y and shows which parameter shall be set, inquired or read. Valid range: x=0..10, y=0..9

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

Data

The content of Data depends on parameter Pos={x,y}.

Basis datatype	Length	Description	
Stream	-	Pos	Data
		{ x=0, y=0 }	Selected[1], TMCSEndername[1], TMCServiceIdentifier[1], TMCMessageGeographicalScope[1], TMCLocationTable[1], TMCServiceType[1], TMCTProviderName[1], TMCTCompatibility[1], TMCPI[1], ..., Selected[10], TMCSEndername[10], TMCServiceIdentifier[10], TMCMessageGeographicalScope[10], TMCLocationTable[10], TMCServiceType[10], TMCTProviderName[10], TMCTCompatibility[10], TMCPI[10]
		{ x>0, y=0 }	Selected[x], TMCSEndername[x], TMCServiceIdentifier[x], TMCMessageGeographicalScope[x], TMCLocationTable[x], TMCServiceType[x], TMCTProviderName[x], TMCTCompatibility[x], TMCPI[x]

	{ x>0, y=1 }	Selected[x]
	{ x>0, y=2 }	TMCSenderName[x]
	{ x>0, y=3 }	TMCSERVICEIdentifier[x]
	{ x>0, y=4 }	TMCMessAGeographicalScope[x]
	{ x>0, y=5 }	TMCLocationTable[x]
	{ x>0, y=6 }	TMCSERVICEType[x]
	{ x>0, y=7 }	TMCTProviderName[x]
	{ x>0, y=8 }	TMCCOMPATIBILITY[x]
	{ x>0, y=9 }	TMCPi[x]

Selected

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	False	False
		True	True
	Bit 1 ... 7	-	reserved

TMCSenderName

Basis datatype	MaxSize
String	8

TMCSERVICEIdentifier

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..63	1	none

TMCMessAGeographicalScope

MGS

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..15	1	none

TMCLocationTable

LTN

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..63	1	none

TMCSERVICEType

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	False	Off
		True	On
	Bit 1 ... 7	-	reserved

TMCTProviderName

Basis datatype	MaxSize
String	8

TMCCompatibility

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	False	Off
		True	On
	Bit 1 ... 7	-	reserved

TMCPi

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

## 2.1.5 TMCDataStream (0x201)

This function should not be used in new projects. Property for transfer of TMCDData

### 2.1.5.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCDDataStream (0x201)	Get	
		Status	TMCDData
		Error	ErrorCode, ErrorInfo

## 2.1.5.2 Parameter

TMCDData

Byte-Nr Bit-Nr Description 1 0 Status TMC-Reception 0: TMC-Reception broken 1: TMC Reception o.k. 1 1..7 reserved 2 (n) 0..7 RDS Datarate in 8 steps (0x00 bis 0x07) 3 (n+1) 0..4 TMC-Data out of RDS-Group 4A bzw. 8A 5 Validation-ID like RDS-Specification 0:Data validated 1: Data not validated 6 Typ (0: Data 8A-GGroup, 1: Time 4A-Group) 7 Timeout\_id: Status for multi groups. Toggel in case of new multi groups, new single groups bor timeout 4 (n+2) 0..7 TMC-Data out of RDS-Group 4A or 8A 5 (n+3) 0..7 TMC-Data out of RDS-Group 4A or 8A 6 (n+4) 0..7 TMC Data out of RDS-Group 4A or 8A 7 (n+5) 0..7 TMC Data out of RDS-Group 4A or 8A

Basis datatype	Length	Description
Stream	27	Description

## 2.1.6 TMCSwitch (0x202)

Enter / Leave TMC-Mode

### 2.1.6.1 Format of Function

Function classes: Switch

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCSwitch (0x202)	Set	TMCTOnOff
		Get	
		SetGet	TMCTOnOff
		Status	TMCTOnOff
		Error	ErrorCode, ErrorInfo

### 2.1.6.2 Parameter

TMCTOnOff

Enter / Leave TMC-Mode

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	False	Off
		True	On
	Bit 1 ... 7	-	reserved

ErrorCode

(see chapter Application section/Protocols/OPType/Error in [1])

ErrorInfo

## 2.1.7 TMCSelectionFilter (0x203)

Selection criteria for TMC-Data selection

### 2.1.7.1 Format of Function

**Function classes:** Array of { Record of { BitField Number Stream Enumeration } }

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCSelectionFilter (0x203)	Set	Pos, Data
		Get	Pos
		SetGet	Pos, Data
		Status	Pos, Data
		Error	ErrorCode, ErrorInfo

### 2.1.7.2 Parameter

Data

The content of Data depends on parameter Pos={x,y}.

Basis datatype	Length	Description	
Stream	-	Pos	Data
		{ x=0, y=0 }	Mask[1], PI[1], TMCSEnderInfo[1], Quality[1], ..., Mask[NMax], PI[NMax], TMCSEnderInfo[NMax], Quality[NMax]
		{ x>0, y=0 }	Mask[x], PI[x], TMCSEnderInfo[x], Quality[x]
		{ x>0, y=1 }	Mask[x]
		{ x>0, y=2 }	PI[x]
		{ x>0, y=3 }	TMCSEnderInfo[x]
		{ x>0, y=4 }	Quality[x]

Mask

TMC selection criteria, 0b0000 0000 0000 0000 means don't care is default

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	False	Filter inactive

		True	Filter active
	Bit 1	False	Filter inactive
		True	Filter active
	Bit 2	False	Filter inactive
		True	Filter active
	Bit 3	False	Filter inactive
		True	Filter active
	Bit 4	False	Filter inactive
		True	Filter active
	Bit 5	False	Filter inactive
		True	Filter active
	Bit 6	False	Filter inactive
		True	Filter active
	Bit 7	False	Filter inactive
		True	Filter inactive
	Bit 8..15	-	reserved

PI

Program index

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

TMCSenderInfo

SID, MSG, LTN see TMC-Specification ENV12313-1 Ch.4.4.1.2 CC see TMC-Specification ENV12313-1 Ch.3.1.1 ST see TMC-Specification ENV12313-1 Ch.4.4.1.1 distinction via AID in 3A group SPN SEE TMC-Specification ENV12313-1 Ch.4.4.2.2 Figure 3d

Basis datatype	Length	Description
Stream	13	SID, MSG, CC, LTN, SPN

SID

SID = Service Identifier (Byte 0, 6 Bit + 2 padding Bits at the beginning)

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

MGS

MGS = Message Group Service (Byte 1, 4 Bit I,N,R,U + 4 padding Bits at the beginning)

Basis datatype	Exp.	Range of values	Step	Unit
----------------	------	-----------------	------	------

Unsigned Byte	0		1	none
---------------	---	--	---	------

CC

CC = Country Code (Byte 2, 4 Bit + 4 padding Bits at the beginning), if PI is selected, CC is not used.

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

LTN

LTN = Location Table Number (Byte 3, 6 Bit + 2 padding Bits at the beginning)

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

ST

ST = Service Type (Byte 5, 1 Bit + 7 Bits at the beginning), Values: 0= Alert C, 1= Alert C & Alert Plus

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

SPN

SPN = Service Provider Name (8 Characters without string format information)

Basis datatype	MaxSize
String	8

Quality

No

Basis datatype	Range of values	Code	Description
Enum	0x00..0x03	0x00	Low Quality
		0x01	Fairly Quality
		0x03	Good Quality

Pos

The parameter Pos={x,y} consists of two byte x and y and shows which parameter shall be set, inquired or read. Valid range: x=0..4, y=0..4

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



ErrorCode

ErrorInfo

(see chapter Application section/Protocols/OPType/Error in [1])

## 2.1.8 TMCStations (0x204)

NoDescription

### 2.1.8.1 Format of Function

**Function classes:** Array of { Record of { BitField Number String Enumeration Stream Enumeration } }

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCStations (0x204)	Set	Pos, Data
		Get	Pos
		SetGet	Pos, Data
		Status	Pos, Data
		Error	ErrorCode, ErrorInfo

### 2.1.8.2 Parameter

Data

Basis datatype	Length	Description	
Stream	-	Pos	Data
		{ x=0, y=0 }	Selected[1], PI[1], TMCSEnderName[1], TMCSEndernameInfo[1], TMCSEnderInfo[1], Quality[1], ..., Selected[NMax], PI[NMax], TMCSEnderName[NMax], TMCSEndernameInfo[NMax], TMCSEnderInfo[NMax], Quality[NMax]
		{ x>0, y=0 }	Selected[x], PI[x], TMCSEnderName[x], TMCSEndernameInfo[x], TMCSEnderInfo[x], Quality[x]
		{ x>0, y=1 }	Selected[x]
		{ x>0, y=2 }	PI[x]
		{ x>0, y=3 }	TMCSEnderName
		{ x>0, y=4 }	TMCSEndernameInfo
		{ x>0, y=5 }	TMCSEnderInfo

		{ x>0, y=6 }	Quality[x]
--	--	-----------------	------------

Selected

Selected TMC Data Sources, more than one entry can be selected

Basis datatype	Bit #	Code	Description
Boolean	Bit 0	False	Not used as TMC Data Source
		True	Used as TMC Data Source
	Bit 1 ... 7	-	reserved

PI

Program Index

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

TMCSenderName

PS or frequency, if PS is not available, 8 Characters without string format information

Basis datatype	MaxSize
String	8

TMCSendernameInfo

Basis datatype	Range of values	Code	Description
Enum	0x00..0x05	0x00	Station without RDS
		0x01	via RDS received name (original)
		0x02	by the radio automatically given name (PS changes)
		0x03	by the radio automatically given name (several equal PS)
		0x04	by customer fixed name
		0x05	by customer newly given name

TMCSenderInfo

SID, MSG, LTN see TMC-Specification ENV12313-1 Ch.4.4.1.2 CC see TMC-Specification ENV12313-1 Ch.3.1.1 ST see TMC-Specification ENV12313-1 Ch.4.4.1.1 distinction via AID in 3A group SPN SEE TMC-Specification ENV12313-1 Ch.4.4.2.2 Figure 3d

Basis datatype	Length	Description
Stream	14	SID, MGS, AFI, CC, LTN, ST, SPN

SID

SID = Service Identifier (Byte 0, 6 Bit + 2 padding Bits at the beginning)

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

MGS

MGS = Message Group Service (Byte 1, 4 Bit I,N,R,U + 4 padding Bits at the beginning)

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

AFI

AFI = Alternative Frequency (Byte 2, 1 Bit + 7 padding Bits at the beginning)

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

CC

CC = Country Code (Byte 2, 4 Bit + 4 padding Bits at the beginning), if PI is selected, CC is not used.

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

LTN

LTN = Location Table Number (Byte 3, 6 Bit + 2 padding Bits at the beginning)

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

ST

ST = Service Type (Byte 5, 1 Bit + 7 Bits at the beginning), Values: 0= Alert C, 1= Alert C & Alert Plus

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

SPN

SPN = Service Provider Name (8 Characters without string format information)

Basis datatype	MaxSize
String	8

Quality

Basis datatype	Range of values	Code	Description
Enum	0x00..0x02	0x00	Low Quality
		0x01	Fairly Quality
		0x02	Good Quality

Pos

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

ErrorCode

(see chapter Application section/Protocols/OPType/Error in [1])

ErrorInfo

(see chapter Application section/Protocols/OPType/Error in [1])

## 2.1.9 TMCDATA (0x205)

Property for transfer of TMC Data and related information like time data etc.

### 2.1.9.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCDATA (0x205)	Status	PI, SID, LTN, GroupID, RDSGroupMessage
		Error	ErrorCode, ErrorInfo

### 2.1.9.2 Parameter

RDSGroupMessage

Contents dependent on GroupID

Basis datatype	Length	Description	
Stream	5	GroupID	Description
		0x0	TMCMessage
		0x1	TimeData
		0x2	DGPSData

TMCMessageData

TMCMessage according TMC-Specification ENV 12313-1 Chapter 4: X7=X6=X5=Don't care, x4...x0; Y0; Z15...Z0

Basis datatype	Length	Description
Stream	5	3 Bit padding at beginning + 37 Bit String

TimeData

No

Basis datatype	Bit #	Code	Description
Boolean	Bit 0 ... 7	-	True if ...

DGPSData

No

Basis datatype	Bit #	Code	Description
Boolean	Bit 0 ... 7	-	True if ...

GroupID

Basis datatype	Range of values	Code	Description
Enum	0x00..0x02	0x00	TMCMessage
		0x01	Timedata
		0x02	DGPSData

LTN

Location Table Number

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..63	1	none

SID

Service Identifier

Basis datatype	Exp.	Range of values	Step	Unit
Unsigned Byte	0	0..63	1	none

PI

Program Index

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

ErrorCode

(see chapter Application section/Protocols/OPType/Error in [1])

ErrorInfo

---

(see chapter Application section/Protocols/OPType/Error in [1])

### 2.1.10 TMCStatus (0x206)

TMC Status Information

#### 2.1.10.1 Format of Function

**Function classes:** Enumeration

FBlock	Function	OPType	Parameter
TMCTuner (0x41)	TMCStatus (0x206)	Get	
		Status	TMCStatusInfo
		Error	ErrorCode, ErrorInfo

#### 2.1.10.2 Parameter

TMCStatusInfo

---

Basis datatype	Range of values	Code	Description
Enum	0x00..0x02	0x00	No TMC source available
		0x01	No TMC source with this selection filter available
		0x02	TMC tuned

ErrorCode

---

(see chapter Application section/Protocols/OPType/Error in [1])

ErrorInfo

---

(see chapter Application section/Protocols/OPType/Error in [1])

## 3 FunctionBlock Dynamic Specification

TBD



