

# MOST

Media Oriented Systems Transport

Multimedia and Control  
Networking Technology

MOST FunctionBlock Tool

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**MOSTCO CONFIDENTIAL**

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## References

Number	Document
[1]	MOST Specification 2V5

## Bibliography MOST Function Library

This is a list of released FBlocks 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

## Tool FBlock (0x0E) Change History

Change Ref.	FktID	Changes
1.0-001	General	- Initial version.

# 1 Introduction

A MOST Function Library 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 Tool (FBlockID=0x0E)

The Tool FBlock is used for the purpose of testing. It can be implemented in any device (in particular in a test devices). The Tool FBlock is registered in the Central Registry during System Scan. The FBlock can be extended by additional testing functions.

Function Overview		
FktID	Name	Section Type
0x000	<a href="#">FktIDs</a>	Coordination
0x001	<a href="#">Notification</a>	Coordination
0x002	<a href="#">NotificationCheck</a>	Coordination
0x010	<a href="#">Version</a>	Coordination

## 2.1.1 FktIDs (0x000)

Section type: Coordination

With the property FktIDs, the functions of an FBlock may be queried.

### 2.1.1.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
Tool (0x0E)	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	Condition	Description
Stream		-	BitField::=FktID {, FktID}

## 2.1.2 Notification (0x001)

Section type: Coordination

This property administrates the Notification Matrix of an FBlock.

### 2.1.2.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
Tool (0x0E)	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

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 FktIDList::=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 DeviceIDList::=DeviceID {, DeviceID}

## 2.1.3 NotificationCheck (0x002)

Section type: Coordination

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.

### 2.1.3.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
Tool (0x0E)	NotificationCheck (0x002)	Get	DeviceID
		Status	DeviceID, FktIDList
		Error	ErrorCode, ErrorInfo

### 2.1.3.2 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 FktIDList::=FktID {, FktID}

#### FktID

Function ID.

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

## 2.1.4 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)

### 2.1.4.1 Format of Function

**Function classes:** Unclassified Property

FBlock	Function	OPType	Parameter
Tool (0x0E)	Version (0x010)	Get	-
		Status	Major, Minor, Build
		Error	ErrorCode, ErrorInfo

### 2.1.4.2 Parameter

#### Major

Major version value of the FBlock.

Basis datatype	Exp.	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