

MediaTek

MMISMS-APP

SAP Design Specification

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SAP Design Specification

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1 Introduction

This document describes the set of messages provided in service access point between MMI SMS related applications and L4 Controller.

1.1 Overview

1.2 References

The following documents are the references of the present documents.

- [1] 3GPP TS 23.040 V3.8.0 Technical realization of the Short Message Service (SMS) (R99).
- [2] 3GPP TS27.005 Use of Data Terminal Equipment Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS).
- [3] 3GPP TS 22.022 V3.1.0 Personalisation of Mobile Equipment (ME); Mobile functionality specification.
- [4] 3GPP TS 23.038 Alphabets and language-specific information.





2 Constant

2.1 Message Set

Short name	Value	Comment	tal
MMISMS_ SET			*() (
			V /A.
			CVI

2.2 Message ID

Short name	Value Comment

2.3 Default Constant

Short name	Value	Long name	Comment
MAX_DIGITS	41		
MAX_DIGITS_SMS	21		
MAX_TIMESTAMP_SIZE	12		
MAX_PROFILE_EDIT_ITEMS	4		
MAX_PROFILE_NAME_LEN	30		
MAX_STATUS_REPORT_NUM	10		
MAX_LFOUR_PROFILES	4		
MAX_LFOUR_VP	5		
MAX_LFOUR_MSG_TYPE	4		
MAX_MAILBOX_PS_SUPPORT	2		
0			



3 Message

3.1 MSG_ID_MMIAPI_SMS_REGISTER_PORT_REQ

3.1.1 **Description**

3.1.2 **Direction**

3.1.3 Field

		IN E. G.					
Description This message is used by other MOD to register port for APP.							
2 Direction			OC.				
Other MOD -> MM	Other MOD -> MMI						
8 Field	Field						
Туре	Short name	Long name	Ref.	Comment			
S16	port_number	MONT					
BOOL	enable						
BOOL	remove_reminder_data	1110					

3.2 MSG_ID_MMIAPI_SMS_REGISTER_PORT_RSP

3.2.1 Description

This message is used to response for MSG_ID_MMIAPI_SMS_REGISTER_PORT_REQ.

3.2.2 Direction

MMI -> Other MOD

3.2.3 Field

Туре	Short name	Long name	Ref.	Comment
S16	result			

MSG_ID_MMIAPI_SMS_IND 3.3

3.3.1 **Description**

This message is used to indicate new SMS arrival with port registered.

3.3.2 **Direction**

MMI -> Other MOD

3.3.3 **Field**

Туре	Short name	Long name	Ref.	Comment
S16	serial			



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S16	port_number		
smsal_dcs_enum	DCS		

3.4 MSG_ID_MMIAPI_SMS_CHECK_INCOMING_MSG_REQ

3.4.1 **Description**

3.4.2 **Direction**

3.4.3 **Field**

1	Description This message is us	sed for other MOD to check inc	oming message.		107
2	Direction			~CK	5
	Other -> MMIAPI		10	NO.	
3	Field		00/5		
	Type	Short name	Long name	Ref.	Comment
	S16	port_number	. (1)		
	BOOL	only_new	KIVAN '		
	void*	blocking_data			

MSG_ID_MMIFRM_SMS_CHECK_INCOMING_MSG_RSP 3.5

3.5.1 Description

This message is used to response for MSG_ID_MMIAPI_SMS_CHECK_INCOMING_MSG_REQ.

3.5.2 Direction

L4 Controller -> MMI

3.5.3 Field

Туре	Short name	Long name	Ref.	Comment
S16	result			

MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_TIMESTAMP_REQ 3.6

Description 3.6.1

This message is used by other MOD to get incoming message timestamp.

3.6.2 **Direction**

Other MOD -> MMI

3.6.3 **Field**

Туре	Short name	Long name	Ref.	Comment
S16	port_number			



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void*	blocking_data		

3.7 MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_TIMESTAMP_RSP

3.7.1 Description

This message is used to response for MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_TIMESTAMP_REQ.

3.7.2 Direction

MMI -> Other MOD

3.7.3 Field

Туре	Short name	Long name	Ref.	Comment
U8	scts[7]	time stamp		

3.8 MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_ADDRESS_REQ

3.8.1 Description

This message is used by other MOD to get incoming message address.

3.8.2 Direction

Other MOD -> MMI

3.8.3 Field

Type	Short name	Long name	Ref.	Comment
S16	port_number			
void*	blocking_data			

3.9 MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_ADDRESS_RSP

3.9.1 Description

This message is used to response for MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_ADDRESS_REQ.

3.9.2 Direction

MMI -> Other MOD

3.9.3 Field

Туре	Short name	Long name	Ref.	Comment
I4_addr_bcd_struct	incoming_address			

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3.10 MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_REQ

3.10.1 Description

This message is used by other MOD to get incoming message content.

3.10.2 Direction

Other MOD -> MMI

3.10.3 Field

Туре	Short name	Long name	Ref. Comment
S16	port_number		
void*	blocking_data		

3.11 MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_RSF

3.11.1 Description

This message is used to response for MSG_ID_MMIAPI_SMS_GET_INCOMING_MSG_REQ.

3.11.2 Direction

MMI -> Other MOD

3.11.3 Field

Туре	Short name	Long name	Ref.	Comment
U8*	message			
\$16 U16	message_len			

3.12 MSG_ID_MMIAPI_SMS_SEND_REQ

3.12.1 Description

This message is used by other MOD to send message.

3.12.2 Direction

Other MOD -> MMI

3.12.3 Field

Туре	Short name	Long name	Ref.	Comment
l4c_number_struct	addr			
S16	port_number			
U8*	msg			
S16	msg_length			
smsal_dcs_enum	dcs			
void*	blocking_data			

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3.13 MSG_ID_MMIAPI_SMS_SEND_RSP

3.13.1 Description

This message is used to response for MSG_ID_MMIAPI_SMS_SEND_REQ.

3.13.2 Direction

MMI -> Other MOD

3.13.3 Field

Type	Short name	Long name	Ref. Comment
BOOL	result		



Function call

mmi_frm_app_read_msg_req 4.1

4.1.1 **Function Definition**

4.1.2 **Description**

4.1.3 **Argument**

l V	Function Definition void mmi_frm_app_read_msg_req (U8 type, U16 index, PsFuncPtr callback);						
2	Description						
	Read message request.						
3	Argument		,00				
	Туре	Short name	Long name	Ref.	Comment		
	U8	type	message type		inbox/outbox		
	U16	index	message index		index in mmiapi		
	PsFuncPtr	callback	call back function				

Return value 4.1.4

None

Function behavior description 4.1.5

4.2 mmi_frm_app_read_msg_rsp

4.2.1 **Function Definition**

void mmi_frm_app_read_msg_rsp (BOOL result, U8* EMSdata);

4.2.2 **Description**

Read message response.

4.2.3 **Argument**

Туре	Short name	Long name	Ref.	Comment
BOOL	result			
U8*	EMSdata	pointer to EMS data		

4.2.4 Return value

None

Function behavior description 4.2.5

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4.3 mmi_frm_app_delete_msg_req

4.3.1 Function Definition

void mmi_frm_app_delete_msg_req (U8 type, U16 index, PsFuncPtr callback);

4.3.2 Description

Delete message request.

4.3.3 Argument

Туре	Short name	Long name	Ref.	Comment
U8	type	message type	N S	inbox/outbox
U16	index	message index		index in mmiapi
PsFuncPtr	callback	call back function	1,	

4.3.4 Return value

None

4.3.5 Function behavior description

4.4 mmi_frm_app_delete_msg_rsp

4.4.1 Function Definition

void mmi_frm_app_delete_msg_rsp (BOOL result);

4.4.2 Description

Delete message response.

4.4.3 Argument

Туре	Short name	Long name	Ref.	Comment
BOOL	result			

4.4.4 Return value

None.

4.4.5 Function behavior description

4.5 mmi_frm_app_save_msg_req

4.5.1 Function Definition

void mmi_frm_app_save_msg_req (U8 type, U8 dcs, U8* number, U8* EMSdata, S8* filename, S8* string, U16 stringlen, PsFuncPtr callback);

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4.5.2 Description

Save message request.

4.5.3 Argument

Type Short name		Long name	Ref.	Comment
U8	type	message type		7.5
U8	dcs	message dcs		
U8*	number	DA number		
U8*	EMSdata	pointer to EMS data		
S8*	filename	pointer to file name		720
S8*	string	pointer to string		J.NA
U16	stringlen	string length		70
PsFuncPtr	callback	call back function		

4.5.4 Return value

None

4.5.5 Function behavior description

4.6 mmi_frm_app_save_msg_rsp

4.6.1 Function Definition

void mmi_frm_app_save_msg_rsp (BOOL result);

4.6.2 Description

Save message response.

4.6.3 Argument

Туре	Short name	Long name	Ref.	Comment
BOOL	result			

4.6.4 Return value

None.

4.6.5 Function behavior description

4.7 mmi_frm_app_send_msg_req

4.7.1 Function Definition

void mmiapi_msg_app_send_msg_req (U16 srcport, U16 desport, U16 replyindex, U8 dcs, U8 class, U8* number, U8* EMSdata, S8* filename, S8* string, U16 stringlen, PsFuncPtr callback);

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4.7.2 Description

Send message request.

4.7.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	srcport	source port		101
U16	desport	destination port		
U16	replyindex	reply index		
U8	dcs	message dcs		
U8	class	message class		720
U8*	number	DA number		J.V.A
U8*	EMSdata	pointer to EMS data		70
S8*	filename	pointer to file name		
S8*	string	pointer to string	KU	
U16	stringlen	string length		4/ \
PsFuncPtr	callback	call back function		

4.7.4 Return value

None.

4.7.5 Function behavior description

4.8 mmi_frm_app_send_msg_rsp

4.8.1 Function Definition

void mmi_frm_app_send_msg_rsp (BOOL result) ;

4.8.2 Description

Send message response.

4.8.3 Argument

Туре	Short name	Long name	Ref.	Comment
BOOL	result			

4.8.4 Return value

None.

4.8.5 Function behavior description

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4.9 mmi_frm_app_get_msg_list_req

4.9.1 Function Definition

void mmi_frm_app_get_msg_list_req (U8 type, PsFuncPtr callback);

4.9.2 Description

Get message list request.

4.9.3 Argument

Type Short name Long name		Ref.	Comment	
U8	type	message type		3.0
PsFuncPtr	callback	call back function		U

4.9.4 Return value

4.9.5 Function behavior description

4.10 mmi_frm_app_get_msg_list_rsp

4.10.1 Function Definition

void mmi_frm_app_get_msg_list_rsp (BOOL result, U16 total, msgbox* msglist);

4.10.2 Description

Get message list response.

4.10.3 Argument

Туре	Short name	Long name	Ref.	Comment
BOOL	result			
U16	total	total amount		
msgbox*	msglist	message list		

4.10.4 Return value

None.

4.10.5 Function behavior description

4.11 mmi_frm_app_reg_port_req

4.11.1 Function Definition

void mmi_frm_app_reg_port_req (U16 portnum, U8 enable, U8 rmvdata, PsFuncPtr callback);

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4.11.2 Description

Register port request.

4.11.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	portnum	port number		101
U8	enable	enable/disable port		3.01
U8	rmvdata	remove/nonremove		
		data		
PsFuncPtr	callback	call back function		140

4.11.4 Return value

None.

4.11.5 Function behavior description

4.12 mmi_frm_app_reg_port_rsp

4.12.1 Function Definition

void mmi_frm_app_reg_port_rsp (BOOL result) ;

4.12.2 Description

Register port response.

4.12.3 Argument

Туре	Short name	Long name	Ref.	Comment
BOOL	result			

4.12.4 Return value

None.

4.12.5 Function behavior description

4.13 mmi_frm_app_new_msg_ind

4.13.1 Function Definition

void mmi_frm_app_new_msg_ind (U16 index, U8* number);

4.13.2 Description

New message indication.

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4.13.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	index	message index		index in mmiapi
U8*	number	message number		

4.13.4 Return value

None

4.13.5 Function behavior description

4.14 mmi_frm_app_new_data_ind

4.14.1 Function Definition

void mmi_frm_app_new_data_ind (U16 destport)

4.14.2 Description

New data indication.

4.14.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	destport	port number		

4.14.4 Return value

None

4.14.5 Function behavior description

4.15 mmi_frm_app_get_data_req

4.15.1 Function Definition

void mmi_frm_app_get_data_req (U16 destport);

4.15.2 Description

Get data request.

4.15.3 Argument

Type	Short name	Long name	Ref.	Comment
U16	destport	port number		

4.15.4 Return value

None

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4.15.5 Function behavior description

4.16 mmi_frm_app_get_data_rsp

4.16.1 Function Definition

void mmi_frm_app_get_data_rsp (U16 datalen, U8* data);

4.16.2 Description

Get data response.

4.16.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	datalen	data length		
U8*	data	pointer to data		

4.16.4 Return value

None

4.16.5 Function behavior description

4.17 mmi_frm_app_check_msg_req

4.17.1 Function Definition

void mmi_frm_app_check_msg_req (U16 portnum, BOOL onlynew);

4.17.2 Description

Check message request.

4.17.3 Argument

Type	Short name	Long name	Ref.	Comment
U16	portnum	port number		
BOOL	onlynew	flag of only new or not		

4.17.4 Return value

None

4.17.5 Function behavior description

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4.18 mmi_frm_app_check_msg_rsp

4.18.1 Function Definition

void mmi_frm_app_check_msg_rsp (BOOL result) ;

4.18.2 Description

Check message response.

4.18.3 Argument

Туре	Short name	Long name	Ref.	Comment
BOOL	result			

4.18.4 Return value

None

4.18.5 Function behavior description

4.19 mmi_frm_app_get_msg_timestamp_req

4.19.1 Function Definition

void mmi_frm_app_get_msg_timestamp_req (U16 portnum);

4.19.2 Description

Get message time stamp request.

4.19.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	portnum	port number		

4.19.4 Return value

None

4.19.5 Function behavior description

4.20 mmi_frm_app_get_msg_timestamp_rsp

4.20.1 Function Definition

void mmi_frm_app_get_msg_timestamp_rsp (U8* timestamp) ;

4.20.2 Description

Get message timestamp response.

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4.20.3 Argument

Туре	Short name	Long name	Ref.	Comment
U8*	timestamp	time stamp		

4.20.4 Return value

None

4.20.5 Function behavior description

4.21 mmi_frm_app_get_msg_address_req

4.21.1 Function Definition

void mmi_frm_app_get_msg_address_req (U16 portnum) ;

4.21.2 Description

Get messages address request.

4.21.3 Argument

Туре	Short name	Long name	Ref.	Comment
U16	portnum	port number		

4.21.4 Return value

None

4.21.5 Function behavior description

4.22 mmi_frm_app_get_msg_address_rsp

4.22.1 Function Definition

void mmi_frm_app_get_msg_address_rsp (U8* number) ;

4.22.2 Description

Get message address response.

4.22.3 Argument

Туре	Short name	Long name	Ref.	Comment
U8*	timestamp	time stamp		

4.22.4 Return value

None

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4.22.5 Function behavior description



5 Parameters

5.1.1 frm_sms_list_entry_structure

5.1.1.1 Description

This structure describes a single entry of SMS list.

5.1.1.2 Element

Type	Short name	Long name	Ref.	Comment
U8	msgType	message type		1 st half octet: mti
				2 nd half octet: status
U8	msgSeg	message segment info		1 st half octet: total seg
		1.01		2 nd half octet: start seg
U8	msgRef	message reference num		
U8	msgTime[7]	message time stamp		
U8	msgAddr[21]	message OA/DA		
U8	pedding			
U16	msgIndex	pointer to message index		first non-empty index
U8*	msgContent	pointer to message content		not use now

5.1.2 frm_sms_index_entry_structure

5.1.2.1 Description

This structure describes a single entry of SMS index list.

5.1.2.2 Element

Type	Short name	Long name	Ref.	Comment
U8	msgSeg	message segment		segment of this index
U16	msgIndex	next message index		next non-empty index 0xffff: last non-emptysegment

5.1.3 frm_sms_action_entry_structure

5.1.3.1 Description

This structure describes a single entry of SMS action list.

5.1.3.2 Element

Туре	Short name	Long name	Ref.	Comment
U8	msgAction	message action		
U16	msglndex	message index		first non-empty index
U8*	msgContent	pointer to message content		
CallBack*	msgCallback	pointer to call back function		

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