Erratum 28554 and 28726: Update MMS Group Messaging

Bluetooth® Expedited Specification Update

- **Version:** v1.0
- **Version Date:** 2026-11-02
- **Prepared By:** Audio, Telephony, and Automotive Working Group

This Expedited Specification Update applies to the following specifications (collectively, the "Source Specifications"):

- Message Access Profile v1.4.3 [1]
- Message Access Profile v1.4.2 [2]
- Message Access Profile v1.3.2 [3]
- Message Access Profile v1.3.1 [4]

Abstract:

This update clarifies requirements for MMS support and improves SDP discoverability for MMS.

Version History

Version Number	Date (yyyy-mm-dd)	Comments
v1.0	2026-11-02	Adopted by the Bluetooth SIG Board of Directors.

Acknowledgments

Name	Company
Mustafa Chmeiseh	General Motors
Hai Shalom	Apple Inc.

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1 Drafting conventions

1.1 Language

Refer to and follow any terminology, language conventions, and interpretation sections of the Source Specification(s).

1.2 Formatting and color

The formatting and color conventions described in Table 1.1 below are used in this Expedited Specification Update to describe the specific changes and additions to the Source Specification(s) identified on the cover page.

Text Color	Description
black	Text that is unmodified from the Source Specification.
red	Text that is added to the Source Specification.
~~red strikethrough~~	Text that is deleted from the Source Specification.
[green bracketed text]	Comments that explain the changes to be made to the Source Specification.
[...]	Indicates the section of the Source Specification that includes additional text that is not included in black text.
blue	Default color used for section numbers and headings of this document.

Table 1.1: Color key for headings, captions, and body text

2 Changes to Message Access Profile v1.4.3

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Message Access Profile v1.4.3.

2.1 Changes to Message Access Profile v1.4.3

2.1.1 [Modified Section] 3.1.3.1 Message Format (x-bt/message): Version 1.0

[The modified text with changes is shown below.]

[...]

bmessage-recipient:

This property includes a vCard identifying the recipient of the messages (see also definition of 'vCard' property below).

In the case of an email, all the recipients in the MIME 'to:' field shall have their own bmessage-recipient property. When sending a message, the MSE shall also parse the MIME 'cc:' and 'bcc:' fields and apply the correct behavior for those recipients as defined in 5322 [14].

In the case of an MMS message, all recipients of the message shall be included in the envelope.

[...]

bmessage-envelope:

The maximum level of <bmessage-envelope> encapsulation shall be three. If the message originally received by the MSE has more than three encapsulation levels, the MSE shall deliver the upper three levels (i.e., the most recent ones).

In the case of an MMS message, all recipients of the message shall be included in the envelope.

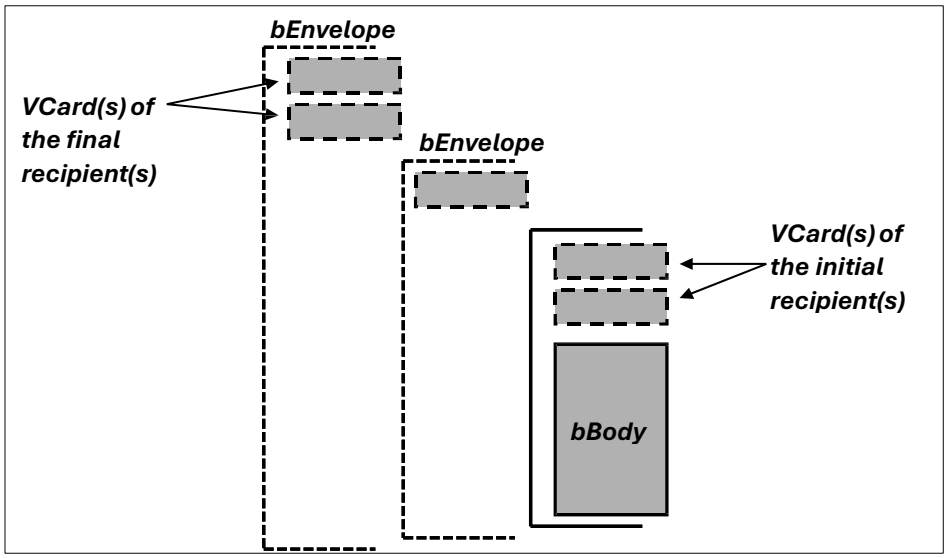


Figure 3.1: bEnvelopes encapsulation in a bMessage

[…]

2.1.2 [Modified Section] 3.1.8 MSE Instances

[The modified text with changes is shown below.]

MAP MSE devices may present one or several MAS Instances to the MCE, each providing the overall MAP MSE Server functionality. For each MAS Instance, there shall be exactly one MAS-Server SDP record (see also Section 6.5) and an MCE can access each MAS Instance by a dedicated OBEX connection. Figure 3.3 gives an example about a potential configuration:

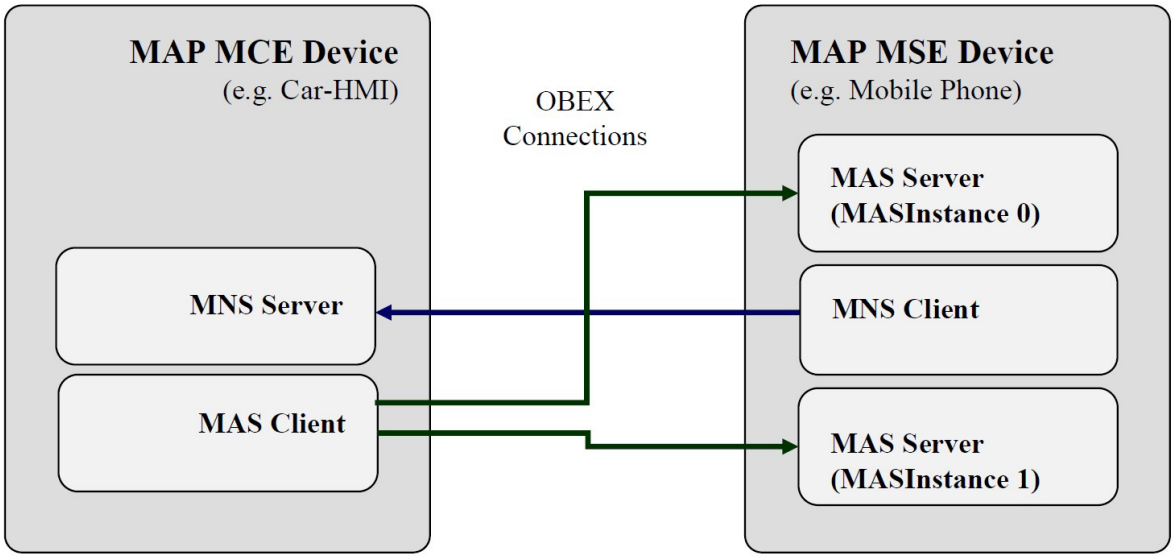


Figure 3.3: Example for two MAS Instances and its connections

The following requirements have to be considered:

- MSE device
  - MAP is capable of differentiating between Email, SMS, ~~and~~ MMS, and IM in one MAS Instance, so an MSE device (taking into consideration the recommendations below) should present its messages by one MAS Instance to minimize the number of OBEX connections required. This MAS Instance shall ~~at least~~ include the SMS and MMS repositor~~y~~ies of the MSE device.~~if these message types are supported and~~ This MAS instance may ~~also~~ include emails, IMs, or both. For this MAS Instance, the value of the related SDP record attribute 'MASInstanceID' shall be 0. The MSE device may present its email repository by an additional MAS Instance. The MSE device may present its IM repository with an additional MAS Instance.

[…]

2.1.3 [Modified Section] 7.1.2 SDP record for the Message Notification service on the MCE device

[The modified text with changes is shown below.]

Item	Definition	Type	Value	AttrID	Status	Default
ServiceClassID List				See [3]	M	
ServiceClass #0		UUID	Message Notification Server		M	
Protocol Descriptor List				See [3]	M	
Protocol #0		UUID	L2CAP		M	
Protocol #1		UUID	RFCOMM		M	
Param #0	Channel number	uint8	N= Channel number		M	
Protocol #2		UUID	OBEX		M	
ServiceName	Displayable text name	String	Service-provider defined	See [3]	M	"MAP MNS-name"
Bluetooth Profile Descriptor List					M	
Profile #0	Supported profiles	UUID	Message Access Profile	See [3]	M	
Param #0	Profile version	uint16	v1.4		M	0x0104
GoepL2CapPsm	L2CAP PSM	uint16	Varies	See [3]	M	
MapSupportedFeatures[1]		uint32	Bit 0 = Notification Registration Feature Bit 1 = Notification Feature Bit 2 = Browsing Feature	See [3]	M	

Item	Definition	Type	Value	AttrID	Status	Default
			Bit 3 = Uploading Feature Bit 4 = Delete Feature Bit 5 = Instance Information Feature Bit 6 = Extended Event Report 1.1 Bit 7 = Event Report Version 1.2 Bit 8 = Message Format Version 1.1 Bit 9 = Messages-Listing Format Version 1.1 Bit 10 = Persistent Message Handles Bit 11 = Database Identifier Bit 12 = Folder Version Counter Bit 13 = Conversation Version Counters Bit 14 = Participant Presence Change Notification Bit 15 = Participant Chat State Change Notification Bit 16 = PBAP Contact Cross Reference Bit 17 = Notification Filtering Bit 18 = UTC Offset Timestamp Format Bit 19 = Reserved Bit 20 = Conversation listing Bit 21 = Owner status			

Item	Definition	Type	Value	AttrID	Status	Default
			Bit 22 = Message Forwarding Bit 23–31 = Reserved for Future Use[2]			
SupportedMessageTypes		uint8	Bit 0 = EMAIL Bit 1 = SMS_GSM Bit 2 = SMS_CDMA Bit 3 = MMS Bit 4 = IM Bit 5–7 = Reserved for Future Use		M	

Table 7.2: SDP Record for the Message Notification Service on the MCE Device

[1]Backwards compatibility: If the MapSupportedFeatures attribute is not present, 0x0000001F shall be assumed for a remote MCE.

[2]Based on the features from the associated bit shall be set to 1 if supported; 0 if not. Reserved bits shall be set to 0 and ignored by the MSE as future versions might use them.

3 Changes to Message Access Profile v1.4.2

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Message Access Profile v1.4.2.

3.1 Changes to Message Access Profile v1.4.2

3.1.1 [Modified Section] 3.1.3.1 Message Format (x-bt/message): Version 1.0

[The modified text with changes is shown below.]

[...]

bmessage-recipient:

This property includes a vCard identifying the recipient of the messages (see also definition of 'vCard' property below).

In the case of an email, all the recipients in the MIME 'to:' field shall have their own bmessage-recipient property. When sending a message, the MSE shall also parse the MIME 'cc:' and 'bcc:' fields and apply the correct behavior for those recipients as defined in RFC2822 [15].

In the case of an MMS message, all recipients of the message shall be included in the envelope.

[...]

bmessage-envelope:

The maximum level of <bmessage-envelope> encapsulation shall be three. If the message originally received by the MSE has more than three encapsulation levels, the MSE shall deliver the upper three levels (i.e., the most recent ones).

In the case of an MMS message, all recipients of the message shall be included in the envelope.

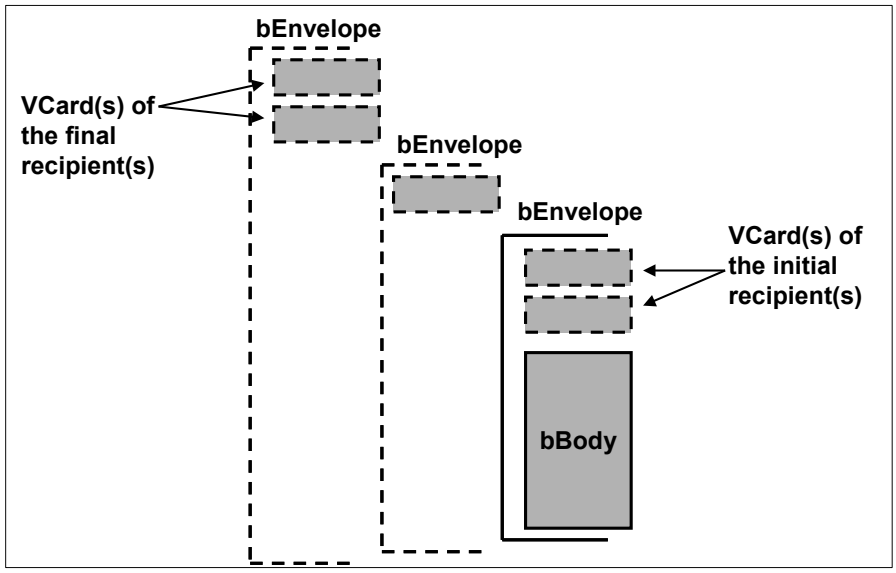


Figure 3.1: bEnvelopes encapsulation in a bMessage

[…]

3.1.2 [Modified Section] 3.1.8 MSE Instances

[The modified text with changes is shown below.]

MAP MSE devices may present one or several MAS Instances to the MCE, each providing the overall MAP MSE Server functionality. For each MAS Instance, there shall be exactly one MAS-Server SDP record (see also Section 6.5) and an MCE can access each MAS Instance by a dedicated OBEX connection. Figure 3.3 gives an example about a potential configuration:

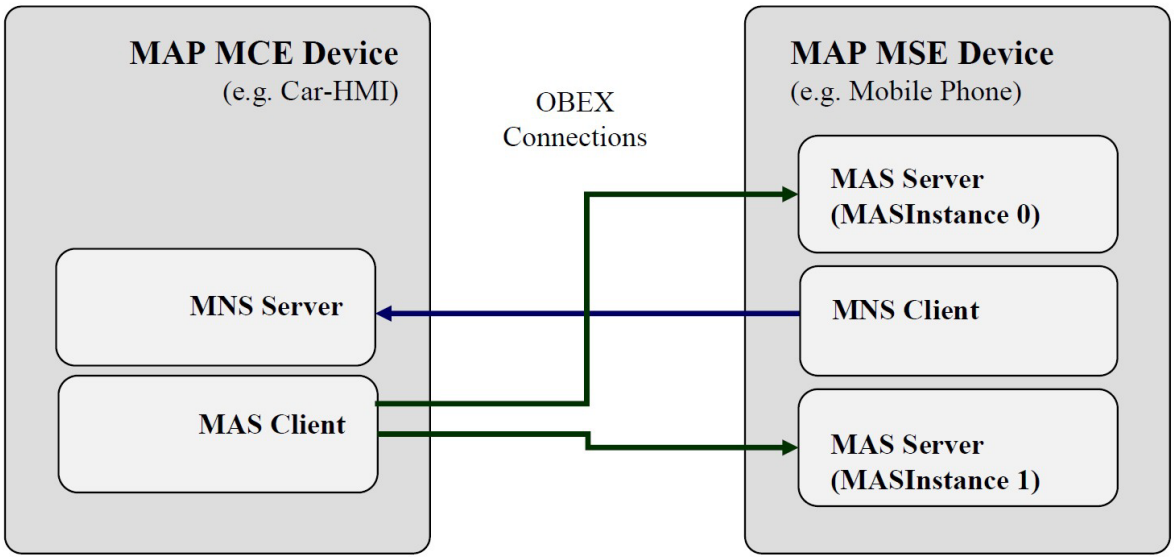


Figure 3.3: Example for two MAS Instances and its connections

The following requirements have to be considered:

- MSE device
  - MAP is capable of differentiating between Email, SMS, ~~and~~ MMS, and IM in one MAS Instance, so an MSE device (taking into consideration the recommendations below) should present its messages by one MAS Instance to minimize the number of OBEX connections required. This MAS Instance shall at least include the SMS and MMS repositor~~y~~ies of the MSE device.~~if these message types are supported and~~ This MAS instance may ~~also~~ include emails, IMs, or both. For this MAS Instance, the value of the related SDP record attribute 'MASInstanceID' shall be 0. The MSE device may present its email repository by an additional MAS Instance. The MSE device may present its IM repository with an additional MAS Instance.

[…]

3.1.3 [Modified Section] 7.1.2 SDP record for the Message Notification service on the MCE device

[The modified text with changes is shown below.]

Item	Definition	Type	Value	AttrID	Status	Default
ServiceClassID List				See [2]	M	
ServiceClass #0		UUID	Message Notification Server		M	
Protocol Descriptor List				See [2]	M	
Protocol #0		UUID	L2CAP		M	
Protocol #1		UUID	RFCOMM		M	
Param #0	Channel number	uint8	N= Channel number		M	
Protocol #2		UUID	OBEX		M	
ServiceName	Displayable text name	String	Service-provider defined	See [2]	M	"MAP MNS-name"
Bluetooth Profile Descriptor List					M	
Profile #0	Supported profiles	UUID	Message Access Profile	See [2]	M	
Param #0	Profile version	uint16	v1.4		M	0x0104
GoepL2CapPsm	L2CAP PSM	uint16	Varies	See [2]	M	
MapSupportedFeatures[1]		uint32	Bit 0 = Notification Registration Feature Bit 1 = Notification Feature Bit 2 = Browsing Feature	See [2]	M	

Item	Definition	Type	Value	AttrID	Status	Default
			Bit 3 = Uploading Feature Bit 4 = Delete Feature Bit 5 = Instance Information Feature Bit 6 = Extended Event Report 1.1 Bit 7 = Event Report Version 1.2 Bit 8 = Message Format Version 1.1 Bit 9 = Messages-Listing Format Version 1.1 Bit 10 = Persistent Message Handles Bit 11 = Database Identifier Bit 12 = Folder Version Counter Bit 13 = Conversation Version Counters Bit 14 = Participant Presence Change Notification Bit 15 = Participant Chat State Change Notification Bit 16 = PBAP Contact Cross Reference Bit 17 = Notification Filtering Bit 18 = UTC Offset Timestamp Format Bit 19 = Reserved Bit 20 = Conversation listing Bit 21 = Owner status			

Item	Definition	Type	Value	AttrID	Status	Default
			Bit 22 = Message Forwarding Bit 23–31 = Reserved for Future Use[2]			
SupportedMessageTypes		uint8	Bit 0 = EMAIL Bit 1 = SMS_GSM Bit 2 = SMS_CDMA Bit 3 = MMS Bit 4 = IM Bit 5–7 = Reserved for Future Use		M	

Table 7.2: SDP Record for the Message Notification Service on the MCE Device

[…]

4 Changes to Message Access Profile v1.3.2

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Message Access Profile v1.3.2.

4.1 Changes to Message Access Profile v1.3.2

4.1.1 [Modified Section] 3.1.4 Message Format (x-bt/message): Version 1.0

[The modified text with changes is shown below.]

[...]

bmessage-recipient:

This property includes a vCard identifying the recipient of the messages (see also definition of 'vCard' property below).

In the case of an email, all the recipients in the MIME 'to:' field shall have their own bmessage-recipient property. When sending a message the MSE shall also parse the MIME 'cc:' and 'bcc:' fields and apply the correct behavior for those recipients as defined in RFC5322 [14].

In the case of an MMS message, all recipients of the message shall be included in the envelope.

[...]

bmessage-envelope:

The maximum level of <bmessage-envelope> encapsulation shall be 3. If the message originally received by the MSE has more than 3 encapsulation levels, the MSE shall deliver the upper 3 levels, i.e., the most recent ones.

In the case of an MMS message, all recipients of the message shall be included in the envelope.

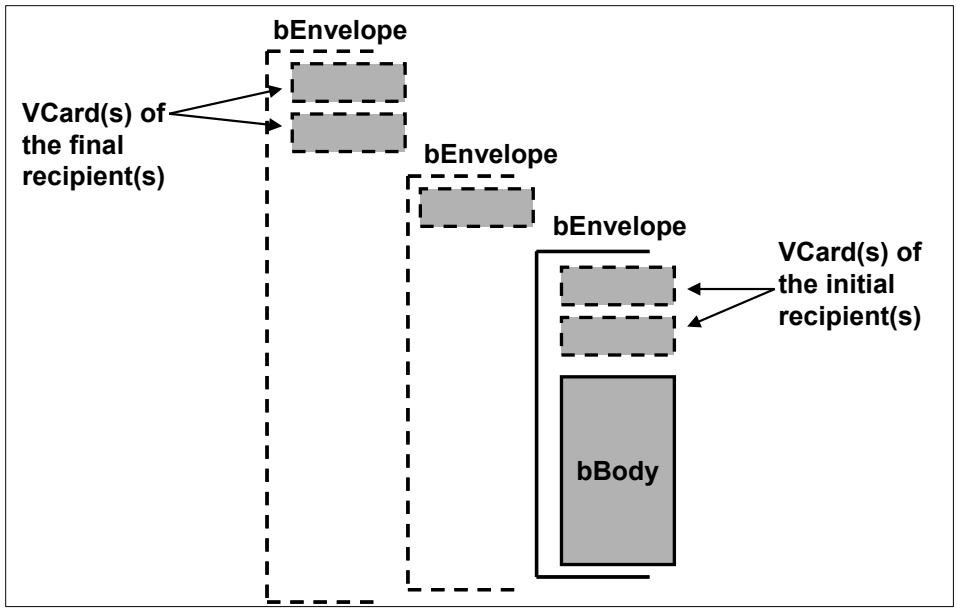


Figure 3.1: bEnvelopes encapsulation in a bMessage

[...]

4.1.2 [Modified Section] 3.1.8 MSE Instances

[The modified text with changes is shown below.]

MAP MSE devices may present one or several MAS Instances to the MCE, each providing the overall MAP MSE Server functionality. For each MAS Instance there shall be exactly one MAS-Server SDP record (see also section 6.5) and a MCE can access to each MAS Instance by a dedicated OBEX connection. Figure 3.4 gives an example about a potential configuration:

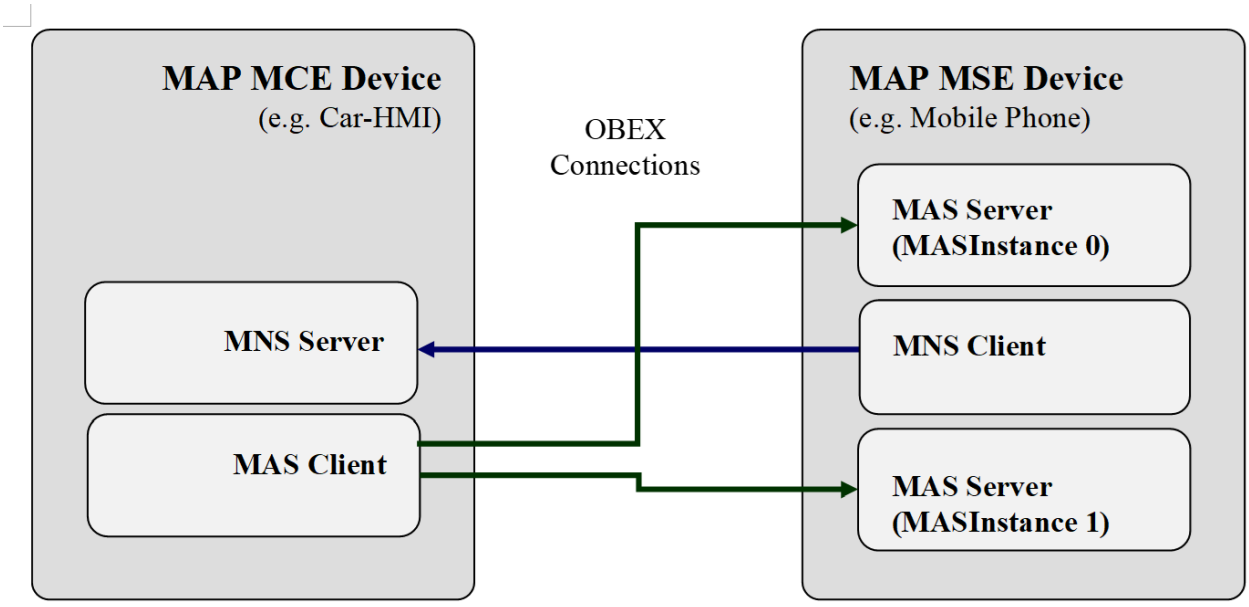


Figure 3.4: Example for two MAS Instances and its connections

The following requirements have to be considered:

- MSE device
  - MAP is capable to differentiate in one MAS Instance between Email, SMS, ~~and~~ MMS, and IM, so an MSE device – taking into consideration the recommendations below – should present its messages by one MAS Instance to minimize the number of OBEX connections required. This MAS Instance shall at least include the SMS and MMS repository~~ies~~ of the MSE device.~~if these message types are supported and~~ This MAS instance may include ~~also~~ emails, IMs, or both. For this MAS Instance the value of the related SDP record attribute 'MASInstanceID' shall be 0. The MSE device may present its email repository by an additional MAS Instance. The MSE device may present its IM repository with an additional MAS Instance.

[…]

4.1.3 [Modified Section] 7.1.2 SDP record for the Message Notification service on the MCE device

[The modified text with changes is shown below.]

Item	Definition	Type	Value	AttrID	Status	Default
ServiceClassID List				See [3]	M	
ServiceClass #0		UUID	Message Notification Server		M	
Protocol Descriptor List				See [3]	M	
Protocol #0		UUID	L2CAP		M	
Protocol #1		UUID	RFCOMM		M	
Param #0	Channel number	Uint8	N= Channel number		M	
Protocol #2		UUID	OBEX		M	
ServiceName	Displayable text name	String	Service-provider defined	See [3]	M	"MAP MNS-name"
Bluetooth Profile Descriptor List					M	
Profile #0	Supported profiles	UUID	Message Access Profile	See [3]	M	

Item	Definition	Type	Value	AttrID	Status	Default
Param #0	Profile version	Uint16			M	0x0103
GoepL2CapPsm	L2CAP PSM	Uint16	Varies	See [3]	M	
MapSupportedFeatures[1]		Uint32	Bit 0 = Notification Registration Feature Bit 1 = Notification Feature Bit 2 = Browsing Feature Bit 3 = Uploading Feature Bit 4 = Delete Feature Bit 5 = Instance Information Feature Bit 6 = Extended Event Report 1.1 Bit 7 = Event Report Version 1.2 Bit 8 = Message Format Version 1.1 Bit 9 = Messages-Listing Format Version 1.1 Bit 10 = Persistent Message Handles Bit 11 = Database Identifier Bit 12 = Folder Version Counter Bit 13 = Conversation Version Counters Bit 14 = Participant Presence Change Notification Bit 15 = Participant Chat State Change Notification	See [3]	M	

Item	Definition	Type	Value	AttrID	Status	Default
			Bit 16 = PBAP Contact Cross Reference Bit 17 = Notification Filtering Bit 18 = UTC Offset Timestamp Format Bit 19 = Reserved Bit 20 = Conversation listing Bit 21 = Owner status Bit 22 to 31 Reserved[2]			
SupportedMessageTypes		uint8	Bit 0 = EMAIL Bit 1 = SMS_GSM Bit 2 = SMS_CDMA Bit 3 = MMS Bit 4 = IM Bit 5–7 = Reserved for Future Use		M	

[…]

5 Changes to Message Access Profile v1.3.1

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Message Access Profile v1.3.1.

5.1 Changes to Message Access Profile v1.3.1

5.1.1 [Modified Section] 3.1.3.1 Message Format (x-bt/message): Version 1.0

[The modified text with changes is shown below.]

[...]

bmessage-recipient:

This property includes a vCard identifying the recipient of the messages (see also definition 'vCard' property below).

In the case of an email, all the recipients in the MIME 'to:' field shall have their own bmessage-recipient property. When sending a message the MSE shall also parse the MIME 'cc:' and 'bcc:' fields and apply the correct behavior for those recipients as defined in RFC2822.

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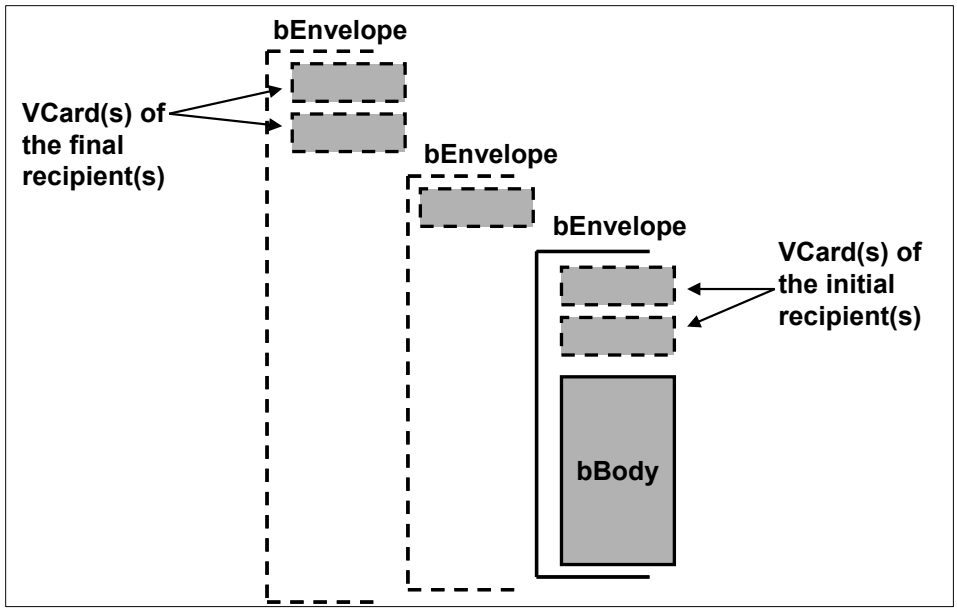


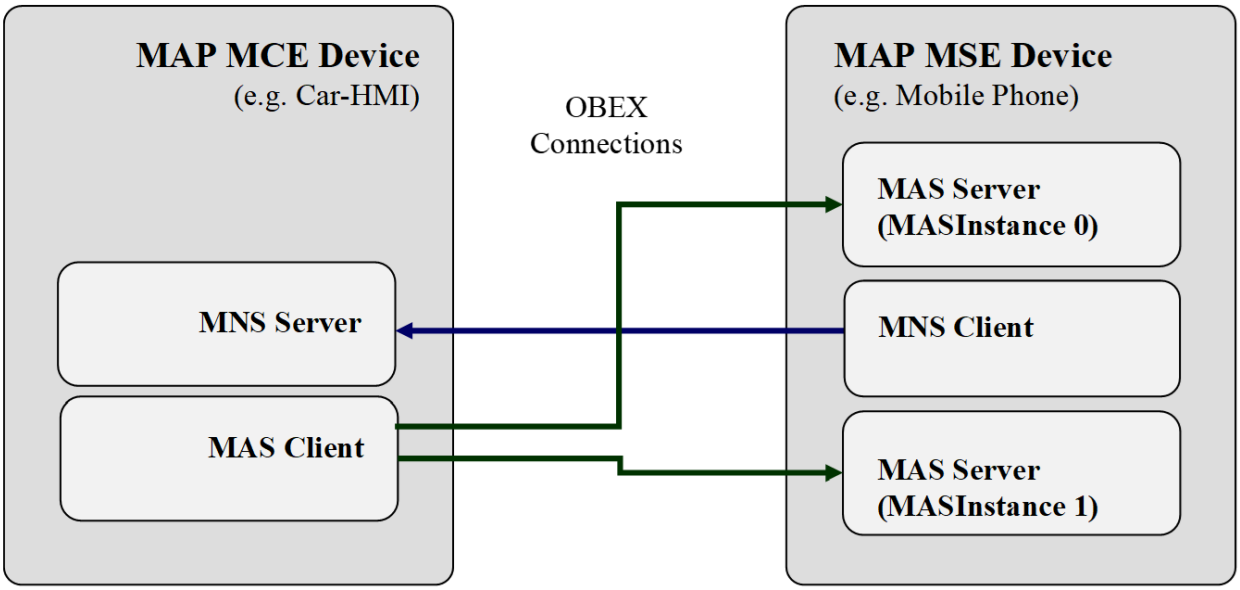
Figure 3.1: bEnvelopes encapsulation in a bMessage

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5.1.2 [Modified Section] 3.1.8 MSE Instances

[The modified text with changes is shown below.]

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Figure·3.4:·Example·for·two·MAS·Instances·and·its·connections¶

The following requirements have to be considered:

- MSE device
  - MAP is capable to differentiate in one MAS Instance between Email, SMS, ~~and~~ MMS, and IM, so an MSE device – taking into consideration the recommendations below – should present its messages by one MAS Instance to minimize the number of OBEX connections required. This MAS Instance shall at least include the SMS and MMS repository~~ies~~ of the MSE device.~~if these message types are supported, and~~ This MAS instance may include ~~also~~ emails, IMs, or both. For this MAS Instance the value of the related SDP record attribute 'MASInstanceID' shall be 0. The MSE device may present its email repository by an additional MAS Instance. The MSE device may present its IM repository with an additional MAS Instance.

[…]

5.1.3 [Modified Section] 7.1.2 SDP record for the Message Notification service on the MCE device

[The modified text with changes is shown below.]

Item	Definition	Type	Value	AttrID	Status	Default
ServiceClassID List				See [3]	M	
ServiceClass #0		UUID	Message Notification Server		M	
Protocol Descriptor List				See [3]	M	
Protocol #0		UUID	L2CAP		M	
Protocol #1		UUID	RFCOMM		M	
Param #0	Channel number	Uint8	N= Channel number		M	
Protocol #2		UUID	OBEX		M	
ServiceName	Displayable text name	String	Service-provider defined	See [3]	M	"MAP MNS-name"
Bluetooth Profile Descriptor List					M	
Profile #0	Supported profiles	UUID	Message Access Profile	See [3]	M	

Item	Definition	Type	Value	AttrID	Status	Default
Param #0	Profile version	Uint16			M	0x0103
GoepL2CapPsm	L2CAP PSM	Uint16	Varies	See [3]	M	
MapSupportedFeatures[1]		Uint32	Bit 0 = Notification Registration Feature Bit 1 = Notification Feature Bit 2 = Browsing Feature Bit 3 = Uploading Feature Bit 4 = Delete Feature Bit 5 = Instance Information Feature Bit 6 = Extended Event Report 1.1 Bit 7 = Event Report Version 1.2 Bit 8 = Message Format Version 1.1 Bit 9 = Messages-Listing Format Version 1.1 Bit 10 = Persistent Message Handles Bit 11 = Database Identifier Bit 12 = Folder Version Counter Bit 13 = Conversation Version Counters Bit 14 = Participant Presence Change Notification Bit 15 = Participant Chat State Change Notification	See [3]	M	

Item	Definition	Type	Value	AttrID	Status	Default
			Bit 16 = PBAP Contact Cross Reference Bit 17 = Notification Filtering Bit 18 = UTC Offset Timestamp Format Bit 19 = Reserved Bit 20 = Conversation listing Bit 21 = Owner status Bit 22 to 31 = Reserved[2]			
SupportedMessageTypes		uint8	Bit 0 = EMAIL Bit 1 = SMS_GSM Bit 2 = SMS_CDMA Bit 3 = MMS Bit 4 = IM Bit 5–7 = Reserved for Future Use		M	

[…]

6 References

[1] Message Access Profile v1.4.3

[2] Message Access Profile v1.4.2

[3] Message Access Profile v1.3.2

[4] Message Access Profile v1.3.1