

Messaging Characteristics In Nokia CDMA Devices

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Messaging

NOKIA

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Change History

June 28, 2004	Version 1.0	Initial document release
December 2, 2004	Version 1.1	Nokia 6235 and Nokia 6235i devices added
March 14, 2005	Version 1.2	Nokia 3152, Nokia 3155, Nokia 3155i, Nokia 6155, Nokia 6155i, and Nokia 6635 devices added

1 Supported Smart Messaging Features

The following table shows supported Smart Messaging features for Nokia CDMA devices. However, due to differences in the implementation of network services supported by different CDMA operators, the same Nokia CDMA mobile device model may be configured differently in some geographic areas and on some operator networks. It is recommended to check with your operator whether Smart Messaging is supported on the mobile device in question.

	Ring tone	Operator logo	Picture message	Business card (vCard)	Calendar reservation (vCal)
3105	X	X	X	X	X
3125	X	X	X	X	X
3152	X	X	X	X	X
3155	X	X	X	X	X
3155i	X	X	X	X	X
3205	X	X	X	X	X
3585i	X	X	X	X	X
3586	X	X	X	X	X
3586i	X	X	X	X	X
3587	X	X	X	X	X
3587i	X	X	X	X	X
6012	X	X	X	X	X
6015	X	X	X	X	X
6015i	X	X	X	X	X
6155	X	X	X	X	X
6155i	X	X	X	X	X
6225	X	X	X	X	X
6235	X	X	X	X	X
6235i	X	X	X	X	X
6255	X	X	X	X	X
6255i	X	X	X	X	X
6585	X	X	X	X	X
6635	NA	NA	NA	NA	NA

2 Supported MMS Features

The following tables show supported Multimedia Messaging Service (MMS) features in current Nokia CDMA devices. Although there are varying standards for transporting multimedia content (such as

Picture Messaging), the Nokia 6585 mobile device was the first Nokia CDMA device to support OMA standard MMS.

The following are explanations for the characters used in the tables:

1. S = Send
2. R = Receive and view the content in the MMS viewer. The content can also be saved to the device and used by another application.
3. R¹ = Receive, save, and use another application to view the content. The content cannot be viewed in the MMS viewer. The content must first be saved and then opened in the appropriate application.

The maximum recommended MMS message sizes for all devices are listed at the end of the Other Content table in Section 2.2.3, "Other content."

2.1 Developer Platform

Nokia's Developer Platform approach is designed to help developers build and deliver mobile applications to a global audience in less time, with less effort, and with less cost. Developers can build core functionality on top of the Developer Platform technologies, and then optimize their applications for specific user interfaces and technology extensions for target devices.

Developer Platforms offer sustainable business opportunities for mobile application developers. Developer Platforms give developers the ability to reach consumers and enterprises alike on a mass-market scale. In addition to providing volume benefits, working with Developer Platforms lets developers easily keep pace with new software and hardware technologies.

Nokia assists developers in building, marketing, and selling applications. For more information about Forum Nokia's application testing and certification services, marketing programs, and B2B and B2C channels, please visit www.forum.nokia.com.

2.2 The Series 40 Developer Platform

Series 40 Developer Platform 1.0 brings color displays, Java™ programmability, and multimedia messaging to the mass market. It provides a rich, common set of Java APIs, a browsing environment based on the WAP specification, and multimedia messaging.

Series 40 Developer Platform 2.0 brings Java MIDP 2.0, Wireless Messaging API, Mobile Media API, Bluetooth API, XHTML browsing, MMS messaging with SMIL, OMA DRM, and OMA Client Provisioning to the mass market. For more information about the Series 40 Developer Platforms and the tools available, please visit www.forum.nokia.com.

In the following tables, the features supported by Developer Platform 1.0 are listed first, followed by the devices that are compatible with Developer Platform 1.0 but support some additional features. Similarly, the features of Developer Platform 2.0 and the devices compatible with Developer Platform 2.0 are defined in the tables.

2.2.1 Graphics

Graphics	DP 1.0	6585	3105	3125	3205	6225	DP 2.0	6235	6235i	6255	6255i
Image/jpeg, baseline (*.jpeg, *.jpg)	S/R						S/R				

Graphics	DP 1.0	6585	3105	3125	3205	6225		DP 2.0	6235	6235i	6255	6255i	
Image/jpeg, progressive	-	S/R							-				
Image/gif, static (gif87a, gif89a) (*.gif)	S/R							S/R					
Image/gif, animated (gif89a)(*.gif)	S/R							S/R					
Image/png (*.png)	S/R							S/R					
Image/bmp (*.bmp)	S/R							S/R					
Image/vnd.wap.wbmp (*.wbmp)	S/R ⁽²⁾							S/R					
Image/vnd.nok-wallpaper (*.jpg, *.gif) ⁽¹⁾	R							R					

(1) Protected content types. These content types can only be saved to the device. Sending and forwarding are not allowed. (2) DRM enforced (These footnotes apply to the grid continued below.)

Graphics	DP 2.0	3152	3155	3155i	6155	6155i
Image/jpeg, baseline (*.jpeg, *.jpg)	S/R					
Image/jpeg, progressive	S/R					
Image/gif, static (gif87a, gif89a) (*.gif)	S/R					
Image/gif, animated (gif89a)(*.gif)	S/R					
Image/png (*.png)	S/R					
Image/bmp (*.bmp)	S/R					
Image/vnd.wap.wbmp (*.wbmp)	S/R ⁽²⁾					
Image/vnd.nok-wallpaper (*.jpg, *.gif) ⁽¹⁾	R					

2.2.2 Audio¹

Audio	DP 1.0	6585	3105	3125	3205	6225		DP 2.0	6235	6235i	6255	6255i	
application/vnd.Nokia.ring-tone ^{(1), (2)}	R								R				
Audio/amr (*.amr)	-		R		S/R			S/R					
Audio/amr-wb (*.awb) ⁽²⁾	-	R ¹			-			-					
Audio/midi (*.mid) ⁽²⁾	R				S/R ⁽³⁾	R		R					

¹ Implementation may vary in some operator networks.

Audio/sp-midi (*.mid) ⁽²⁾	R		S/R ⁽³⁾	R		R	
Audio/qcelp	-	R	S/R			R	S/R

(1) Defined in Smart Messaging Specification. (2) Protected content types. These content types can only be saved to the device. Sending and forwarding are not allowed. (3) DRM enforced.

Audio	DP 2.0	3152	3155	3155i	6155	6155i
application/vnd.Nokia.ring-tone ^{(1), (2)}	R					
Audio/amr (*.amr)	S/R					
Audio/amr-wb (*.awb) ⁽²⁾	-					
Audio/midi (*.mid) ⁽²⁾	R					
Audio/sp-midi (*.mid) ⁽²⁾	R					
Audio/qcelp	R	S/R				

(1) Defined in Smart Messaging Specification. (2) Protected content types. These content types can only be saved to the device. Sending and forwarding are not allowed. (3) DRM enforced

2.2.3 Other content

Other Content	DP 1.0	6585	3105	3125	3205	6225		DP 2.0	6235	6235i	6255	6255i
text/plain	S/R							S/R				
Video/3gpp (*.3gp)	-			S/R				S/R				
Max. MMS message size, kB	45							100-300				

Other Content	DP 2.0	3152	3155	3155i	6155	6155i
text/plain	S/R					
Video/3gpp (*.3gp)	S/R					
Max. MMS message size, kB	100					

3 Terminal Display Areas

3.1 Nokia 3585i, 3586, 3586i, 3587, 3587i, 6012, 6015, 6015i

- Screen size: 96 x 65
- Wallpaper: 96 x 65 (the Nokia 3585i mobile device does not support wallpaper)
- Operator logo: 72 x 14
- MMS viewer: MMS is not supported by these models

3.2 Nokia 3105, 3125, 3205, 6225, 6235, 6235i, 6585

- Screen size: 128 x 128

- Wallpaper: 128 x 128
- Operator logo: 100 x 50
- MMS viewer: 122 x 96

3.3 Nokia 3152, 3155, 3155i, 6155, 6155i, 6255, 6255i

- Screen size: 160 x 128
- Wallpaper: 160 x 128
- Operator logo: 100 x 50
- MMS viewer: 128 x 115

As wallpaper, large images are scaled down to a 160 x 128 display and centered.

Larger images are also supported, but they are scaled down to fit the screen. Smaller images are centered. The images are saved in their original size.

4 Terms and Abbreviations

Term or abbreviation	Meaning
CLI	Caller Line Identification
GPRS	General Packet Radio Service
MMS	Multimedia Messaging Service
OMA	Open Mobile Alliance
SMIL	Synchronized Multimedia Integration Language
SMS	Short Message Service
WAP	Wireless Application Protocol

5 Evaluate This Document

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