

MMS Building And Sending Guide for HiLo

Edition 01

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1. MMS file

The MMS is created with "MMSCOMP" tool from NowSMS trial software suite - <http://www.nowsms.com/downloads/smsmmsgateway>.

In this example we will send an image: sun.jpeg

From: +353870651946

To: +353868154702

The text of the MMS is in the file: text.txt

1.1. *Create two files*

- Mymms.hdr : It is a text file that contains text representations of the MMS message header. Each line must have a carriage return , even the last one.

```
X-Mms-Message-Type: m-send-req
X-MMS-Transaction-ID: 4663
X-Mms-Version: 1.0
From: +353870651946/TYPE=PLMN
To: +353868154702/TYPE=PLMN
Subject: MMS Test
X-Mms-Message-Class: Personal
X-Mms-Priority: Normal
X-Mms-Delivery-Report: No
X-Mms-Read-Reply: No
Content-type: application/vnd.wap.multipart.related
```

- Strctmms.smil : Description of the MMS used by MMSCOMP (SMIL language).

```
<text src="test.txt" region="region1_1"/>

```

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1.2. Build MMS body:

MMSCOMP is used to build the MMS. This software is used with command line, it will convert the header from Mymms.hdr and the MMS structure file from Strctmms.smil. For more details about MMSCOMP options please refer to the NowSMS documentation.

We assume that all the files needed to build the MMS are in the same directory. Run the following command:

```
MMSCOMP Mymms.hdr Strctmms.smil test.txt sun.jpeg
```

This will generate a binary file named `Mymms.MMS`.
For the next part we assume that the size of the file is 71441.

2. MMS configuration

We use AT+KMMCNF to configure MMS service centre, parameters surrounded by "<...>" must be changed according to your operator.

MMS Notification activation

```
> AT+KMMCNF=0,1  
< OK
```

MMSC URL

```
> AT+KMMCNF=1,"<http://your.operator.mms.center>"  
< OK
```

GPRS access to network

```
> AT+KMMCNF=3,"<APN>","<login>","<password>","<IP address>",0  
< OK
```

Preferred access mode (Here GPRS only)

```
> AT+KMMCNF=4,1  
< OK
```

We can now send and receive MMS.

3. Send a MMS

Before sending a MMS we have to download it to the module with the command AT+KPSW. In this example we send "MymmsFinal.bin" which is a jpeg image

```
> AT+KPSW="MMS",71441
< CONNECT
... Send "MymmsFinal.bin" through serial link ...
< NO CARRIER
< +KPSW: "5307930000008FF03E8"
```

First parameter of +KPSW is your MMS identification in module's memory, of course the value will differ during your test.

Once the MMS is correctly stored, we ask the module to send it with the send command AT+KPSSEND.

```
> AT+KPSSEND="5307930000008FF03E8"
< +KPSSEND: 1
<
< OK
```

The module starts sending the MMS once OK is returned. The +KPSSR notification is sent by the module when the MMS has been uploaded to the MMS service centre.

```
< +KPSSR:
"53079300000048FF03E8",0,"4660","1550880800@ericsson2.mms.orange.fr"
```

Second parameter of +KPSSR is the result of the operation. Its value is 0 when the transaction succeeds. If the transaction fails, check whether the phone numbers are correct in the MMS file or whether the file has been corrupted. The last two parameters correspond to the sender ID and transaction ID, they will differ from these displayed during your test.