

## Wireless Solutions

# Developer Suite Examples

## USIM R6

### STK Commands

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## Purpose and description

This example illustrates:

- How to implement the most common proactive SIM Toolkit commands in an applet.
- How Developer Suite Mobile Simulator supports the different proactive commands.

This applet is presented as a series of SIM Toolkit menus, each menu grouping a set of related proactive commands. The following commands and features are included:

- **Common STK features**
  - Icon management (with self-explanatory icon and not self-explanatory icon qualifiers)
  - Help management
- **User interaction**
  - Display text (with clear after delay and clear after user action qualifiers)
  - Select item (with choice of data values, choice of navigation options and soft key preferred qualifiers).
  - Get Input (with digit filter/hide input and SMS character/show input qualifiers)
  - Get Inkey (with character input and yes/no input qualifiers)
- **Mobile interaction**
  - Play Tone
  - Provide Local Information (with local information qualifier)
  - Refresh (with SIM Initialization/File Change Notification and SIM reset qualifiers)
  - Timer Management (with start timer, get timer value and stop timer qualifiers)
  - Launch Browser (with ME default URL qualifier)
- **Network interaction**
  - Send short message
  - Set up call
- **Card interaction**
  - Get reader status
  - Power up card
  - Perform Card APDU
  - Power down card

**Note:** In order to test **Icon Management** on the Mobile Simulator the icon support options must be set:

- a. In the 'Mobile Simulator' menu, choose 'Mobile Options'.
- b. In the 'Mobile Options' dialog box, click the 'Icons' tab and make sure that the 'Mobile Simulator supports icons' and 'Black & white or color icons' options are selected.

### How to download the applet

In order to test the Mobile Simulator's icon display abilities, some icons must be loaded in the card's Graphics directory under DF Telecom (7F10\5F50). The commands used to do this are included in the "AppletPerso3GV3.atf" personalization script provided in the project directory.

In order to download and test the applet:

- **On a card simulator:** After importing the STK Commands Project in Developer Suite, run it in debug. This will automatically:
  - Launch the Card Simulator
  - Load the STK Commands Applet
  - Run the personalization script, loading some icons under DF Telecom
  - Start the Mobile Simulator 3G
- **On a real card:** After importing the STK Commands Project in Developer Suite, you will have to manually:
  - Run the STK Commands Applet load script: `STKCommandsExample_load.gxsc`
  - Run the personalization script used to add some icons under DF Telecom
  - Start the Mobile Simulator 3G

## How to test the applet

You may test the commands supported by the applet by navigating in the Mobile Simulator's SIM Toolkit menu.



## Modifications

Date	Rev	Section	Modification Description
2007-07-03	1.0		Initial Document