***M-eux Test automates:***

- *Functional Testing*
- *Wireless Service Testing*
- *Field Tests of services and devices.*
- *Performance check of wireless services*
- *End-to-End testing: check the service from the device through the delivery platform.*

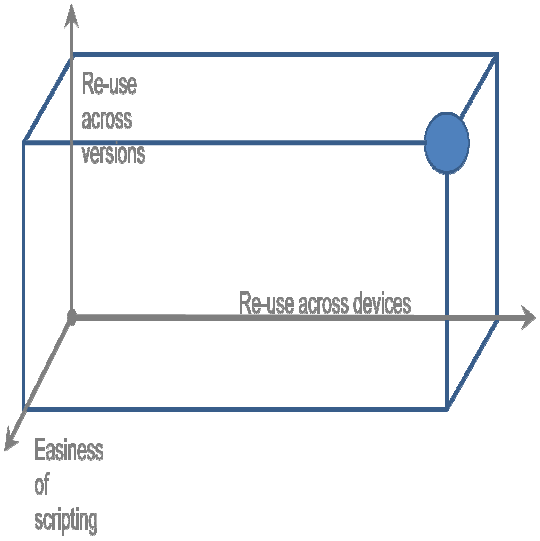
***M-eux Test Supports:***

- *Web-based applications*
- *GUI-based applications*
- *Wireless services*
- *Mobile OS verifications*


# M-eux Test: Mobile Test Automation

## Automate Functional Testing on the Mobile Device

Automation on mobile devices has been seen as unproductive since automation scripts and tools had difficulties to deal with the different hardware characteristic, the theme settings on the device, the language settings and the hardware constraints. M-eux Test is the first tool that generates instant return on investment in automation of mobile functional test cases. M-eux Test fulfills following three basic ROI requirements for automation of functional test cases:




**Requirement I:** The automation script needs to be re-usable across different models of the same mobile device family. No changes need to be applied in order to deal with changes in hardware characteristics as long as the type of operating system and applications on the mobile device are identical. The automation script is independent from the theme settings, font settings and other user configurations that can be applied on the mobile device.

**Requirement II:** The script needs to be re-usable across different versions of the application under test. Cosmetic changes might not lead to high maintenance work in the script. The script needs to be re-usable to test the inherited functionality in the new version.

**Requirement III:** The scripting effort needs to be as small as possible. Creation and maintenance of the script needs to be user friendly.

## GUI-Object recognition

M-eux Test recognizes the GUI objects on the device as a normal end-user is recognizing a window, a menu, a list, a button, etc. The script generated by M-eux Test shows the manipulation of the GUI objects that appeared on the screen of the mobile Device.

The script is easy to create, i.e. the tool supports recording mode. The statements describe the user actions in a natural readable format making them easy to maintain..

***M-eux Test – The mobile device automation tool:***

*Re-use the automation script across different models of mobile devices.*

*Re-use the automation script across different versions of the system under test.*

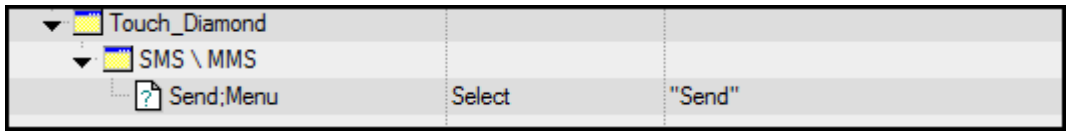
*Create and maintain the automation script in an easy, user-friendly way.*

*Re-use automation expertise and automation investment from the PC world.*

*Re-use the favorite development environment for creation of functional test cases.*

*Gain instant ROI by applying M-eux Test for mobile automation.*

**MobileDevice**("Touch").**MoWindow**( "SMS\MMS").**MoMenubar**("Send;Menu").**Select** "Send"




The replay of the statement of the above figure will search on the "Touch_Diamond" device for the SMS window. When the window is found, the tool will press on the "send" option on the menu bar.

Using GUI-objects, the test script is:

1. independent from the device hardware characteristics
2. independent from the look and feel.
3. re-usable across different versions
4. independent form the power of the device thanks to implicit synchronization on the GUI objects

## QuickTest Professional (*)

M-eux Test extends QuickTest Professional from HP, the leading testing tool for PC-based applications. Utilizing the QuickTest Professional environment allows the existing best practices to automate tests in the PC world to be easily re-used for the mobile world.

## Visual Studio (**)

M-eux Test extends Visual Studio from Microsoft. Developers can use their favorite development environment for automation of their test cases.

## *M-eux Test Features*

| | |
|---|---|
| ***Supported Mobile OS***:<br>• Windows Mobile 6.x Professional Edition<br>• Windows Mobile 6.x Classic Edition<br>• Windows Mobile 5.0 Pocket PC edition | ***Supported GUI Objects:***<br>• Microsoft Foundation Classes for Windows Mobile.<br>• Microsoft Compact Framework GUI objects<br>• HTML Web classes (through web add-on) |
| ***Supported version QuickTest Professional:***<br>• Versions 9.2 and 9.5 | ***Extended support CF .Net GUI objects:***<br>• Access from the script to .Net source code class attributes and methods<br>• Identification by internal .Net name |
| ***Manufacturer independent:***<br>• Supports Windows Mobile independent from hardware manufacturer | ***Pocket Internet Explorer support:***<br>• Supports automation of web/WAP access.<br>• Supports HTML objects |
| ***System functions:***<br>• Access to process information<br>• Access to system information<br>• Access to radio cell information<br>• Access to network information<br>• Access to application information | ***Monitor functions:***<br>• Concurrent execution on multiple devices<br>• Pre-defined functions to measure voice call, SMS, e-mail and others |

(*) QuickTest Professional is a product from Hewlett Packard.
(**) Visual Studio is a product from Microsoft.

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