M-eux Test automates:

- *Functional Testing*
- *Wireless Service Testing*
- *Field Tests of services and devices.*
- *Performance checks 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*

Automate test cases on Windows Mobile.

Automated testing of Windows Mobile applications
Jamo Solutions provides tools that automate the testing effort for mobile applications running on the Windows Mobile platform.
The tool "M-eux Test' is a test automation environment that ensures:

- *The re-use of test cases on different hardware platforms*. Today Windows Mobile devices are available from different manufacturers. From a specific manufacturer, you can have different models. All these windows mobile devices run the same operating system but have different hardware characteristics like screen resolution and keys. The scripts of M-eux test are hardware independent. Once implemented, a script can be re-used across different models.
- *The re-use of test cases across different version of the application under test.* The scripts made by M-eux Test can easily be re-used to ensure that existing functionality is still working in new versions of the application under test. This is called regression testing.
- *Easy creation and maintenance of the test scripts.* The technology applied by Jamo Solutions is easy to use, the scripts are readable and easy to maintain and the expertise gained by the usage of M-eux Test can be re-applied for testing applications on other platforms.

The technology platform of M-eux Test
ensures the above requirements by supporting:

- *Testing through the user interface of the application.* Just like a manual tester will describe his test cases by using the user interface elements, the automated test script is verifying and driving the user interface elements of the mobile application under test. By recognizing the user interface elements, the script becomes hardware independent. If a new version of the application under test is released, then preserved functionality can be tested with the old scripts. The tool will take care of cosmetic changes like a menu item that is now in a new position. By using the user interface elements, the script becomes also readable for a non-technical tester and the script is easy to maintain.
- *Extension of existing scripting environments.* M-eux Test did not implement its own scripting environment. In order to ensure a fast learning curve and to ensure re-use of gained expertise, M-eux Test is an extension of existing scripting environments. For users with a test engineering background, M-eux Test extends the leading test automation tool QuickTest Professional from Hewlett Packard. For users with a developer's background, M-eux Test extends Visual Studio from Microsoft.

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

Extends well known tools like QuickTest Profession from HP and Visual Studio from Microsoft

Supports the real actual device for test script creation and replay.

One script can replay against multiple devices. For example one script can send a SMS from one device and check the correct arrival on a second device.

Supports access to devices located remotely using the WAN connector.

Contains a local scheduler to plan the execution of test cases against the connected devices.

Support the real device and the emulators. Create one scripts and re-use for all devices running the same Mobile Operating System.

Windows Mobile GUI objects

M-eux Test is an all-round player and recognizes most of the user interface objects of Windows Mobile applications if these objects are developed following the Microsoft guidelines:

- All Microsoft Foundation Class objects are supported and special support is written for pre-defined applications like the agenda and the contact application.
- M-eux Test can be configured to deal with user defined objects that are derived from the Microsoft standard objects.
- Special support is foreseen for .Net Compact Framework customized objects.
- M-eux recognizes the html user interface of web-based applications rendered by the mobile version of Internet Explorer.

Business layer verification

In case of .Net Compact Framework applications, Run-on-Device supports access from the test script to the business objects inside the application under test.
M-eux Test and Run-on-Device can execute verification statements on the contents of the mobile SQL database running on the Windows Mobile device.

Windows Mobile System verification

Special functions are implemented to verify the Windows Mobile operating system. The tester can at any time verify for example:

- The number of processes running.
- The loaded DLL's inside one process
- The memory consumption
- The memory card space consumption
- The battery status

The tester can fill automatically the working memory or the space on the memory cards in order to verify if his application can run in extreme conditions.

Special functions are foreseen to launch and verify the mobile connections:

- Data communication
- Phone calls
- SMS messages
- E-mail messages
- MMS messages

Supported editions

Device Operating System	*Supported versions*
Windows Mobile	• Windows Mobile 2003 Pocket PC second edition • Windows Mobile 2005 Pocket PC • Windows Mobile 6.0, 6.1 and 6.5 o Classic, Standard Professional
Windows CE	• Windows CE 5.0 • Windows CE 6.0

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