

PRESS RELEASE

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eLeader's new Testing and Quality Assurance tool allows production costs of mobile applications to be reduced by up to 30%.

eLeader has unveiled its latest solution for testing and quality control of mobile software during the biggest mobile industry fair, the Mobile World Congress 2010 in Barcelona. eLeader Mobile Quality Studio is one of the few solutions in the world which automates the complex processes of testing mobile applications on various mobile operating systems.

The market for mobile applications installed directly on mobile phones is very rapidly growing. More than one billion applications per year are being downloaded from the Apple App Store alone. This growth is also evident in other mobile application stores such as Nokia's Ovi offering. Juniper Research predicts that by 2014, the mobile application market will grow to 25 billion dollars compared to \$ 8 billion today.

This growth is reinforced by the global trend of releasing mobile versions of internet applications in the form of "rich" mobile applications (so-called "fat client"), individually designed for different mobile operating systems. Dedicated applications installed on the handsets allow ease of use and depth of interactivity to be taken to a new level, compared to simple services delivered via browsers on mobile phone. Applications allow the highest possible level of user experience and usability of mobile software to be attained.

At the same time, one factor inhibiting the growth of the mobile application market is the diversity of mobile operating systems in use today. For comparison - in the case of desktop computers we have one dominant operating system - Windows, hence PC software is developed usually for only this operating system. In the case of smartphones and other mobile phones, there are many incompatible platforms: Symbian, iPhone OS, BlackBerry OS, Windows Phone, Google Android, and many others specific to particular manufacturers of mobile phones. In addition, there are other systems which are currently being introduced such as Nokia Maemo and Samsung Bada. Nearly every system platform requires a different approach to application development, which is time consuming and increases production costs.

The process of testing and quality control of mobile software for full range of devices is complex and expensive, especially when it involves complex business solutions with smartphone-server architecture.

Mobile banking is a good example. Verification of the software functionality is performed for approximately 1000-2000 test cases. When taking into account the hundreds of different device models, multiple operating systems and many mobile network operators in a given country, the number of required tests grows to several hundred thousand. It is worth noting that quality control should be repeated for each new version of the software prior to its release.

For this reason, many companies have so far decided to implement dedicated software for a limited number of device models - for example, only for the iPhone. This brought the advantage of reducing the cost of both production and testing - which has traditionally been carried out "manually". However, this approach significantly decreased the number of potential customers, to only iPhone users - that is, to a small percentage mobile users.

In short, the "manual" method of testing was not practical for solutions intended to work on the full range of mobile devices on the market, particularly for business critical systems (e.g. mobile brokerage). It would entail huge costs, very long testing time, and other organizational issues.

eLeader's software, presented at the MWC in Barcelona, solves these problems by introducing a new approach to maintaining high quality software and reducing the costs of the testing process.

eLeader Mobile Quality Studio integrates the complete mobile solution testing process in a single tool, taking into account different operating systems - both mobile and server. It allows automated testing of smartphone-server type applications, and possesses advanced features for testing complex business logic.

eLeader Mobile Quality Studio includes an advanced scripting language for defining logic tests. The tool can record testers actions as scripts, which can then be modified and extended. These scripts can then be run

repeatedly on different devices, operating systems and versions of the application. eLeader Mobile Quality Studio also automatically generates test reports, showing errors, exceptions and deviations from the functional specifications.

This tool allows quality control to be taken to the next level - from ad-hoc testing of the application's behavior, to the formal verification of the conformity of the software's behavior to the functional specification. Automation also allows regression tests to be performed, preventing the reintroduction of previously corrected issues.

One unique feature of the solution is the ability to use logical components inside the scripts, not just handling interface events. Therefore, it is possible to define "keyword-driven" tests types, thus changes in the layout of the user interface do not require modification of the test scripts. Also, it is possible to create tests which will automatically adapt to the changing interfaces (e.g. in the case where different users have access to different sets of functions in the application). The approach of using logical components instead of user interface events also overcomes problems with other similar tools on the market, which can only test mobile apps based on standardized user interface elements. eLeader's solution allows to test applications with any set of UI elements, including custom controls.

According to the calculations performed by eLeader, automating the testing process using the tool can reduce the production and maintenance costs of high quality mobile software by up to 30%.

Some elements of the system can be seen in action on YouTube:

<http://www.youtube.com/watch?v=MRAJAbiRIEw>

About eLeader

eLeader is a software house focused on smartphone technologies and a world pioneer of advanced IT solutions for streamlining business processes using smartphones.

eLeader's software encompasses smartphone systems for Mobile Banking, Retail Mobile Sales Force Automation (m-SFA/CRM), Field Force Management (FFM/FFA), Mobile Business Process Management (m-BPM) and other areas in the rapidly growing smartphone market.

Today eLeader's pioneering enterprise solutions for smartphones are used by Fortune Global 500 companies in over 30 countries worldwide. eLeader is one of the fastest growing companies in Central Europe according to the Deloitte Technology Fast 50 CE report.

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