

# Business Case



## Guarantee the continuous quality of your mobile applications with mobile cloud

You develop mobile applications however suffer from not being able to test them on the latest mobile devices. You are unable to assess real mobile application performance, and automated tests take a lot of time and effort whilst at the same time not giving the coverage you need. Thanks to the mobile cloud environment and complete set of automated and manual test tools provided by HP UFT Mobile, assuring the long term quality of your mobile applications across their entire life cycle becomes a reality!

### The client

- Digital communication department for a large manufacturer
- Distributed development and test teams across several agencies
- Consumer website redeveloped for tablets and expanded to mobiles
- Focus on rich interactive content
- Rapid development & maintenance cycles

### Success reasons

- Rapid delivery of private mobile cloud environment in Switzerland
- Leverage existing test expertise to mobile
- Developers reassured by being able to view rich content behaviour across devices
- Access to extra devices in a public cloud to test device specific bugs
- Rapid time to market of device agnostic automated test scripts

Due to a significant increase in the number of customers consulting consumer websites from tablets or mobile devices, digital marketing departments have had to rethink their website design to address this need, whilst at the same time improving the level of quality and user experience.

The nature of mobile market by itself with its many devices, platforms and networks creates a real challenge for quality assurance. Coupled with the high level of user experience needed, the test requirements quickly multiply.

To address this demand many real devices were needed. Some major devices were available to test but limited to a few major iOS devices. To test using Android and other platforms, testers either used their own devices or the device was simply not available. This created a real hole in test coverage.

It's nearly impossible to cover all devices, platforms and networks. A risk based approach was necessary in order to prioritise the devices to be tested, based on target markets. The rapid provision of all the required devices via the HP UFT Mobile cloud platform addressed the immediate test device needs. Principal devices were provided in a dedicated private cloud..

Additional on demand access to a public cloud containing hundreds of other devices enabled testing of device-specific bugs raised during beta test cycles .

Developers and testers were able to meet manual test coverage requirements and the site was able to go live on time. These same devices were also made available to test automation experts in order to rapidly create device

agnostic automated regression tests using existing automation expertise and tools.

**With the immediate provision of a mobile device environment in the cloud, the short term cross-device testing demands were met and the site was able to go live. Device agnostic automated regression tests were then added to assure the quality of following releases**

## Approach

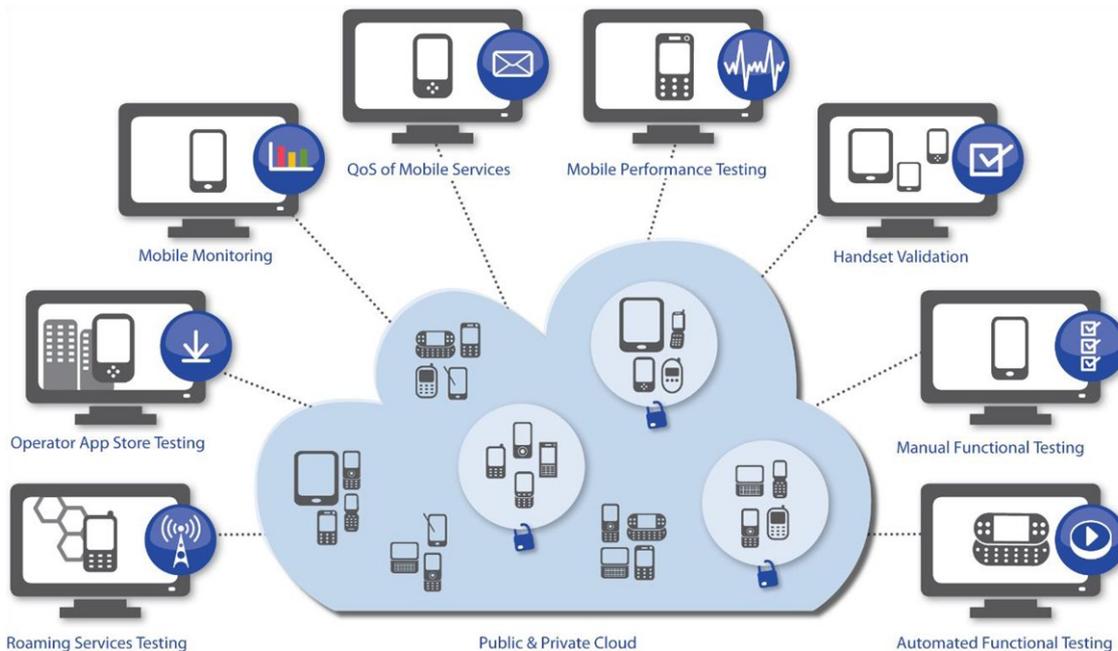
With brand image in mind, the long term mobile testing solution needed to address the constantly changing nature of the mobile device market .

1. An analysis of mobile testing solutions was necessary to match the needs : emulators with network virtualisation, private device labs connected to test tools, and mobile cloud solutions were considered.
2. Once the mobile cloud solution was chosen, the devices to host in the cloud were selected based on the best sellers in the target markets.

## Catalysts

The key catalysts that contributed to the success of the deployment :

- Rapid access to many different, real mobile devices .
- As a certified partner, Itecor were able to take on the mobile cloud management for the client, including hosting the devices in our Swiss Data Center.
- Leverage of existing automated test tools with which Itecor are experts.
- Collaborative nature of the mobile cloud test platform.



The focus was on iOS and Android, with a selection of different device types: smartphone, tablet, mini-tablet.

3. The mobile cloud was installed within a few days so that manual mobile test campaigns could be run almost immediately using the interactive web based test platform.
4. Automated regression testing scenarios were identified and scripted to run across several devices for following releases.

## Risk and response

The biggest risk with assuring mobile application quality is test coverage - being able to see how your mobile application performs on as many real devices as possible. Having the latest major devices and operating systems available in a web-enabled mobile cloud solution is a real game-changer. Devices can even be exchanged for newer versions as required, without the associated extra infrastructure costs of a traditional private lab.

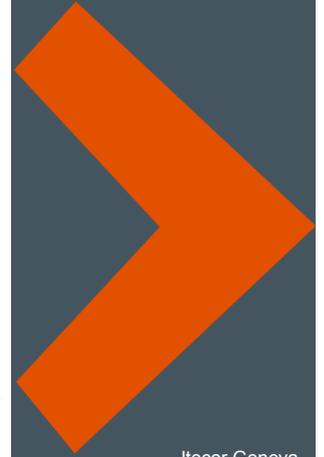
## Benefits

With the site going live at the same time as a major trade fair, where many high profile customers would be effectively “mobile”, the quality of the mobile and tablet version of the site was critical. As a result of the mobile testing efforts the image of the brand was assured.

Testing on real devices allowed developers to identify important user experience bugs before the release. The addition of the on demand public cloud also helped diagnose bugs found “in the wild” during a beta test, on devices not previously tested using the private cloud.

The same devices are available for use for the entire software development life cycle - development, QA and regression testing can all play a part.

Finally, by moving mobile device testing to the cloud, managing the mobile test infrastructure is no longer a worry.



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