



MobiCloud

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MobiCloud Applications for Business



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The project

MobiCloud is a collaborative platform for developing, deploying and managing mobile applications for business-critical scenarios such as public transport, field service or construction. The aim of the project is to stimulate the provision of new mobile services in the cloud and to support the emergence of a European ecosystem of mobile cloud application developers. The MobiCloud project is co-funded under the ICT Policy Support Programme (PSP) Competitiveness and Innovation framework Programme (CIP) with a total budget of €4.45M. The MobiCloud consortium is led by Appear (Sweden) and includes Nettetropolis (Germany), EsperantoXL (the Netherlands), Costain (UK) and COMIT Projects (UK).

The smartphone revolution has opened a large untapped market for mobile cloud services in the enterprise but very few business-critical applications have been brought to market because of:

- high development costs (portability across multiple types of devices)
- human challenges (poor ergonomics of mobile apps for complex business tasks)
- technical challenges (tolerance of cloud services to unstable network connectivity)

MobiCloud addresses the 3 main challenges of mobility:

- cross-platform support based on hybrid technology (native + javascript/HMTL5)
- context-aware data based on the situation of the user (context engine)
- cloud-based distributed architecture (smart & secure connection to third party systems)

MobiCloud's initial demonstration scenarios focus on industries where collaborative mobile applications can support a more efficient, greener organization. For example, companies can reduce their costs and their carbon footprints by optimizing the dispatch of workers in the field based on real-time context.

MobiCloud is also an online technology marketplace where end-users, mobile developers, application vendors, and system integrators can collaborate to develop an end-to-end solution with high ROI impact. The reduction in the cost and complexity of mobile application development using cloud technologies is a strategic objective of the European Commission. With MobiCloud it is now feasible for smaller companies, and not only global ERP vendors, to quickly develop and market mobile extensions of their existing business applications.

Therefore the ICT2013 event was a cornerstone of our dissemination strategy.

What did we present there?

The MobiCloud Platform

The MobiCloud project started a live cloud mobile service in February 2013, able to support 4 different trial implementations with a multi-tenant interface where each trial is managed separately in an independent private application store.

The MobiCloud vision is to develop a corporate appstore infrastructure, consisting of an application container deployed in a smartphone or tablet connecting to corporate systems via a cloud-hosted platform.

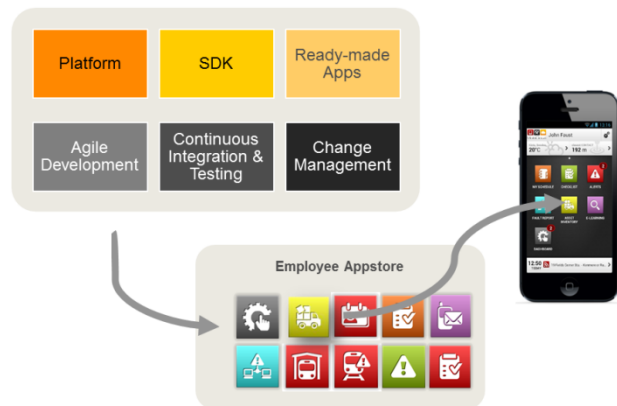
The MobiCloud SDK

The Mobicloud project released in June 2013 a set of tools supporting the development of innovative context-aware solutions, including a cloud-based collaborative build environment. The platform includes a mobile web SDK for creating HTML5 application components, native SDKs for creating cross-platform containers, as well as Java and REST SDKs for integration enhancements with back-end systems. The SDK is currently used by the MobiCloud partners and Early Adopters (such as Datasys, UK) to deliver cloud mobile applications.

The MobiCloud Applications

The MobiCloud project is implementing four showcase implementations addressing different industrial applications (city transit, rail operations, field service and construction) where end-users equipped with smartphones or tablets can access a portfolio of services stored in the cloud. MobiCloud provides a composite screen (mobile mash-up) that aggregates data from various corporate IT systems. Depending on context (location, role, skillset, available colleagues, etc.), the application displays different services which react in real-time to changes (work orders, fault reports, alerts).

Corporate Appstore Infrastructure



Developer Feedback



Jay, Datasys (MobiCloud Early Adopter)

"Then I uploaded the apps to my AIQ development area, installed the new client onto my 3 mobile devices, watched the apps immediately download and then run them all without error. It has all worked seamlessly. Impressive stuff, I must say. All I have to do now is write this new app. Simple!"

MobiCloud Site Diary Application



Using a standard iPad, a site engineer can document construction project events and transparently sync them over the air, in realtime

The MobiCloud Trials

The MobiCloud consortium has enabled a Swedish Rail Operator (TKAB) to deploy in March 2013 its trial implementation ahead of schedule, with a series of applications deployed to 350 employees: team app, providing resource visibility and the capability to find the nearest colleagues; fault reporting app, allowing train drivers to document technical problems, attach pictures and assign to maintenance, and a traffic disruption feature, allowing staff to provide relevant information to passengers on board.



The MobiCloud consortium enabled Costain in September 2013 to run a pre-trial of a tablet-based site diary, replacing the cumbersome paper-based records where engineers record all the events taking place on a site. The pre-trial is running on 20 users in 2 construction sites in the UK, before a wider trial roll-out in 2014 across the Costain organization. The application is also available for a 30 day free trial for any construction organization and has currently received interest from 24 organizations in 8 countries (UK, Netherlands, Slovakia, Poland, USA, Canada, India, Malaysia, Australia).



The other two trials (City Transit and Field Service) are scheduled for deployment in early 2014.

MobiCloud at ICT 2013

The MobiCloud consortium was selected by the European Commission to present the latest advances in mobile cloud technologies. The ICT2013 was an excellent opportunity to network with researchers and industrial partners, as well as disseminate the first year project results.



MobiCloud both in Hall4, Zone R3 industry and business for tomorrow. From left to right. The MobiCloud Team: Vladimir Bataev and Patrick Okkersen (EsperantoXL), Maria Tsakali (EC project officer), Xavier Aubry (Appear) and Manu Auch (Nettropolis).

An impressive turnout of 5000 attendees was present as the president of Lithuania took the stage to introduce the event.

On the MobiCloud booth, the team showed demonstrations of the ongoing trials: a mobile site diary application for the construction industry built in collaboration with Costain in the UK and a suite of workforce apps for the public transport industry built for Tågkompaniet in Sweden.

Around 100 visitors expressed interest in following the MobiCloud project results and accessing the MobiCloud SDK, now available publicly. It is also possible to [try the live site diary app](#) in operations for 30 days, and a large Polish construction group took advantage of this the opportunity to test the power of mobile cloud applications for their own business.

MobiCloud was also represented in the networking sessions, with Xavier Aubry, MobiCloud project coordinator, speaking at the CloudWatch networking session , presenting existing cloud apps success stories, and discussing how Europe can boost the competitiveness of its industries and SMEs with cloud computing. Thank you to our colleagues at CloudWatch for inviting us!



Xavier Aubry (MobiCloud project coordinator) presenting at the CloudWATCH presentation at ICT2013, illustrating how the power of the cloud can be leveraged by SMEs to serve large customers in the construction and public transport industries

The MobiCloud was actively networking with other projects and was recruited during the event to join the beta program of [E*Xelerator](#), a virtual accelerator initiated by the European Alliance for Innovation.

Finally the event was a great opportunity to discover the ICT [work programme 2014-2015](#) of Horizon 2020. The first call has a deadline on April 23rd 2014 and features key topics in the field of mobile and cloud. The team is already thinking about a new project developing the results of MobiCloud further, so if you are interested to work on joint proposals, contact us!

In summary, ICT2013 delivered over and above all our expectations!