COnverged MultimEdia communication Suite over IMS

The recent internet revolution has changed the way we communicate. We have more contacts and more devices with different media. The COMESI project identified new ways of communicating while significantly simplifying the user experience. The project developed a set of innovative prototypes highlighting a real continuity of service using multiple devices with different media and the ability to share contents in a remote and secure environment.

Main focus

To allow the future users of richer and more complex communication services to keep the control of their interactive universes. The COMESI project specified and demonstrated an end-to end solution, involving multiple devices, multiple media types, IMS CORE network, OMA (Open Mobile Alliance) enablers and RCS clients (Rich Communication Suite).

The COMESI prototypes are standards compliant and totally interoperable thanks to the Rich Communication Suite technology. Users have access to their contact's information from any device and are able to communicate with any type of media regardless of their contact's Operator. The Converged Address Book (CAB) or Presence enabler (Presence Simple), keep contacts up-to-date since they are managed by the contacts themselves. Presence information is available on every device (mobile phone, tablet, PC, TV). In addition to this integrated telecommunication system, the COMESI prototyped services such as Content sharing in the cloud, media switching or device switching offered the users a unique continuity of service. This innovative communication solution provided the user with a safe and simple environment by utilizing the Operators authentication system.

Approach

The very first stage of the project was to identify the services to be prototyped. These services had to take advantage of the standard bodies specifications (OMA

COMESI

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Project Website

www.celticplus.eu/projects/celtic-projects/call6/COMESI/comesi-default.asp

http://kereon.tsar.tm.fr7comesi/Comesi.html

Converged IP Messaging/ Converged Address Book + Rich Communication Suite initiative) and to be innovative in order to speed up their innovation process. After many consortium brainstorms, 6 services based on the same standard architecture were suggested and then specified.

The COMESI prototypes were based on many enablers (IMS Core, CPM, CAB and Presence standard) and many RCS devices. The objective of the project was to deliver integrated services which required the project activities to also be integrated. The consortium processed through several regular iterations allowing partial integration early on in the project and to identify any further needs.

Achieved results

The COMESI prototypes are showing how, within a single service environment, users can share contents in the cloud with enhanced control of the data. The service is usable globally with any media and from any device (including TV) offering a real continuity of service for the users.

The project demonstrated a pan European infrastructure where the CPM, CAB, and Presence standard enablers were integrated and working together with RCS devices.
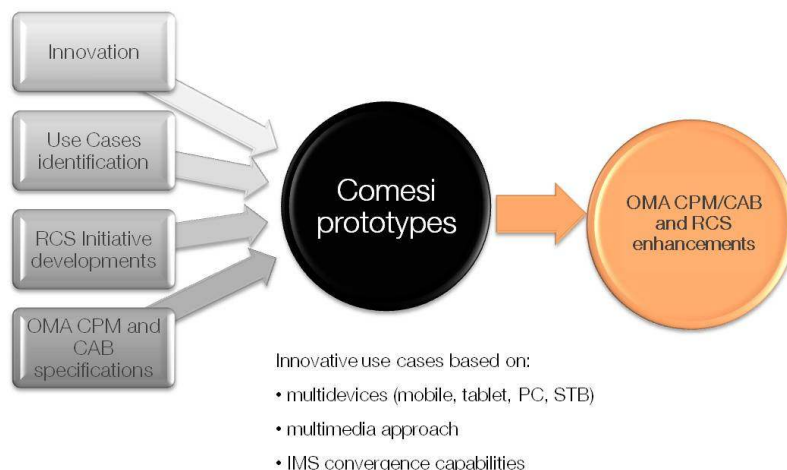
The RCS software was also ported on every device and enriched with new features. The COMESI pro-

ject outputs were pushed towards these standard bodies.

The user's acceptance was an important focus in the project and innovative survey methods as well as user experiments were conducted. This has led to interesting results. The user related results were submitted and presented at the prestigious HICCS in January 2012.

Innovative use cases based on:
- multidevices (mobile, tablet, PC, STB)
- multimedia approach
- IMS convergence capabilities

Impact

The COMESI prototypes are based on an innovative architecture combining the standardized OMA Converged Address Book, OMA Converged IP messaging and OMA presence enablers. They are based on RCS (Rich Communication Suite) clients and

therefore, are illustrating the service continuity and interoperability allowed by those standardized works when gathered in a single pan European platform. The project consortium also brought new inputs resulting from COMESI work to these standards bodies.

The COMESI services improve the user experience not only through the multi-device environment but also through the interoperability

between Operators. This can be attributed to these of RCS clients (Rich Communication Suite). In a period of time when people communicate more with different services and devices, COMESI is proposing a unified and interoperable service to perform various communication activities in a safe, secure and better controlled environment. COMESI is therefore, offering a response to the web actors' competition. Beside, by proposing unique communication features, COMESI is securing the telecom industry business.

About Celtic

Celtic is a European research and development programme, designed to strengthen Europe's competitiveness in telecommunications through short and medium term collaborative R&D projects. Celtic is currently the only European R&D programme fully dedicated to end-to-end telecommunication solutions.

Timeframe: 8 years, from 2004 to 2011

Clusterbudget: in the range of 1 billion euro, shared between governments and private participants

Participants: small, medium and large companies from telecommunications industry, universities, research institutes, and local authorities from all 35 Eureka countries.

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