Rich Communication Suite

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Content

Telecom Italia & RCS Achievements
Telecom Italia RCS 1.0 pilots

- Interoperability pilot in Italy
- Service concept pilot

RCS Telecom Italia demo at MWC 2010 Next steps



Rich Communication Suite: an industry commitment

The RCS initiative, under GSMA, is the genalto joint effort of leading industry player; Newson to speed up and facilitate the adoption of applications and services that provide an interoperable, convergent, rich communication experience based on IMS



30 of the world's top operator

- Handsets vendors
- Infrastructure vendors
- applications developers



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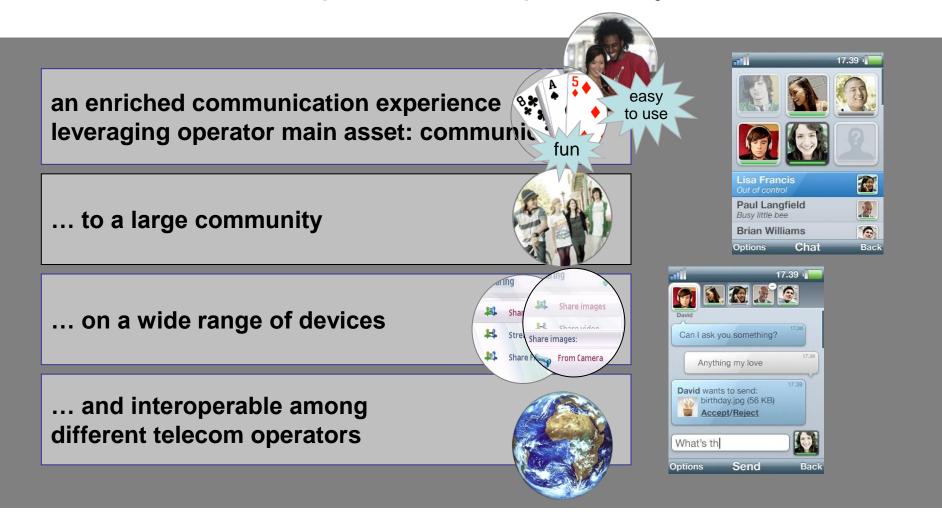
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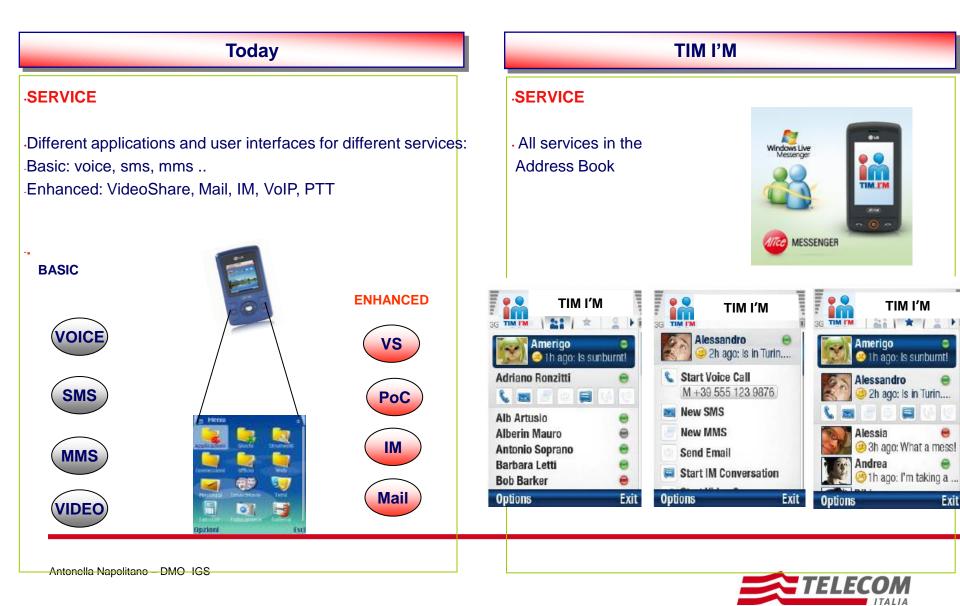
openmind

RCS Basic Principles...Interoperability!





Telecom Italia services: Video Share, PoC, PIM and TIM I'M



Lessons Learned

- Service implementation by proprietary silos solutions do not work & difficult to be adopted by consumers
- Barriers to success
 - Non homogeneous solutions
 - Different applications/clients
 - Lack of terminals
 - Lack of interoperability & commercial agreements between operators

the key to success is interoperability



Key characteristics for a successful solution from TIM experience

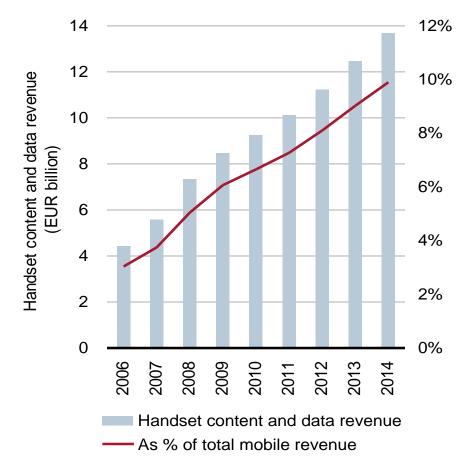
- Focus on users needs
- Integrate all services in a single Enriched Address Book
- Presence information
- Enhanced user interface experience
- Wide range of terminals
- Embedded clients into high and mid tier devices
- INTEROPERABILITY between networks
- Consolidated commercial agreement between operators



RCS features evolution

RCS 1,2,3 have focused on creating a solid foundation for delivering end-to-end Rich Communications services based on interoperability.

- Social networking spreading everywhere
- Data services usage and revenues increasing
- Revenues from traditional services
 Voice and text decreasing
- iPhone has radically changed the way innovative applications are sold to consumers and Google Android has reinforced this trend



Western Europe, 2006–2014 [Source: Analysys Mason, 2009



Release 4 Open APIs feature: Business Context

In response to the evolving needs of consumers, operators, vendors and developers RCS will use the Application Programming Interface (API) approach in order to expand capabilities, enable new business models, provide mechanisms for differentiated services, and significantly reduce time-to-market for innovation.

RCS APIs and Social Networking Position Document (Leaders:Telecom Italia & Ericsson)



RCS: API definitions

RCS NW & Device APIs:

- Social Presence Information
- Service Capability Indication
- Video Sharing
- Image Sharing
- File Transfer
- Chat (SIMPLE IM based)
- Coordination with GSMA OneAPI project and OMA to specify the relevant APIs



Telecom Italia – Pilot on "Service concept"

- Telecom Italia pilot performed in 2009 on Service Concept that was providing significant feedback on the acceptance by end users of the RCS user experience
- It was confirming that RCS meets many of the consumer needs for next-generation multi-media services
- It was also showing how RCS could be improved: user interface, handset capabilities (keyboard, screen..), battery's life, service robustness.



RCS Service concept Pilot in Telecom Italia

Objectives:

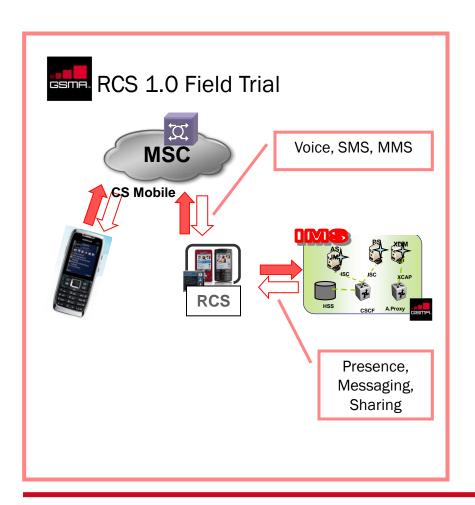
Technical: execution of tests to verify robustness/stability of the IMS network and interoperability between clients and RCS core network

Business/Service: evaluate RCS service concept and collect feedback on user experience and usage

- Number of users: 50
- Focus Group Profile:
 - Age 25 50
 - 40% regularly access Social Networks
 - 10% through mobile internet



RCS 1.0 Pilot in Telecom Italia

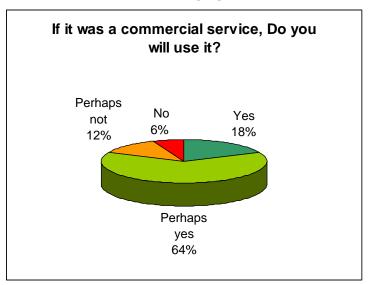


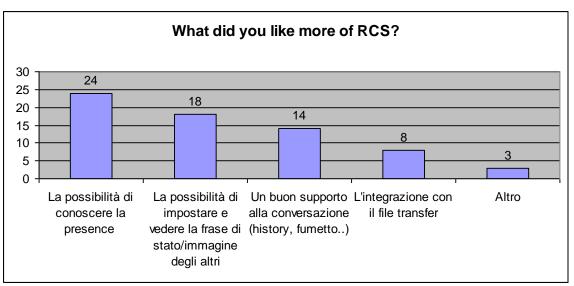
Features:

- Social Presence Info
 - profile picture
 - tagline
 - presence status
- Messaging
 - 1 to 1 Chat
 - 1 to 1 File Transfer
 - 1 to Many Chat
- Telecom Italia RCS 1.0 network is powered by Presence Server and Instant Messaging Server



Service Appeal

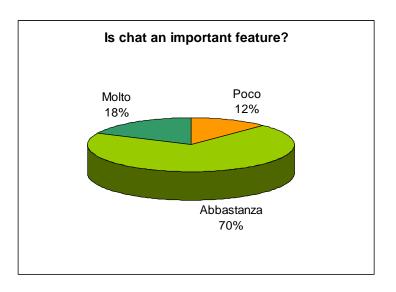


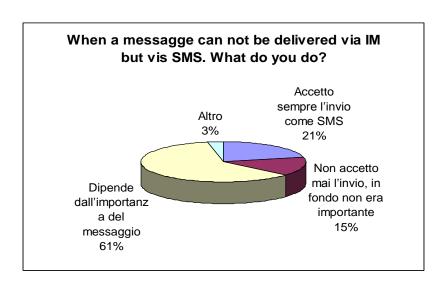


- **▶** Good Service acceptance: 82% will use RCS if commercial available (64% probably, 18% YES).
- ▶ The feature that user likes more is "presence status".
- Presence information saying when the user is available, tagline and chat could have impact on phone calls
- Less SMS/MMS sent, because of chat (contacts in the buddies list).



Chat





- Chat has been used every day, once or more by 72%.
- ▶ Chat is considered an important feature by 88% (18% very important, 70% important).

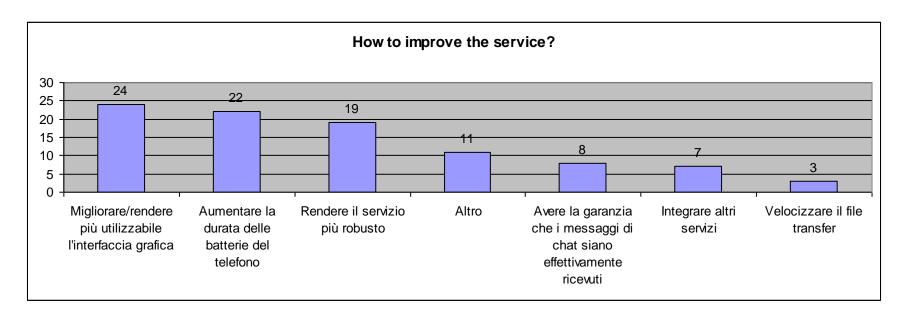
"For a fast and interactive way mainly in conversation one to many"

"for conversation not important"

Is perceived as complement of SMS (not in replacement), more friendly suitable for informal communication and appealing (Conversational view/history feature)



Service improvements



Improvements; user interface and handset capabilities: keyboard, screen size.. (73%), life battery (67%) service robustness (58%).

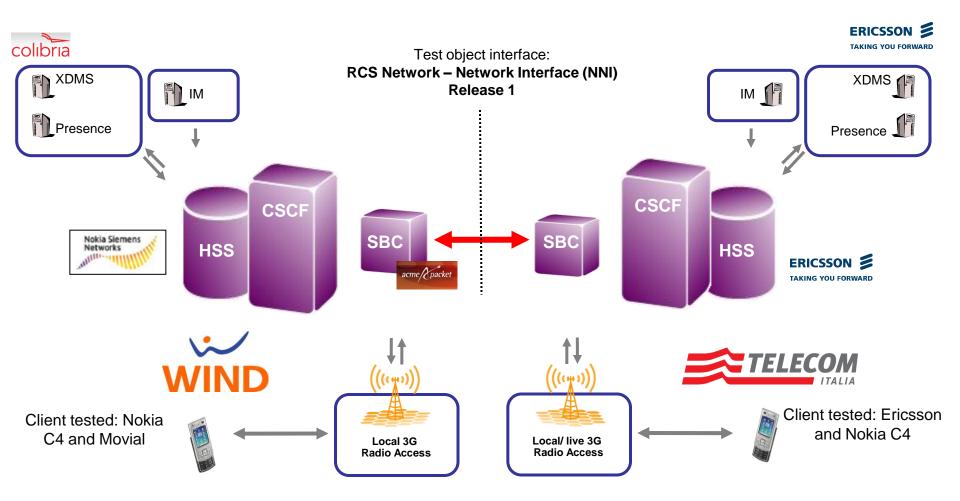


RCS Pilot in Italy

- RCS IOT between Telecom Italia and WIND has been conducted in 2H2009.
- IOT focus on NNI between Telecom Italia IMS Core network and WIND IMS Core Network to test RCS Release 1.0 features.
- Main objectives:
 - ✓ verify the maturity and robustness of RCS solution
 - ✓ give a clear message to national market and international MNOs community of interest on RCS
 - ✓ evaluate the adoption of IMS technology and RCS service



NNI set up



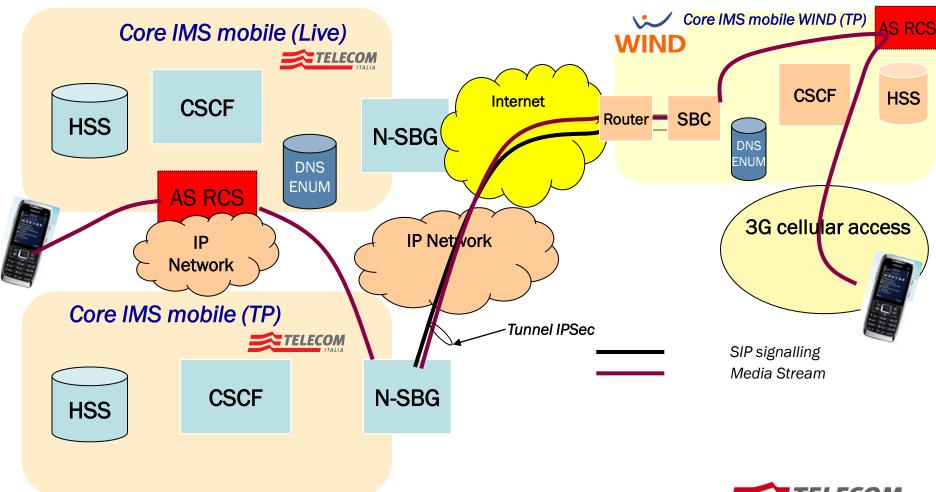


Test scenarios - participants

Operator	WIND	TELECOM
IMS Core	Nokia Siemens Networks	ERICSSON S TAKING YOU FORWARD
RCS AS	colibria	ERICSSON \$ TAKING YOU FORWARD
BG/SBC	acme/ packet	ERICSSON S TAKING YOU FORWARD
Client	MOVIAL	ERICSSON S TAKING YOU FORWARD
	Connecting People	Connecting People



IOT Architecture



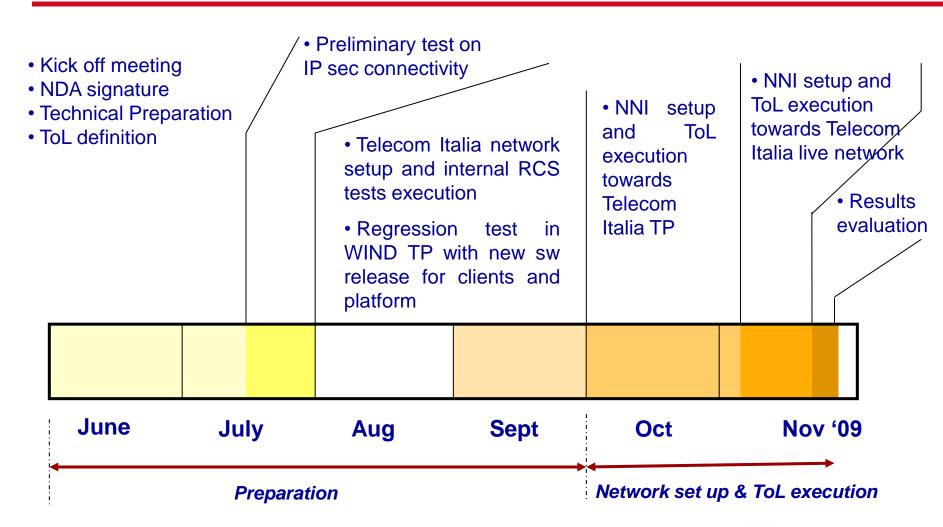
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IOT project milestones



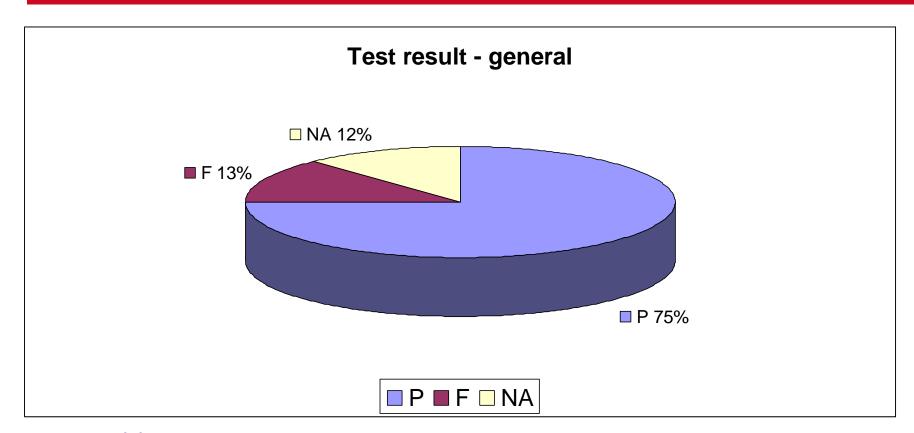


Features list tested during pilot activity

RCS Release 1 Features		
Enhanced Address Book		
Presence information integrated into phonebook interface		
Invitation to exchange Social Presence Information		
Social Presence Info Sharing authorization		
Revoke		
Permanent presence state		
Basic Service capability indication		
Service capability (anonymous fetch + who can I invite)		
Communication history per contact		
Social Presence Attributes		
Hyper-availability		
Portrait icon		
Free-text incl. textual note and emoticons		
Favorite link		
Content Sharing		
Service capability indication during a Call		
Video Share (GSMA IR.74)		
Image Share (GSMA IR.79)		
Enhanced Messaging		
Conversational messaging (SMS/MMS)		
Chat Service 1-to-1 (OMA IM SIMPLE 1.0)		
File Transfer (in or out of a session)		



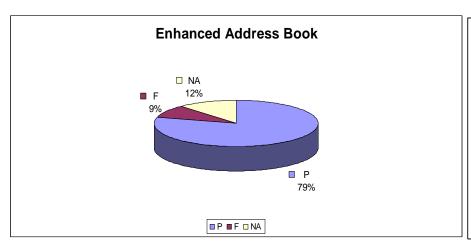
Test results (1/2)

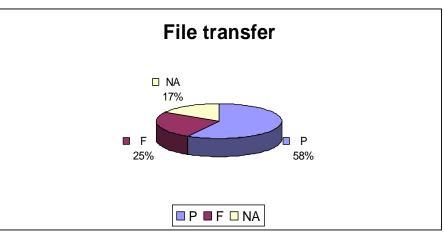


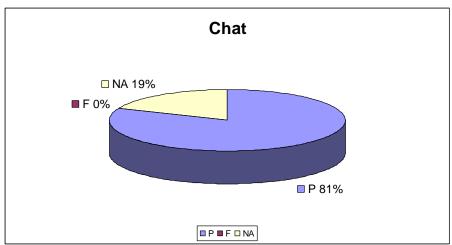
- Pass (P)
- · Fail (F)
- Not Available (NA) test cases that were not possible to test because lack of support from client/clients and/or network

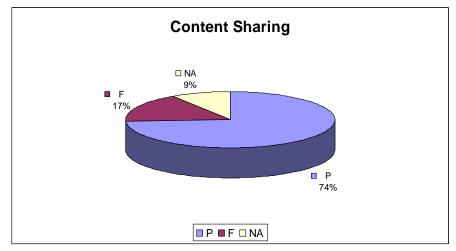


Test results (2/2)











Italian trial: lesson learnt

- The Pilot activity has been concluded with very positive outcome, considered the complexity coming from the testing of an interoperator, multivendor, multi-client environment.
- The experience gained during the pilot was really valuable for the number of problems found and solved, and is extremely relevant in the view of a future commercial launch.
- The IOT in Italy is an important example with operators working closely together to ensure interoperability
- This contribute to create a set of interconnected RCS platforms in many countries which is vital for future commercial launches of nextgeneration multi-media services.



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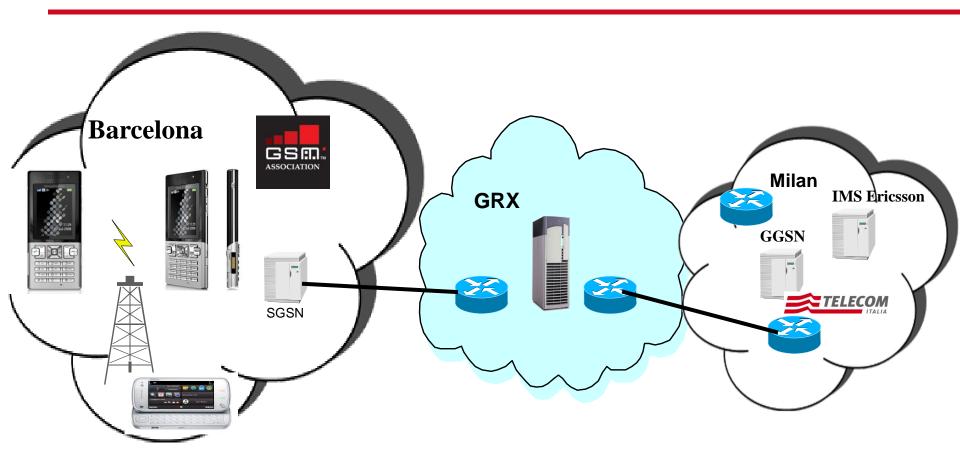
Live Demo Italian Pilot Pod in App Garage



RCS demo at MWC 2010 using Telecom Italia RCS Live Network

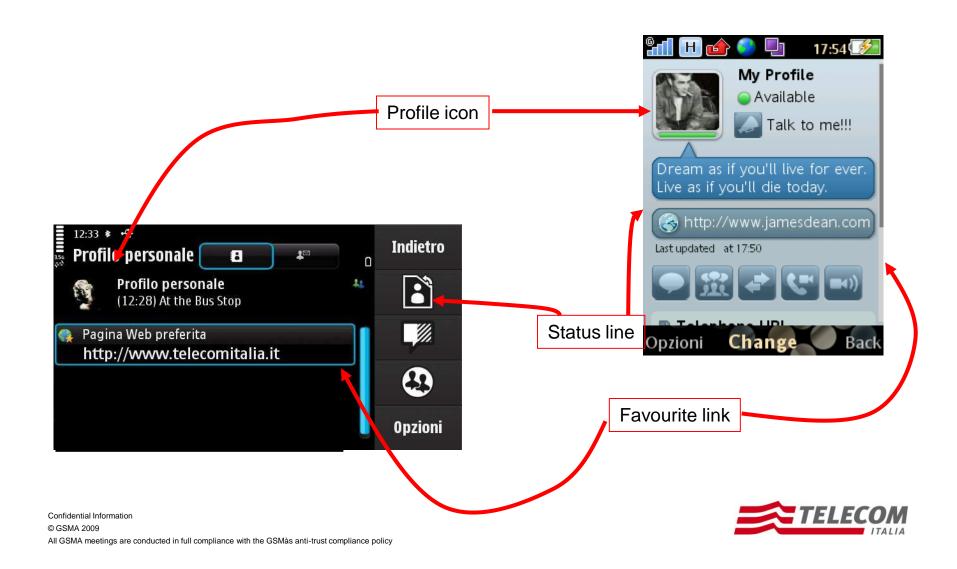


Live Network Architecture

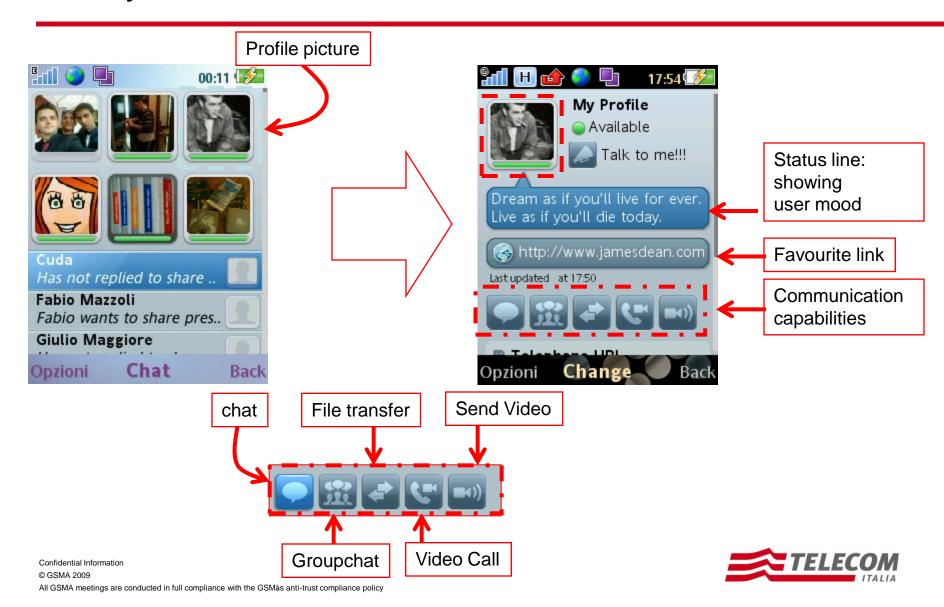




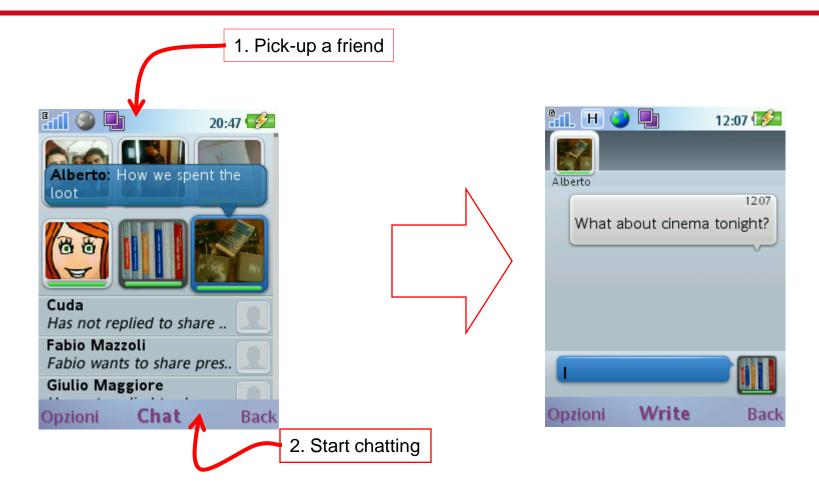
Social Presence Information



Buddy List

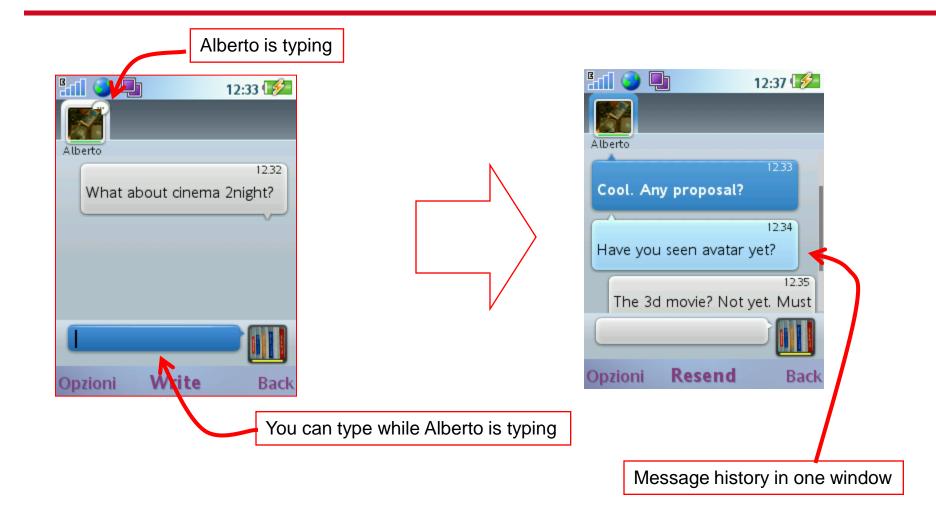


Pick up a friend



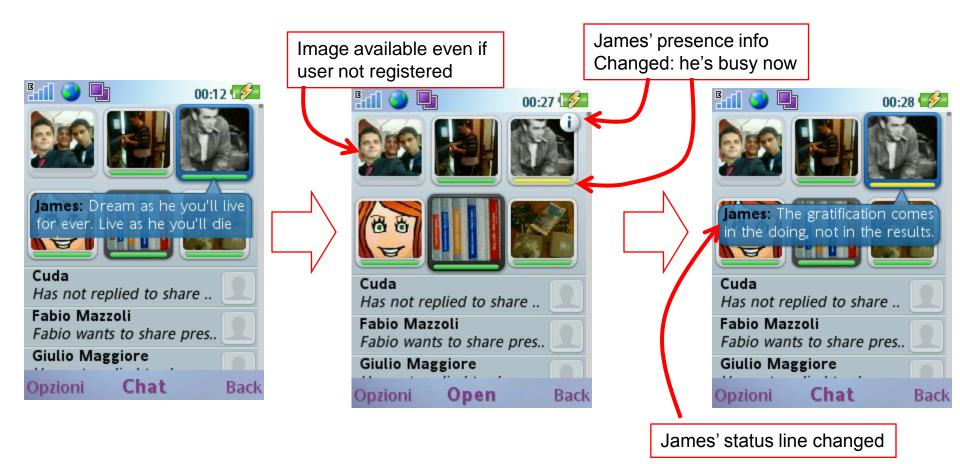


Chat scenario





Presence Status Change

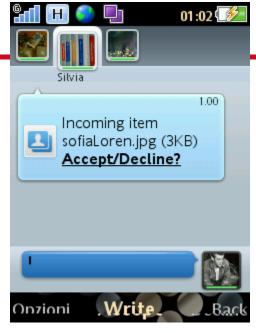


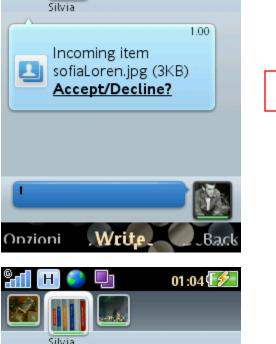


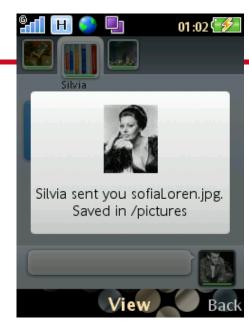


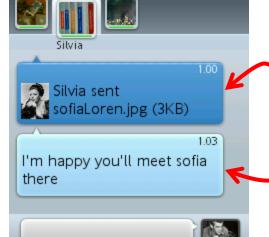
File Transfer (1/2)











Opzioni

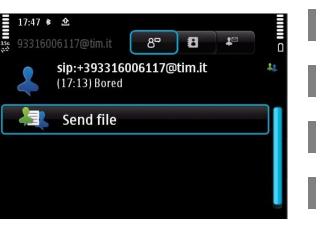
Chat messages and transfered files share the same history

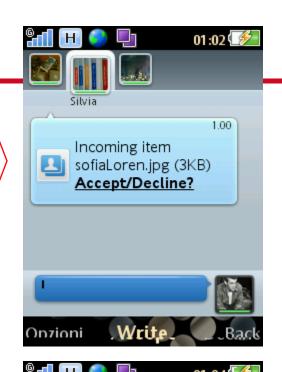


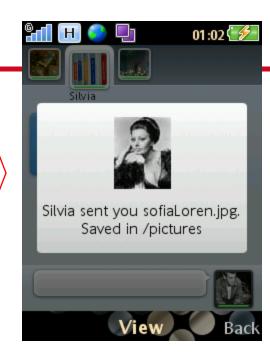
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File Transfer (2/2)









Opzioni

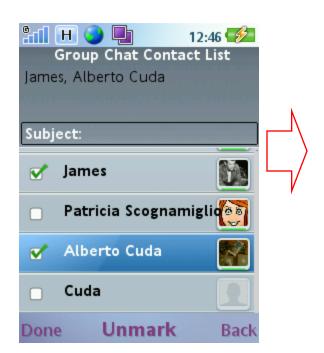
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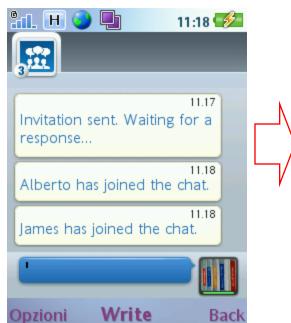


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Group Chat









Video Share









What next?

- Definition RCS Open APIs
- Definition of charging principles for Presence and Group Chat
- Evaluation of RCS 2.0 pilot end of 2010
- Contribution to RCS Go to market activities



Thank you

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