

Wireless World Initiative (WWI) External Newsletter



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Executive Summary

By Dr. Werner Mohr, chair of WWI Steering Board

Welcome to this first issue of the Newsletter on the Wireless World Initiative!

The Wireless World Initiative (WWI) was established in 2002 to prepare several coordinated FP6 proposals and to coordinate the launched complementary projects from a system and end-to-end perspective. These projects cover a broad range of research topics for the development of wireless communication technologies for systems beyond 3G, including services and applications, platforms, networking, new radio interfaces and end-to-end reconfigurability. The responsible coordinators of the proposals preparation have been Alcatel, Ericsson, Motorola, Nokia and Siemens. The Initiative is made up of more than 100 partners. The majority of the global players in wireless communications from the manufacturers, operators, academic and national regulatory agencies domain as well as SMEs' participate.

This WWI newsletter presents an overview about the mission and objectives, latest news, the co-operation process and the member projects.

WWI Mission and Vision

WWI was established in 2002 to lay foundations for the long-term future of global wireless communications. WWI contains a series of large Integrated Projects in the European Commission's Sixth Framework Programme (FP6) Information Society Technology with the overall objective to define systems and functions that provide the users with the excellent user experience while minimising the financial investment required.

For WWI, the driving force is user-centricity. In addition to the technical viability, the future wireless communication systems providing seamless access to electronic services, applications and information anywhere and anytime will give added value to the users and service providers. This user-centricity means that the users' needs, expectations and requirements will be considered and supported by all system levels from access methods and networks to service platforms and applications.

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WWI Objectives

WWI has the following major objectives:

- To develop systems, from the user perspective, that work seamlessly in different environments: personal, home, vehicular, office, etc,
- To develop open, shared and horizontal software architectures, platforms and tools to enable the widespread development of applications for the ambient Wireless World,
- To develop ambient networks that can be easily composed and utilised in a seamless manner in a wide variety of environments and business contexts,
- To develop radio interfaces needed to support the full range of terrestrial networks from short-range networks to wide-area public networks,
- To devise, develop and trial architectural design of reconfigurable devices and supporting system functions,
- To develop advanced techniques for delivering mobility, service continuity, end-to-end security and QoS,
- To define the evolution paths to the operational Wireless World, showing that the innovations can be introduced and used in a real environment.

WWI Latest News

A WWI Symposium will take place on December 9 and 10, 2004 in Brussels to present the goals and strategies targeting all stakeholders in the mobile community. The first day will be dedicated to the common and strategic WWI activities and during the second day the individual projects will introduce their initial results. This will also stimulate synergies within the EU IST programme and worldwide. For more information see also <http://www.wireless-world-initiative.org>.

WWI Cross-Issues Progress

A prerequisite to generating additional value from a group of projects is the exchange of information and joint development of key topics. Close cooperation between the WWI Integrated Projects has been ensured by the establishment of the WWI Cross Issues, which are the special inter-project coordination instruments for binding these projects together and for ensuring that system view is considered in all research work.

Key objectives of the Cross Issues are to:

- Facilitate information exchange between the projects in the mobile area and with other Initiatives,
- Synchronise selected research work,
- Create the system-level requirements, concepts and architectural frameworks,
- Manage the information created (i.e. know-how)

Eight Cross-Issues are currently running within WWI: User requirements, Operability, E2E QoS, Security and Trust, Resilience, Validation, Reconfigurability and System Architecture.

WWI Dissemination

WWI projects have already started to disseminate their objectives and first research outcomes to several international conferences, workshops, forum, standardization and regulatory bodies: WWRF, SDR Forum, SDR Karlsruhe Workshop, IEICE, ECC RA12, ITU8F...

The overall Initiative is regularly participating to the European Commission concertation and clusters meetings. WWI has contributed to the IST Mobile and Wireless Summit 2004 in Lyon (27-30.06.04), presenting papers, posters, and initial prototyping modules as well as tutorials. WWI will also participate in the IST Summit 2004 in The Hague on 15-17.11.2004 with presentations and will organise a global WWI Symposium on the 09-10.12.04 in Brussels (see WWI Latest News above).

WWI Projects

Ambient Networks

Ambient Networks is a project that addresses ubiquitous availability of a common control layer for various network types, giving users seamless multi-access connectivity and providing operators with an easy to manage dynamic network set-up. It supports the rapid and consistent introduction of new services. The highly scalable Ambient Networks concept empowers users to become networking partners.

WINNER

The key objective of the WINNER (Wireless World Initiative New Radio) project is to develop an innovative radio access concept in order to address high flexibility and scalability with respect to data rates and radio environments. This concept will be derived by a systematic investigation of advanced radio technologies with respect to expected user requirements.

E²R

The key objective of the End-to-End Reconfigurability (E²R) project is to devise, develop and trial architectural design of reconfigurable devices and supporting system functions to offer an expanded set of operational choices to the users, applications and service providers, operators, regulators in the context of heterogeneous mobile radio systems.

MobiLife

MobiLife's goal is to bring advances in mobile applications and services within the reach of users in their everyday life based on the evolving capabilities of 3G systems and beyond. The user-centric R&D in MobiLife includes applications and services frameworks with innovative applications and services, enabling technologies and service components, user and industry evaluation, and exploring and removing hurdles between service development and deployment.

WWI Liaisons

The WWI projects have already established formal liaisons with international bodies (e.g. SDR Forum). Cooperation agreements between WWI and Mocca as well as S4ALL are under preparation.

Mocca

MOCCA addresses research collaboration on mobile and wireless issues, within the European Research Area (ERA), with research programmes in Asia and the US, and with counterparts in developing regions of the world. Task Forces on user requirements, business models and broadcasting are now being started.

S4ALL Initiative

The main goal of S4ALL is to provide any individual with the capability to create from any terminal, his own personalised mobile services for private use or business. In addition to a strong focus on service creation tools, S4ALL will set-up the appropriate service infrastructure allowing fast and flexible service deployment and execution. S4ALL has been submitted as an ITEA project.

Wireless World Initiative (WWI) - Newsletter

Comments and suggestions are always appreciated. Please send them to the Editors:

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