ITU-T Workshop

"Networked RFID: Systems and Services"

GENEVA, 14-15 FEBRUARY 2006

Introduction

ITU-T is hosting the workshop "Networked RFID: Systems and Services", in collaboration with ITU's Strategy and Policy Unit (SPU), in Geneva, 14-15 February 2006.

Radio-Frequency Identification (RFID) is the much-touted system that enables data to be transmitted by a tiny portable device, called a tag, which is read by an RFID reader and processed according to the needs of a particular application. The development of RFID systems creates new possibilities for the support of object-to-object communications. Analysts predict that RFID will revolutionize areas of industry including supply chain management, security and mobile telecommunication services. Additionally, RFID is expected to play an important role in the realization of the Ubiquitous Network Society. All this will create a yet unquantified demand on telecommunication networks.

Currently, the market for RFID standards is extremely fragmented. Special standards for certain limited fields of applications exist as well as quasi-proprietary or proprietary standards. Many RFID applications still lack global standards for data formats, compatibility, interoperability, interference problems, personal information protection, authentication, key management and others.

Objectives

The event will focus on the use of RFID technology in networked environments, and review international standardization. Particular emphasis will be given to the impact that networked RFID applications will have on telecommunication networks, especially on network and service capability requirements and interworking aspects.

- Present the status of RFID technology and identify future trends
- Review current and future applications, services and business models leveraging networked RFIDs (NRFIDs)
- Identify NRFID aspects relevant to telecommunications (services and network capabilities, architecture, QoS, performance, security, etc.)
- Analyse how far existing standards can support NRFID applications and services, and identify where enhanced or new standards might be needed
- Identify elements for a roadmap for a standardization framework, including the clarification of the role of applicable SDOs, forums and consortia

Exhibition

It may be possible to set up a small exhibition running alongside the workshop to give companies and organizations an opportunity to display equipment and/or other material relevant to workshop topics, if there is sufficient interest. Please indicate any interest by e-mail to tsbworkshops@itu.int by Friday, 13 January 2006.

For a live audio webcast of this workshop, please see:
www.itu.int/ibs/ITU-T/

For more information and online registration, please go to the workshop website at:
www.itu.int/ITU-T/worksem/rfid

ITU-T Workshop

"Networked RFID: Systems and Services"

Advance Programme

DAY 1, 14 FEBRUARY 2006

09:30–10:30 OPENING SESSION

Objectives: This session will provide an overview of the status of RFID technology and present efforts towards global NRFID standards.

10:30–11:00 COFFEE BREAK

11:00–12:30 SESSION 1: INTRODUCING RFID – VISIONS AND IMPLICATIONS

Objectives: This session will explore the key visions behind RFID, national strategies, public policy considerations, and their impact on the development of technical standards.

12:30–14:00 LUNCH BREAK

14:00–15:30 SESSION 2: RFID APPLICATIONS – A SECTORAL APPROACH

Objectives: Presentations of key B-to-B and B-to-C applications of NRFID in different industry sectors and their requirements for the development of technical standards.

15:30–16:00 COFFEE BREAK

16:00–17:30 SESSION 3: RFID AND NEW BUSINESS MODELS

Objectives: Presentation of key applications of NRFID, their business models and their impact on technical standards from the perspective of different service providers.

09:00–18:00 EXHIBITION

DAY 2, 15 FEBRUARY 2006

09:30–10:45 SESSION 4: SECURITY AND PERFORMANCE ISSUES REGARDING RFID

Objectives: This session will discuss key performance, security, data protection, encryption, authentication functions in RFID and supporting protocols.

10:45–11:15 COFFEE BREAK

11:15–12:30 SESSION 5: NETWORKING ARCHITECTURE AND CAPABILITIES OF RFIDS

Objectives: This session will seek to identify architectural models for RFID services from a networking perspective, identifying, for example, the various different network configurations between end-user devices and RFID servers. Based on these models, proper networking capabilities and currently used protocols (including relevant identification frames) will be investigated, with a view to supporting RFID communication requirements including QoS and security.

12:30–14:00 LUNCH BREAK

14:00 –15:30 SESSION 6: FUTURE TRENDS IN NRFID AND UBIQUITOUS NETWORKS

Objectives: Based on advanced research on the evolution in ubiquitous services and applications, the role of NRFID, sensor networks and their impact on future standards will be analysed in this session.

15:30–16:00 COFFEE BREAK

16:00–17:00 SESSION 7: PANEL ON AN RFID STANDARDIZATION ROADMAP

Objectives: This panel session will review the outcomes of the previous sessions and identify possible elements of a standardization roadmap for NRFID, in particular identifying key issues and priorities for interworking, and means for coordination and harmonization of the work between the different stakeholders.

09:30–17:00 EXHIBITION

For updated information, please see: **www.itu.int/ITU-T/worksem/RFID**

For more information on ITU-T workshops:	**www.itu.int/ITU-T/worksem/**
For information on ITU-T:	**www.itu.int/ITU-T/**
For news and subscription to the ITU-T e-Flash:	**www.itu.int/ITU-T/lighthouse/**
For ITU-T Technology Watch:	**www.itu.int/ITU-T/techwatch/**
For ITU-T membership information:	**www.itu.int/ITU-T/membership/**
Workshops contact:	**tsbworkshops@itu.int**

ITU Telecommunication Standardization Bureau (ITU-T) • Place des Nations • CH-1211 Geneva 20 • Switzerland

Organized by: International Telecommunication Union

12.2005 tsbworkshops@itu.int