

ITU-T Workshop on Standardization in E-Health

Friday 23 to Sunday 25 May
ITU Headquarters, Geneva, Switzerland

ADVANCE PROGRAMME

(Check for updates at: <http://www.itu.int/ITU-T/worksem>)

This workshop is free and is also open to non-members

There is no exact agreement on a definition for e-health. However, it encompasses a set of features that enable the provisioning of medical services over a geographically distributed area. It is seen as a vehicle to improve access to care, as well as to improve the quality and cost effectiveness of care. It has proven an important tool in areas where resources are scarce such as developing countries, but is equally useful in the developed world in applications such as distributed learning and shared databases. E-health reduces costs and increases efficiencies, and may provide a useful tool for the detection of epidemics or even bio-attacks. However, solutions currently available have often been developed on a proprietary or ad hoc basis posing implementation challenges to the entities involved. These hurdles would be alleviated with a higher level of interworking.

Interoperability through Standards (Technical – Operational – Medical)

Standardization in e-health is seen as the preferred way to increase interoperability, but has so far not progressed as desired. In organizing this workshop, ITU-T, with the support of ITU-D, aims to identify the key issues needed to attain this goal and to identify a possible role to be played by ITU-T to promote such standards.

Developing and developed countries are looking to introduce new or improve existing e-health services. E-health is considered by many to be a strategic component in a national health-care system because it facilitates the delivery of equitable health care and educational services irrespective of distance and the availability of specialized expertise near to the patient.

The overall objectives of this workshop are to:

- Bring together key players in e-health standardization and interoperability today
- Define a framework for standardization
- Identify areas of possible coordination and cooperation
- Prepare a standardization work plan, identifying a possible ITU-T and ITU-D role

For detailed information, please visit: <http://www.itu.int/ITU-T/worksem>

► **Other ITU-T workshops planned in 2003:**

<http://www.itu.int/ITU-T/worksem>

- **Workshop on Challenges, Perspectives and Standardization Issues in E-Government**, Geneva, 5-6 June 2003
- **Workshop on Next Generation Networks: What, When and How? "Encompassing services and transport convergence, mobility issues and more..."**, Geneva, 9-10 July 2003
- **Workshop on Languages**, Geneva, 13 September 2003
- **Workshop on QoS (Quality of Service)**, Geneva, 1-3 October 2003
- **Workshop on Telecommunications and Vehicles**, Geneva, fourth quarter of 2003

Information on past ITU-T workshops at: <http://www.itu.int/ITU-T/worksem/past>

Day 1 Friday 23 May 2003

- 09:30 – 10:30** **Opening: Introduction, overview and objectives**
- ITU-T
 - ITU-D
 - Global Health Fund
 - World Health Organization (WHO)
- Objectives:** High-level addresses, highlighting the importance of standardization in e-health, including the roles of the organizations involved.
- 10:30 – 10:45** **Break**
- 10:45 – 12:00** **Session 0: Tutorial and current standardization overview**
- Tutorial: What is Telemedicine/E-Health?
 - ISO: Overview of TC 215 WG2 activity in the telemedicine-related area
 - IEC: IT-Standardization in Healthcare – Coordination of international activities
- Objectives:** Overview of issues in e-health and overview of current standardization work in different standard development organizations.
- 12:00 – 13:00** **Lunch**
- 13:00 – 14:15** **Session 1: User requirements and perspectives**
- WHO
 - France, Ministère de la santé, de la famille et des personnes handicapées
 - European Health Telematics Association (EHTEL) on e-health standardization
 - NATO
 - Asia-Pacific Telecommunity (APT) (Second Opinion Center)
 - Private sector
- Objectives:** Identify user segmentation (governmental, military, institutions, end-users, etc.), their respective needs from different angles (e.g. technical, medical, operational).
- 14:15 – 14:30** **Break**
- 14:30 – 15:30** **Session 2: Case studies**
- ITU-D
 - Telemedicine Alliance
 - Force Feedback Ultrasound Service
- Objectives:** Highlight recent experience of implementation of e-health in different countries with emphasis on the standardization perspective.
- 15:30 – 16:00** **Break**
- 16:00 – 17:30** **Session 3: Towards a common understanding on e-health standardization**
- Panel discussion on what should or should not be addressed by standardization
- Objectives:** Panel discussion on what should or should not be addressed by standardization; what exists and what is missing.

Day 2 Saturday 24 May 2003

- 09:00 – 10:30** **Session 4: Medical records and medical data**
- Models of electronic data interchange in e-health
 - Technical advantages of using ASN.1 for telemedicine/e-health
- Objectives:** Basic requirements for electronic data interchange in e-health. Current status of standardization related to patient files and clinical information, and to user-oriented medical records. Handling standardized multimedia data in user-oriented medical records.
- 10:30 – 11:00** **Break**
- 11:00 – 12:30** **Session 5: Patient data, ethical, legal and security issues**
- Application of authentication systems in e-health
 - EHTEL
- Objectives:** Identify the legal framework within which the standardization work has to be carried out. Present an overview of specific requirements for privacy, data protection and data security in e-health applications; presentation(s) on existing standardized security mechanisms.

12:30 – 14:00	Lunch
14:00 – 15:30	Session 6: Telecommunications in support of e-health • Service definition • Multimedia protocols – Presentation on ITU-T Rec. H.323 • Overview of existing access technologies and suitability for e-health Objectives: Overview of telecommunication services, protocols, access and transport technology in support of e-health, and identify the possible extension of existing standards.
15:30 – 16:00	Break
16:00 – 18:00	Session 7: Medical imaging and standards • Technical requirements for medical image transmission • Standard encoding protocols on image and video coding • Success of the DICOM standard • User report on the DICOM standard • Subjective assessment methods for image/video compression Objectives: Technical requirements for medical image transmission. Overview of existing standards for image and video compression and systems.

Day 3 Sunday 25 May 2003

09:00 – 10:30	Session 8: Interoperability and Quality of Service • Interoperability of health information systems, telemedicine networks and telemedicine systems • Interoperability and QoS implications of ISO TC 215 WG2 work • Basic requirements for QoS in IP-centric networks • Interoperability from the telecommunications perspective Objectives: Identify requirements for interoperability and Quality of Service for health information systems, telemedicine networks and telemedicine systems, and review current standardization work.
10:30 – 11:00	Break
11:00 – 12:30	Session 9: Economic benefits of e-health standardization • European Community • ETSI/Human Factors • Japan Objectives: Overview of the economic benefits of standards for e-health users, service providers, industry, governments, etc. Coordination and promotion of standards to enable those economic benefits.
12:30 – 14:00	Lunch
14:00 – 15:30	Session 10: Panel discussion: E-health standardization • Telemedicine standards – standards to be used in a multicultural, multilingual and cross-discipline context • Framework for e-health standardization • E-health Standardization Plan and further actions Objectives: Considering that e-health and telemedicine standards will be used in a multicultural, multilingual and cross-discipline context, identify a framework for e-health standardization and define the E-Health Standardization Plan, including further actions, synergies and priorities.
15:30 – 16:00	Break
16:00 – 17:30	Close of Workshop: Wrap-up, conclusions and recommendations

Workshop on Standardization in E-Health

(ITU Headquarters, Geneva, Switzerland 23-25 May 2003)

REGISTRATION FORM

To be returned to TSB (Fax: +41 22 730 5853 or e-mail to tsbreg@itu.int) by 23 April 2003

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		ITU Sector Member
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