Semantics Management and Discovery

Since 1987 the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) have been addressing the development, editing and dissemination of metadata standards. In order to promote metadata exchange and dissemination, Working Group 2 (ISO/IEC), in collaboration with the German Institute for Standardization (DIN) and TMF – Technology, Methods, and Infrastructure for Networked Medical Research, will be holding the "15th International Open Forum on Metadata Registries" on May 30 this year.

In 2012, the theme of the forum is „Semantics Management and Discovery" focusing on the healthcare sector. Medical research relies on the availability and application of standards because precise definition of data acquisition criteria has a considerable impact on the meaningfulness and quality of clinical and epidemiological studies.

However, the concepts, models, technologies, and solutions employed are not unique to medicine. Description of data, products and services by metadata is a general prerequisite for cooperation and interoperability in a networked world. Appropriate registries collect those metadata and make them accessible. Such registries can be part of the IT infrastructure of companies, or a national service provided by government agencies. As a result, this year's forum also offers contributions toward the use of metadata in the telecommunications industry, in the insurance sector, and in geo-information systems.

The "15th International Open Forum on Metadata Registries" will be held on the premises of the TMF in Berlin. It targets users of metadata as well as standardization experts and developers of solutions applying the standards. The aim is to promote metadata dissemination through an exchange of information about it.

TMF Forum "Metadata and Linked Data" – Workshop

This workshop is devoted to current standards that are important in the field of medical research and semantic interoperability. The organizers are thus meeting a request often expressed by the community, that the complex standards be presented systematically on one occasion. The target group is medical data specialists interested in terminologies, semantics and interoperability in clinical research. Prior knowledge of the various topics is not required but fundamental knowledge of basic technologies like XML, HTTP and UML will be useful. **The workshop will be held in German.**

Exchange of Information and Shared Solutions for Health Research

The host of this year's forum is TMF – Technology, Methods, and Infrastructure for Networked Medical Research, an umbrella organization committed to improving the safety, quality and efficiency of networked medical research in Germany. Members of the TMF are cross-regional networks and networked medical research institutes, such as the Competence Networks in Medicine, Networks for Rare Diseases, Zoonosis Networks, Coordination Centers for Clinical Studies, or the National Genome Research Network (NGFN). On behalf of the TMF, tools for standardized preparation and evaluation of data from clinical studies were developed and made available in recent years. In its endeavors, the TMF paid special attention to the use and support of international standards.

www.tmf-ev.de

TMF – Technology, Methods, and Infrastructure for Networked Medical Research

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15th International Open Forum on Metadata Registries

May 30, 2012 | Berlin, Germany

TMF Forum Metadata and Linked Data – Workshop

May 29, 2012 | Berlin, Germany

TMF – Technology, Methods, and Infrastructure for Networked Medical Research

Synergy, quality & standards – shared solutions for health

Program

May 30, 2012 – Open Forum on Metadata Registries

9:00 AM Welcome and Introduction
Sebastian C. Semler, TMF, Germany

9:10 AM ISO 11179 Metadata Registries (MDR) and ISO 19763 Metamodel Framework for Interoperability (MFI)
Denise Warzel, ISO/WG2 Convenor, U.S. National Cancer Institute, USA

9:30 AM Healthcare: Mapping EHR Data to a Research Case Report Form: How a Metadata Repository, CDISC's SHARE, can improve the IHE profile Clinical Research Data (CRD)
Bain L, CDISC Liaison to Healthcare, USA; Evans J, CDISC Director of Technical Services, USA; Lastic P Y, Senior Director of Data Privacy and Healthcare Interoperability Standards, Sanofi-Aventis, France

10:05 AM Telecommunications: Metadata Requirements in Telecommunications Cloud Computing
Ewelina Szczekocka, Telekomunikacja Polska, Poland

10:40 AM Coffee Break

11:00 AM GeoSpatial: The Ingest, Storage, and Retrieval of Geopolitical Code Sets in a 11179 Metadata Registry
Gramm Richardson, U.S. Department of Defense, USA

11:35 AM Oxford MDR
Steve Harris, Jim Davies, Oxford Computing Laboratory, UK

12:10 PM Lunch

1:15 PM Telecommunications: Representing Semantics for User Oriented Service Compositions
Mariano Belaunde, Orange Labs, France

1:50 PM Healthcare: A National Metadata Repository for Empirical Research in Germany
Stausberg J, LMU Munich, Germany; Drepper J, TMF, Berlin, Germany; Löbe M, University of Leipzig, Germany; Ngouongo S, LMU Munich, Germany; Verplancke P, XClinical, Munich, Germany

2:25 PM Healthcare: The TMF and its Metadata and Linked Data Forum
Löbe M, University of Leipzig, Germany; Drepper J, TMF, Berlin, Germany; Stausberg J, LMU Munich, Germany; Verplancke P , XClinical, Munich, Germany

3:00 PM Break

3:20 PM Healthcare: Implementation of an ISO/IEC 11179 Based Metadata Registry to Foster Interoperability of Health Telematics Applications
Bernhard Rimatzki and Peter Haas, Fachhochschule Dortmund, Germany

3:55 PM Healthcare: Sharing of OID Registry Information
Gessner C, TMF, Berlin, Germany; Thun S, Hochschule Niederrhein, Krefeld, Germany; Sabutsch S, ELGA GmbH, Vienna, Austria; Heitmann K, Heitmann Consulting and Services, Hürth, Germany

4:30 PM Closing Remarks

May 29, 2012 – TMF Forum Metadata and Linked Data Workshop (held in German language)

10:30 AM Introduction

10:40 AM ISO 11179 Edition 3 Metadata Registries (MDR)
Matthias Löbe, University of Leipzig, Germany

12:10 PM Lunch

12:40 PM Common Terminology Services Release 2 (CTS 2)
Robert Muetzner, Fachhochschule Dortmund, Germany

2:10 PM Coffee break

2:25 PM Operational Data Model (ODM)
Christian Bauer, University Medical Center Göttingen, Germany

3:25 PM Coffee break

3:40 PM Semantic Web Technologies
Magnus Knuth, Hasso-Plattner-Institute Potsdam, Germany

5:10 PM Summary and final discussion

Organisational issues

Dates and times
Open Forum: May 30, 2012 | 09:00 AM-04:45 PM
Workshop: May 29, 2012 | 10:30 AM-05:40 PM

Venue
TMF Conference rooms: Georgenstraße 22 | D-10117 Berlin

How to get there
- By rail: from Berlin main station (Hauptbahnhof), take the S-Bahn (suburban rail service) and alight at Friedrichstraße.
- By air: from Tegel airport, take the no. 128 bus to Kurt-Schumacher-Platz. Then take the U6 (underground) to Friedrichstraße. From Schönefeld airport take the Railway to S-Bahn station Friedrichstraße.

The venue is only a short walk from the Friedrichstraße station (map see: http://www.tmf-ev.de/EnglishSite/AboutUs/Contact.aspx).

Chairs
Open Forum on Metadata Registries
- Denise Warzel, Convener Working Group 2 (ISO/IEC), US National Cancer Research Institute
- Prof. Dr. Jürgen Stausberg, German delegate Working Group 2 (ISO/IEC), vice spokesman of TMF WG IT-QM
- Sebastian Claudius Semler, Executive Director, TMF e.V.

Workshop of the TMF Forum "Metadata and Linked Data"
- Matthias Löbe, University of Leipzig, Germany

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Registration
Please register online at: **www.tmf-ev.de/anmelden**. Participation is free of charge. Travel expenses will not be compensated.