Linked Data -- Enabling Standards and Other Approaches

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ABSTRACT
Linked Data is a term used to describe a set of best practices for publishing, sharing, and connecting structured data on the Web. It is “about using the Web to connect related data that wasn't previously linked, or using the Web to lower the barriers to linking data currently linked using other methods.”[1] The panel will introduce and discuss standards and alternative approaches enabling, representing and disseminating data as linked data, including:


• W3C’s RDFa which is actively being refined [5] and has generated significant fresh usage activities -- by Jon Phipps and Ed Summers.


The ASIST Standards Committee has been organizing standards updates sessions at each ASIST annual conference. The purpose is to promote the awareness of standards issues by major standards bodies including: ISO, NISO, and W3C. Meanwhile, the sessions usually bring in a focused panel to address an array of important issues around standards and applications in which the ASIST community would be interested. Presenters will give introduction to the standards specified at their position statements above, lead audience-participated discussions, and answer questions.

Keywords
Linked Data, ISO, RDFa, NISO, Institutional Identifiers, Library Linked Data Incubator Group

1. Sam Oh (산 씨), Sungkyunkwan University, Korea

Short bio: Sam Oh is Professor of library and information science at Sungkyunkwan University, Korea. He is the Chair of ISO JTC1/SC34 (Document Description and Processing Language), Chair of ISO TC46/SC9 (Identification and Description), member of DCMI Oversight Committee, and the Director of InterPares 3 TEAM-Korea.

Position statement: Sam Oh will provide an update of ISO standards that are related to the Semantic Web development, including activities of ISO /IEC JTC 1/SC 34 (for Document Description and Processing Languages standards related to structured markup languages [2], and projects at ISO TC46/SC9 (Identification and Description) [3]. He will also give an overview of the features of W3C Web Ontology Language 2 (OWL2)[4].

2. Jon Phipps and Ed Summers

Jon Phipps, JES & Co and Metadata Management Associates

Short bio: Jon Phipps is Lead Scientist for Internet Strategies at JES & Co., ”a non-profit organization dedicated to the 21st century education of youth,” and a partner in Metadata Management Associates in Ithaca, NY. He was most recently the Lead Engineer and Principal Investigator of the NSDL Metadata Registry, which has become a JES & Co. project. He was the Technical Lead of the National Science Digital Library (NSDL) Core Integration group at Cornell University, and an Invited Expert on the W3C Semantic Web Deployment Working Group where he was a co-editor of the SKOS Use Cases and Requirements document and a co-editor of the revised Best Practice Recipes for Publishing RDF Vocabularies. He is a member of the Dublin Core Metadata Initiative Advisory Board and co-chair of the Registries
Community, an Invited Expert on the W3C eGovernment Interest Group, and an Invited Expert of the W3C Library Linked Data Incubator Group.

Position statement: (See under Ed Summers)

**Ed Summers**, Library of Congress

**Short bio:** Ed Summers is currently working as a software developer at the Library of Congress, on a team that is examining what digital repositories mean for the loc.gov enterprise. As part of his participation in the W3C Semantic Web Deployment Working Group, Ed helped shape the RDFa and SKOS specifications. Ed previously worked in a variety of positions at Follett Corporation, CheetahMail, Old Dominion University, University of Illinois Urbana-Champaign and Columbia University. He is a member of the W3C Library Linked Data Incubator Group.

**Position statement:** Jon Phipps and Ed Summers will give an update of the development of RDFa, as they both are part of the Semantic Web Deployment Working Group. RDFa is actively being refined [5] and there are significant fresh usage activities, e.g., RDFa is starting to be used by Facebook, Yahoo and Google as a mechanism for embedding metadata in web pages. They will also discuss other non-standards-track developments that enable dissemination of data (including metadata and knowledge organization system (KOS) data as linked data.

3. **Jody DeRidder**, University of Alabama Libraries

**Short bio:** Jody DeRidder is Head of Digital Services at the University of Alabama Libraries, where she has developed a scalable infrastructure which lends itself to both preservation and online delivery. Prior to this, she served for five years as the lead programmer and infrastructure architect for the University of Tennessee Digital Library Center. Jody holds Master’s Degrees in both Computer Science and Library Science. She is a member of the NISO I2 (Institutional Identifiers).

**Position statement:** Jody DeRidder will introduce the work of the NISO I2 (Institutional Identifiers) [6] Working Group which is developing a standard that includes a globally unique institutional identifier string usable in the web environment, together with sufficient metadata to uniquely relate the institution to its identifier. The working group is also tasked with identifying a strategy for the implementation of the institutional identifiers.

4. **Marcia Zeng, Jon Phipps and Ed Summers**

**Marcia Zeng**, Kent State University

**Short bio:** Marcia Zeng has chaired and served on standards committees and working groups for IFLA, SLA, ASIST, NISO, and ISO. She currently chairs the ASIST Standards Committee and IFLA Working Group on the Functional Requirements for Subject Authority Records (FRSAR). She is a member of the Executive Board of the International Society for Knowledge Organization (ISKO) and the Advisory Board of Dublin Core Metadata Initiative (DCMI), and an Invited Expert of the W3C Library Linked Data Incubator Group.

**Position statement:** Marcia Zeng will join Jon Phipps and Ed Summers to share the progress of the W3C Library Linked Data Incubator Group [7], established in June 2010 to help increase global interoperability of library data on the Web. Together they will answer questions related to the issues and dimensions of the library linked data activities.

**Organizers**

Marcia Zeng, Kent State University (Chair, ASIST Standards Committee) (See above).

**Mark Needleman**, Florida Center For Library Automation (Past chair and current member, ASIST Standards Committee)

**Short bio:** Mark is the Support Specialist at Florida Center for Library Automation. He was a Product Manager of Standards at Data Research Associates, Project Manager at Sirsi Corporation, and Coordinator of Advanced Technology Development at University of California Corporate Headquarters (UCOP). He was the chair and is a member of the ASIST Standards Committee and has been involved in a number of NISO standards’ development. Currently he is a member of the NISO I2 (Institutional Identifiers) Working Group.

**Moderator**

Gail Hodge, Information International Associates, Inc.

**Short bio:** Sr. Project Manager at Information International Associates, Inc., Gail has been involved in the development and implementation of knowledge organization systems, metadata schemes, and related standards for the last 30 years. She has written and presented numerous papers on related topics. She was the ASIST Director-at-large and is a member of the ASIST and NFAIS Standards Committees.

**REFERENCES**


