Progress Report on XML4IP Standard Preparation

Committee on WIPO Standards

Young-Woo Yun
XML4IP Task Force Leader
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XML4IP Task Force

- XML4IP Task Force was created by the SDWG in 2007 to work on Task No. 41 which is to prepare:
  - Global International Common Elements (GICEs)
  - XML Schemas / DTDs
- 56 TF members from 22 IPOs
- Discussion via the Wiki e-Forum (restricted to TF members)
  - https://www3.wipo.int/confluence/display/xml4iptf/Home
- Documents and proposals discussed and agreed by the Task Force are available on the WIPO’s website at:
XML4IP TF Recent Activities

- Held Two Meetings since SDWG/11
  - Geneva October 2009 and Tokyo May 2010
- Discuss Business Case of XML4IP Standard
  - Agreed the provisional objectives and scope
- Discuss the XML4IP Structure
- Discuss Design Rules and Conventions
- Define common business data/information components
- Develop XML schemas for common components
- Discuss Backward Compatibility with ST.36/66/86
Business Case

Reasons
- XML technology change from DTDs to Schema
- Better capability and support by commercial tools
- Harmony XML resources for all three IP types
- Enhance interoperability of data exchange among IPOs using rigid Standard

Benefits
- design rules aligned with contemporary industry practice;
- reduction of the ongoing need for IPOs to maintain infrastructure and systems to process DTDs;
- use of common vocabulary across three IP types; and
- Effective data exchange by enhancing interoperability
Objetives of XML4IP

- Facilitation of data exchange among IPOs using XML
- Harmonization of data structures among three IP types
  - rules and guidelines for dealing with common data structures across multiple IP types /data structures specific to one IP type
- Maximization of data transformability from ST.36, ST.66 and ST.86 format to XML4IP format (Backward compatibility)
- Facilitation of XML implementation within IP offices
Scope of XML4IP

- XML4IP recommends the XML (eXtensible Markup Language) resources used for filing, publication, processing, and exchange of all types of industrial property (IP) information, (i.e., patents, trademarks and industrial designs).

- The XML4IP TF continues discussing whether the XML4IP standard will supersede or supplement ST.36, ST.66 and ST.86.
Provisional Structure of XML4IP Standard

- Main Body of XML4IP standard;
  - Annex I: Design Rules and Conventions (DRCs);
  - Annex II: IP Data Dictionary;
  - Annex III: XML4IP Schemas;
  - Annex V: Schema Implementation Guidelines;
  - Annex VI: Backward Transformation-Compatibility Guidelines and Rules; and
Design Rules and Conventions

- A foundation of the XML4IP standard.
- A comprehensive set of design rules and conventions for the creation of XML schemas and instances
  - Approximately 170 rules are defined
- IP offices can also use this document as a guideline for developing their internal design rules.
- Discussion on DRCs V0.6 has been completed and DRCs V0.7 will be discussed
XML4IP Schemas

- ST.36, ST.66, ST.86 provides only model DTDs or Schemas as a reference for developing DTDs or Schemas
- XML4IP will provide schema files which MUST be used for data exchange among IPOs (Rigid Standard)
- Draft XML schemas of name, address, address book, payment method, signature, citation and image have been developed and are under discussion.
- IP5 Offices/ Vancouver Group proposed to develop schemas for work-sharing products
- Gazette, Priority documents, File wrapper (Search Report, ApplicationBody, etc), Legal status Search History of Search System
XML4IP Schemas - Architecture

XML4IP Core Data Types

W3C Built-in Data Types

Patent Component
- Document
- Aggregate
- Basic

Trademark Component
- Document
- Aggregate
- Basic

Design Component
- Document
- Aggregate
- Basic

Common Component
- Aggregate Component
- Basic Component

uses
XML4IP Schemas – Data Exchange

Objectives of XML4IP

- Information exchange between multiple countries
- Data exchange among IPOs using XML4IP

Country A

- XML4IP Domestic Application/Notification
  - Shared Component X
  - Proprietary Component α

- Application/Notification

Country B

- XML4IP ApplicationBody
  - Shared Component X
  - Proprietary Component β

Data exchange among IPOs using XML4IP

Business schema

Proprietary Component

XML4IP ApplicationBody

Applicant

IP Office

Shared components complying with XML4IP can be used without conversion.
Backward Transformation-Compatibility

- Rules & guidelines for backward transformation compatibility
  - Transform XML instances conformant to ST.36/ST.66/ST.86 into XML4IP-compliant format
  - Facilitate the IPOs to transform data and to adopt the new XML4IP standard.
  - Tools for backward transformation are needed.

- Rules & guidelines for **forward transformation compatibility** will not provided by XML4IP
Tools for Backward Compatibility

- IPO A
- IPO F
- ST.66 Converter
- ST.36 Common Converter
- ST.86 Converter
- IPO1 ST.36
- IPO2 ST.36
- …
- PCT ST.36
- Converter 1
- Converter 2
- Converter …
- AnnexF Converter
Challenges

- Different data structure between ST.36 and ST.66/ST.86 (Harmonization)
- Consensus on solid standard for data exchange over diverse business rules and practices (Interoperability)
- Conversion of volume of legacy data
  - Develop tools to facilitate conversion of data compliant to various ST.36 versions

Investment
Tentative XML4IP Timeline

- October 2010: XML4IP Task Force meeting during the first session of the CWS;
- December 2010: the IB to circulate a draft proposal for new standard, including draft main body and Annexes;
- February to August 2011: Development of more schemas and revision of draft standard; and
- Second session of CWS, in 2011, the XML4IP TF to submit a final proposal of the XML4IP standard for consideration and approval by the CWS.
Agenda of XML4IP TF Meeting

- Review of XML4IP Business Case (V0.2)
- Review of XML4IP Structure
- Review of Design Rules and Conventions (DRCs)
- Review of XML4IP Schemas
  - Discuss Issues & schemas (patent Work-sharing product schemas)
- Discussion on Tasks and Timeline
  - Prioritize Tasks and establish Timeline
- Discuss collaboration to prepare final draft of XML4IP
- Discuss the timeline for preparation of XML4IP standard
Proposal for Consideration by CWS

The International Bureau proposes to revise the description of Task No. 41 with the following text:

Task No. 41: Prepare, for adoption as a WIPO standard, a recommendation for the XML (eXtensible Markup Language) resources to be used for filing, processing, publication and exchange of information regarding patents, trademarks and industrial designs.

The International Bureau proposes to adopt the standard number ST.96 for the new XML4IP standard.
Thanks for your attention

Q & A

youngwoo.yun@wipo.int