



# **Progress Report on XML4IP Standard Preparation**

**Committee on WIPO Standards**

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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:
  - <http://www.wipo.int/scit/en/taskfrce/xml4ip/background.htm>

# 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 IV: Schema Technical Specification;
- Annex V: Schema Implementation Guidelines;
- Annex VI: Backward Transformation-Compatibility Guidelines and Rules; and
- Annex VII: Conformance Guidelines and Rules.



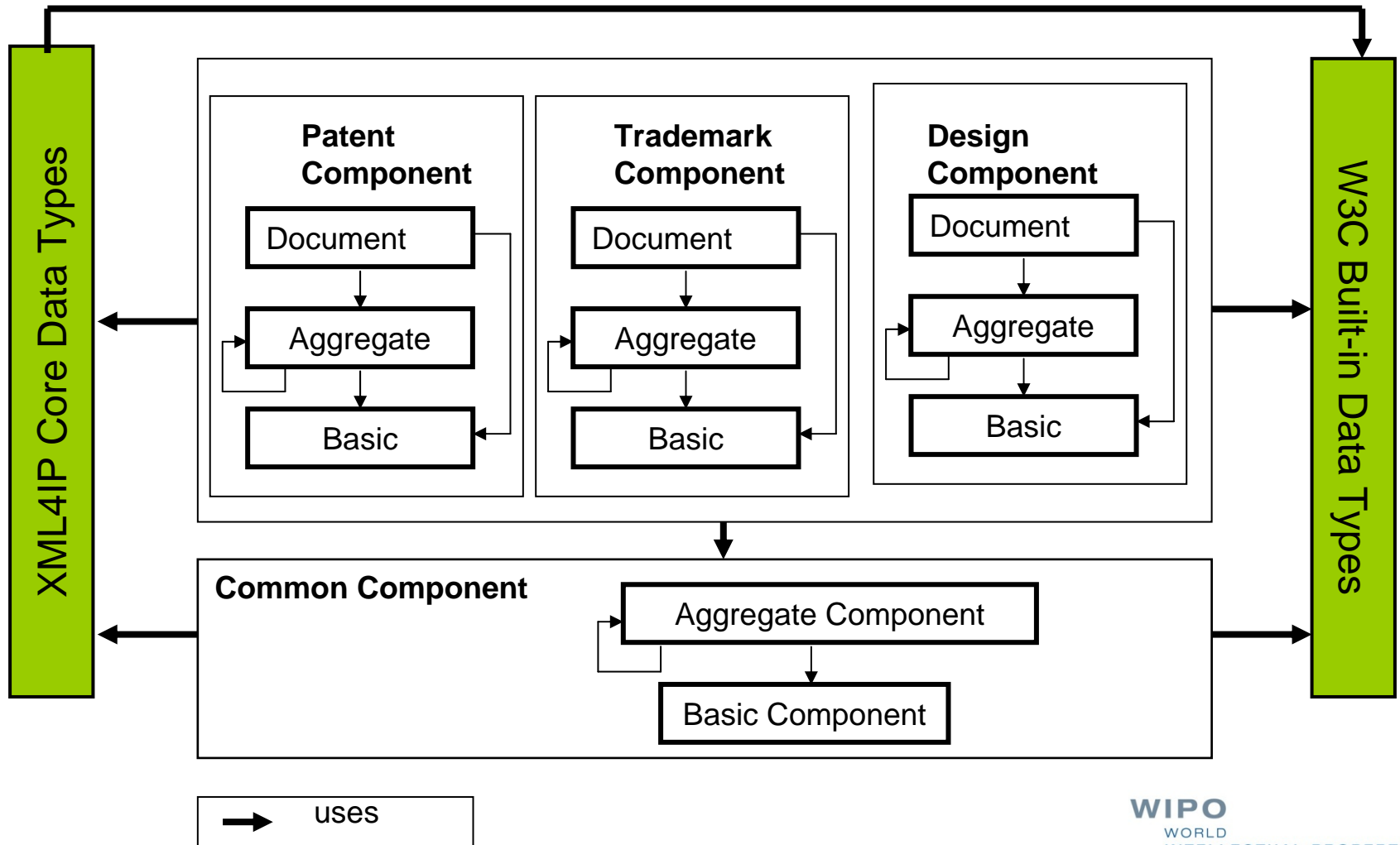
# Design Rules and Conventions

- 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

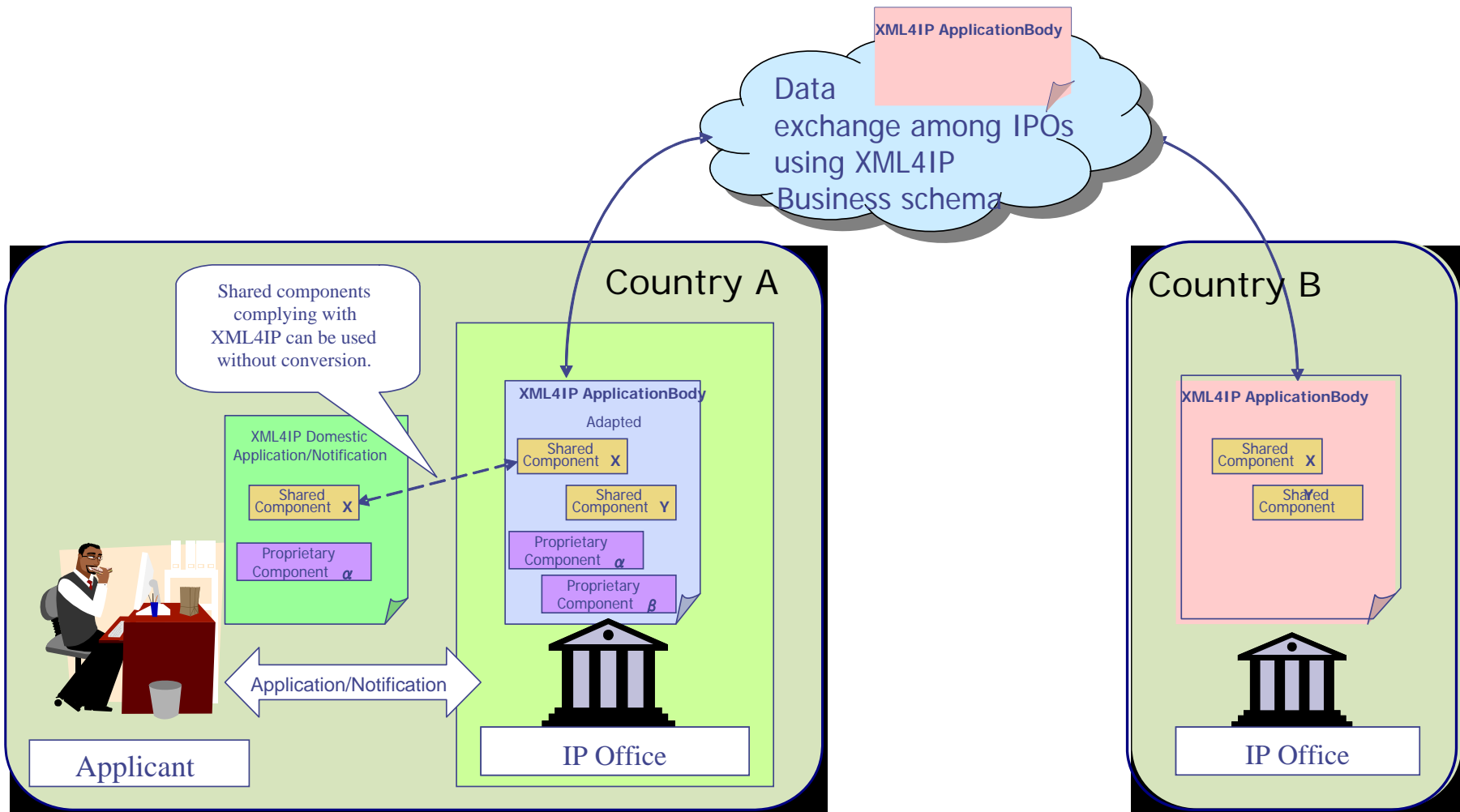
# XML4IP Schemas

- 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



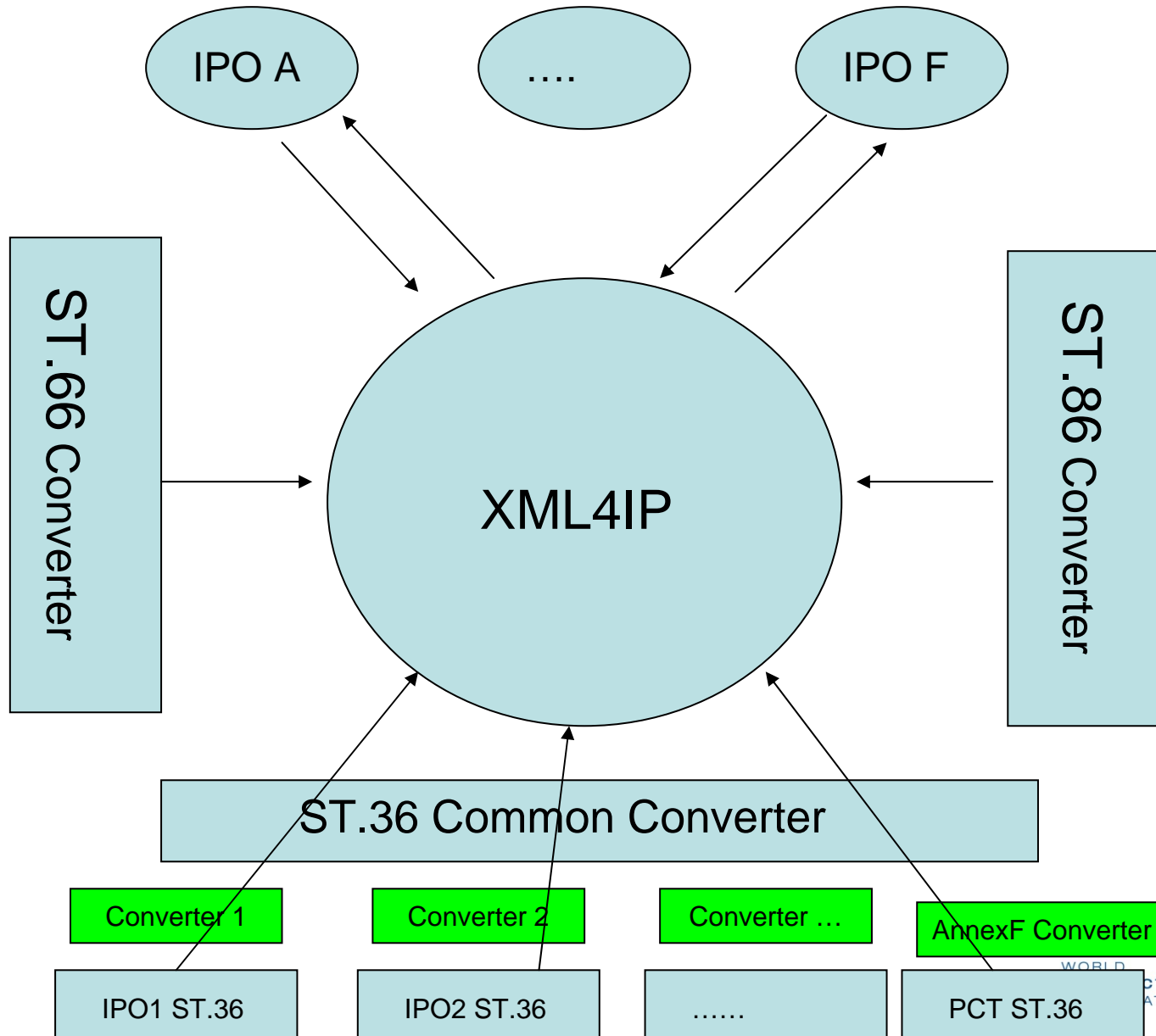
# XML4IP Schemas – Data Exchange



# 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



# 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

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