RDA P11: New Developments at the ePIC DTR

WG Data Type Registry 2 at RDA Plenary 11

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22 March 2018, Berlin
Status of the ePIC DTR

- [http://dtr.pidconsortium.net/](http://dtr.pidconsortium.net/)
- number of types in preparation ([http://dtr-test.pidconsortium.net](http://dtr-test.pidconsortium.net))
  - BasicInfoTypes: 194
  - InfoTypes: 103
- number of candidate types ([http://dtr-pit.pidconsortium.net](http://dtr-pit.pidconsortium.net))
  - BasicInfoTypes: 22
  - InfoTypes: 24
Hierarchical Type Definitions in ePIC DTR

- recursive dependency structure:
  - *PID info types* depend on *basic PID info types* or *PID info types*
  - *basic PID info types* are String or Numeric types with restrictions (e.g. regexp)

- dependencies have grounded definition
  - makes it easy to define new types
  - to provide types for an adoption
    - adoption of the collections-WG recommendations took 1h

- consequence:
  - dependencies can be exploited by automated processes
  - for instance to derive schemas for the type values
    - automated server side schema derivation
**Type Life Cycle**

- The data type status can be:
  - *in preparation*,
  - *candidate*,
  - *approved* and
  - *deprecated*

- platforms:
  - *in preparation* on dtr-test.pidconsortium.net
  - all others on dtr-pit.pidconsortium.net

- migration
  - only goes in one direction
  - technically non-trivial: from *in preparation* to *candidate*
    - because two different DTRs are involved
    - and because of the hierarchical concept
    - all subtypes need to be candidates beforehand
    - the subtype relation need to be automatically transformed
    - at least the suffix remains
  - all other migrations are only organisational
Prerequisites for Types

Categories of Prerequisites:

- **Access**
  - platform (dtr-test vs dtr-pit)
  - kind of administration: user or admin

- **Provenance**
  - rules of dependencies from previous types and subtypes
    - candidates must have a predecessor in preparation,
    - only candidates can become approved types
    - candidates and approved types can become deprecated

- **Consistency**
  - needs reasonable entries in mandatory fields
  - consistent dependency related information
    - types used in the "properties" part has to be also in the "Applicable Standards or Recommendations" part
    - dependent on the type of type (basic vs derived InfoType)

- **Documentation**
  - description
  - examples

- **Governance in the Decision Process**
  - most prerequisites can be proven automatically
  - but not the semantic decisions
    - one needs a board or some kind of impact measurement
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DTR Interoperability

minimal level of a federation / cooperation between DTRs

- agreement about at least knowing each other and referring to each other
- agreements on standards for type definitions
- agreements on searching types across DTRs
Many Thanks

Questions ???

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