IODEF Data Model Status
(progress from -03)
<draft-ietf-inch-iodef-04>

tracked @ https://rt.psg.com : inch-dm queue

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Status of Issues

- 04 resolved 8 open issues
- 6 remaining issues
  - 5 Require Discussion with Proposal
  - 1 Require Discussion (no Proposal)
New in -04 draft

- #365: XML Schema
- #699: Timezone Datatype
- #359: Supporting AS numbers in <Address>
- #703: Replace <Analyzer> with <Application>
- #858: Redefine Incident@purpose
- #856: Implementation-Friendly Time
- #702: Representing OS information
New in -04 draft (cont…)

• Moved IPHeader to RecordItem to support RID
  – Added a HEXBIN data type

• Added ML_STRING data type
  – Schema as no global xml:lang attribute
#698: Representing a Name in <Contact>


- Context-dependant typing of name
  - .../Contact/name is of type NAME
  - <name> is correctly defined as a STRING in other places
- Define a new class with a structured data-type represent a name of an organization or person

PROPOSAL #1

```xml
<xs:element name="NameIdentifier" type="iodef:NameIdentifierType"/>
...
<xs:attribute name="format">
  <xs:simpleType>
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="emailAddress"/>
      <xs:enumeration value="x509NameQualifier"/>
      <xs:enumeration value="urn"/>
      <xs:enumeration value="local"/>
      <xs:enumeration value="other"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
```
#698: Representing a Name in <Contact> (cont …)

- **PROPOSAL #2**
  - Rename the name class used in Contact to PersonOrgName

- **PROPOSAL #3**
  - (see #855) Redefine Contact to Use X.509 DN-like syntax

  ```xml
  <Contact CN='Joe Smith' OU='AIRG' O='UvA' S='NH' L='Holland' C='NL'>
    <Description>helpful contact</Description>
    <Email>person@example.com</Email>
    <TimeZone>+001</TimeZone>
  </Contact>
  ```

- **STATUS:** agreement on necessity, no consensus on proposal
  - Proposal #1: conflicts with existing definition
  - Proposal #2: Simply text change
  - Proposal #3: Familiar notation; richer organizational info; difficulty in attribute enforcement for either CN/OU/<Email>
#855: Formalize <Location>


- Apply structure to the currently free-form <Location>

- PROPOSALS
  - Use X.509 DN-like syntax
    `<Location CN=Yuri Demchenko, OU=AIRG, O=UvA, S=NH, L=Holland, C=NL>
    <Timezone>+0600</Timezone>
    </Location>`

- STATUS: further discussion required
  - Concerns that the proposal redefines the intent of the class (i.e., it provides a way to bind a <Node> to an organization).
  - Redundant information to <Contact>
#701: Review of Default Values

https://rt.psg.com/Ticket/Display.html?id=701

- Review all default attribute values and report back to the WG

- STATUS:
  - Pat Cain making progress
#551: Formalizing <RecordData>

https://rt.psg.com/Ticket/Display.html?id=551

• Add meta-information so that in-lined logs snippets and those reference externally can be processed
  – Support a way to specify a filter pattern and offsets into text and binary log files

• STATUS:
  – Proposal exists in v043 of the Schema – additional text has been requested of the author (Yuri Demchenko)
#857: Handling Binary Files


- Handing binary files and impact of XOP (XML-binary Optimization Packaging) on transport

- STATUS: Awaiting proposal from author (Hiroyuki Kido)
To be written

• IANA Considerations (Issue #700)
• Examples and description of XML-Signature and XML-Encryption in Security Considerations
Moving Forward

• Release an -05 draft within a month
  – Address likely nits between schema and text
  – Resolve issues with proposals

Comments?