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# 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

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

# New in -04 draft

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- #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...)

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- 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>

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<https://rt.psg.com/Ticket/Display.html?id=698>

- 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

```
<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 ...)

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- PROPOSAL #2
  - Rename the name class used in Contact to PersonOrgName
- PROPOSAL #3
  - (see #855) Redefine Contact to Use X.509 DN-like syntax

```
<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>

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<https://rt.psg.com/Ticket/Display.html?id=698>

- 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

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<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>

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<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

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<https://rt.psg.com/Ticket/Display.html?id=857>

- Handling binary files and impact of XOP (XML-binary Optimization Packaging) on transport
- STATUS: Awaiting proposal from author (Hiroyuki Kido)

# To be written

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

# Moving Forward

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

Comments?