ivoa dm: usage in CAOM and wishlist

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ivoa dm: primtiveType overview

- string
  - anyURI
  - Unit
- real
- integer
- nonnegativeInteger
- boolean
- rational
- complex
- datetime

ivoa dm: dataType(s) overview

- dataType has attributes
  - VO-DML *recommends* 0..1 cardinality (warning if upper > 1)
- Quantity
  - IntegerQuantity
  - RealQuantity

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ivoa dm: usage in CAOM

- CAOM data model defined using VO-DML
- imports ivoa data model and uses primtiveType(s):

  ivoa:string (40)

  ivoa:anyURI (9)

  ivoa:datetime (5*)

  ivoa:boolean (5)

  ivoa:integer (16)

  ivoa:real (51)

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ivoa dm: primitiveType(s) defined in CAOM

- caom2:uuid

```
<primitiveType>
    <vodml-id>uuid</vodml-id>
    <name>uuid</name>
    <description>
        a 128-bit globally unique binary identifier
    </description>
    <extends>
        <vodml-ref>ivoa:string</vodml-ref>
    </extends>
</primitiveType>
```

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ivoa dm: dataType(s) defined in CAOM

caom2:Point	DALI point
caom2:Circle	DALI circle
caom2:Polygon	DALI polygon
caom2:Vertex	
caom2:MultiPolygon	DAL use cases?
caom2:Interval	DALI interval
caom2:SubInterval	DALI interval[ ]

ivoa dm: primitiveType vs DALI xtype(s)

- ivoa dm defines the model

- DALI and VOTable define the serialisation of the model as a value

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ivoa dm: primitiveType vs DALI xtype(s)

- ivoa dm defines the model

- DALI and VOTable define the serialisation of the model as a value

- **Proposal 1:** immediately add existing DALI types as dataType(s) in ivoa dm:
  - ivoa:point
  - ivoa:circle
  - ivoa:polygon
  - ivoa:interval (possibly with integer/real extensions)

- **Proposal 2:** for new use cases, define and add dataType(s) to ivoa dm **and** define serialisation (xtype) in DALI
  - e.g. MultiPolygon

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