



Abstract Data Model for Satellite Instrument Event Logs

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Abstract Data Model

- Determines the information content, data components, and the relationships between these components
- Building blocks are data objects from the ISO 19115-2 metadata standard
- New data objects introduced:
 - EventList
 - Event
 - EventTypeCode
 - Revision

EventList Object

- Holds one or more events
- Mandatory elements:
 - Title
 - Description
 - Identifier
 - Responsible parties (maintainer, contact person, etc.)
 - Dates of changes (creation/revision/publication times)
 - Language
 - Character set
 - License
 - Online resource associated with the event list

Event Object

- Information about one event
- Mandatory elements
 - Title
 - Description
 - Identifier
 - Extent (temporal and/or geospatial)
 - Event type (one or more)
 - One of:
 - Platform (zero or more)
 - Instrument (zero or more)
- Optional elements
 - Citation (resource associated with the event)
 - Revision history

EventTypeCode Object

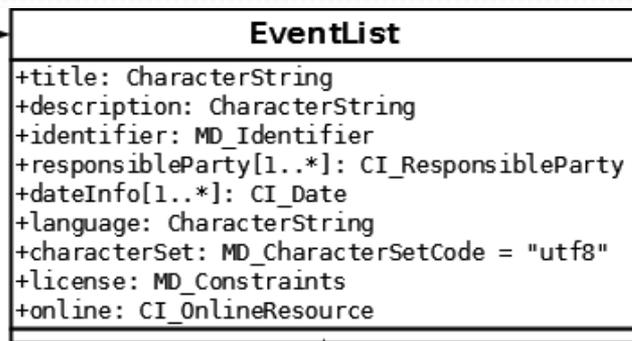
- A code list of event types
- Flat list, not a hierarchy
- One event can have one or more types
- Standardizing on list values and their descriptions establishes a common vocabulary for categorizing events



Revision Object

- Information about one event revision
- Mandatory elements:
 - Time (creation/revision/publication)
 - Author (who made the revision)
 - Description of the revision changes

At least one
dateInfo.dateType="revision"



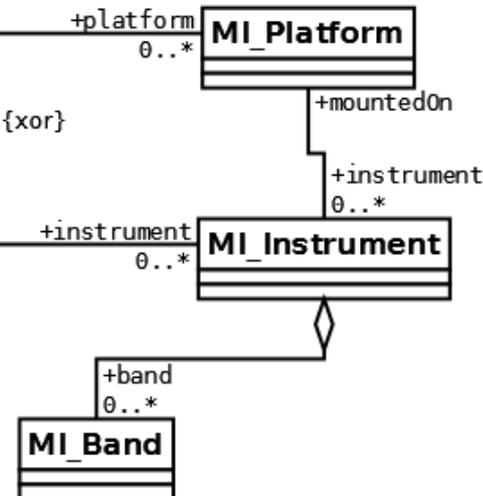
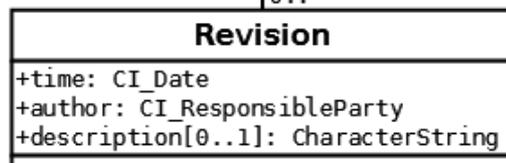
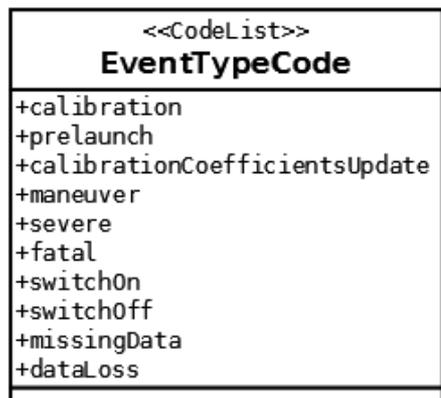
Event Data Model for Satellites and Their Instruments

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This should somehow find
its way into the EX_Extent,
likely get into a union with
some code list.





What's Next?

- Gather feedback from GSICS organizations if something like this data model is applicable to their requirements
- Further test the data model by applying it to as many events as possible
- Start working on the event type list