1752.1 Metadata Schemas


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1752.1 Schemas

- A schema defines how instance data should look like in terms of data types, properties, etc.
- 1752.1 schemas are written in JSON Schema https://json-schema.org/
- 1752.1 schemas, including metadata schemas https://opensource.ieee.org/omh/1752/-/tree/main/schemas/metadata and sample data are available on the repository https://opensource.ieee.org/omh/1752/-/tree/main
1752.1 metadata schemas
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JSON Schema header structures
standardized minimum metadata
Categories of Metadata

- **Datapoint (may be observed or computed)**: Description of the datapoint itself
- **Source**: From what sensor(s) did the datapoint come?
- **Acquisition / Processing**: How was the datapoint acquired? processed?
- **Attribution**: What app or product provided this datapoint?
- **Privacy**: Who can access, when, why, for what?
Instance = header + body

- Instance can be of data point or data series
- Header complies with header schema
  https://opensource.ieee.org/omh/1752/-/blob/main/schemas/metadata/header-1.0.json
- In a data point, body complies with the schema identified in the header
  https://opensource.ieee.org/omh/1752/-/blob/main/schemas/metadata/data-point-1.0.json
- In a data series, body is an array, each element complies with the schema identified in the header
Examples: **header** and **schema-id**

- All sample data in metadata folder
- Required data elements, as defined with the “required” keyword in the schema
- Optional data elements
- “Minimum” metadata
Examples: data point and data series

- ambient temperature: data point

- physical activity: data point

- ambient temperature: data series
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Sample data as supporting documentation
1752.1 Sample Data

Sample instance of ambient temperature (header and body)
Sample Data

Sample instance of blood glucose (header and body) — not from IEEE repository

Shows expandable external_datasheets array

Next steps:
- associate a value set to datasheet_type
- define and standardize additional data elements based on community input