Requirements for Digital Data Sheets

Filename conventions

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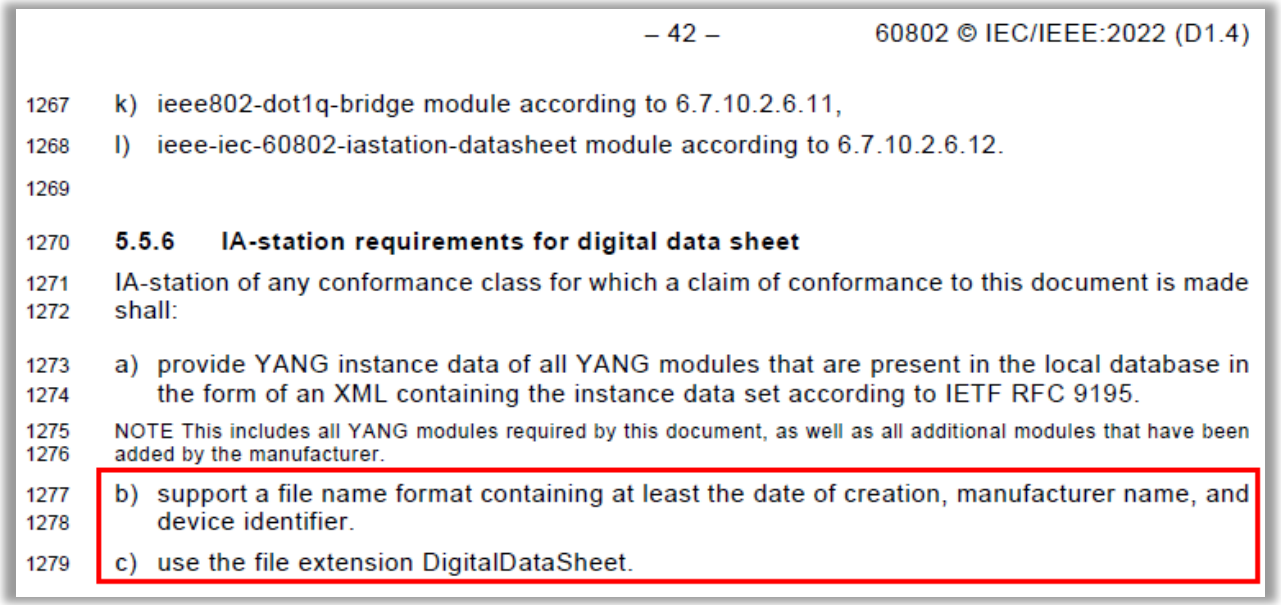
Current requirements in IEC/IEEE 60802 Draft 1.4



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k) ieee802-dot1q-bridge module according to 6.7.10.2.6.11,

l) ieee-iec-60802-iastation-datasheet module according to 6.7.10.2.6.12.

5.5.6 IA-station requirements for digital data sheet

IA-station of any conformance class for which a claim of conformance to this document is made shall:

a) provide YANG instance data of all YANG modules that are present in the local database in the form of an XML containing the instance data set according to IETF RFC 9195.

NOTE This includes all YANG modules required by this document, as well as all additional modules that have been added by the manufacturer.

b) support a file name format containing at least the date of creation, manufacturer name, and device identifier.

c) use the file extension DigitalDataSheet.

Problems:

- Date of creation, manufacturer name and device identifier … all are not unique, and also the format is not defined
- The extension ‘DigitalDataSheet’ is **very long**, and also the CamelCase-Style is unusual.
  It might lead to problems since operating systems are still not clear whether **filenames should be case sensitive or not**.

Proposed change

Change point b) c) and add d) as follows:

5.5.6 IA-station requirements for digital data sheet

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NOTE This includes all YANG modules required by this document, as well as all additional modules that have been added by the manufacturer.

b) support a file name starting with the **reverse domain name notation** to ensure global uniqueness (example: **org.ieee802.**xyz-date-deviceid.json)

NOTE Compared to other techniques to generate uniqueness, like GUID (self generated) or OUI (managed by the IEEE Registrations Authority), is better readable for humans.

c) use the file extension **json or xml, depending on the encoding format**

d) ensure the file name is unique among all other digital data sheets using the same domain name prefix.

Usecase

When planning networks, especially heterogeneous networks used by different protocols, the network planner might need to collect such data sheets from the vendors and use them in the planning tool.

The planner might be not aware (and able to use) the further packaging conventions from the involved industrial protocols.

Thank you for your attention

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