



# ***openETCS* Data Dictionary**

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- 1. What is a Data Dictionary in SSRS? A Definition**
- 2. Structure of the Data Dictionary**
- 3. Use Cases**
- 4. Roles and Processes**
- 5. Tools**

**V&V Styleguide (by Marc Behrens):**

**<https://github.com/openETCS/validation/wiki/Verification-Artifacts-Styleguide>**

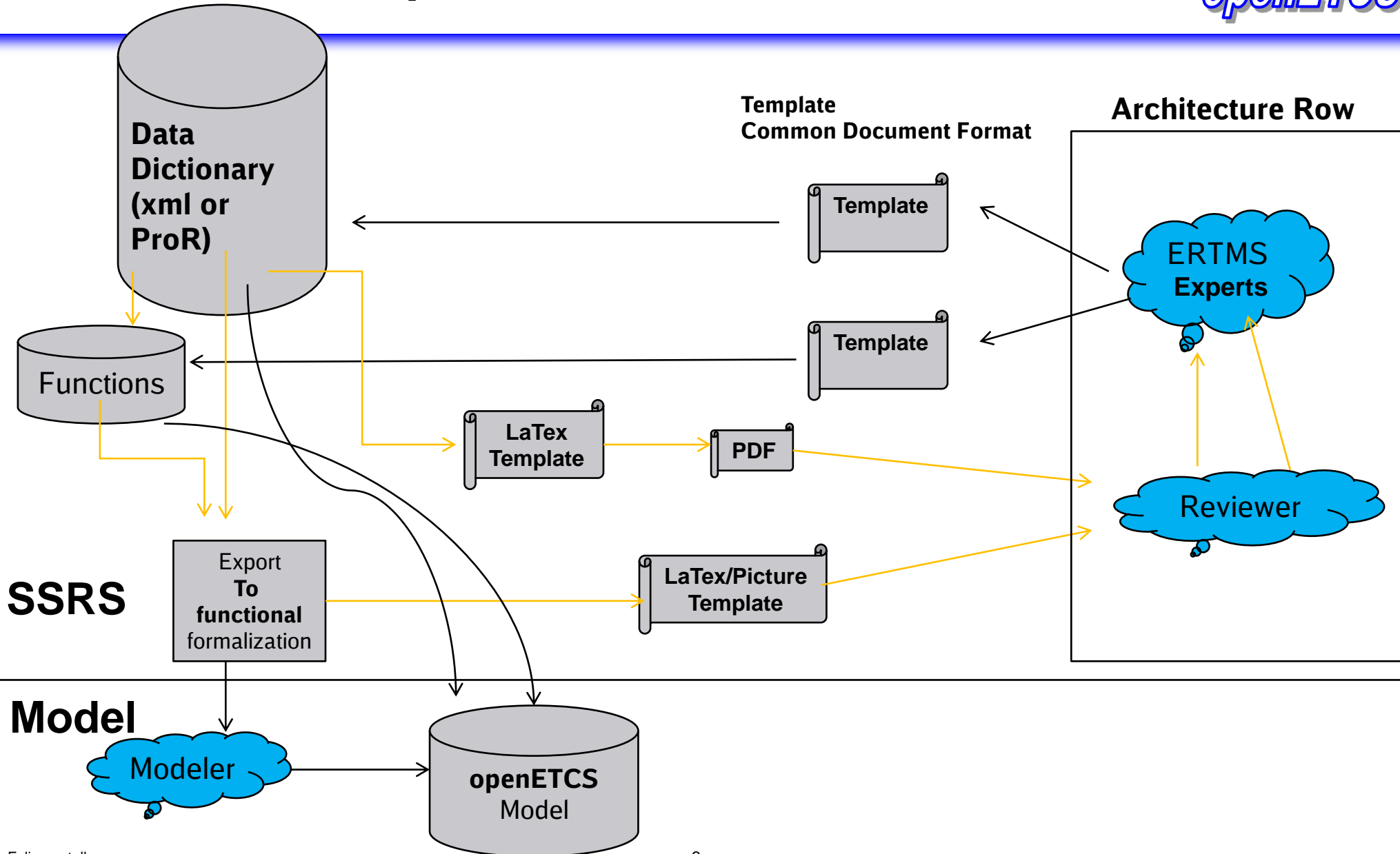
**[mailto: datadictionary@openetcs.org](mailto:datadictionary@openetcs.org) or [ddi@openetcs.org](mailto:ddi@openetcs.org)**

- **Based on Templates: to be defined**
- **Unique, Central, synchronized and well-known place for information related to interfaces**
- **Covers Messages, Data and Functions when they are used as interfaces in the architecture**
- **Well structured to represent SRS definitions**
- **As much formal as possible to avoid ambiguities**
- **Extended with „plain text“ for a good shared knowledge base**
- **In responsibility of a / some data wardens (experts for the interfaces)**
- **Data are collected with a template (push + open issue) and released after a short check (commit + close issue)**

- **Basis for the definition of interfaces and data**
- **Linked to data definitions in SysML**
- **Helps to avoid double definitions of data**
- **Can be exported to other tools and for other purposes, e.g., documentation and verification**
- **Single Files according to naming convention**
- **Repository: to be clarified, **Public****
- **Tools: to be clarified, option is ProR**

# ***Backup***

# Overview SSRS process



- **Data Dictionary Warden:** A single person or a defined group of persons (e.g., per domain) are responsible for the data dictionary.
- **Changes** get pushed to the Warden by developers.
- **Warden** checks duplicates, consistency and completeness.
- **After correction cycle** data is committed to the data dictionary.

- **Proposed format (Marc Behrens): .xml**
- **But:**
  - **Formal Parts a naturally home in the Modelling Tool: SysML?**
  - **Some are of textual structure: Requirements Management Tool?**
- **At least some transport function from data dictionary to modeling tools is mandatory**