

Report from IEC/SC 3D to MoU/MG on January 2023

G. Rossi / IEC/SC 3D secretary

IEC/SC 3D at a glance

15

P-Members

16

O-Members

20

Liaisons

9

Publications

2

*Publications as DB
Standard*

4

*Projects under
development*

4

Working Groups

2

Officers

Chair: Lan YAMASHITA

Secretary: Gernot ROSSI



3

UN SDGs supported



IEC/SC 3D: Actual projects and tasks

Projects

- Development of IEC 61360-1 ED5
- Development of IEC 61360-6 ED2 with a new title and extended scope
- Development of IEC 62656-1 ED2
- Maintenance of IEC 62720 (UNITS OF MEASUREMENT) in machine-readable form

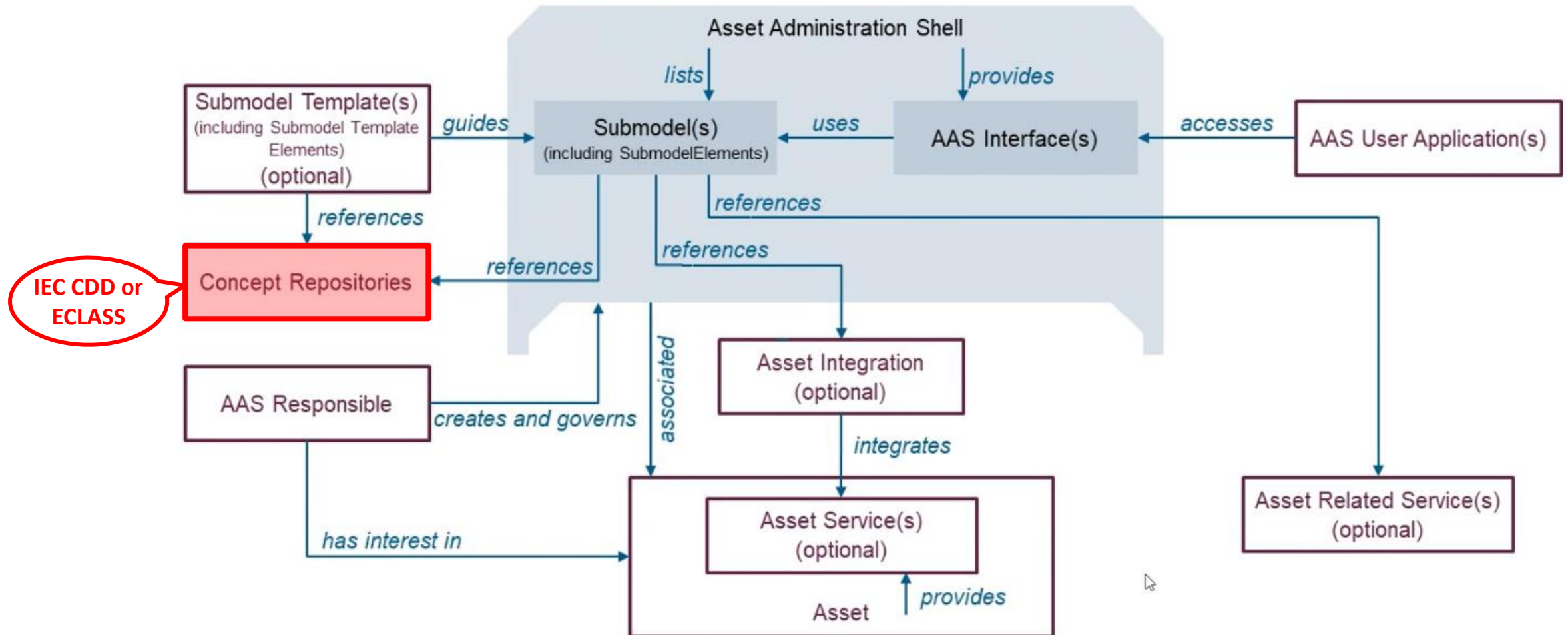
Tasks

- Maintaining the IEC CDD (<https://cdd.iec.ch>). IEC CDD (Common Data Dictionary) is an IEC 61360-4 DB standard and serves as an essential means for publishing product data dictionaries based on ISO and IEC (content) standards.
- IEC CDD is an essential means for supporting unambiguous information exchange (**semantic interoperability**) in Industry 4.0, Smart Manufacturing and other domains
- Driving the “**SDB content procedure**” (according to Annex SK) to publish standards in IEC CDD
- Supporting several IEC and ISO TCs/SCs developing classification standards for publication in IEC CDD
- Supporting IEC SMB SG12 on the recommendations for **digital standards** (e.g. SIM - Standard Information Model)
- Starting collaboration with **IEC/TC111 on properties for PCF/GHG** (recommendation from IEC SMB ahG94)
- Supporting the **COMDO project** with partners from ECLASS, IEC and ISO to host the IEC CDD at a 2nd location (at ECLASS CDP) and to closer collaborate with ECLASS (e.g. harmonization of classes and properties).

Asset Administration Shell (AAS) - IEC63278: The role of Concept Repositories



IEC CDD (and ECLASS) are the two CONCEPT REPOSITORIES referenced by Submodels / Submodel Templates



COMDO (Common Data Repository): The IDEA

To sufficiently support the market needs a single COMMON DATA REPOSITORY for INDUSTRY 4.0 and other domains is requested. The two “big players” in the market - ECLASS and IEC - can provide such a REPOSITORY.

Status: This REPOSITORY is developed in 2 phases. Phase 1 (hosting of IEC CDD at a 2nd location - at ECLASS CDP) is in progress.

