

Master's Thesis

CD Entwicklung (Datenarchitektur) und Datenmodellierung

The Common Data Environment is a central data platform that supports all the real estate management related processes from the phase of the inception of a building all the way through the whole lifecycle of it. It is a common data platform for all the participant applications, resources and actors in the real estate portfolio management for the whole BMW Group. A special focus is on the seamless data integration between the planning and the operation phase of the real estate management.

The CDE comprises of a set of integrated data storage modules that are providing data to the consumer applications in an organized and controlled manner. The structure of the CDE is given by its architecture and the Real Estate Data Model, this latter being the backbone of the communication between the different applications in the real estate IT landscape. A high level data model already exists in the Real Estate department, and it is already integrated in several business processes.

The scope of the project is to further develop the existing data model, to a higher level of detail and enrich it with new data objects. In the second part of the project the architecture of the CDE has to be established to support the different integration uses cases between the CDE and the satellite applications that are contributing with data or are consuming data from this central environment.

Advisors

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