IDERA® Collibra | Solution Brief

ER/STUDIO TEAM SERVER 19.1

COLLIBRA INTEGRATION

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OVERVIEW

This release continues our journey to connect the Data Architect with the Data Governance initiative to pool knowledge and maintain a united data ecosystem. In this release, we have provided a deep integration with Collibra to allow the exchange and pooling of knowledge between the two teams.

This integration seeks to allow:

- Business Terms to be automatically synchronized with Collibra's Glossary
- Logical and physical models to be uploaded to Collibra along with mappings to Business Terms

Furthermore

- Business Terms created in ER/Studio will be sent to Collibra where they will be elaborated and approved, or rejected. The ER/Studio Glossary will then be updated with additions, updates and deletions.
- Business Terms in Collibra will be synchronized to the Team Server repository with Collibra acting as the master.
- Business Terms in ER/Studio can then be used to classify logical and physical modeling artifacts within Team Server and Data Architect.

The unified model has three regions:

The Business Glossary that

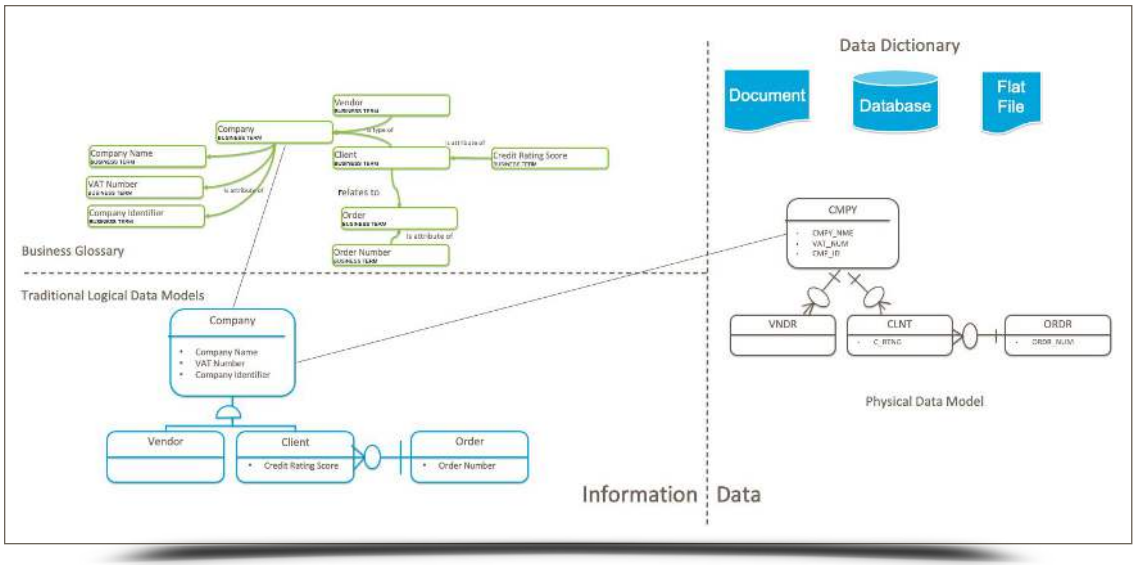
- Data Stewards uses to define the information of the organization and the rules associated with it for the purpose of data governance.

The Logical Data Models that

- Data Architects uses to define the information of the organization and the rules associated with it for the purpose of designing data assets

The Physical Data Models that

- Data Stewards use to understand the contents of data assets and map to Business terms
- Data Architects use for the detailed design of data assets



Our goal is to connect these three models and unite the teams of data stewards and architects.

With v19-0 of ER/Studio we did a lot of work with our Business Glossary to extend the simple Business Glossary into a more powerful ontology. We provided better tools within our Data Architect tool for users to access Business Glossaries to be able to map terms to data models. We also added tools to harvest terms and ontological relationships to kick start the creation of quality business glossaries.

The Business Glossary of ER/Studio Team Server v19-0 has the following goals:

To bring the ER/Studio Business Glossary up to industry standards such that it will:

- Satisfy the needs of modelling the information of large organizations
- Provide the ability to model an ontology with taxonomies
- Allow exchange of Business Terms with other modelling tools

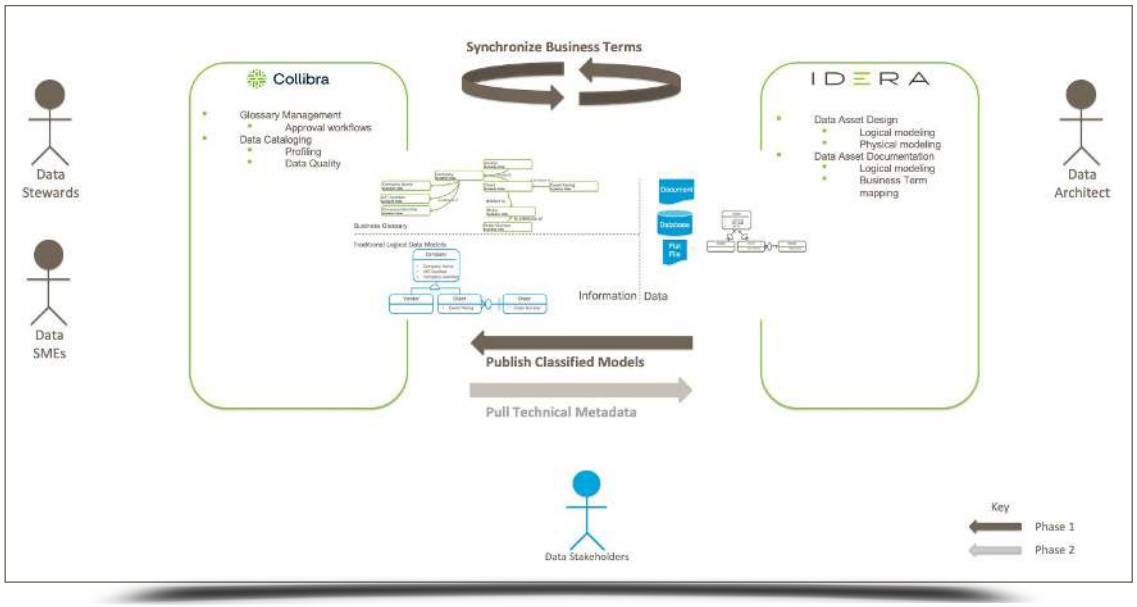
To maximise the value of Business Glossaries by:

- Allowing analysis through attractive visualization
- Allowing users of Data Architect to map business terms to ER objects
- Providing a new wizard to bulk harvest business terms from valuable logical models

THE INTEGRATION

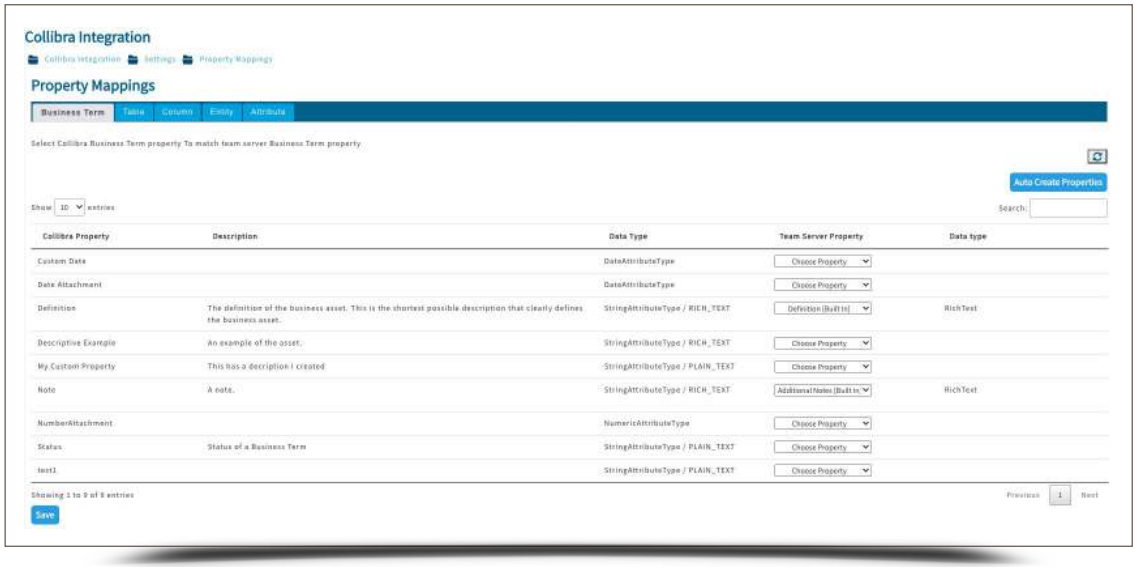
The integration has two main parts:

- Synchronize Business Terms
- Publish Classified Models



SYNCHRONIZE BUSINESS TERMS

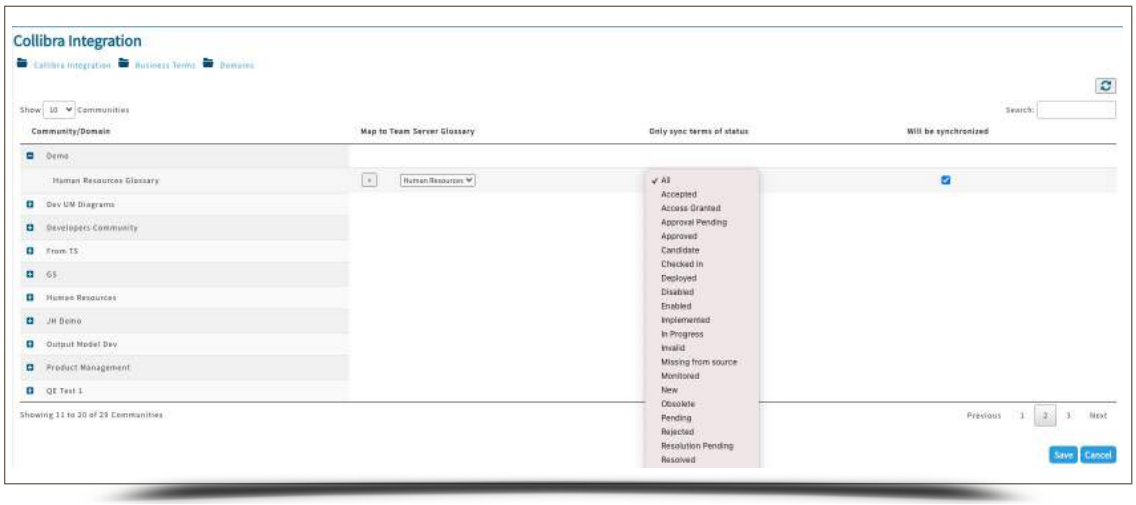
The admin user can configure which properties of Business Terms in Collibra map to which properties in Team Server through a simple user interface.



Likewise relationship types can be mapped.

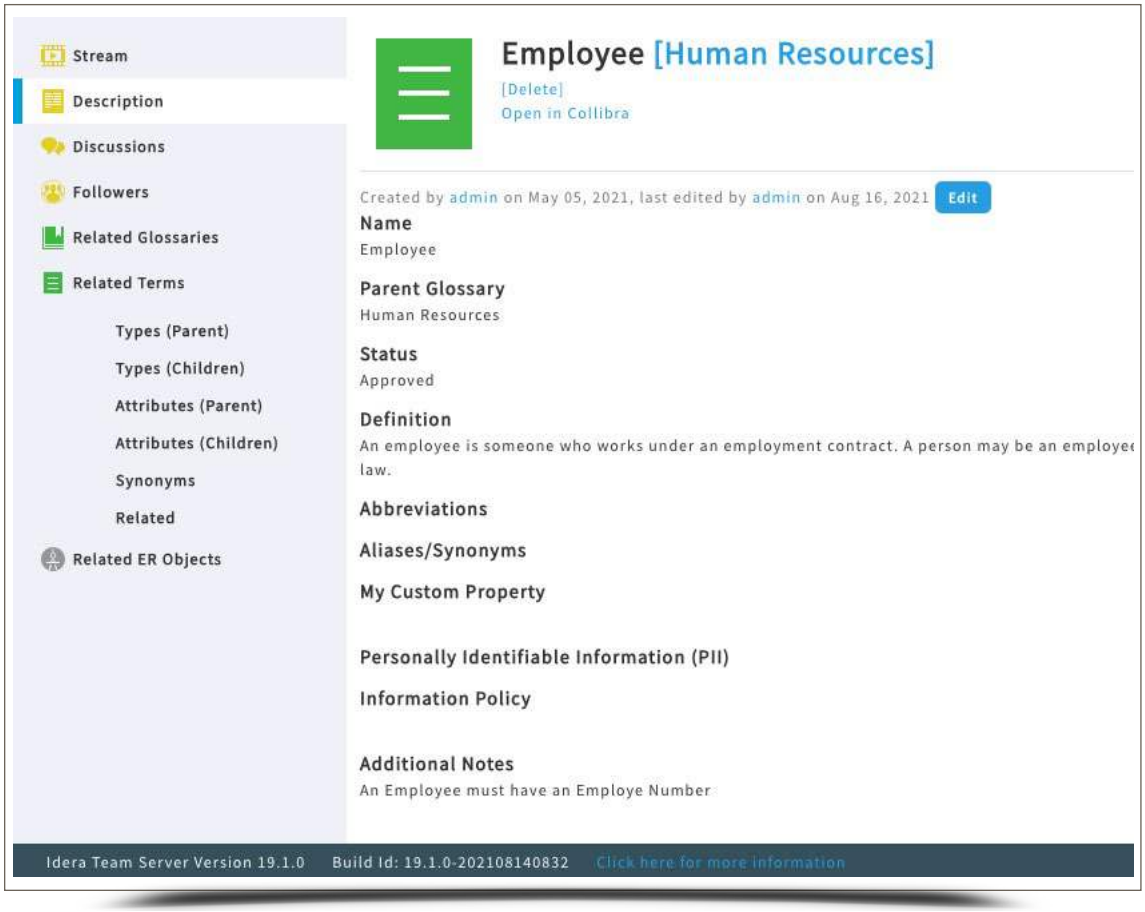


Various settings such as whether Terms created in Team Server will be sent to Collibra and which is the Master for properties and relationships. The sync frequency is also set. The Collibra admin user can then select which Domains in Collibra map to which Glossary objects in Team Server and which status of terms in Collibra should be brought across to Team Server.

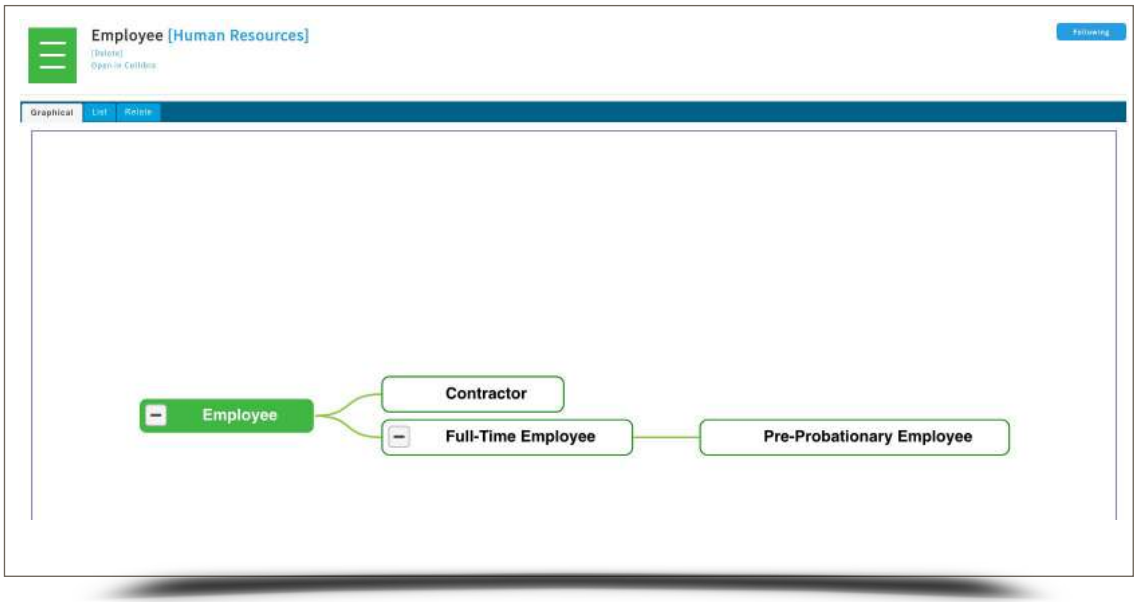


Once the synchronization schedule is started the two tools will keep the Business Glossaries updated on both sides. As new terms are created in Team Server they will appear in Collibra as candidate terms. If you allow Team Server to make changes to Terms the changes will appear in Collibra and set the Terms status back to Under Review to allow the Collibra workflows to track and approve the changes.

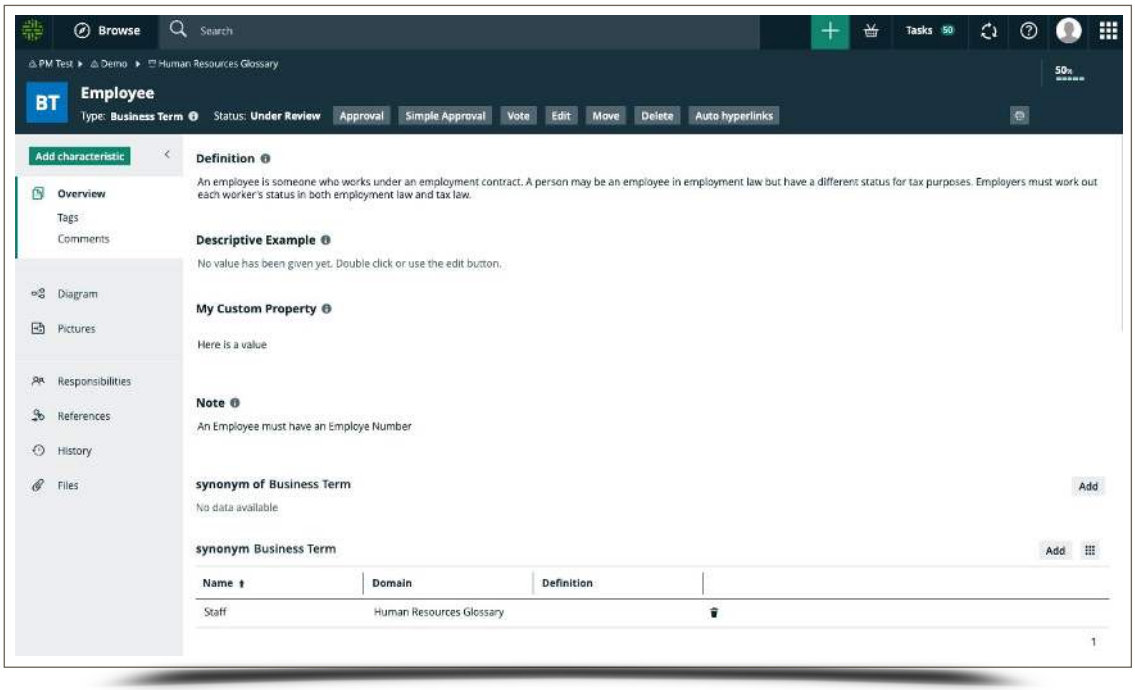
Terms in Collibra will have links back to Team Server and vice versa.



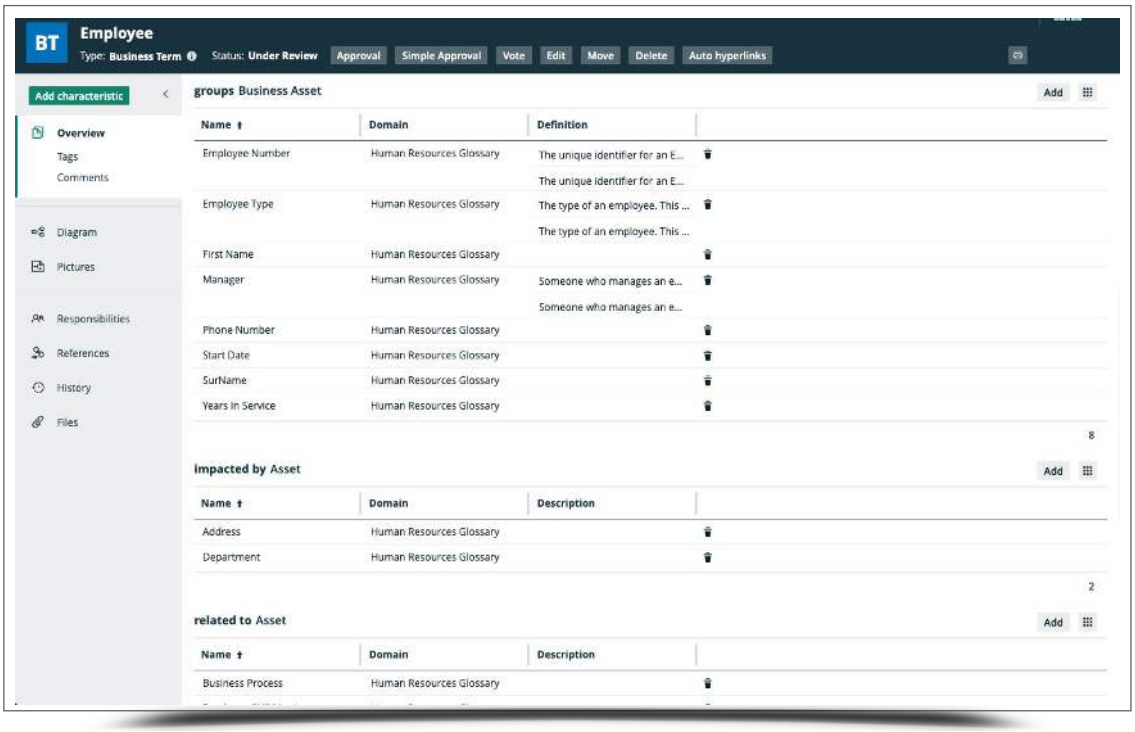
Along with any relationships



Appears in Collibra



And the relationships



PUBLISH CLASSIFIED MODELS

Again the Collibra admin user can choose which properties are mapped and which logical data models map to which Domains of type “Logical Data Dictionary”, and which physical data models map to which Domains of type “Physical Data Dictionary” in Collibra.

The user can choose whether to synchronize manually, or upon each publish to Team Server operation, which may be automatic upon each user check in.

Any mappings to Business Terms will be published with the models.

It is worth noting the naming conventions used. Within a Domain, Collibra objects are uniquely identified by the Full Name property only. We construct a unique full name by incorporating the hierarchy. As follows:

Logical

Attributes will be given a “Full Name” of : Entity_Name > Attribute_Name

Physical

If Tables have a schema then they will be named as follows:
Tables will be given a “Full Name” of : Schema > Table
Columns will be given a “Full Name” of : Schema > Table > Column

If Tables do not have a schema then they will be named as follows:
Tables will be given a “Full Name” of : Table
Columns will be given a “Full Name” of : Table > Column

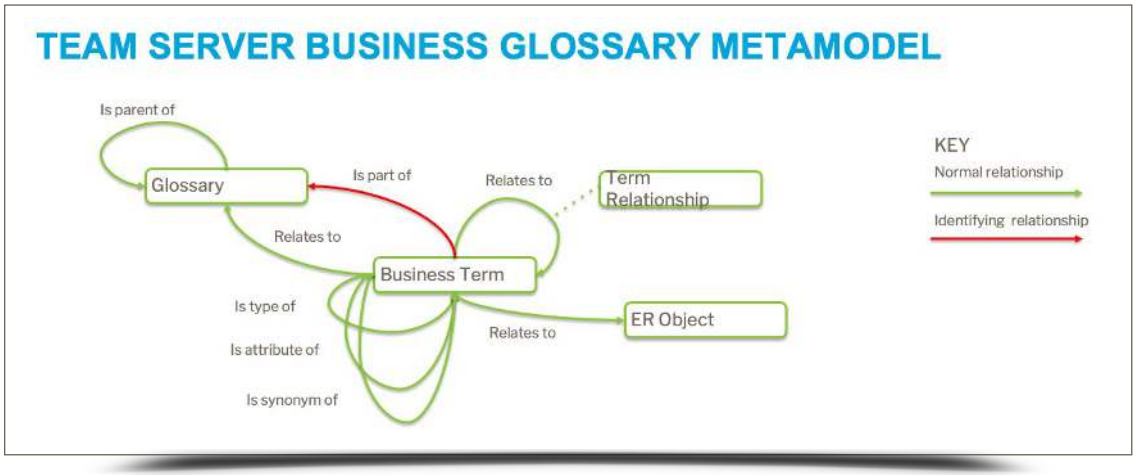
Note, the schema described above will be the textual contents of the Schema (owner) property of a Table.

“The user can choose whether to synchronize manually, or upon each publish to Team Server operation, which may be automatic upon each user check in.”

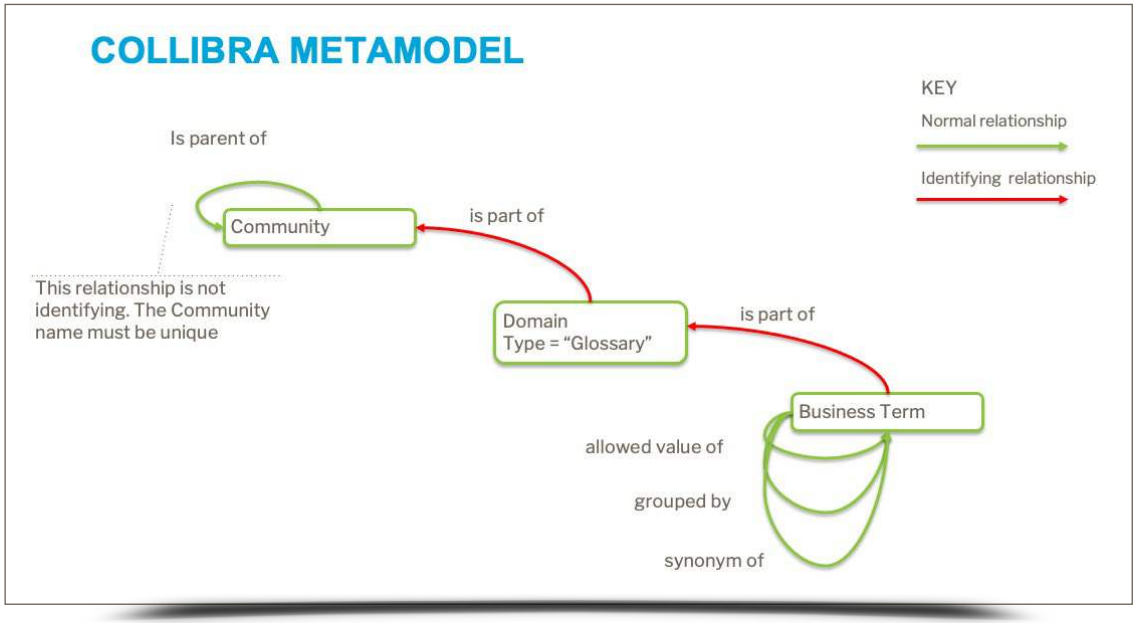
HOW THE METAMODELS OF TEAM SERVER AND COLLIBRA MAP

BUSINESS GLOSSARY

The Team Server metamodel in v19-0 for Business terms is as follows:

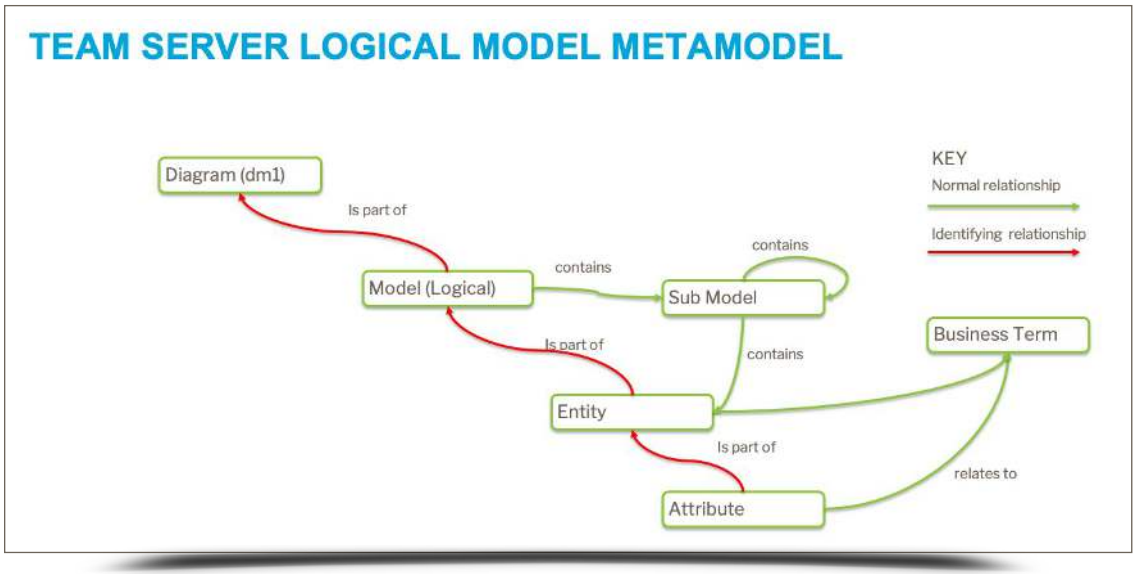


The Collibra Metamodel is as follows:

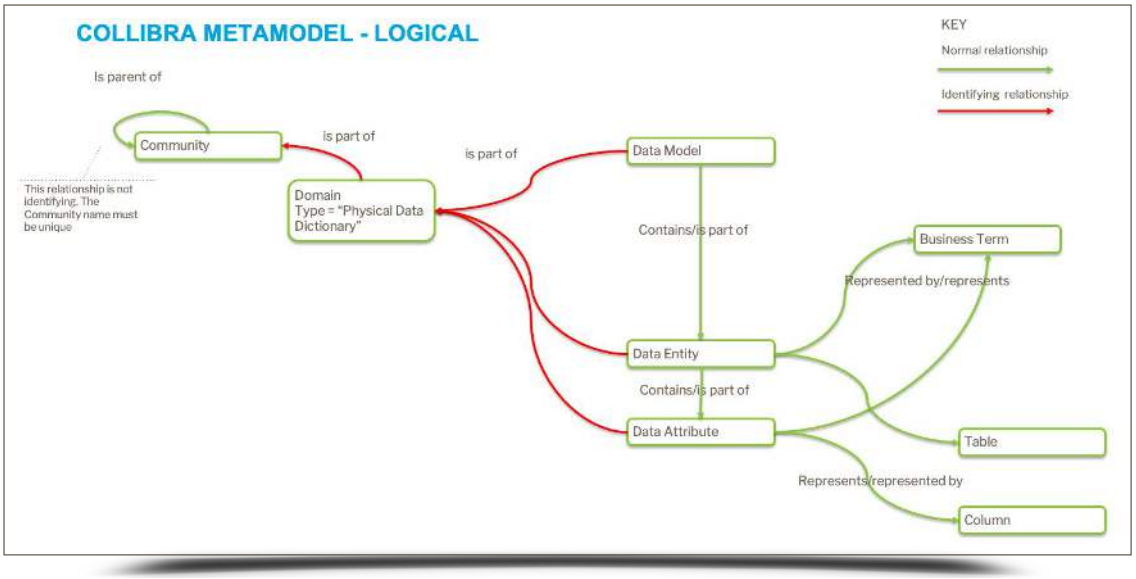


LOGICAL DATA MODELS

In ER/Studio the metamodel for logical models is as follows



With the Collibra metmodel like this

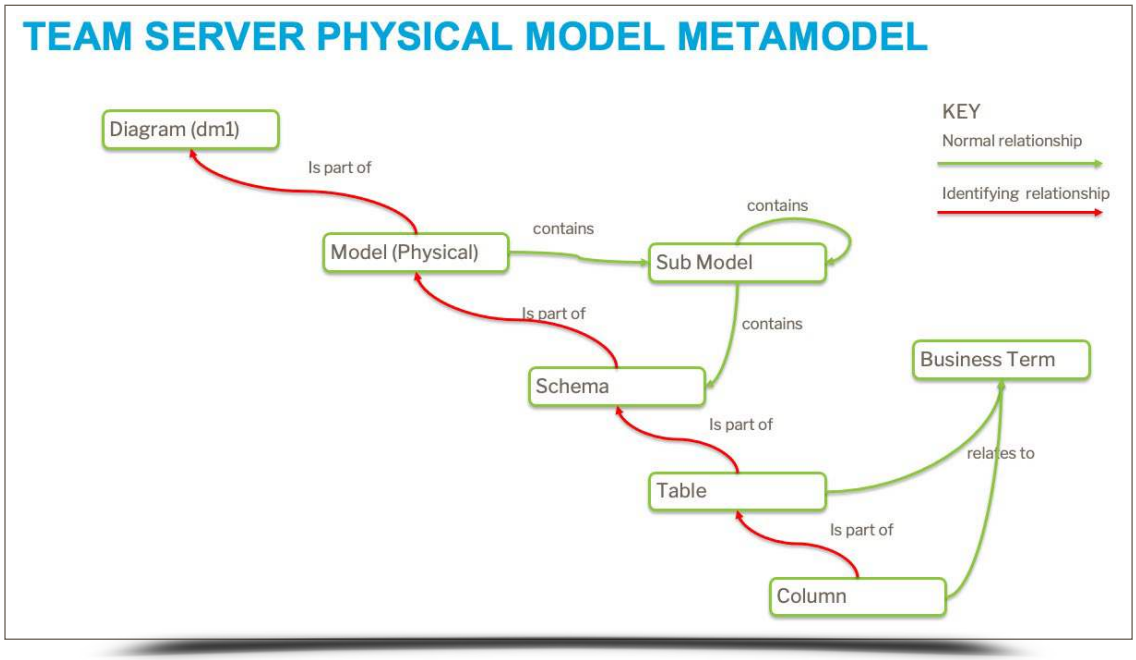


With the following mappings between them:

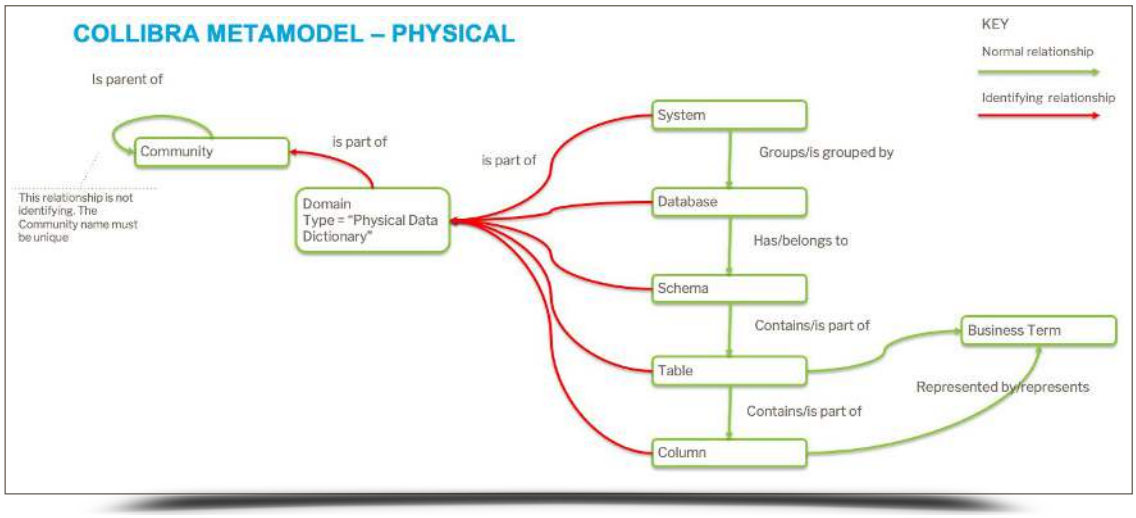
Collibra Object Type	ER/Studio Object Type
Domain [Logical Data Dictionary]	Diagram Name (dm1)
Data Model	Model
Data Entity	Entity
Data Attribute	Attribute

PHYSICAL DATA MODELS

In ER/Studio the metamodel for physical models is as follows:



With the Collibra metmodel like this



With the following mappings between them:

Collibra Object Type	ER/Studio Object Type
Domain [Physical Data Dictionary]	Model (in a Diagram)
System	No mappings
Database	No mappings
Schema	Schema Object
Table	Table
Column	Column

