

Module 21 Data Addition

IBM InfoSphere Master Data Management Fundamentals



Unit objectives

After completing this unit, you should be able to:

- Create a new MDM Data Addition
- Create a new MDM Code Table
- Customize code generated by the workbench

Adding a new Data Entity

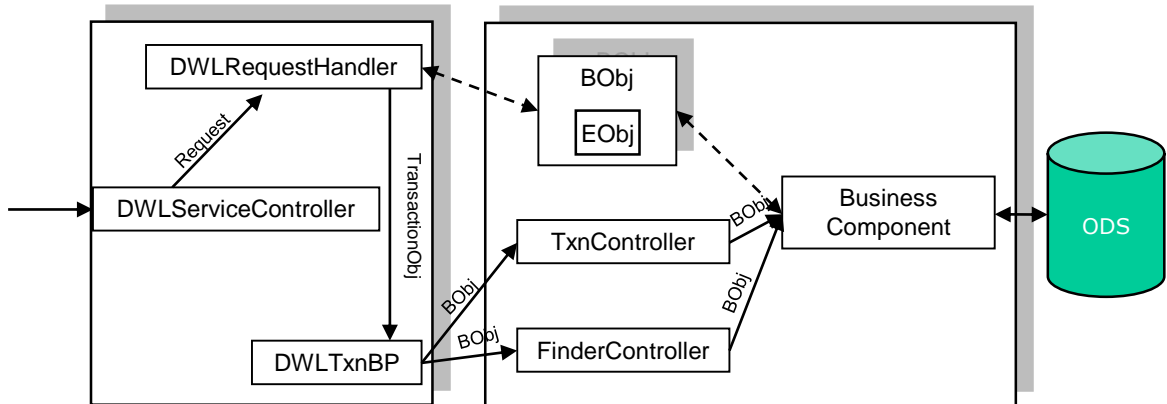
What if we want to store our customers Pet information in InfoSphere MDM Physical implementation?

A Pet Entity does not exist in Physical MDM out of the box!

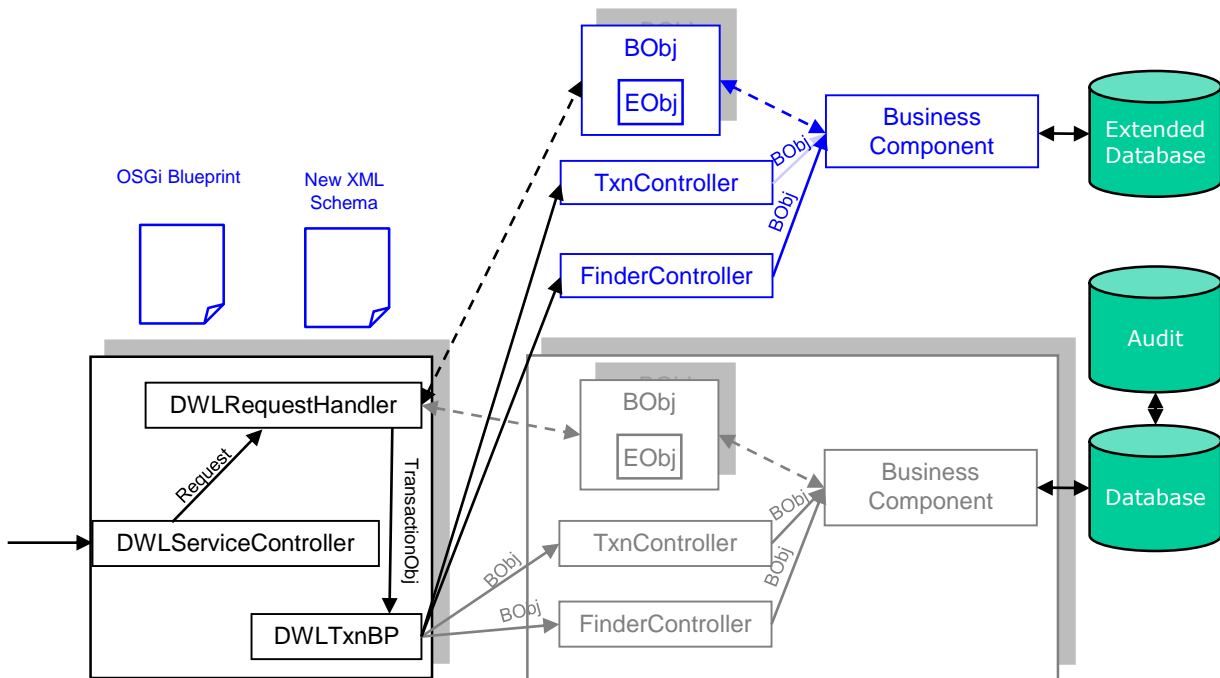
Data Additions allow you to expand the InfoSphere MDM Physical module by creating new Entities. The entities can have relationships to existing InfoSphere MDM Entities (The Pet would be connected to the Party) and would have their own services (addPet, updatePet, getPet).

Additions architecture: Fill In

What would we need to add to the architecture to add an Entity *Pet* along with the services: addPet, updatePet, getPet?



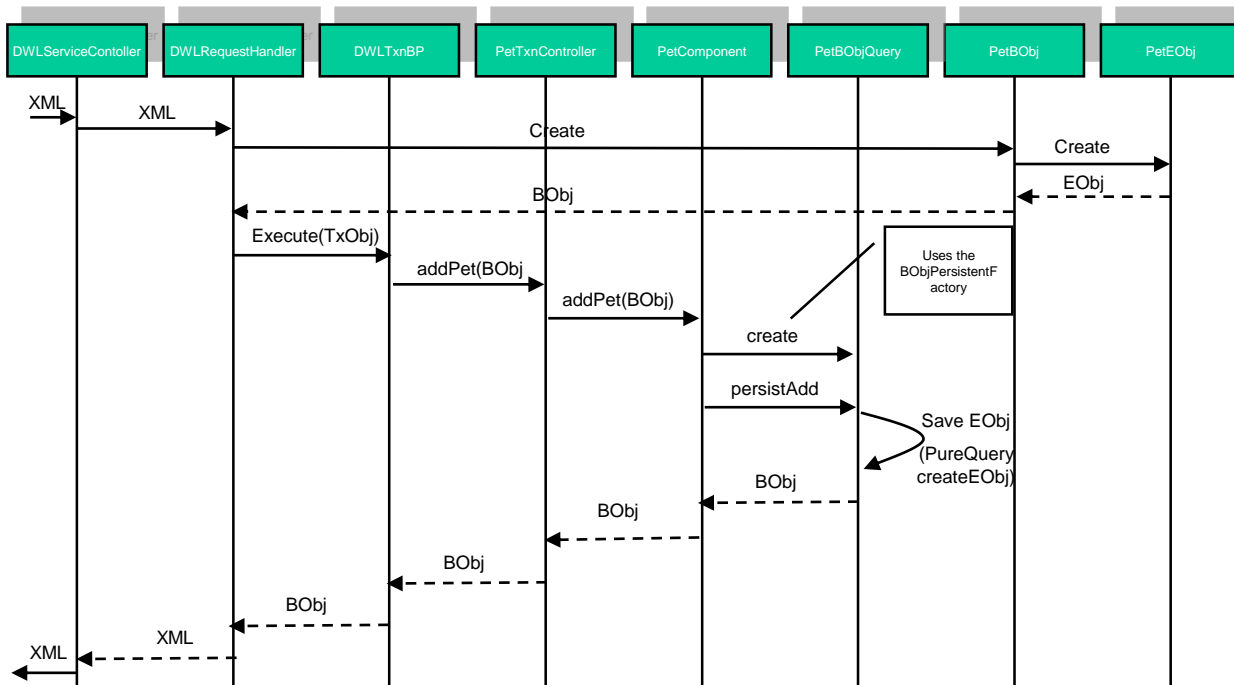
Additions architecture



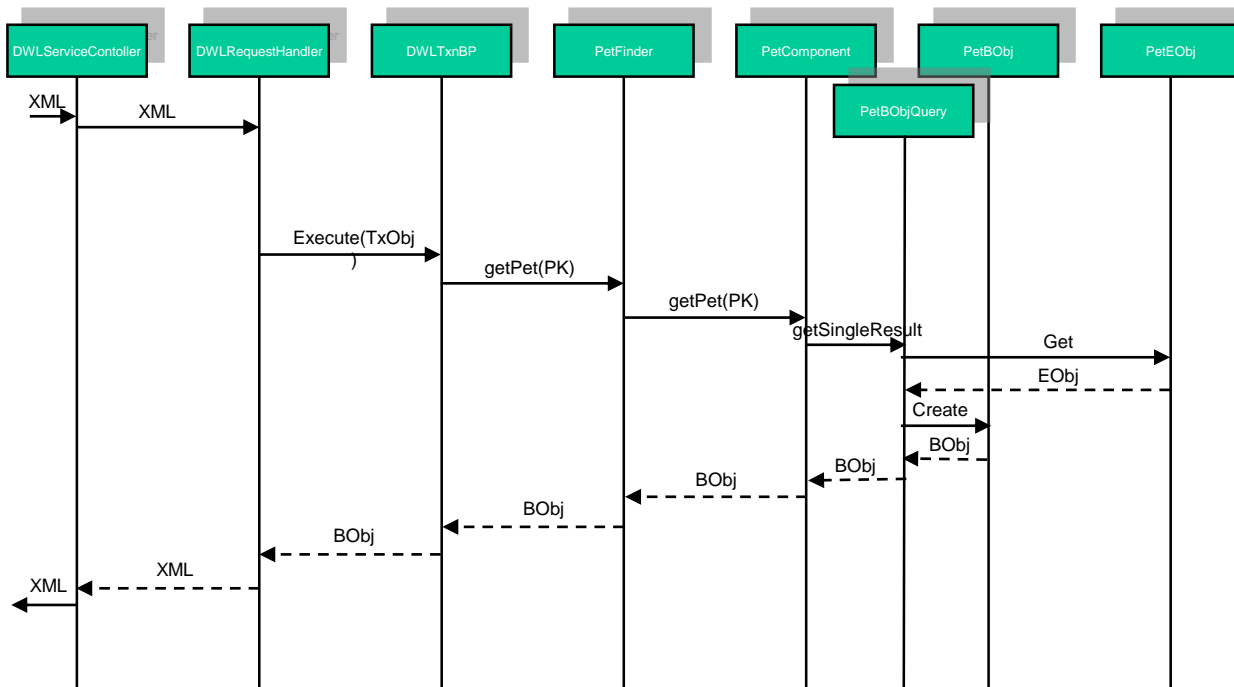
Blueprint for Data Addition

- XSDFinderService – provides service for MDM to consolidate XSD
- BObjQueryFactory – provides ref for non-persistent access to DB
- BObjPersistenceFactory – provides ref for persistence access to DB
- BObjFactoryService – access for Parser to create PetBObj
- ComponentFactoryService – access to Pet Business Component
- Controller.PetProjectTxn – handles persistent txn
- Controller.PetProject – handles non-persistent txn

The AddPet Sequence



The GetPet Sequence

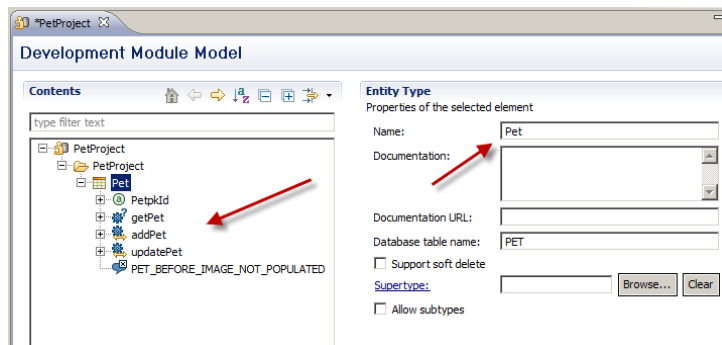
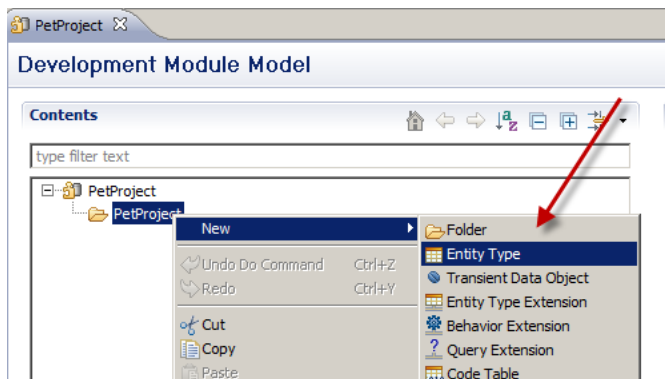


Exercise overview

Over the next couple of slides, we will take a high-level look at building an addition and then give you hands-on practice with the Additions exercise.

Entity Addition

- Define a new type of data object (Entity)
- Defines a new DB table with a default primary key field (Attribute)
- Also defines default get, add and update transactions plus basic error reason codes.



Exercise introduction

- In this exercise, you will:
 - Create a new Pet Entity
 - Create a new Animal Code Table
 - Link the Pet Entity to the Party
 - Link the Pet Entity to the Animal Code Table
 - Add, update, get a Pet

Custom Code

```
/**
 * Performs the business logic for transaction handleRenewPolicy.
 *
 * @generated
 */
public DWLResponse handleRenewPolicy(TCRMContractComponentBObj theBObj)
    throws Exception {

    // MDM_TODO Add required business logic to complete the transaction
    return response;
}
```



```
/**
 * Performs the business logic for transaction handleRenewPolicy.
 *
 * @generated NOT
 */
public DWLResponse handleRenewPolicy(TCRMContractComponentBObj theBObj)
    throws Exception {
    if( status.getStatus() == DWLStatus.SUCCESS ) {
        setPolicyDatesForThisYear( policyId , status );
    }
    return response ;
}
```

Unit summary

Having completed this unit, you should be able to:

- Create a new MDM Data Addition
- Create a new MDM Code Table
- Customize code generated by the workbench