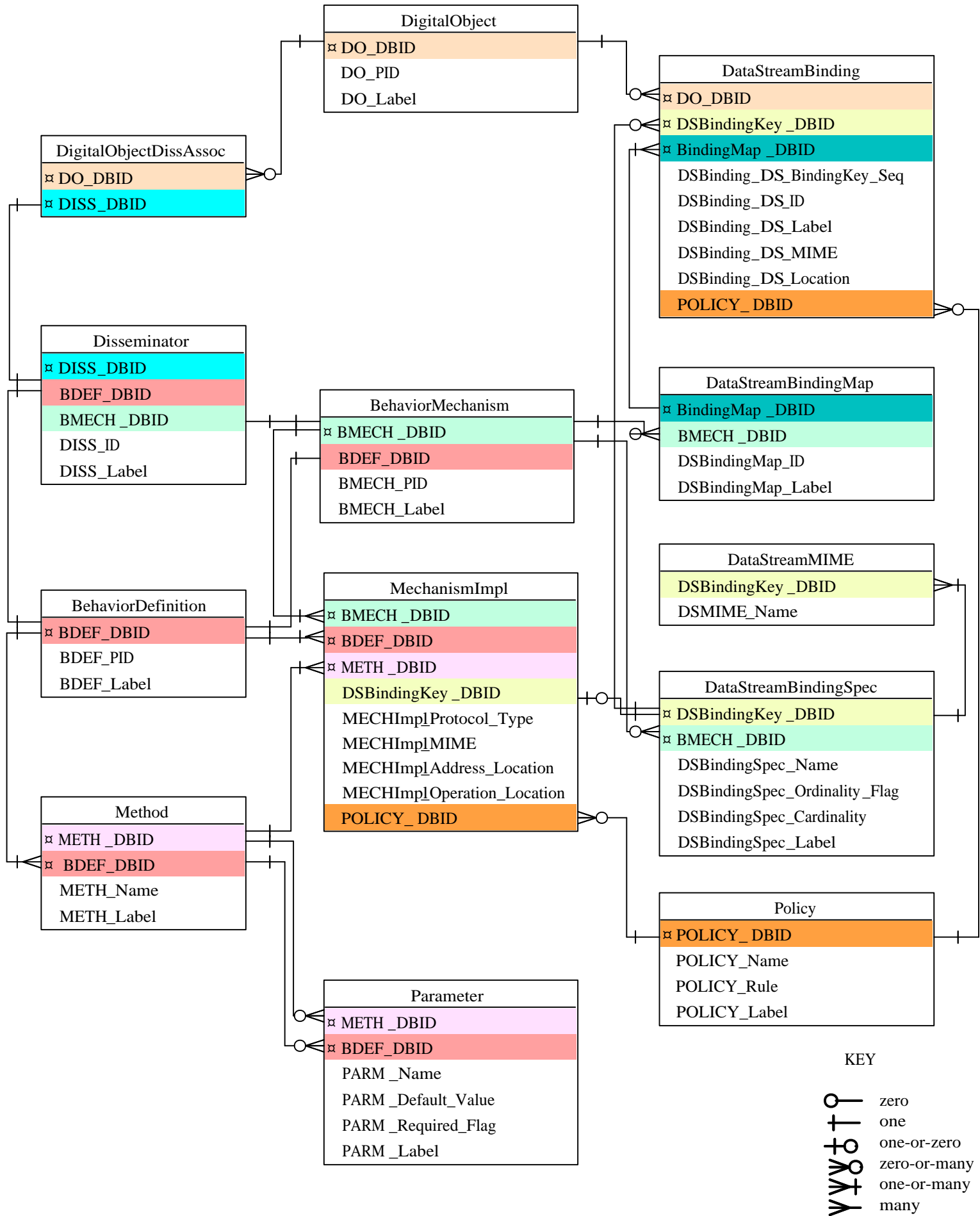


FEDORA Relational Database Schema



Notable Relationships:

1. A digital object has ZERO, ONE, or MANY Disseminators
2. A digital object has ONE or MANY StructureMaps (just like in METS)
2. A StructureMap conforms to ONE StructureMapType (e.g., the UVA_Image structure type)
3. A StructureMapType provides a namespace that defines ONE or MANY DSBindingKeys
4. A BehaviorMechanism supports ONE StructureMapType (deals with data of a particular structural form)
5. MANY different BehaviorMechanisms can be written to support a particular StructureMapType
6. A BehaviorMechanism implements ONE BehaviorDefinition
7. A MechanismImplementation can execute ONE or MANY methods defined by a BehaviorDefinition
8. A MechanismImplementation associates a method with data labeled by a distinct DSBindingKey
9. A Disseminator specifies a particular BehaviorDefinition and BehaviorMechanism combination.
10. A MechanismImplementation is related to a digital object via common DSBinidngKeys that exist both in the BehaviorMechanism and the digital object StructMap. The Servlet can have ONE or MANY common DSBindingKeys (scoped within a StructMapType) with a digital object.

The running of Disseminations can be achieved by:

1. Hit digital object table with DO_DBID (resolved by DO_PID from dissemination request)
2. Get Disseminators for DO_DBID
3. Get appropriate Disseminator with BDEF_DBID (BDEF_PID from dissemination request)
4. Get BehaviorMechanism with BMECH_DBID from Disseminator
5. Get BehaviorDefinition with BDEF_DBID
6. Get METHOD_DBID in Method table (via BehaviorDefinition) using Method_Name (Method_Name from dissemination request)
7. Get method implementation record in MechanismImpl with METHOD_DBID
8. Get DSBindingKey_DBID from method implementation record of MechanismImpl
9. Get one or more Datastream Locations from DigitalObjectBindingMap with DSBindingKey_DBID from method implementation record

At this point, the database will have provided all the information necessary for repository software to process a dissemination request.