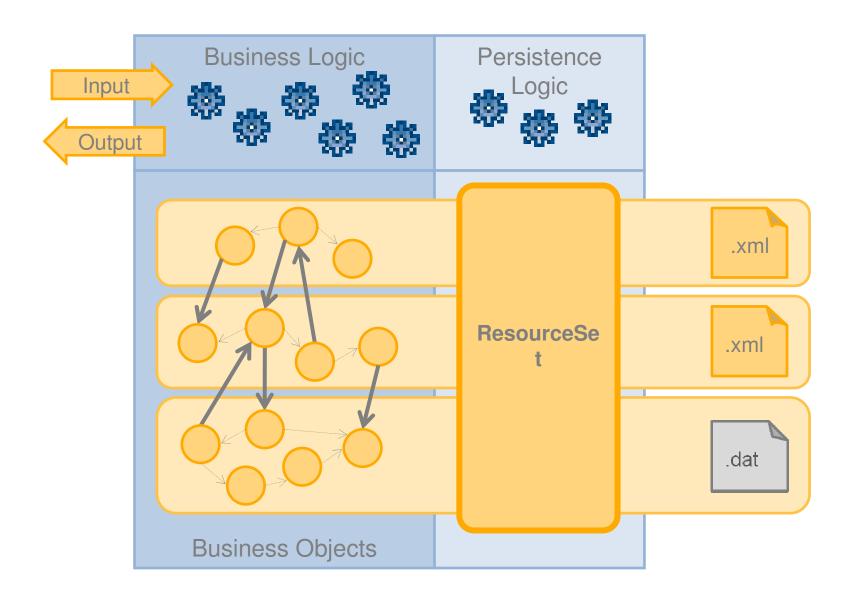


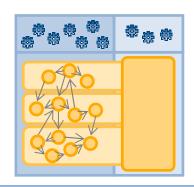


# Modeling on an Enterprise Scale

Eclipse Modeling Day Wednesday, November 18, 2009 IBM Lab, Markham, ON



```
3.5
        ResourceSet rs = new ResourceSetImpl();
36
        rs.getResourceFactoryRegistry().getExtensionToFactoryMap()
37
            .put("xml", new XMLResourceFactoryImpl());
38
        rs.getPackageRegistry().put(MODEL.getNsURI(), MODEL);
39
40
        URI uri = URI.createFileURI("C:/business/company.xml");
41
        Resource resource = rs.qetResource(uri, true);
42
        resource.setTrackingModification(true);
43
44
        Company company = (Company) resource.getContents().get(0);
45
        executeBusinessLogic(company);
46
47
        if (resource.isModified())
48
49
          resource.save(null);
50
51
```



### **CDO Model Repository Framework**

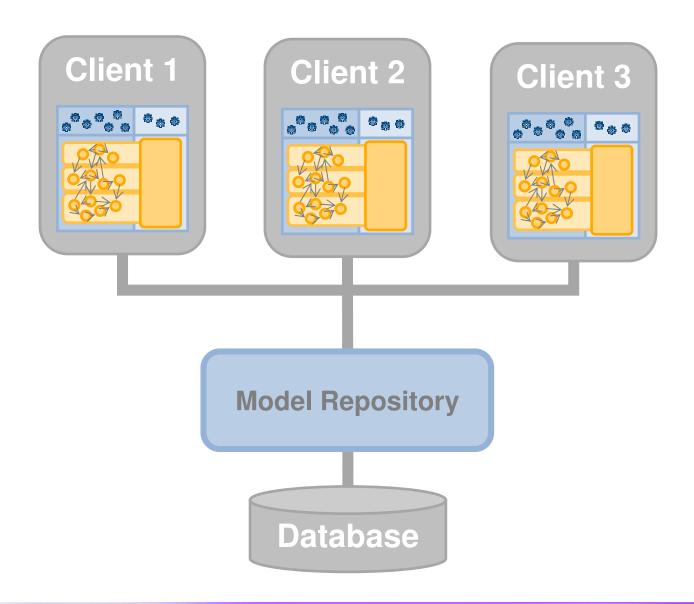
Queries

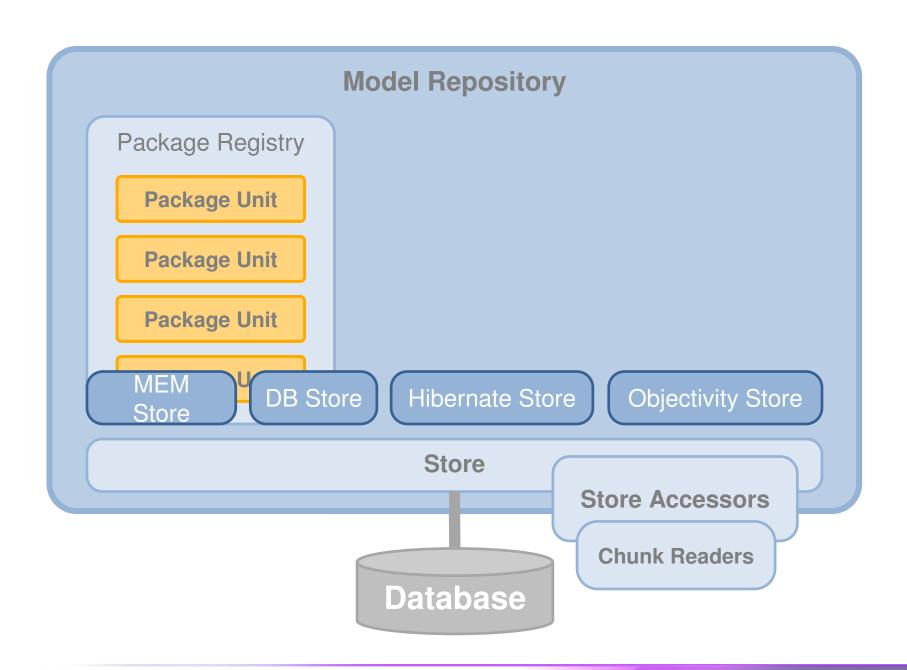
Persistence

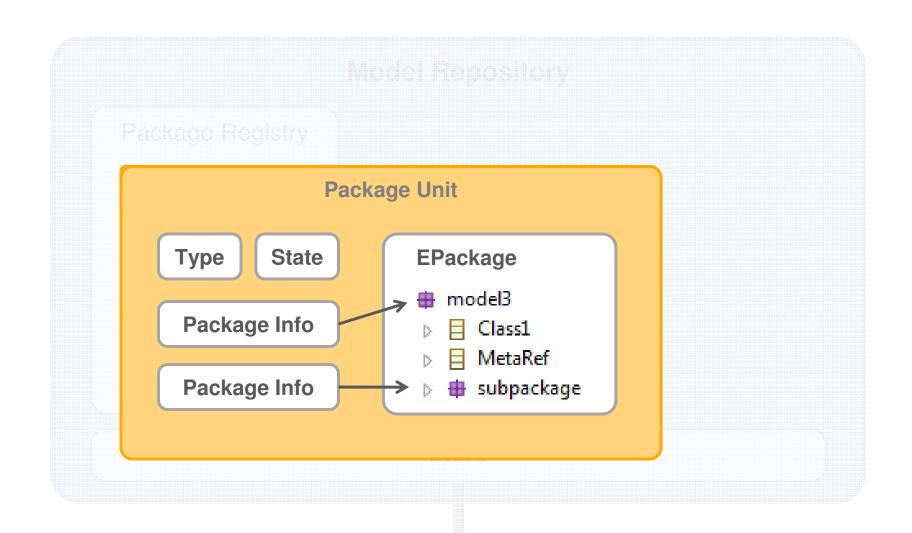
Versioning

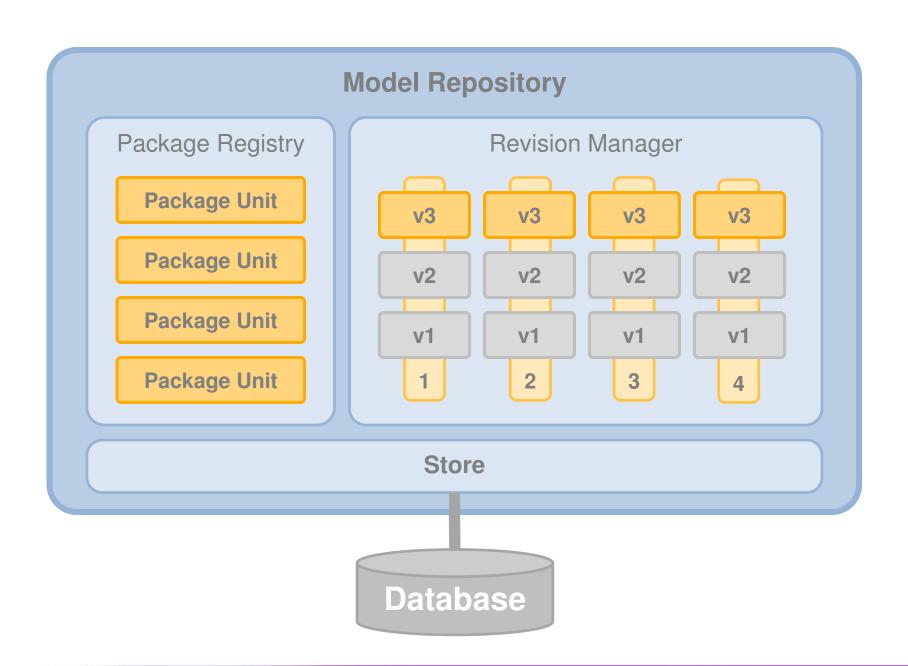
nsactions

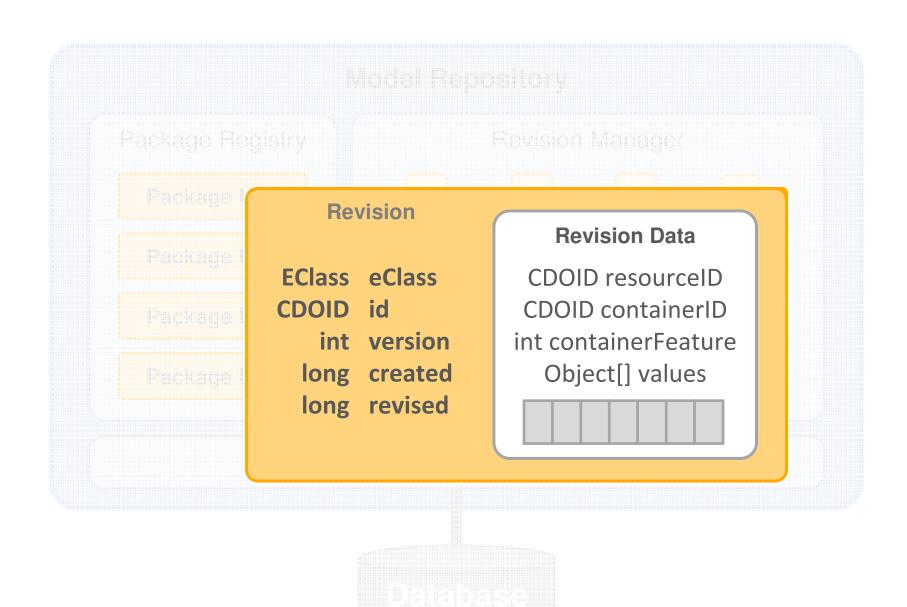
Scalab

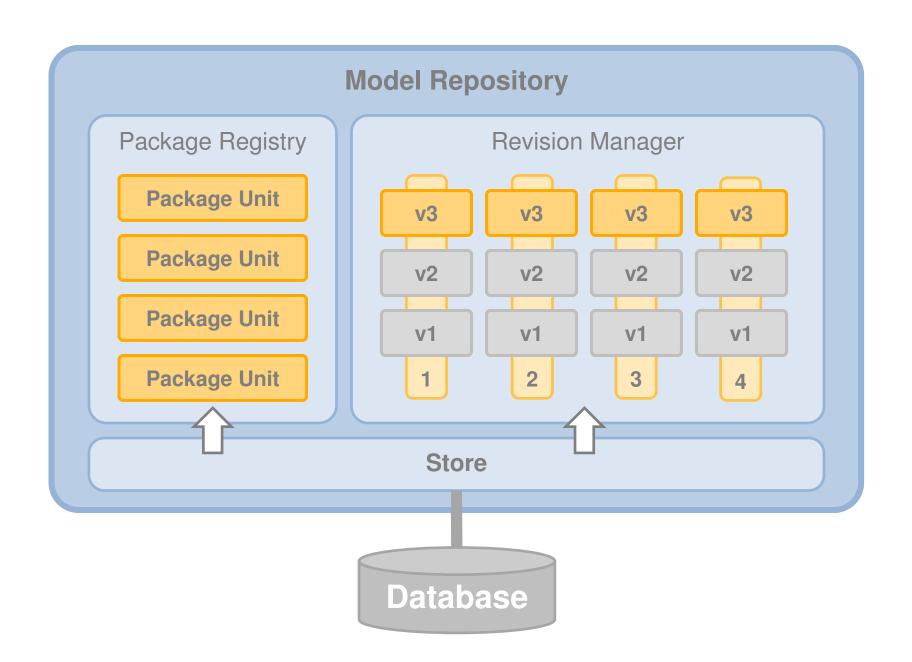


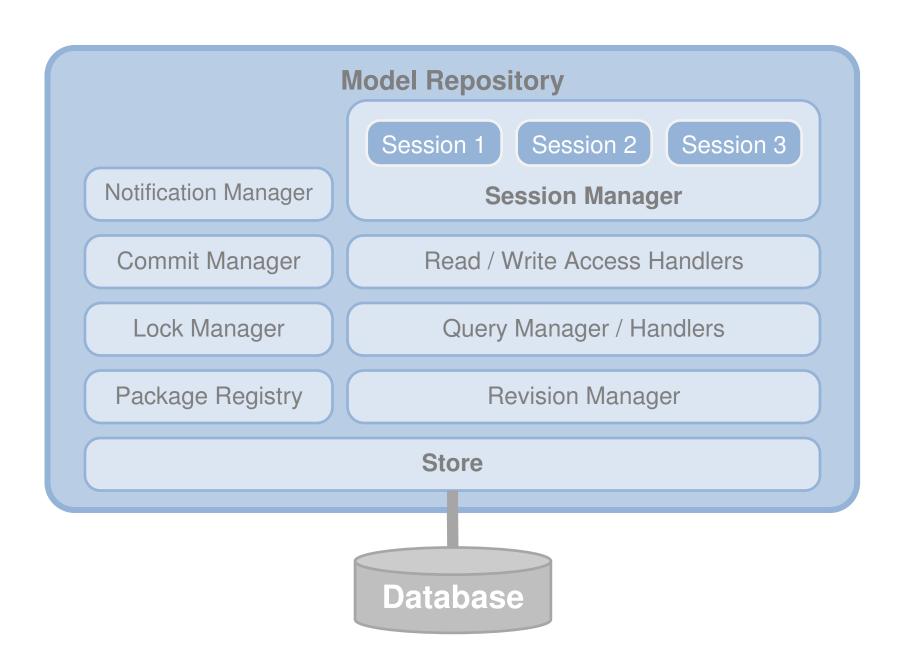








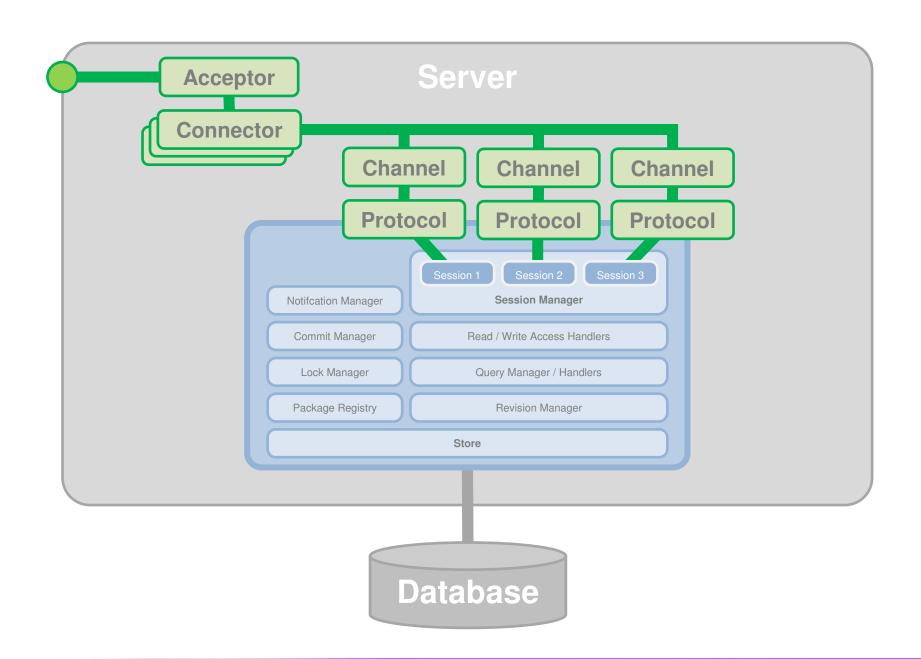


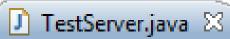


# ☑ TestServer.java ☒

Model Repository

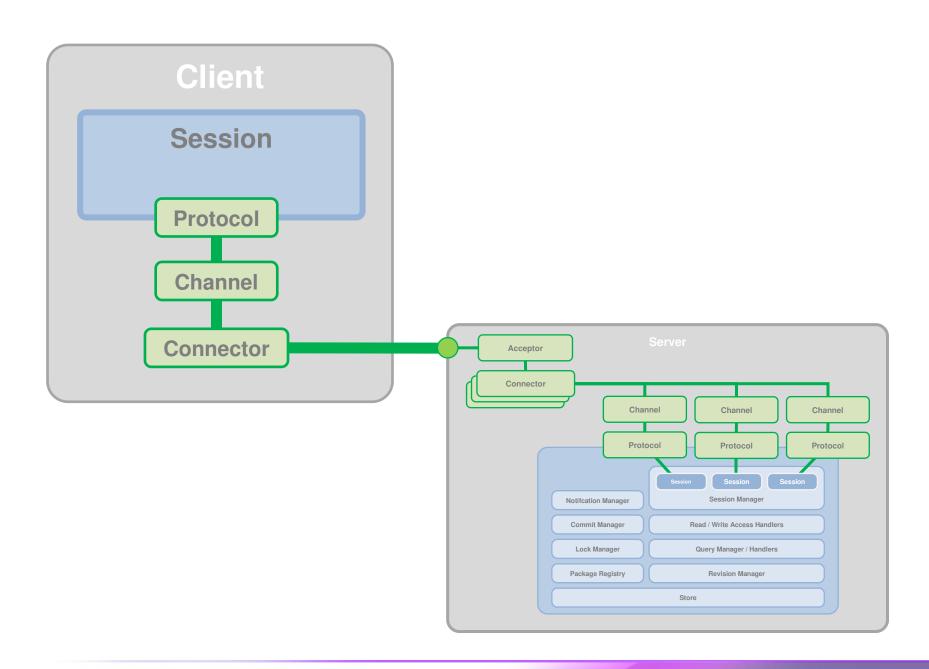
```
IMappingStrategy mappingStrategy = CDODBUtil.createHorizontalMappingStrategy();
IDBAdapter dbAdapter = new EmbeddedDerbyAdapter();
EmbeddedDataSource dataSource = new EmbeddedDataSource();
dataSource.setUser("sa");
dataSource.setDatabaseName("cdo");
dataSource.setCreateDatabase("create");
IDBConnectionProvider dbConnectionProvider = DBUtil.createConnectionProvider(dataSource);
IStore store = CDODBUtil.createStore(mappingStrategy, dbAdapter, dbConnectionProvider);
Map<String, String> props = new HashMap<String, String>();
props.put(IRepository.Props.CURRENT_LRU_CAPACITY, "100000");
IRepository repository = CDOServerUtil.createRepository(REPOSITORY NAME, store, props);
```





```
IManagedContainer container = ContainerUtil.createContainer();
Net4jUtil.prepareContainer(container);
TCPUtil.prepareContainer(container);
CDOServerUtil.prepareContainer(container);
CDOServerUtil.addRepository(container, repository);
IAcceptor acceptor = (IAcceptor)container.getElement("org.eclipse.net4j.acceptors", "tcp", null);
System.out.println("Press any key to shutdown");
while (System.in.read() == -1)
 Thread.sleep(200);
container.deactivate();
```

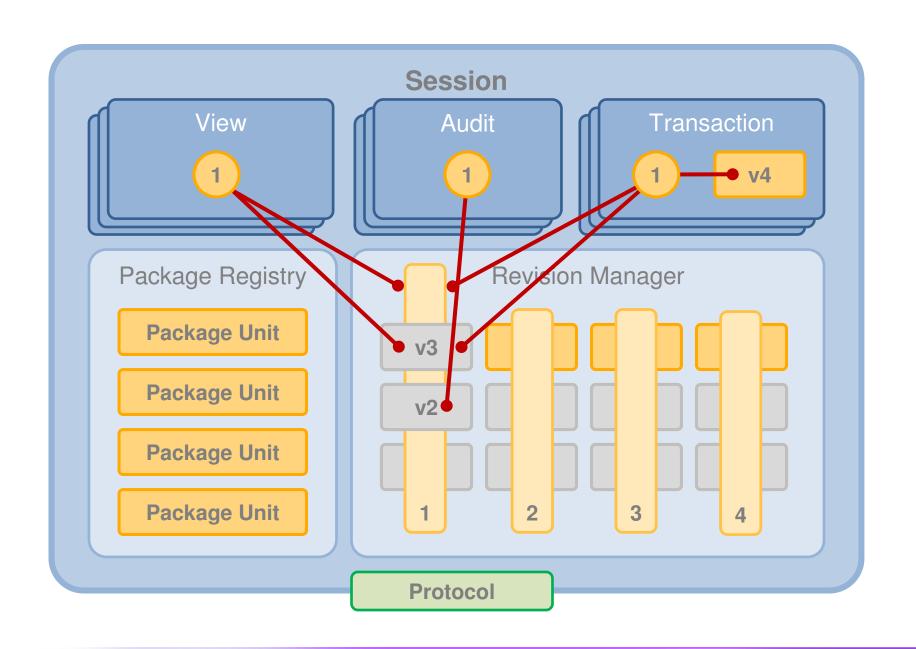
```
🔀 cdo-server.xml 🔀
 <?xml version="1.0" encoding="UTF-8"?>
 <cdoServer>
   <repository name="repo1">
      cproperty name="currentLRUCapacity" value="100000"/>
      <store type="db">
        <mappingStrategy type="horizontal"/>
        <jdbcDelegate type="preparedStatement"/>
        <dbAdapter name="derby-embedded"/>
        <dataSource class="org.apache.derby.jdbc.EmbeddedDataSource"</pre>
          databaseName="/temp/cdodb1" createDatabase="create"/>
      </store>
   </repository>
   <acceptor type="tcp" listenAddr="0.0.0.0" port="2036"/>
 </cdoServer>
```

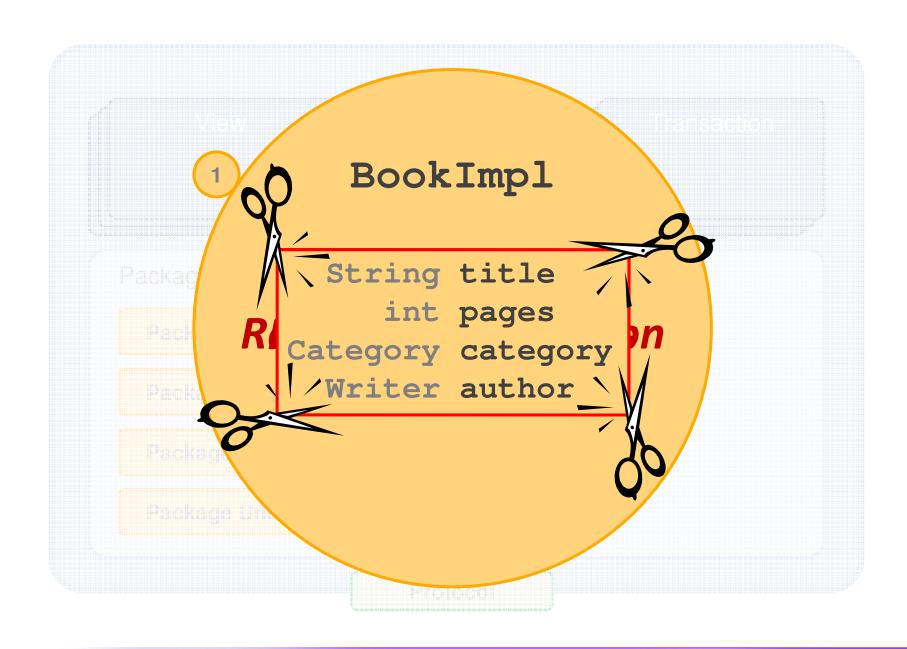


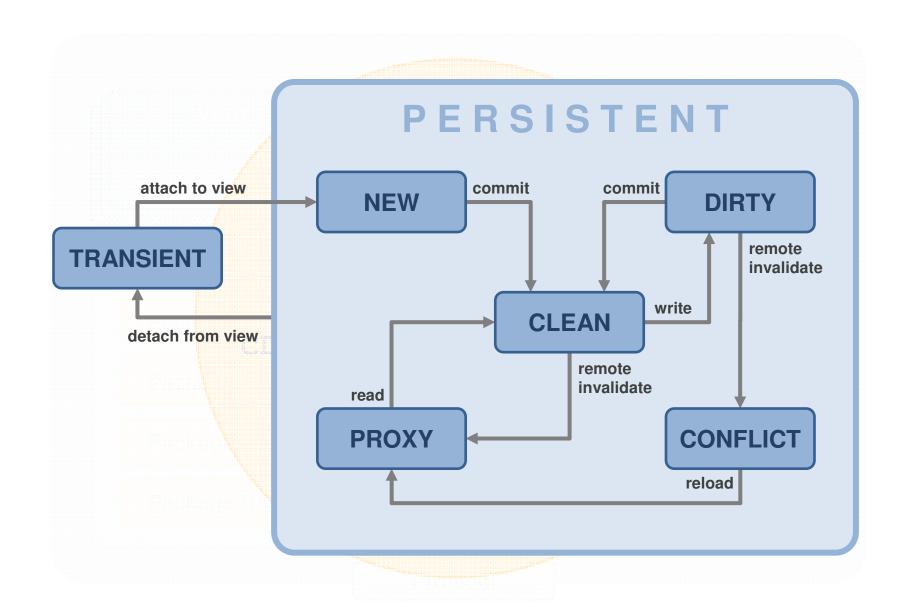


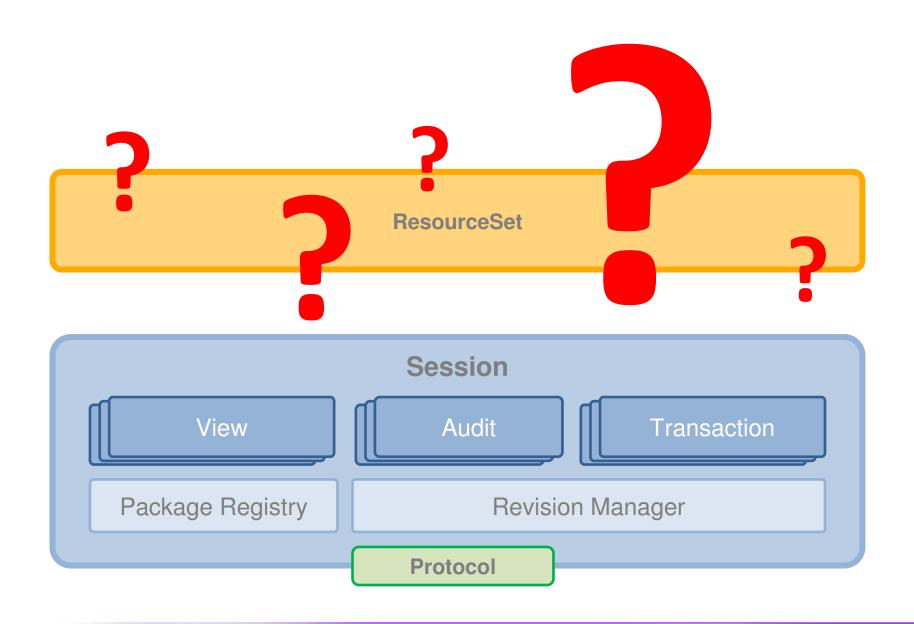
# 🌶 TestClient.java 🔀

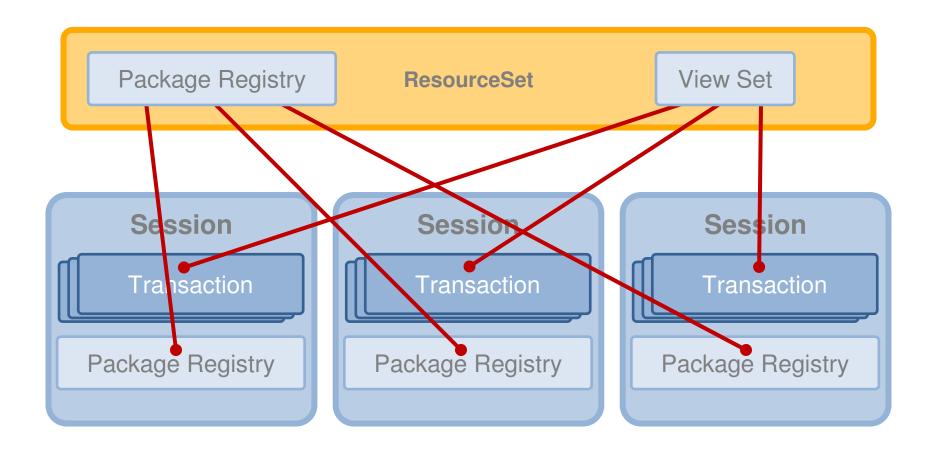
```
IManagedContainer container = ContainerUtil.createContainer();
Net4jUtil.prepareContainer(container);
TCPUtil.prepareContainer(container);
IConnector connector = TCPUtil.getConnector(container, "localhost:2036");
CDOSessionConfiguration configuration = CDONet4jUtil.createSessionConfiguration();
configuration.setConnector(connector);
configuration.setRepositoryName("repo1");
CDOSession session = configuration.openSession();
```

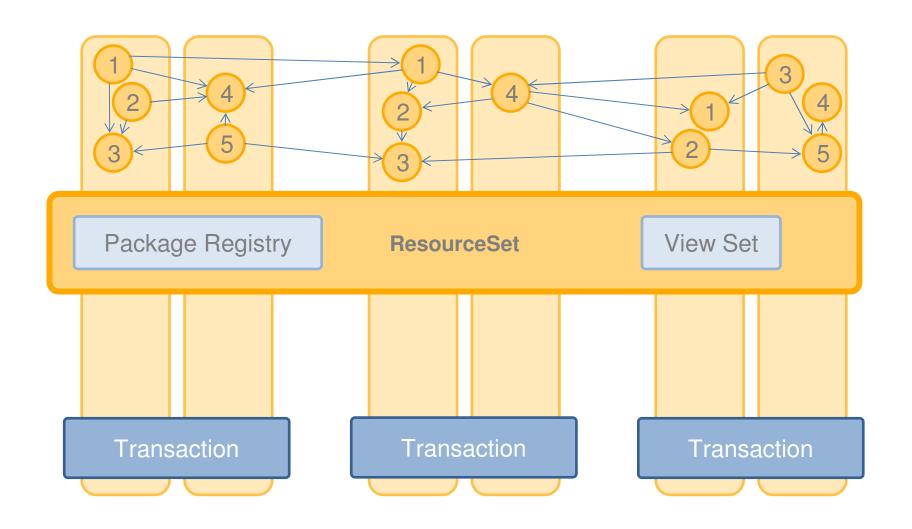


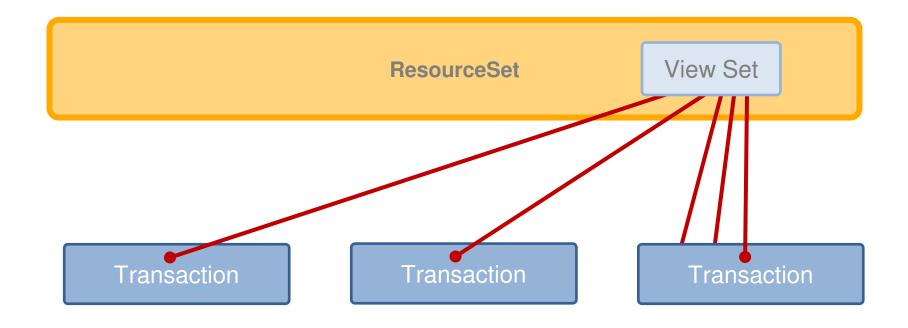


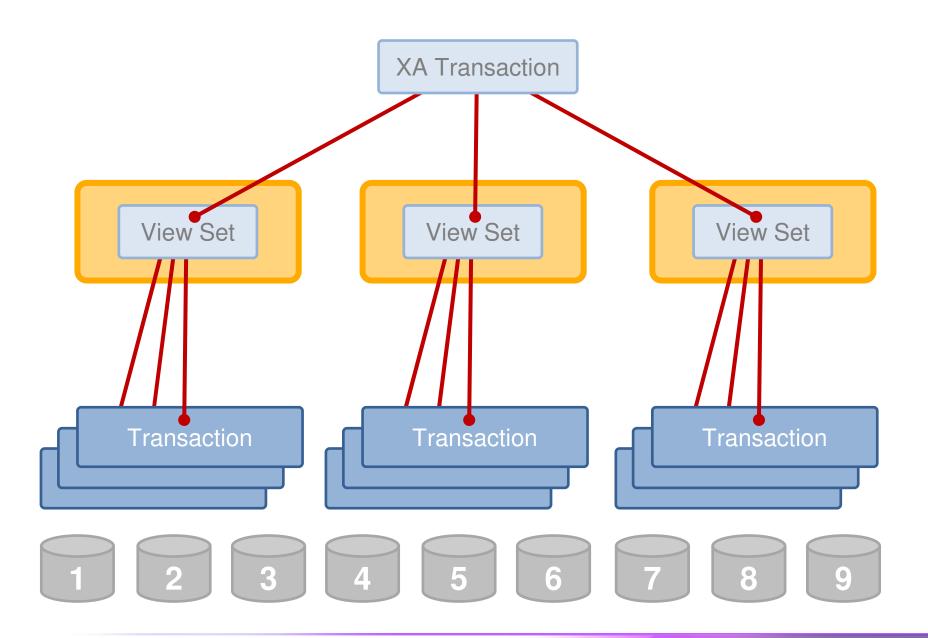












# THE END

Attend the **Eclipse Demo Camp** tonight and enjoy a more complete demonstration of CDO:

The **eDine** example is a fully modeled set of RCP applications that are distributed throughout the tables and stations of a restaurant.

# Vision of a Coherent Tooling Landscape

## **Integrated through a Model Repository**

