Hibernate 4 : A First Look

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Overview

- Services
- New metamodell
- Consolidated Session creation options
- Multi-tenancy support
- Packaging changes
- Getting Started Instantly: 5 minute evaluation attention span (hello world tutorials, examples, etc)
- Keyed/i18n logging
Services

- Consumable, extendable and overridable set of services
- Lifecycle
- Dependencies
- Stable

```java
ServiceSetup serviceSetup = new ServiceSetup()
    .addInitiator( new MyCustomServiceInitiator() )
    .addService( new MySpecialConnectionProviderService() );
ServiceRegistry serviceRegistry = serviceSetup.buildServiceRegistry();
```
Metamodel

- Change in semantics
  - All "sources" known up front
  - Information such as Dialect known up front
- Better encapsulation of models and binding
- More directed API
- Still in development, proposed API:

```java
MetadataSources metadataSources = new MetadataSources( serviceRegistry )
  .addResource( "some.hbm.xml" )
  .addAnnotatedClass( SomeEntity.class );
Metadata metadata = metadataSources.buildMetadata();
// use/alter metadata if needed
SessionFactory sessionFactory = metadata.buildSessionFactory();
```
Session Creation

- Previous API was cluttered
- Builder style
  - available from SessionFactory
    
    ```java
    sessionFactory.withOptions()
      .interceptor( someInterceptor )
      ...
      .openSession();
    ```
  - available from Session
    
    ```java
    session.sessionWithOptions()
      .interceptor() // use same interceptor as session
      ...
      .openSession();
    ```
Multi-tenancy

- Subject of a previous webinar, http://community.jboss.org/docs/DOC-16502
- Different data sets, same application deployment
- Support for separate schema implemented
- Support for separate database implemented
- Support for discrimination planned
Logging

- Yes, YALF
- Keyed
- i18n
- http://community.jboss.org/docs/DOC-16738
Package Changes

- Preparation for OSGi support
- Self-documenting
Additional Information

- http://community.jboss.org/wiki/Hibernate4Webinar
- http://community.jboss.org/wiki/HibernateCoreMigrationGuide40
- https://lists.jboss.org/mailman/listinfo/hibernate-dev
- http://www.hibernate.org/community/irc