




Hibernate Tools

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Agenda

- **Goals**
- **Functionality**
 - Core architecture
 - Ant task's
 - Eclipse Demo
 - Customizable Reverse Engineering
- **Future/Road map**



Goals

- Support the Developer
- Be versatile and support all phases of persistence development
 - "Round-robin"
- Support both Hibernate 3 and EJB3/JPA
- Be usable in any environment



"The Swiss Army Knife" for Hibernate




© Victorinox

Compact, usable & lethal

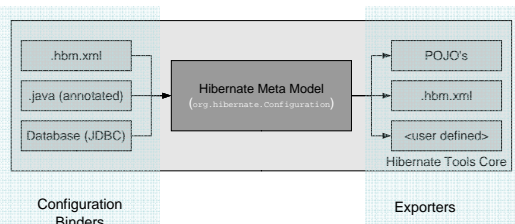



Features

- Reverse Engineering
- Code generation
- Query prototyping/validation
- Mapping Visualization
- Integration with Ant, Eclipse, NetBeans...
- ...



Hibernate Tools Core

Hibernate Tools for Ant

- **One Ant Task, One thing to configure**
 - <hibernate-tool>
- **Multiple Exporters**
 - <hbm2java>
 - <hbm2ddl>
 - <hbm2dao>
 - <hbm2seam>
 - <hql>
 - <hbmtemplate>
 - ...

The Unified Ant Task

Using Hibernate Core

```
<hibernatetool destdir="src">
  <configuration
    configurationfile="hibernate.cfg.xml"/>
  <hbm2doc/>
  <hbm2ddl/>
  <hql>from java.lang.Object</hql>
</hibernatetool>
```

The Unified Ant Task

Using Hibernate Annotations

```
<hibernatetool destdir="src">
  <annotationconfiguration
    configurationfile="hibernate.cfg.xml"/>
  <hbm2doc/>
  <hbm2ddl/>
  <hql>from java.lang.Object</hql>
</hibernatetool>
```

The Unified Ant Task

Using EntityManager/JPA

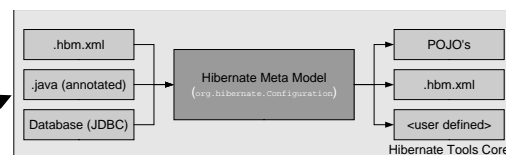
```
<hibernatetool destdir="src">
  <jpaconfiguration
    <classpath location="${build.dir}/jpa-model.jar" />
  </jpaconfiguration>
  <hbm2doc/>
  <hbm2ddl/>
  <hql>from java.lang.Object</hql>
</hibernatetool>
```

The Unified Ant Task

JDBC Reverse engineering

```
<hibernatetool destdir="src">
  <jdbcconfiguration
    configurationfile="hibernate.cfg.xml"/>
  <hbm2doc/>
  <hbm2java/>
  <hql>from java.lang.Object</hql>
</hibernatetool>
```

Hibernate Tools



Hibernate Tools for Eclipse

- Part of JBoss Eclipse IDE
 - Bundled or stand-alone plugin
- Development Wizards
- Mapping and Configuration Editor
- Mapping visualization
- Query prototyping/Introspection/Validation
- FreeMarker Editor (Joe Hudson)

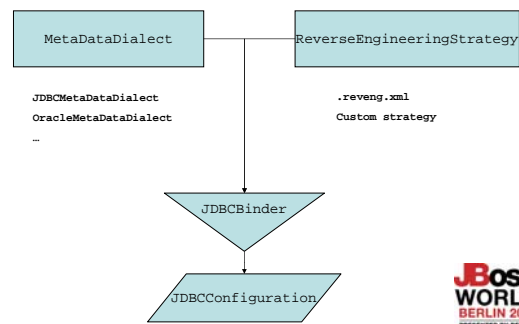
Releases

- **Hibernate Tools 3.1beta5a**
 - Using FreeMarker instead of Velocity
- **Hibernate Tools 3.2beta6-8**
 - Eclipse 3.2 & WTP 1.5
 - Criteria Editor
 - HQL completion
 - Inline completion and validation
- **Hibernate Tools 3.2beta9 (next version)**
 - ZeroTitle configuration
 - JPA support
 - Integrated into SeamGen
- **Hibernate Tools 3.2 final (together with JBossIDE 2.0)**

Hibernate Tools for Eclipse

Demo

Customizable Reverse Engineering



Customizable Reverse Engineering

```
<hibernatetool destdir="src">
  <jdbcconfiguration
    configurationfile="hibernate.cfg.xml"
    revengfile="hibernate.reveng.xml"
    reversestrategy="MyStrategy"/>
  <property
    name="hibernatetool.metadatadialect"
    value="MyDbMetaDataDialect"/>
  <hbm2doc/>
  <hbm2java/>
  <hql>from java.lang.Object</hql>
</hibernatetool>
```

Road map

- Enhance existing exporters
 - JBoss Seam & ejb3
- Add more exporters
 - DataGen, ...
- Integrate/bundle with Dali
- More "beginner" support
- More "where needed" support
- ...

Hibernate Tools for NetBeans



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Hibernate Tools for NetBeans

- Initial contributions done by
 - Leon Chiver
 - Query console
 - Petr Zajac
 - Annotations/XDoclet support for NetBeans
 - Hibernate specialized completions
- Alignment with the (main) Eclipse plugins
- Community effort

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Q & A

Related talks at JBossWorld

"JBoss Eclipse IDE", JBoss IDE Team, Thursday
SoapUI,
..?

Tools forum at <http://forum.hibernate.org>

Documentation & Downloads at

<http://tools.hibernate.org>

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