

Hibernate Tools

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Agenda

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

Goals

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

"The Swiss Army Knife" for Hibernate

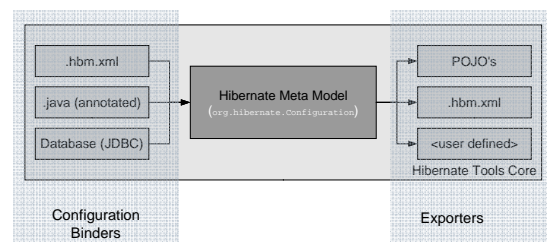


Compact, usable & lethal

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

Native Hibernate setup

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

The Unified Ant Task

Native Hibernate Annotations

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

The Unified Ant Task

EJB3/JPA Persistence Unit

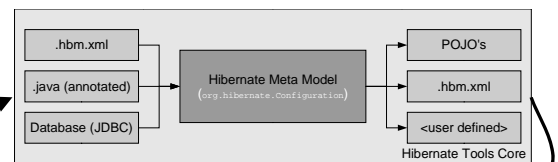
```
<hibernatetool destdir="src">
  <ejb3configuration
    <classpath location="${build.dir}/jpa-model.jar" />
  </ejb3configuration>
  <hbm2doc/>
  <hbm2ddl/>
  <hql>from java.lang.Object</hql>
</hibernatetool>
```

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)

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Releases

- Hibernate Tools 3.1beta4
 - ✓ Eclipse 3.1 & WTP 1.0
 - ✓ Velocity
- Hibernate Tools 3.1beta5a
 - ✓ FreeMarker
 - ✓ FreeMarker IDE (Joe Hudson)
- Hibernate Tools 3.2x (next version)
 - ✓ Eclipse 3.2 & WTP 1.5
 - ✓ Criteria Editor
 - ✓ Improved HQL code handling
 - HQL completion
 - Inline completion
 - Inline validation

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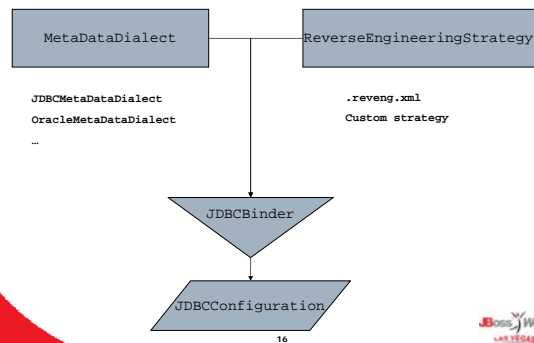
Hibernate Tools for Eclipse

Demo

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Customizable Reverse Engineering



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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>
```

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Road map

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

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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

- "EJB3", Bill Burke, Today
- "Using JBoss for Tactical Space Operations" Kenneth Rabe, Wednesday
- "JBoss Eclipse IDE", JBoss IDE Team, Thursday
- "JBoss Seam", Norman Richards, Thursday

Tools forum at

<http://forum.hibernate.org>

Doc/Downloads at

<http://tools.hibernate.org>

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