Jaffa Reference Guide

Jaffa Example1

1 Contents

2 Introduction

The Example1 domain model is a basic Ping-Pong (Table-Tennis) application where in, you can create your own championships, customize matches, setup events, and maintain the users and their respective scores.
This document explains the prerequisites to be downloaded and installed to successfully run the application.
The build process will create the initial users for you in MYSQL for you to start playing around with the Example1.

This is a screenshot of the Example1 application
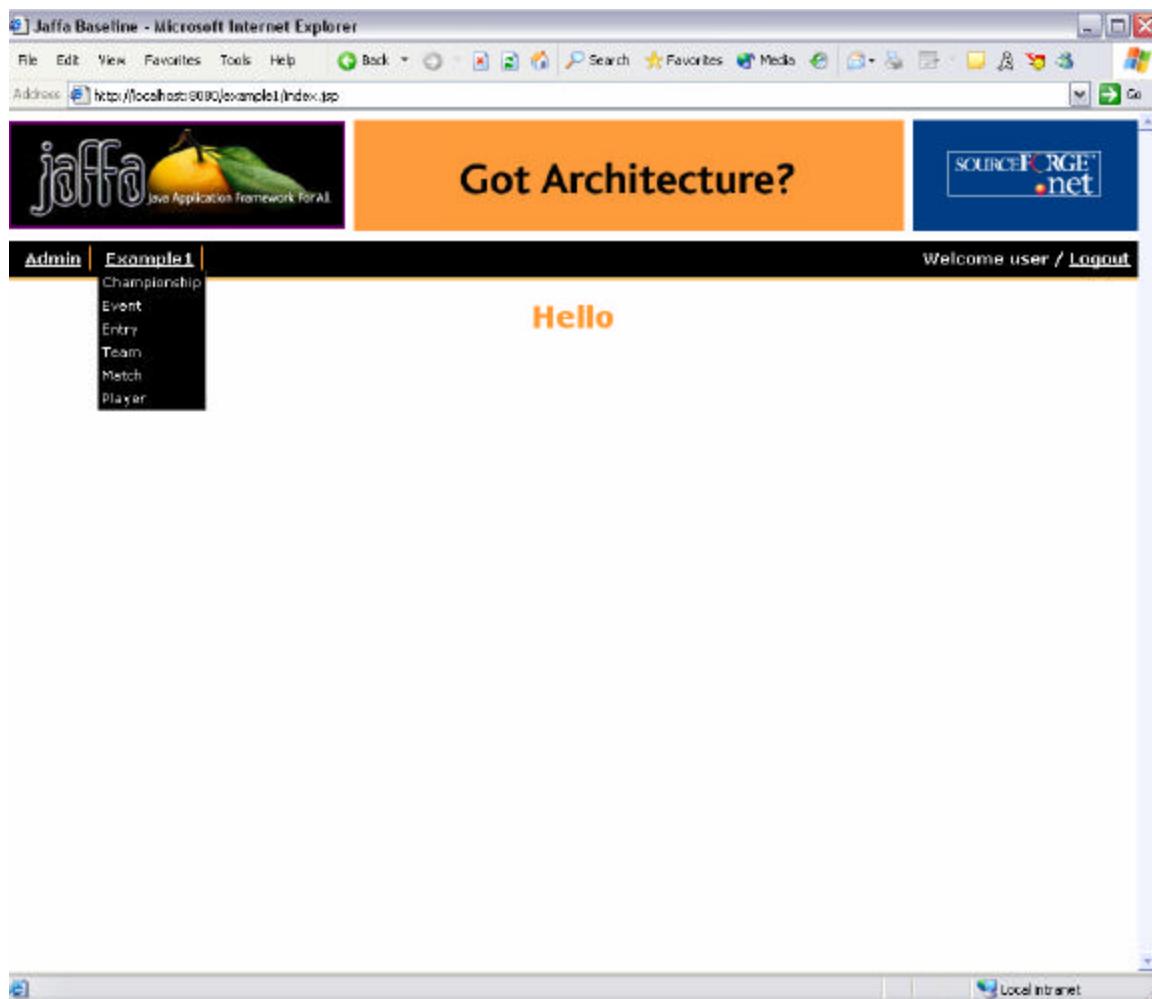
3 Build and Deploy Example1

3.1 Overview

This section explains how to retrieve the example zip files and other related files required to build and deploy the application.

Note that the default values mentioned in this document are for running the application under Windows. Specific changes for UNIX/Linux are mentioned wherever applicable

3.2 Prerequisites

The following are the list of files you need to build and deploy the application

- JDK 1.4 and higher (http://java.sun.com/)
- Tomcat
  - o jakarta-tomcat-4.1.29 (http://jakarta.apache.org/tomcat/index.html)
- Ant (http://ant.apache.org/)
- MySql Database
  - o mysql-4.0.17-win.zip (If you are using MySql database)
  - o MySql Control Center
    - ▪ mysqlcc-0.9.4-win32.zip (Optional… visit www.mysql.com for more details)
- Baseline zip file from Jaffa
  - o jaffa-baseline_1_0.zip (download it from http://jaffa.sf.net)
- Example1 zip file
  - o jaffa-example1.zip (download it from http://jaffa.sf.net)

3.3 Setup and Configuration

3.3.1 Setup

- Install JDK.
- Install Tomcat if you do not have it already.
  - o After you install tomcat, set the environment variable CATALINA_HOME to the path installed.
- Install MySql database and configure it as per the documentation.
- Install MySql Control Center, if you want a GUI tool for your MySql database.
- Unzip the jaffa-baseline_1_0.zip to a folder in your file system.
- Now, unzip the jaffa-example1.zip in to the same folder where you have unzipped the baseline zip file (the above folder).So example1 files will unzipped over the top of the baseline files.

3.3.2 Configuration

Before you start building and deploying the application you need to make sure the properties files have the right value.

- Open up the project.ant.properties under the {*folder_where_example1_is_Unzipped*}/build
  - Check the appname=baseline. Change it to whatever application name you want it to be.
- Open up sandbox.ant.properties file under {folder_where_example1_is_Unzipped}/build
  - Change CATALINA.HOME to point it to the Tomcat installation folder
  - Make sure JAVA.HOME points to your jdk installation directory.

```
PROJECTS.HOME=c:/sandbox/
CATALINA.HOME=C:/sandbox/jakarta-tomcat-4.1.29
JAVA.HOME=C:\java-1.4.2_03
```

  - For Unix/Linux

```
PROJECTS.HOME=/home/git/jaffa
CATALINA.HOME=/data/tomcat
JAVA.HOME=/usr/local/java
```

  - Now enter appropriate the Database Connection information, if needed.
  -

```
DATABASE.HOST.SHORT=localhost
DATABASE.HOST.DOMAIN=
DATABASE.USER=root
DATABASE.PASSWORD=
DATABASE.SID=jaffa
```

  - For Unix/Linux

```
DATABASE.HOST.SHORT=host28 {This should be the machine name}
DATABASE.HOST.DOMAIN=
DATABASE.USER=root
DATABASE.PASSWORD=
DATABASE.SID=jaffa
```

  - Now if needed, change the Specific Database information you are using .e.g. for MySql.

```
DATABASE.PORT=3306
```

- o If you are using Oracle as your database, then uncomment the database information under Oracle (in sandbox.ant.properties) and comment the ones for other databases.

```
#-For Oracle
DATABASE.ENGINE=oracle
DATABASE.PORT=1521
DATABASE.JDBC.DRIVER=oracle.jdbc.driver.OracleDriver
DATABASE.JDBC.URL=jdbc:oracle:thin:@${DATABASE.HOST}:${DATABASE.PORT}:${DATABASE.SI
D}
DATABASE.TYPE=oracle
```

- o NOTE: If you are using Oracle 9.2 (Personal Edition), read the following.

  - By default, 9.2 install some components which are automatically starting services listening on port 8080 which is the default port for tomcat as well. So tomcat usually doesn't run after the build and since it closes its own CMD window, it's not always possible to quickly realize what is happening. To avoid this, you can change the tomcat port to 9090 in WEB.PORT entry in sandbox.ant.properties.

  - Generated create table scripts for oracle are executed using JDBC, but have a trailing '/', causing them to fail and abort the build process. Removing the '/' from the template file CreateTable.wm resolves this issue. This issue is fixed in Jaffa v 2.1

- o Also check if the values for Tomcat realm (if you are using a database other than MySql or you have your own user table for authentication). If you are installing MySql as part of this exercise, the user table will be created for you and you do not have to worry about setting up the following values.

```
TOMCAT.REALM.USERTABLE=USERS
TOMCAT.REALM.USERNAMECOL=USER_NAME
TOMCAT.REALM.USERCREDCOL=PASSWORD
TOMCAT.REALM.USERCLAUSE=PASSWORD IS NOT NULL AND STATUS='A'
TOMCAT.REALM.USERROLETABLE=USER_ROLE
TOMCAT.REALM.ROLENAMECOL=ROLE_NAME
```

- Now open the appbuilder.xml located under {project_folder}/build/appbuilder.
  - o Change the output-root pointing it to the project location.

```
<output-root>C:/sandbox/MyExample/</output-root>
```

o Change the domain-object-path appropriately if installed different from the location below.

```
 <domain-object-
path>C:/sandbox/MyExample/build/patterns/domain_creator_1_0/</domain-object-path>
```

o For Unix/Linux

```
<output-root>/home/git/jaffa/</output-root>

<domain-object-path>/home/git/jaffa/build/patterns/domain_creator_1_0/</domain-
object-path>
```

3.4 Build and deploy

Once you have finished the above Setup and Configuration, all you have to do is run an ant script.
- Open up the full-install.xml file and run the target "first-install" or "core". It should build the application and deploy it, including creating the tables needed for Example1 application.
- If you already have run the build and deploy once and want to just rebuild and deploy without the database setup, then run the target "second-install" inside the full-install.xml file
- For Unix/Linux

```
command line to build from "build" directory :
```

```
ant -buildfile full-install.xml first-install
```

3.5 What Next?

Once you run the build, it will create Database schema (for MySQL), install initial data (like Users and User Roles) and start the Web Server.
Now open up a browser and type in the url
http://localhost:8080/example1
At this point you should see the Logon screen.
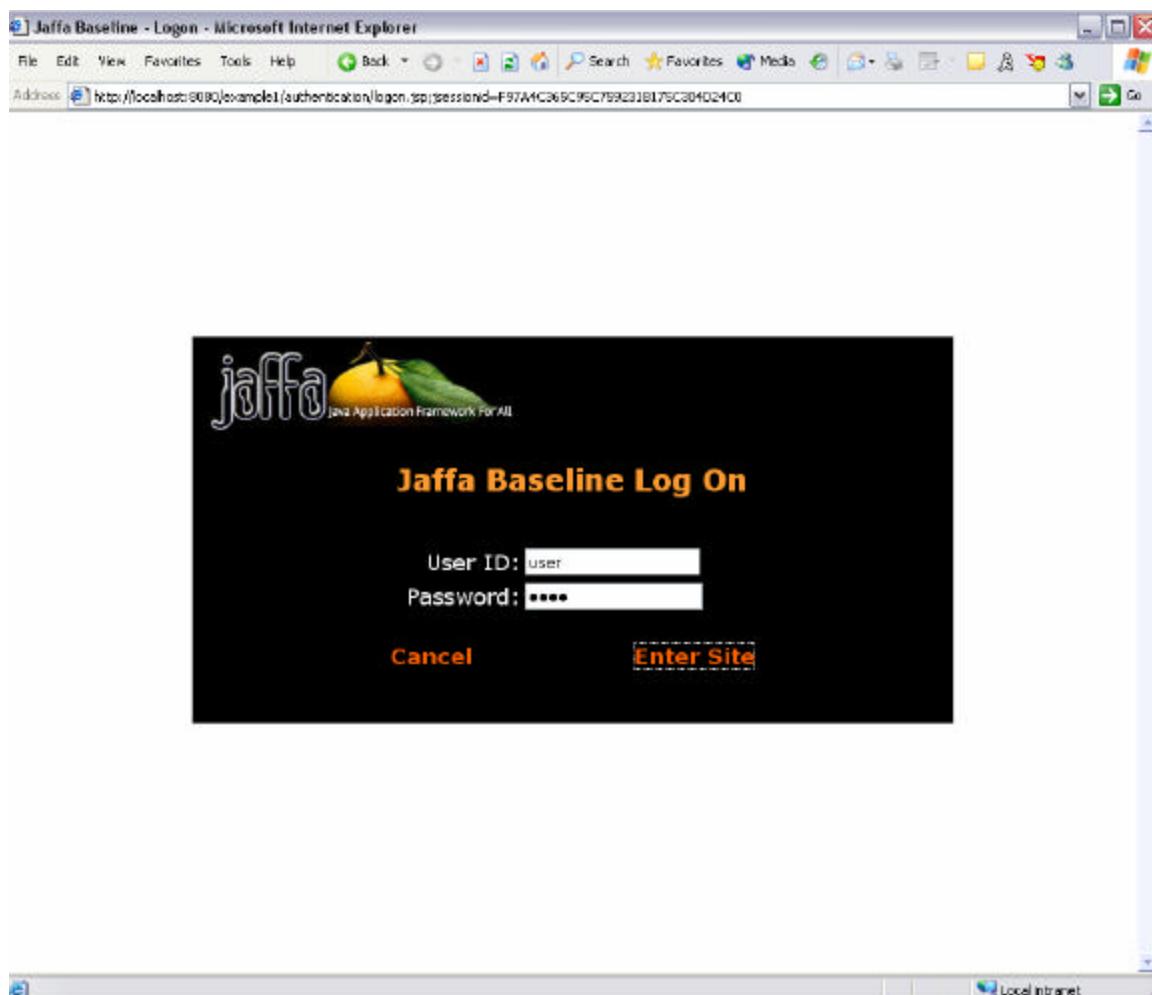
Three users would have been created as part of the full install build process

Username	Password	Comments
user	test	Has User role
admin	test	Has System Admin role
developer	test	Has System Config role

- Login as user/test.
- Under Example1 you should see Championship, Event, Entry, Team, and Match.
- Click on any of the modules and try out different actions.

3.6   Behind the Scenes of the Build and deploy

This section explains what the first-install builds and which target to run if you do not need the full build and deploy.
The first-install target will perform the following tasks.
- Runs the app builder on the domain objects.

- Generates all source the code for Example1.
- Creates the database schema.
- Creates all the tables in the database.
- Adds in default user accounts into the database.
- Stops the web server.
- Compiles and builds the war file.
- Configures the web server, deploys the application.
- Re-starts the web server.

The second-install will perform the following tasks.
- Run the app builder on the domain objects.
- Generate all source code.
- Stops the web server.
- Compiles and builds the war file.
- Configures the web server, deploys the application.
- Re-starts the web server.

Refer Appendix A for full ouput of the first-install build.

3.7 Appendix A – Ant build output for full-install.xml

```
Buildfile: C:\Sandbox\MyExample\build\full-install.xml

init:

first-install:

initCore:
Overriding previous definition of reference to project.class.path

init:
    [mkdir] Created dir: C:\Sandbox\MyExample\dist\patterns\tempMetaData
    [mkdir] Created dir: C:\Sandbox\MyExample\dist\patterns\logs
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

generate-app:
     [java] Default Log4J Set Up
     [java] XML Descriptor = C:\Sandbox\MyExample/build/appbuilder/appbuilder.xml
     [java] 0 [main] INFO org.jaffa.tools.patternmetaengine.AppBuilder  - Building
Application From Definition - C:\Sandbox\MyExample/build/appbuilder/appbuilder.xml
     [java] 609 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  - Load
all domain objects...
     [java] 609 [main] INFO org.jaffa.tools.patternmetaengine.AppBuilder  - Loading
Object from...C:/sandbox/MyExample/build/patterns/domain_creator_1_0/
     [java] 781 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=Championship, Table=CHAMPIONSHIP
     [java] 859 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=ChampionshipStatus, Table=CHAMPIONSHIPSTATUS
     [java] 937 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=Entry, Table=ENTRY
     [java] 1015 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=Event, Table=EVENT
     [java] 1062 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=EventGender, Table=EVENTGENDER
     [java] 1125 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=EventStatus, Table=EVENTSTATUS
     [java] 1156 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=EventType, Table=EVENTTYPE
     [java] 1234 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=Matches, Table=MATCHES
     [java] 1265 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=Player, Table=USERS
     [java] 1343 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=PlayerRoles, Table=USER_ROLE
     [java] 1406 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=Team, Table=TEAM
     [java] 1499 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Added Domain Object. Name=TeamMember, Table=TEAMMEMBER
     [java] 1499 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Removed Field CreatedDateTime from Championship
     [java] 1499 [main] DEBUG org.jaffa.tools.patternmetaengine.DomainObjectHelper
- Removed Relationship TeamMember from Player -> From Field UserName Not Found!
     [java] 1499 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Finder, Module=user, DomainObject=Player
     [java] 1531 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - Player
     [java] 1796 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Finder, Module=user, DomainObject=PlayerRoles
     [java] 1796 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - PlayerRoles
     [java] 1796 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module user. Auto-Generated by the JAFFA AppBuilder
```

```
     [java] 1905 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=championship,
DomainObject=Championship
     [java] 1905 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - Championship
     [java] 1905 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=championship,
DomainObject=ChampionshipStatus
     [java] 1905 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - ChampionshipStatus
     [java] 1905 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Saving Labels For Module championship. Auto-Generated by the JAFFA AppBuilder
     [java] 1937 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=event, DomainObject=EventStatus
     [java] 1937 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - EventStatus
     [java] 1937 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=event, DomainObject=Event
     [java] 1937 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - Event
     [java] 1968 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=event, DomainObject=EventType
     [java] 2061 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - EventType
     [java] 2093 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=event, DomainObject=EventGender
     [java] 2093 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - EventGender
     [java] 2093 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Saving Labels For Module event. Auto-Generated by the JAFFA AppBuilder
     [java] 2140 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=entry, DomainObject=Entry
     [java] 2218 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - Entry
     [java] 2218 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Saving Labels For Module entry. Auto-Generated by the JAFFA AppBuilder
     [java] 2233 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=team, DomainObject=Team
     [java] 2233 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - Team
     [java] 2233 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=team, DomainObject=TeamMember
     [java] 2374 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - TeamMember
     [java] 2374 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Saving Labels For Module team. Auto-Generated by the JAFFA AppBuilder
     [java] 2748 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Finder, Module=match, DomainObject=Matches
     [java] 2748 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectFinder
- Create Finder For - Matches
     [java] 2748 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Saving Labels For Module match. Auto-Generated by the JAFFA AppBuilder
     [java] 2748 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
     [java] 2780 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Viewer, Module=user, DomainObject=Player
     [java] 2795 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - Player
     [java] 3076 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Saving Labels For Module user. Auto-Generated by the JAFFA AppBuilder
     [java] 3076 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
     [java] 3076 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder   -
Processing: Phase=1, Component=Viewer, Module=championship,
DomainObject=Championship
```

```
     [java] 3076 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - Championship
     [java] 3076 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module championship. Auto-Generated by the JAFFA AppBuilder
     [java] 3123 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
     [java] 3123 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Viewer, Module=event, DomainObject=Event
     [java] 3123 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - Event
     [java] 3123 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module event. Auto-Generated by the JAFFA AppBuilder
     [java] 3279 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
     [java] 3279 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Viewer, Module=entry, DomainObject=Entry
     [java] 3279 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - Entry
     [java] 3279 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module entry. Auto-Generated by the JAFFA AppBuilder
     [java] 3436 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
     [java] 3436 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Viewer, Module=team, DomainObject=Team
     [java] 3436 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - Team
     [java] 3436 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Viewer, Module=team, DomainObject=TeamMember
     [java] 3576 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - TeamMember
     [java] 3576 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module team. Auto-Generated by the JAFFA AppBuilder
     [java] 3576 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
     [java] 3576 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Viewer, Module=match, DomainObject=Matches
     [java] 3717 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Create Viewer For - Matches
     [java] 3732 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module match. Auto-Generated by the JAFFA AppBuilder
     [java] 3732 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
     [java] 3732 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=user, DomainObject=Player
     [java] 3904 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- Player
     [java] 4294 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Domain Player has 1
relationships to process
     [java] 4294 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Initial Related Objects
is : null
     [java] 4294 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Added 1 Related Objects
     [java] 4294 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=user, DomainObject=PlayerRoles
     [java] 4294 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- PlayerRoles
```

```
    [java] 4294 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
User.PlayerRolesMaintenance - Processing Foriegn Object Player
    [java] 4310 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
User.PlayerRolesMaintenance - Processing Foriegn Field UserName->UserName
    [java] 4310 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module user. Auto-Generated by the JAFFA AppBuilder
    [java] 4310 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
    [java] 4497 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=championship,
DomainObject=Championship
    [java] 4497 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- Championship
    [java] 4497 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Domain Championship has
1 relationships to process
    [java] 4497 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Initial Related Objects
is : null
    [java] 4607 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Added 1 Related Objects
    [java] 4607 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=championship,
DomainObject=ChampionshipStatus
    [java] 4607 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- ChampionshipStatus
    [java] 4622 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module championship. Auto-Generated by the JAFFA AppBuilder
    [java] 4747 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
    [java] 4747 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=event, DomainObject=EventType
    [java] 4747 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- EventType
    [java] 4747 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=event, DomainObject=EventStatus
    [java] 4903 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- EventStatus
    [java] 4903 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=event, DomainObject=Event
    [java] 4903 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- Event
    [java] 4903 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Event.EventMaintenance - Processing Foriegn Object Championship
    [java] 5075 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Event.EventMaintenance - Processing Foriegn Field ChampionshipId->ChampionshipId
    [java] 5075 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Domain Event has 2
relationships to process
    [java] 5075 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Initial Related Objects
is : null
    [java] 5075 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Added 2 Related Objects
    [java] 5075 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=event, DomainObject=EventGender
```

```
     [java] 5247 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- EventGender
     [java] 5247 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module event. Auto-Generated by the JAFFA AppBuilder
     [java] 5247 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
     [java] 5247 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=entry, DomainObject=Entry
     [java] 5434 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- Entry
     [java] 5434 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Entry.EntryMaintenance - Processing Foriegn Object Event
     [java] 5434 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Entry.EntryMaintenance - Processing Foriegn Field EventId->EventId
     [java] 5434 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Entry.EntryMaintenance - Processing Foriegn Object Team
     [java] 5575 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Entry.EntryMaintenance - Processing Foriegn Field TeamId->TeamId
     [java] 5575 [main] WARN
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - All fields consumed by
foriegn objects!. Dummy Inserted
     [java] 5575 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module entry. Auto-Generated by the JAFFA AppBuilder
     [java] 5575 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
     [java] 5747 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=team, DomainObject=Team
     [java] 5747 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- Team
     [java] 5747 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Domain Team has 2
relationships to process
     [java] 5747 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Initial Related Objects
is : null
     [java] 5762 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Added 2 Related Objects
     [java] 5934 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=team, DomainObject=TeamMember
     [java] 5934 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- TeamMember
     [java] 5934 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Team.TeamMemberMaintenance - Processing Foriegn Object Team
     [java] 5934 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Team.TeamMemberMaintenance - Processing Foriegn Field TeamId->TeamId
     [java] 6074 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module team. Auto-Generated by the JAFFA AppBuilder
     [java] 6090 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
     [java] 6090 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Maintenance, Module=match, DomainObject=Matches
     [java] 6090 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Create Maintenance For
- Matches
```

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    [java] 6277 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Match.MatchesMaintenance - Processing Foriegn Object Event
    [java] 6277 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Maint Comp
Match.MatchesMaintenance - Processing Foriegn Field EventId->EventId
    [java] 6277 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module match. Auto-Generated by the JAFFA AppBuilder
    [java] 6277 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
    [java] 6434 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=user, DomainObject=Player
    [java] 6434 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - Player
    [java] 6746 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=user, DomainObject=PlayerRoles
    [java] 6746 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - PlayerRoles
    [java] 6746 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module user. Auto-Generated by the JAFFA AppBuilder
    [java] 6746 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
    [java] 6793 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=championship,
DomainObject=Championship
    [java] 6793 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - Championship
    [java] 6793 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=championship,
DomainObject=ChampionshipStatus
    [java] 6793 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - ChampionshipStatus
    [java] 6840 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module championship. Auto-Generated by the JAFFA AppBuilder
    [java] 6871 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
    [java] 6871 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=event, DomainObject=EventStatus
    [java] 6871 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - EventStatus
    [java] 7027 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=event, DomainObject=Event
    [java] 7027 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - Event
    [java] 7027 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=event, DomainObject=EventType
    [java] 7027 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - EventType
    [java] 7027 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=event, DomainObject=EventGender
    [java] 7214 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - EventGender
    [java] 7214 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module event. Auto-Generated by the JAFFA AppBuilder
    [java] 7214 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
    [java] 7214 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=entry, DomainObject=Entry
    [java] 7386 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - Entry
    [java] 7417 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module entry. Auto-Generated by the JAFFA AppBuilder
```

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    [java] 7417 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
    [java] 7417 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=team, DomainObject=Team
    [java] 7589 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - Team
    [java] 7589 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=team, DomainObject=TeamMember
    [java] 7589 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - TeamMember
    [java] 7589 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module team. Auto-Generated by the JAFFA AppBuilder
    [java] 7589 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
    [java] 7730 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=1, Component=Lookup, Module=match, DomainObject=Matches
    [java] 7730 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectLookup
- Create Lookup For - Matches
    [java] 7730 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saving Labels For Module match. Auto-Generated by the JAFFA AppBuilder
    [java] 7730 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
    [java] 7917 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=user, DomainObject=Player
    [java] 7917 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=user, DomainObject=PlayerRoles
    [java] 7917 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
    [java] 7917 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=championship,
DomainObject=Championship
    [java] 8058 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=championship,
DomainObject=ChampionshipStatus
    [java] 8058 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
    [java] 8058 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=event, DomainObject=EventStatus
    [java] 8058 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=event, DomainObject=Event
    [java] 8292 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=event, DomainObject=EventType
    [java] 8292 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=event, DomainObject=EventGender
    [java] 8292 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
    [java] 8292 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=entry, DomainObject=Entry
    [java] 8479 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
    [java] 8479 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=team, DomainObject=Team
    [java] 8479 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=team, DomainObject=TeamMember
    [java] 8479 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
```

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C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
     [java] 8682 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Finder, Module=match, DomainObject=Matches
     [java] 8682 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
     [java] 8682 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=user, DomainObject=Player
     [java] 8682 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Down' Viewer PlayerRoles to Player
     [java] 8823 [main] INFO org.jaffa.tools.patternmetaengine.BuildObjectViewer  -
No related viewer in component User.PlayerViewer for domain PlayerRoles
     [java] 8870 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
     [java] 8870 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=championship,
DomainObject=Championship
     [java] 8870 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Down' Viewer Event to Championship
     [java] 9041 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
     [java] 9041 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=event, DomainObject=Event
     [java] 9041 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- ...Found - Championship
     [java] 9041 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Up' Viewer Championship to Event
     [java] 9213 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Down' Viewer Matches to Event
     [java] 9213 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Down' Viewer Entry to Event
     [java] 9213 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
     [java] 9213 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=entry, DomainObject=Entry
     [java] 9338 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- ...Found - Event
     [java] 9338 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Up' Viewer Event to Entry
     [java] 9338 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- ...Found - Team
     [java] 9338 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Up' Viewer Team to Entry
     [java] 9338 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
     [java] 9510 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=team, DomainObject=Team
     [java] 9510 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Down' Viewer TeamMember to Team
     [java] 9510 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Down' Viewer Entry to Team
     [java] 9510 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=team, DomainObject=TeamMember
     [java] 9510 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- ...Found - Team
     [java] 9635 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Up' Viewer Team to TeamMember
     [java] 9635 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
```

```
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
     [java] 9635 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Viewer, Module=match, DomainObject=Matches
     [java] 9635 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- ...Found - Event
     [java] 9760 [main] DEBUG org.jaffa.tools.patternmetaengine.BuildObjectViewer
- Linking 'Up' Viewer Event to Matches
     [java] 9760 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
     [java] 9760 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=user, DomainObject=Player
     [java] 9760 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Linking 'Down' Viewer
PlayerRoles to Player
     [java] 9931 [main] INFO
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - No related viewer in
component User.PlayerMaintenance for domain PlayerRoles
     [java] 9931 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Linking 'Down'
Maintenace PlayerRoles to Player
     [java] 9931 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=user, DomainObject=PlayerRoles
     [java] 9931 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
     [java] 10056 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=championship,
DomainObject=Championship
     [java] 10056 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=championship,
DomainObject=ChampionshipStatus
     [java] 10056 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
     [java] 10228 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=event, DomainObject=EventType
     [java] 10228 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=event, DomainObject=EventStatus
     [java] 10228 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=event, DomainObject=Event
     [java] 10228 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=event, DomainObject=EventGender
     [java] 10384 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
     [java] 10384 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=entry, DomainObject=Entry
     [java] 10384 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
     [java] 10572 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=team, DomainObject=Team
     [java] 10572 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Linking 'Down' Viewer
TeamMember to Team
     [java] 10572 [main] DEBUG
org.jaffa.tools.patternmetaengine.BuildObjectMaintenance  - Linking 'Down'
Maintenace TeamMember to Team
     [java] 10572 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Processing: Phase=2, Component=Maintenance, Module=team, DomainObject=TeamMember
     [java] 10696 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Merging Module Labels From
```

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C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
     [java] 10696 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Maintenance, Module=match, DomainObject=Matches
     [java] 10696 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\user\Appl
icationResources.pfragment
     [java] 10853 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=user, DomainObject=Player
     [java] 10853 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=user, DomainObject=PlayerRoles
     [java] 10853 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\champions
hip\ApplicationResources.pfragment
     [java] 10853 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=championship,
DomainObject=Championship
     [java] 11024 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=championship,
DomainObject=ChampionshipStatus
     [java] 11024 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\event\App
licationResources.pfragment
     [java] 11024 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=event, DomainObject=EventStatus
     [java] 11024 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=event, DomainObject=Event
     [java] 11212 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=event, DomainObject=EventType
     [java] 11212 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=event, DomainObject=EventGender
     [java] 11212 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\entry\App
licationResources.pfragment
     [java] 11212 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=entry, DomainObject=Entry
     [java] 11399 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\team\Appl
icationResources.pfragment
     [java] 11399 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=team, DomainObject=Team
     [java] 11399 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=team, DomainObject=TeamMember
     [java] 11399 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Merging Module Labels From
C:/sandbox/MyExample/source/java/\org\jaffa\applications\example1\modules\match\App
licationResources.pfragment
     [java] 11602 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Processing: Phase=2, Component=Lookup, Module=match, DomainObject=Matches
     [java] 11852 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - User.PlayerFinder
     [java] 11899 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - User.PlayerRolesFinder
     [java] 11930 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - Championship.ChampionshipFinder
     [java] 11993 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - Championship.ChampionshipStatusFinder
     [java] 12008 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - Event.EventStatusFinder
     [java] 12071 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - Event.EventFinder
     [java] 12071 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - Event.EventTypeFinder
     [java] 12071 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder    -
Saved Component - Event.EventGenderFinder
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    [java] 12102 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Entry.EntryFinder
    [java] 12133 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamFinder
    [java] 12211 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamMemberFinder
    [java] 12274 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Match.MatchesFinder
    [java] 12414 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - User.PlayerViewer
    [java] 12461 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Championship.ChampionshipViewer
    [java] 12492 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventViewer
    [java] 12508 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Entry.EntryViewer
    [java] 12570 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamViewer
    [java] 12601 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamMemberViewer
    [java] 12633 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Match.MatchesViewer
    [java] 12680 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - User.PlayerMaintenance
    [java] 12711 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - User.PlayerRolesMaintenance
    [java] 12726 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Championship.ChampionshipMaintenance
    [java] 12758 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Championship.ChampionshipStatusMaintenance
    [java] 12758 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventTypeMaintenance
    [java] 12789 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventStatusMaintenance
    [java] 12883 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventMaintenance
    [java] 12914 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventGenderMaintenance
    [java] 12914 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Entry.EntryMaintenance
    [java] 13007 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamMaintenance
    [java] 13054 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamMemberMaintenance
    [java] 13070 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Match.MatchesMaintenance
    [java] 13101 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - User.PlayerLookup
    [java] 13132 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - User.PlayerRolesLookup
    [java] 13164 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Championship.ChampionshipLookup
    [java] 13164 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Championship.ChampionshipStatusLookup
    [java] 13195 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventStatusLookup
    [java] 13226 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventLookup
    [java] 13226 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventTypeLookup
    [java] 13257 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Event.EventGenderLookup
    [java] 13289 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Entry.EntryLookup
    [java] 13335 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamLookup
    [java] 13367 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Team.TeamMemberLookup
    [java] 13382 [main] DEBUG org.jaffa.tools.patternmetaengine.AppBuilder  -
Saved Component - Match.MatchesLookup
```

```
initCore:
Overriding previous definition of reference to project.class.path

init:
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

generate-code:

initCore:
Overriding previous definition of reference to project.class.path

core:

initCore:
Overriding previous definition of reference to project.class.path

init:
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

all-domain:
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\Championship.xml(file:/C:/Sa
ndbox/MyExample/build/patterns/domain_creator_1_0/Championship.xml)
     [java] log4j:WARN No appenders could be found for logger
(org.jaffa.util.DefaultEntityResolver).
     [java] log4j:WARN Please initialize the log4j system properly.
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\ChampionshipStatus.xml(file:
/C:/Sandbox/MyExample/build/patterns/domain_creator_1_0/ChampionshipStatus.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\Entry.xml(file:/C:/Sandbox/M
yExample/build/patterns/domain_creator_1_0/Entry.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\Event.xml(file:/C:/Sandbox/M
yExample/build/patterns/domain_creator_1_0/Event.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\EventGender.xml(file:/C:/San
dbox/MyExample/build/patterns/domain_creator_1_0/EventGender.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\EventStatus.xml(file:/C:/San
dbox/MyExample/build/patterns/domain_creator_1_0/EventStatus.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\EventType.xml(file:/C:/Sandb
ox/MyExample/build/patterns/domain_creator_1_0/EventType.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\Matches.xml(file:/C:/Sandbox
/MyExample/build/patterns/domain_creator_1_0/Matches.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\Player.xml(file:/C:/Sandbox/
MyExample/build/patterns/domain_creator_1_0/Player.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\PlayerRoles.xml(file:/C:/San
dbox/MyExample/build/patterns/domain_creator_1_0/PlayerRoles.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\Team.xml(file:/C:/Sandbox/My
Example/build/patterns/domain_creator_1_0/Team.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\domain_creator_1_0\TeamMember.xml(file:/C:/Sand
box/MyExample/build/patterns/domain_creator_1_0/TeamMember.xml)

initCore:
Overriding previous definition of reference to project.class.path

init:
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
```

```
all-finders:
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\ChampionshipFinder.xml(file:/
C:/Sandbox/MyExample/build/patterns/object_finder_2_0/ChampionshipFinder.xml)
     [java] log4j:WARN No appenders could be found for logger
(org.jaffa.util.DefaultEntityResolver).
     [java] log4j:WARN Please initialize the log4j system properly.
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\ChampionshipStatusFinder.xml(
file:/C:/Sandbox/MyExample/build/patterns/object_finder_2_0/ChampionshipStatusFinde
r.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\EntryFinder.xml(file:/C:/Sand
box/MyExample/build/patterns/object_finder_2_0/EntryFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\EventFinder.xml(file:/C:/Sand
box/MyExample/build/patterns/object_finder_2_0/EventFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\EventGenderFinder.xml(file:/C
:/Sandbox/MyExample/build/patterns/object_finder_2_0/EventGenderFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\EventStatusFinder.xml(file:/C
:/Sandbox/MyExample/build/patterns/object_finder_2_0/EventStatusFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\EventTypeFinder.xml(file:/C:/
Sandbox/MyExample/build/patterns/object_finder_2_0/EventTypeFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\MatchesFinder.xml(file:/C:/Sa
ndbox/MyExample/build/patterns/object_finder_2_0/MatchesFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\PlayerFinder.xml(file:/C:/San
dbox/MyExample/build/patterns/object_finder_2_0/PlayerFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\PlayerRolesFinder.xml(file:/C
:/Sandbox/MyExample/build/patterns/object_finder_2_0/PlayerRolesFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\TeamFinder.xml(file:/C:/Sandb
ox/MyExample/build/patterns/object_finder_2_0/TeamFinder.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_finder_2_0\TeamMemberFinder.xml(file:/C:
/Sandbox/MyExample/build/patterns/object_finder_2_0/TeamMemberFinder.xml)

initCore:
Overriding previous definition of reference to project.class.path

init:
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

all-viewers:
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\ChampionshipViewer.xml(file:/
C:/Sandbox/MyExample/build/patterns/object_viewer_2_0/ChampionshipViewer.xml)
     [java] log4j:WARN No appenders could be found for logger
(org.jaffa.util.DefaultEntityResolver).
     [java] log4j:WARN Please initialize the log4j system properly.
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\EntryViewer.xml(file:/C:/Sand
box/MyExample/build/patterns/object_viewer_2_0/EntryViewer.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\EventViewer.xml(file:/C:/Sand
box/MyExample/build/patterns/object_viewer_2_0/EventViewer.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\MatchesViewer.xml(file:/C:/Sa
ndbox/MyExample/build/patterns/object_viewer_2_0/MatchesViewer.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\PlayerViewer.xml(file:/C:/San
dbox/MyExample/build/patterns/object_viewer_2_0/PlayerViewer.xml)
```

```
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\TeamMemberViewer.xml(file:/C:
/Sandbox/MyExample/build/patterns/object_viewer_2_0/TeamMemberViewer.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_viewer_2_0\TeamViewer.xml(file:/C:/Sandb
ox/MyExample/build/patterns/object_viewer_2_0/TeamViewer.xml)

initCore:
Overriding previous definition of reference to project.class.path

init:
      [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
      [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

all-maintenance:
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\ChampionshipMaintenance.
xml(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/ChampionshipMa
intenance.xml)
      [java] log4j:WARN No appenders could be found for logger
(org.jaffa.util.DefaultEntityResolver).
      [java] log4j:WARN Please initialize the log4j system properly.
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\ChampionshipStatusMainte
nance.xml(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/Champion
shipStatusMaintenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\EntryMaintenance.xml(fil
e:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/EntryMaintenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\EventGenderMaintenance.x
ml(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/EventGenderMain
tenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\EventMaintenance.xml(fil
e:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/EventMaintenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\EventStatusMaintenance.x
ml(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/EventStatusMain
tenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\EventTypeMaintenance.xml
(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/EventTypeMaintena
nce.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\MatchesMaintenance.xml(f
ile:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/MatchesMaintenance.
xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\PlayerMaintenance.xml(fi
le:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/PlayerMaintenance.xm
l)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\PlayerRolesMaintenance.x
ml(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/PlayerRolesMain
tenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\TeamMaintenance.xml(file
:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/TeamMaintenance.xml)
      [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_maintenance_2_0\TeamMemberMaintenance.xm
l(file:/C:/Sandbox/MyExample/build/patterns/object_maintenance_2_0/TeamMemberMainte
nance.xml)

initCore:
Overriding previous definition of reference to project.class.path

init:
      [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
      [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
```

```
all-lookups:
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\ChampionshipLookup.xml(file:/
C:/Sandbox/MyExample/build/patterns/object_lookup_2_0/ChampionshipLookup.xml)
     [java] log4j:WARN No appenders could be found for logger
(org.jaffa.util.DefaultEntityResolver).
     [java] log4j:WARN Please initialize the log4j system properly.
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\ChampionshipStatusLookup.xml(
file:/C:/Sandbox/MyExample/build/patterns/object_lookup_2_0/ChampionshipStatusLooku
p.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\EntryLookup.xml(file:/C:/Sand
box/MyExample/build/patterns/object_lookup_2_0/EntryLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\EventGenderLookup.xml(file:/C
:/Sandbox/MyExample/build/patterns/object_lookup_2_0/EventGenderLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\EventLookup.xml(file:/C:/Sand
box/MyExample/build/patterns/object_lookup_2_0/EventLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\EventStatusLookup.xml(file:/C
:/Sandbox/MyExample/build/patterns/object_lookup_2_0/EventStatusLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\EventTypeLookup.xml(file:/C:/
Sandbox/MyExample/build/patterns/object_lookup_2_0/EventTypeLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\MatchesLookup.xml(file:/C:/Sa
ndbox/MyExample/build/patterns/object_lookup_2_0/MatchesLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\PlayerLookup.xml(file:/C:/San
dbox/MyExample/build/patterns/object_lookup_2_0/PlayerLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\PlayerRolesLookup.xml(file:/C
:/Sandbox/MyExample/build/patterns/object_lookup_2_0/PlayerRolesLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\TeamLookup.xml(file:/C:/Sandb
ox/MyExample/build/patterns/object_lookup_2_0/TeamLookup.xml)
     [java] Processing the pattern meta data file:
C:\Sandbox\MyExample\build\patterns\object_lookup_2_0\TeamMemberLookup.xml(file:/C:
/Sandbox/MyExample/build/patterns/object_lookup_2_0/TeamMemberLookup.xml)

init:

create-db:
     [echo] Initialize Database
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-
db\mysql\create_jaffa_db.sql
      [sql] 4 of 4 SQL statements executed successfully

init:

init-db:
     [echo] Initialize Database
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\CHAMPIONSHIP.sql
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\CHAMPIONSHIPSTATUS.sql
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\ENTRY.sql
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\EVENT.sql
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\EVENTGENDER.sql
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\EVENTSTATUS.sql
      [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\EVENTTYPE.sql
```

```
        [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\MATCHES.sql
        [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\TEAM.sql
        [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\TEAMMEMBER.sql
        [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\USERS.sql
        [sql] Executing file: C:\Sandbox\MyExample\source\sql\create-table-
scripts\mysql\USER_ROLE.sql
        [sql] 12 of 12 SQL statements executed successfully

init:


init-db-data:
        [echo] Initialize Database Data
        [sql] Executing file:
C:\Sandbox\MyExample\source\sql\install\mysql\populate_USERS.sql
        [sql] Executing file:
C:\Sandbox\MyExample\source\sql\install\mysql\populate_USER_ROLE.sql
        [sql] 10 of 10 SQL statements executed successfully

initCore:
Overriding previous definition of reference to project.class.path

init:
        [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
        [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

core:

init:

stop:
        [exec] Using CATALINA_BASE:   c:\sandbox\jakarta-tomcat-4.1.29
        [exec] Using CATALINA_HOME:   c:\sandbox\jakarta-tomcat-4.1.29
        [exec] Using CATALINA_TMPDIR: c:\sandbox\jakarta-tomcat-4.1.29\temp
        [exec] Using JAVA_HOME:       C:\j2sdk1.4.1_02
        [exec] Catalina.stop: java.net.ConnectException: Connection refused: connect
        [exec] java.net.ConnectException: Connection refused: connect
        [exec]          at java.net.PlainSocketImpl.socketConnect(Native Method)
        [exec]          at java.net.PlainSocketImpl.doConnect(PlainSocketImpl.java:305)
        [exec]          at
java.net.PlainSocketImpl.connectToAddress(PlainSocketImpl.java:171)
        [exec]          at java.net.PlainSocketImpl.connect(PlainSocketImpl.java:158)
        [exec]          at java.net.Socket.connect(Socket.java:426)
        [exec]          at java.net.Socket.connect(Socket.java:376)
        [exec]          at java.net.Socket.<init>(Socket.java:291)
        [exec]          at java.net.Socket.<init>(Socket.java:119)
        [exec]          at org.apache.catalina.startup.Catalina.stop(Catalina.java:581)
        [exec]          at
org.apache.catalina.startup.Catalina.execute(Catalina.java:402)
        [exec]          at
org.apache.catalina.startup.Catalina.process(Catalina.java:180)
        [exec]          at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        [exec]          at
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
        [exec]          at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:2
5)
        [exec]          at java.lang.reflect.Method.invoke(Method.java:324)
        [exec]          at
org.apache.catalina.startup.Bootstrap.main(Bootstrap.java:203)
        [exec] Result: 1

initCore:
Overriding previous definition of reference to project.class.path

init:
        [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
```

```
        [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

server.xml:
      [copy] Copying 1 file to C:\Sandbox\MyExample\dist\staging\tomcat
   [replace] Replaced 83 occurrences in 1 files.

deploy-server.xml:
      [copy] Copying 1 file to C:\sandbox\jakarta-tomcat-4.1.29\conf

init:

check-jaffa:

init:

get-jaffa:

init:

get-jaffa-components:

compile:
      [mkdir] Created dir: C:\Sandbox\MyExample\dist\classes
     [depend] Deleted 0 out of date files in 0 seconds
[javac/example1] Compiling 407 source files to C:\Sandbox\MyExample\dist\classes
[javac/example1]
C:\Sandbox\MyExample\source\java\org\apache\struts\action\RequestProcessor.java:111
9: warning: getDebug() in org.apache.struts.action.ActionServlet has been
deprecated
[javac/example1]         return (servlet.getDebug());
[javac/example1]                         ^
[javac/example1]
C:\Sandbox\MyExample\source\java\org\apache\struts\util\RequestUtils.java:2079:
warning: org.apache.struts.util.ErrorMessages in org.apache.struts.util has been
deprecated
[javac/example1]             } else if (value instanceof ErrorMessages) {
[javac/example1]                                         ^
[javac/example1]
C:\Sandbox\MyExample\source\java\org\apache\struts\util\RequestUtils.java:2080:
warning: org.apache.struts.util.ErrorMessages in org.apache.struts.util has been
deprecated
[javac/example1]                 String keys[] = ((ErrorMessages)
value).getErrors();
[javac/example1]                                   ^
[javac/example1]
C:\Sandbox\MyExample\source\java\org\apache\struts\util\RequestUtils.java:2128:
warning: org.apache.struts.util.ErrorMessages in org.apache.struts.util has been
deprecated
[javac/example1]             } else if (value instanceof ErrorMessages) {
[javac/example1]                                         ^
[javac/example1]
C:\Sandbox\MyExample\source\java\org\apache\struts\util\RequestUtils.java:2129:
warning: org.apache.struts.util.ErrorMessages in org.apache.struts.util has been
deprecated
[javac/example1]                 String keys[] = ((ErrorMessages)
value).getErrors();
[javac/example1]                                   ^
[javac/example1]
C:\Sandbox\MyExample\source\java\org\apache\struts\util\RequestUtils.java:2172:
warning: encode(java.lang.String) in java.net.URLEncoder has been deprecated
[javac/example1]         return URLEncoder.encode(url);
[javac/example1]                           ^
[javac/example1] 6 warnings

project-fragments:
      [mkdir] Created dir: C:\Sandbox\MyExample\dist\fragments
      [copy] Copying 222 files to C:\Sandbox\MyExample\dist\fragments

init:
```

```
check-jaffa:

init:

get-jaffa:

init:

get-jaffa-components:

jaffa-fragments:
    [unzip] Expanding: C:\Sandbox\MyExample\lib\jaffa\jaffa.jar into
C:\Sandbox\MyExample\dist\fragments

init:

check-jaffa:

init:

get-jaffa:

init:

get-jaffa-components:

jaffa-components-fragments:
    [unzip] Expanding: C:\Sandbox\MyExample\lib\jaffa\jaffa-components.jar into
C:\Sandbox\MyExample\dist\fragments
    [unzip] Expanding: C:\Sandbox\MyExample\lib\jaffa\jaffa-components.jar into
C:\Sandbox\MyExample\source

struts-uptodate:

build-struts:
[copy/example1] Copying 1 file to C:\Sandbox\MyExample\dist\staging\WEB-INF
[configfileupdate/example1] Decomposing Config File :
C:\Sandbox\MyExample\dist\staging\WEB-INF\struts-config.xml
[configfileupdate/example1] Added the contents of StrutsConfigFormBean.xfragment
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tiles-uptodate:

build-tiles:
[copy/example1] Copying 1 file to C:\Sandbox\MyExample\dist\staging\WEB-INF
[configfileupdate/example1] Decomposing Config File :
C:\Sandbox\MyExample\dist\staging\WEB-INF\tiles-defs.xml
[configfileupdate/example1] Added the contents of
ComponentTilesDefinitions.xfragment
[configfileupdate/example1] Added the contents of
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applicationResources-uptodate:

build-applicationResources:
[copy/example1] Copying 1 file to C:\Sandbox\MyExample\dist\classes
[configfileupdate/example1] Decomposing Config File :
C:\Sandbox\MyExample\dist\classes\ApplicationResources.properties
[configfileupdate/example1] Added the contents of ApplicationResources.pfragment
[configfileupdate/example1] Added the contents of ApplicationResources.pfragment
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validate-applicationResources:
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      [java] Validating the Properties File :
file:/C:/Sandbox/MyExample/dist/classes/ApplicationResources.properties

components-uptodate:

build-components:
[copy/example1] Copying 1 file to C:\Sandbox\MyExample\dist\classes\resources
[configfileupdate/example1] Decomposing Config File :
C:\Sandbox\MyExample\dist\classes\resources\components.xml
[configfileupdate/example1] Added the contents of ComponentDefinition.xfragment
[configfileupdate/example1] Added the contents of ComponentDefinition.xfragment
[configfileupdate/example1] Added the contents of ComponentDefinition.xfragment
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businessFunctions-uptodate:

build-businessFunctions:
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[copy/example1] Copying 1 file to C:\Sandbox\MyExample\dist\classes\resources
[configfileupdate/example1] Decomposing Config File :
C:\Sandbox\MyExample\dist\classes\resources\business-functions.xml
[configfileupdate/example1] Added the contents of BusinessFunctions.xfragment
[configfileupdate/example1] Added the contents of BusinessFunctions.xfragment
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war:
    [mkdir] Created dir: C:\Sandbox\MyExample\dist\war
      [war] Building war: C:\Sandbox\MyExample\dist\war\example1.war
      [war] jaffa/css/jaffa.css already added, skipping
      [war] jaffa/css/navigation.css already added, skipping
      [war] jaffa/css/widgets/button.css already added, skipping
      [war] jaffa/css/widgets/dropdown.css already added, skipping
      [war] jaffa/css/widgets/editbox.css already added, skipping
      [war] jaffa/css/widgets/foldingSection.css already added, skipping
      [war] jaffa/css/widgets/label.css already added, skipping
      [war] jaffa/css/widgets/lookup.css already added, skipping
      [war] jaffa/css/widgets/radiogroup.css already added, skipping
      [war] jaffa/css/widgets/tablesort.css already added, skipping
      [war] jaffa/css/widgets/texttag.css already added, skipping
      [war] jaffa/imgs/navigation/arrow.gif already added, skipping
      [war] jaffa/imgs/navigation/navBar.jpg already added, skipping
      [war] jaffa/imgs/navigation/navMenu.jpg already added, skipping
      [war] jaffa/jsp/tiles/desktopNav.jsp already added, skipping
      [war] jaffa/jsp/tiles/MainLayout.jsp already added, skipping

war-configure:
    [mkdir] Created dir: C:\Sandbox\MyExample\dist\war\config
    [unzip] Expanding: C:\Sandbox\MyExample\dist\war\example1.war into
C:\Sandbox\MyExample\dist\war\config
  [replace] Replaced 17 occurrences in 4 files.
[copy/example1] Copying 1 file to C:\Sandbox\MyExample\dist\war\config\WEB-
INF\classes
      [zip] Updating zip: C:\Sandbox\MyExample\dist\war\example1.war

initCore:
Overriding previous definition of reference to project.class.path

init:
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns
     [copy] Copying 1 file to C:\Sandbox\MyExample\source\java\patterns

copy-mysql-jar:
     [copy] Copying 1 file to C:\sandbox\jakarta-tomcat-4.1.29\common\lib

init:

deploy:
     [echo] Deploying Application
[delete/example1] Deleting: C:\sandbox\jakarta-tomcat-4.1.29\webapps\example1.war
[delete/example1] Deleting directory C:\sandbox\jakarta-tomcat-
4.1.29\webapps\example1
[copy/example1] Copying 1 file to C:\sandbox\jakarta-tomcat-4.1.29\webapps
[unzip/example1] Expanding: C:\Sandbox\MyExample\dist\war\example1.war into
C:\sandbox\jakarta-tomcat-4.1.29\webapps\example1

start:
     [echo] Starting Tomcat
     [exec] Using CATALINA_BASE:    c:\sandbox\jakarta-tomcat-4.1.29
```

```
[exec] Using CATALINA_HOME:   c:\sandbox\jakarta-tomcat-4.1.29
[exec] Using CATALINA_TMPDIR: c:\sandbox\jakarta-tomcat-4.1.29\temp
[exec] Using JAVA_HOME:       C:\j2sdk1.4.1_02
```