

JSR 352 Expert Group

Working Session
22 February 2012

Agenda

- Discussion: Job Parameters
- Discussion: Job Operations, including Launch
- Discussion: Runtime Configuration
- List for Next Meeting

Discussion: Job Parameters

- Must be possible to pass parameters to the job and its steps
- Must be a way to set defaults
- Must be a way to override defaults
- Must be a way to pass parameters when job is launched
- Must be a way to resolve properties from environment

Discussion: Job Parameters

- Proposal (annotation view)
- Job Properties – defaults
- Step Properties – defaults
- Overrides when composing Steps into Jobs
- Overrides when submitting (launching) jobs
- Resolution from environment

Discussion: Job Parameters

▣ Job Properties

```
@Job(name="Job1")  
@Properties({"key1=value1","key2=value2",...})  
public class MyJob { ... }
```

▣ Step Properties

```
@Step(name="Step1")  
@Properties({"key1=value1","key2=value2",...})  
public class MyStep { ... }
```

Discussion: Job Parameters

■ Overrides When Composing Steps Into Jobs

```
@Job(name="Job1")
@Properties({"key1=value1","key2=value2",...})
public class MyJob {

    @Step(name="Step1")
    @Properties({"key1=value1","key2=value2",...})
    MyStep _step;

}
```

Discussion: Job Parameters

■ Overrides When Submitting (Launching) Jobs

```
BatchContainer container= new BatchContainerImpl("config.xml");  
String[] properties= {"key1=value1", "key2=value2", ...}  
container.submit("Job1", properties);
```

Discussion: Launching Jobs

- BatchContainer is runtime object for interacting with jobs
 - submit (launching) – asynchronous execution
 - canceling
 - restarting
 - obtaining job results
- BatchContainer has configuration (xml)
- More than one instance of BatchContainer may exist, but in practice it is a singleton.

Discussion: Launching Jobs

```
public interface BatchContainer {  
  
    JobId submit(String jobName,String[] properties);  
    void cancel(JobId jobInstance);  
    void restart(JobId jobInstance);  
    JobResults getResults(JobId jobInstance);  
    void getJobLog(JobId jobInstance,Writer  
    jobLogWriter);  
  
}
```

Discussion: Runtime Configuration

- BatchContainer config file (xml)
 - List of plugin implementations:
 - TransactionManager
 - JobRepositoryManager
 - JobLogManager
 - ExecutionManager (i.e. task executor)
 - CommandLineHandler
 - Properties bags to configure each plugin

List for Next Meeting

- ▣ Readers/Writers
- ▣ Concurrency
- ▣ Future
 - ▣ Repeat
 - ▣ Metrics
 - ▣ Java EE