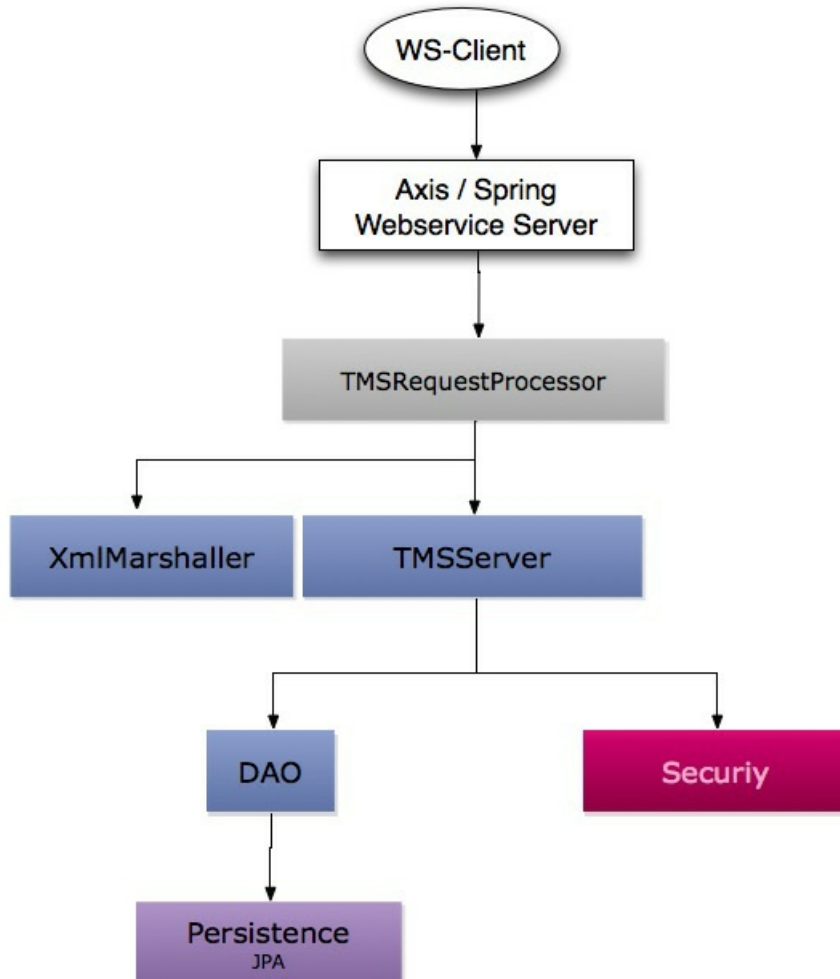


# Tempo b4p branch document


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Added by [Ark Xu](#), last edited by [Ark Xu](#) on Aug 20, 2009

## Architecture:



- TMSRequestProcessor**  
 TMSRequestProcessor is implementation of B4P Human Task Web service interface, which is strictly compliant with WS-HT spec version 1.0. (Except for xpath function)  
 TMSRequestProcessor is deployed in tempo-tms.xml as "tms.serviceImplementation", and running on axis2.  
 All ws-interface implemented by TMSProcessor was declared in tms/src/main/axis2/service.xml  
 What one interface impl of TMSRequestProcessor typically does is:
  1. check participant token (please see limitation)
  2. unmarshal ws request
  3. check request, throw IllegalArgumentException if failed
  4. call TMSServer to process request (operate task data, change status ...)
  5. marshal response
  6. convert to xml and return to client
- TMSServer**  
 Compared to TMSRequestProcessor that is responsible for processing request, TMSServer is responsible for implementing task operation logic.  
 What one TMSServer method does:
  1. do authentication, get user/role info from participant token.
  2. check permission for specific task operation, according to spec.
  3. check current task status, throw IllegalStateException if it's not relevant to specific task operation.
  4. call DAO, to update task data including task status. Throw B4PPersistException if failed.
- XmlMarshaller**  
 Located in tms-axis, generated by XMLBean tech.  
 Responsible for unmarshal webservice request and marshal response.
- DAO**  
 Located in tms-service, responsible for operating task data.  
 It will call openjpa entity class for task data.
- JPA**  
 JPA entity classes for data structure used in WS-HT, including task, attachment, status definition, comment and user/group OrganizationEntity...

## Scope and Limitation

1. Last phase of WS-HT dev implemented the task engine side functionality, defined in "Web Services Human Task (WS-HumanTask), Version 1.0 spec", including

1. Administrative operaton
2. Participant operation, (Except for getRenderingTypes and getRendering)
3. Simple query operation
4. Advanced query operation  
Tempo plays as Human Task Provider in constellation 4, described in b4p spec chapt 4.  
Tempo tms b4p dosen't substitute old tms task ws interface, it still works fine.

### 2. WS-Security

The WS-HT and b4p specification does not stipulate the authentication mechanism. We simply put participant token in soap header. Participant token is generated by tempo security.

### 2. ODE side

B4p extends the BEPEL schema to call human task, which needs to change ODE. This change doesn't happen in this version of tempo.

### 3. xpath function

xpath function is ODE related development, so is not done yet in this version.

### 4. Interoperable Protocol

Interoperable Protocol is responsible for communication between application and task engine, including creating task, skiping task ...

Interoperable Protocol is not implemented yet.

To work around, we use specific operation "create" to create task.

## Build Tempo b4p branch

1. Get branch source code from <http://github.com/intalio/tempo/tree/b4p>
2. Type  
>buildr package

## Test Tempo b4p ws-interface

1. buildr will run all unit test for b4p
2. After you deploy current tempo to bmpserver.. you can test ws-ht interface through <http://localhost:8080/ui-fw/b4ptest/test.html>.

## Comments

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