

## Infrastructure - Task #7846

Story # 7832 (In Progress): migrate from JibX to JAXB for XML binding / codegen

### set up types to use JAXB, add JAXB logic to TypeMarshaller

2016-07-16 17:21 - Rob Nahf

<b>Status:</b>	Closed	<b>Start date:</b>	2016-07-16
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Rob Nahf	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Story Points:</b>	
<b>Milestone:</b>	None		
<b>Product Version:</b>	*		
<b>Description</b>			
add annotations, ObjectFactory, package-info.java for each namespace (v1, v1_1, v2)			

#### Associated revisions

##### Revision 18215 - 2016-07-16 18:10 - Rob Nahf

refs: #7844, #7845, #7846. Added JAXB annotations and ObjectFactories, and refactored TypeMarshaller to use JAXB. JibX logic has not been removed yet (but is not used).

##### Revision 18250 - 2016-07-26 23:24 - Rob Nahf

refs #7846: refactored types to use new DateMarshallingAdapter. refs #7852: performance testing. Added Marshaller, Unmarshaller caching logic to TypeMarshaller for performance testing, as well as performance tests to TypeMarshallerTestCase.

#### History

##### #1 - 2016-07-16 17:44 - Rob Nahf

- Status changed from New to In Progress

- % Done changed from 0 to 30

used xjc to generate template class files  
copied annotations into existing class files in d1\_common\_java

Copied over the generated ObjectFactory and package-info classes into the d1\_common\_java.

The v1\_1 types were generated in the v1 package, but I kept our existing structure (types.v1, types.v1\_1, types.v2). This meant that I had to create a v1\_1 ObjectFactory by extracting methods related to v1\_1 classes from the v1.ObjectFactory.

The autogenerated classes did not create annotations for @XmlRootElement for most classes, which will have to be addressed for cloning. Also, ObjectFormatIdentifier was coded as a string, so needs some extra annotations to have it serialize properly.

XML dates were also mapped to XmlGregorianCalendar Java class, which I simplified to java.util.Date. Some special test will need to be made to make sure it was legit to do this without an adapter.

##### #2 - 2016-08-18 21:43 - Rob Nahf

- Status changed from In Progress to Closed
- % Done changed from 30 to 100
- translation missing: en.field\_remaining\_hours set to 0.0