

EDIT - task #2637

Check JodaTime and JAXB

09/29/2011 12:19 PM - Andreas Müller

Status:	New	Start date:	
Priority:	New	Due date:	
Assignee:	Andreas Müller	% Done:	0%
Category:	cdmlib	Estimated time:	0:00 hour
Target version:	Unassigned CDM tickets		
Severity:	minor		

Description

Check if JAXB works correctly with JodaTime.

The following came with the JodaTime mailing list:

I was converting some code to use a DateTime instead of a Date and a property has an @XmlElement annotation. Having apparently stumbled on to a web service, some Googling eventually found me <http://blog.bdoughan.com/2011/05/jaxb-and-joda-time-dates-and-times.html>

Is that kind of thing presently the recommended approach? Is there some semi-standard library we should be using or should I just roll my own marshaller?

Mark

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I've never used JAXB myself, nor have I heard of anyone doing an integration library, so that blog post is probably the state of the art.

Stephen

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The blog post covers the basics. If you don't control the Web Service and so can't add your annotations then there's a technique where you use "xjb" to modify the generated source that you create using wsimport.

One issue you will typically find is that there isn't really a "standard" when it comes to webservices - every webservice seems to be ever so slightly different to each other. Date Times with or without time and time zone is often a point of different despite the the "standards".

---XeroCustomBindings.xjb

```
<?xml version="1.0" encoding="UTF-8"?>
<jaxb:bindings xmlns:jaxb="http://java.sun.com/xml/ns/jaxb"
version="2.0" xmlns:xjc="http://java.sun.com/xml/ns/jaxb/xjc">
  <!-- Using bindings
    xjc -classpath
/Users/rperfect/IdeaProjects/DataZime/XeroClient/build/classes -p com.xero.domain -b XeroCustomBin
dings.xjb -d gen-src *.xsd
  -->
  <jaxb:globalBindings>
    <jaxb:javaType name="org.joda.time.DateTime"
xmlType="xs:date"
parseMethod="com.datazime.connector.xero.client.DateAdapter.parseDate"
printMethod="com.datazime.connector.xero.client.DateAdapter.printDate"
/>
    <jaxb:javaType name="org.joda.time.DateTime"
xmlType="xs:dateTime"/>
```

```

parseMethod="com.datazime.connector.xero.client.DateAdapter.parseDatetim
e"

printMethod="com.datazime.connector.xero.client.DateAdapter.printDatetim
e"
    />
    <xjc:simple />
    </jaxb:globalBindings>

</jaxb:bindings>

package com.datazime.connector.xero.client;

import org.joda.time.DateTime;
import org.joda.time.format.DateTimeFormat;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;

/**
 */
public class DateAdapter {

    private static final DateTimeFormatter XML_DATE_FORMAT = ISODateTimeFormat.dateTimeNoMillis();
    private static final DateTimeFormatter XML_DATE_TIME_FORMAT = ISODateTimeFormat.localDateOptio
nalTimeParser();

    private static final DateTimeFormatter DATE_PATTERN = DateTimeFormat.forPattern("yyyy-MM-dd'T'
HH:mm:ss.SSS");

    public static DateTime parseDatetime(String dateStr) {
        DateTime result = XML_DATE_TIME_FORMAT.parseDateTime(dateStr);
        return result;
    }

    public static String printDatetime(DateTime date) {
        String result = DATE_PATTERN.print(date);
        return result;
    }

    public static DateTime parseDate(String dateStr) {
        DateTime result = XML_DATE_FORMAT.parseDateTime(dateStr);
        return result;
    }

    public static String printDate(DateTime date) {
        String result = DATE_PATTERN.print(date);
        return result;
    }
}

```

History

#1 - 09/17/2021 05:16 PM - Andreas Müller

- Tags set to jaxb
- Description updated
- Target version changed from *cdmlib* - Old Next Major Release to Unassigned CDM tickets

#2 - 09/17/2021 05:16 PM - Andreas Müller

- Private changed from Yes to No