

#####

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#####

1.

(-- ##### --)

umsCodeGenerator##### #####
#####mapping definition #####
#umsCodeGenerator##### #####

1. #####
2. mapping definition ###
3. #####
4. #####
5. ###
mapping definition #####UMS##### ##### ##### mapping
definition #####

2. 1.

#####mapping definition #####
#####UMS#####

3. 2. mapping definition

###mapping definition ##### ##### ##### mapping definition #####

```
<grammar xmlns="http://ums.isas.jaxa.jp/0.4">  
  <start>  
    <java:class scope="abstract" name="XmlSample"  
      xmlns:java="http://ums.isas.jaxa.jp/0.4/java">  
      <defineVariables>  
        <java:var name="rec" class="Record"/>  
      </defineVariables>  
    </java:class>  
  </start>  
</grammar>
```

Note:

####trang ####schema/*.rng #compact syntax ##### Emacs/xml-mode ##### mapping definition #
validate #####

4. 3.

1

```
##### decode#encode #####mapping definition
#####mapping definition ##### ######XSLT
##### ######datatypeLibrary#####

##### main #####
#####
#####
```

5. 4. #####

```
##### mapping definition ##### mapping definition
##### XSLT #####mapping
definition # XSL #####
#####
##### RELAX NG ##### XSLT #####
<element name="a" />
# <xsl:foreach select="a" />
#####a#####XSLT #a#####
###varidation#####
<zeroOrMore>
    <element name="a" />
</zeroOrMore>
# <xsl:foreach select="a" />
<optional>
    <attribute name="@a" />
</optional>
# <xsl:if test="@a">####</xsl:if>
<choice/>
# <xsl:choose/>
<define name="xxx"/> # <ref name="xxx"/> ##
# <template name="xxx"/> # <call-template name="xxx"/> ##
### XSLT #####
<element name="a">
    <element name="b" />
    <element name="c" />
</element>
# <xsl:for-each select="a"><xsl:for-each
select="b" /></xsl:for-each>
# <xsl:for-each select="a"><xsl:for-each
```

#####

```
select="c" /></xsl:for-each>
```

```
##### XSLT #####
```

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:fo="http://www.w3.org/1999/XSL/Format"
xmlns:ums="http://ums.isas.jaxa.jp/0.4"
xmlns:java="http://ums.isas.jaxa.jp/0.4/java">
  <xsl:output method="text"/>
  <xsl:template match="/">
    <xsl:for-each select="ums:grammar">
      <xsl:for-each select="ums:start">
        <xsl:for-each select="java:class"><xsl:text></xsl:text>
          <xsl:if test="@scope">
            <xsl:value-of select="@scope"/>
            <xsl:text> </xsl:text>
          </xsl:if>class <xsl:value-of select="@name"/> {
            <xsl:for-each select="ums:defineVariables">
              <xsl:for-each select="java:var">
                <xsl:choose>
                  <xsl:when test="@type">
                    <xsl:value-of select="@type"/>
                  </xsl:when>
                  <xsl:when test="@class">
                    <xsl:value-of select="@class"/>
                  </xsl:when>
                </xsl:choose>
                <xsl:text> </xsl:text>
                <xsl:value-of select="@name"/>;
              </xsl:for-each>
            </xsl:for-each>
          }
        </xsl:for-each>
        </xsl:for-each>
      </xsl:for-each>
    </xsl:template>
</xsl:stylesheet>
```

6. 5.

```
##### XSLT ##### XSLT #####mapping definition #####
##### ##### ##### ##### ##### ##### ##### #####
```