

# oneOrMore ##

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## 1. 1#####

- #####1#####
- XML #####
- attribute## #####(attribute## # element##  
#####)#####
- attribute## #####
- grammar #####
- ##### externalRef  
#####
- #####

## 2. ##

### 2.1. lang:occurs ##

#### lang #####

- decode : #####
- encode : #####(encode #####)#

### 2.2. lang:occured ##

#### lang #####oneOrMore #####

- decode : #####
- encode : #####

## 3. ##

- optional#oneOrMore#zeroOrMore #####32####
- ref #####define/ref #####
- lang:occurs ####lang:occured #####
- lang:occurs ### 1 #####

## 4. ####

- ### #### #####
- interleave##, optional##, zeroOrMore## #####

## 5. ###

### 5.1. # 1: mapping ## (XML-XML syntax)

*oneOrMore ##*

#####1 ##### ## n #####

**decode ##**

```
<oneOrMore lang:occured="n">
  <dat:byte length="1">
    <lang:value-of select="i">
      <data type="int"/>
    </lang:value-of>
  </dat:byte>
  <callFunction expr="pushValue( i );"/>
</oneOrMore>
```

**encode ##**

```
<oneOrMore lang:occurs="n">
  <callFunction expr="i = popValue();"/>
  <dat:byte length="1">
    <lang:value-of select="i">
      <data type="int"/>
    </lang:value-of>
  </dat:byte>
</oneOrMore>
```

decode ##### n ##### encode ##### n #####

**5.2. # 2: mapping ## (XML-language syntax)**

# 1 #####

**decode ##**

```
<oneOrMore>
  <dat:byte length="1">
    <callFunction expr="pushValue( <data type="int"/> );"/>
  </dat:byte>
  n =
</oneOrMore>;
```

**encode ##**

```
<oneOrMore>
  = n;
  <dat:byte length="1">
    <data type="int"/> = <callFunction expr="popValue();"/>
  </dat:byte>
</oneOrMore>
```

**5.3. # 3: JAVA ## mapping ## (XML-language syntax)**

JAVA ## Iterator # Collection #####

**Iterator #### encode**

```
<oneOrMore>
  <lang:var class="Byte" name="b" interator="iterator">
    <dat:byte length="1">
      <data type="byte"/> = b.byteValue();
    </dat:byte>
  </lang:var>
</oneOrMore>
```

**List #### encode**

```
<oneOrMore>
  <lang:var class="Byte" name="b" collection="list">
    <dat:byte length="1">
      <data type="byte"/> = b.byteValue();
    </dat:byte>
  </lang:var>
</oneOrMore>
```

**List #### decode**

```
<oneOrMore>
  <dat:byte length="1">
    list.add( new Byte(<data type="byte"/> ) );
  </dat:byte>
</oneOrMore>
```

#####

**6. #####**

**6.1. ## 1: ##### oneOrMore##**

##### oneOrMore## ##### oneOrMore## #####

**#1**

```
<oneOrMore>
  <ref name="a" />
</oneOrMore>
<oneOrMore>
  <ref name="b" />
</oneOrMore>
```

**#2**

```
<oneOrMore>
  <ref name="a" />
```

oneOrMore ##

```
<ref name="b" />
</oneOrMore>
```

#1####a#1#####b#1#####

(aa...bb...)#####2####a#b#####1##### (abab...)#####

## 6.2. ## 2: #####

- choice##, interleave## #####
- oneOrMore## #####choice##, interleave## #####

## 7. ####

- James Clark and Makoto Murata, ISO/IEC FDIS 19757-2 Document Schema Definition Language (DSDL) -- Part 2: Regular-grammar-based validation -- RELAX NG
- ## #, #oneOrMore## @ #### RELAX NG ###