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RELAX Quick Reference

Your entire specification must be wrapped in a <module>

In the tables below, items in gray like this are optional. Items in italics *like this* indicate values that depend upon your particular application.

Specifying Elements

To specify:	RELAX
An empty element Note: all element rules may have a label. If omitted, it has the same value as the role	<pre><elementrule label="name2" role="name"> <empty></empty> </elementrule></pre>
Element with no sub-elements	<pre><elementrule role="name" type="datatype"></elementrule></pre>

Element with constraints on content	
Element with constraints on content	<pre><elementrule role="name" type="datatype"></elementrule></pre>
	<pre><elementrule role="age" type="integer"> <mininclusive value="18"></mininclusive> <maxinclusive value="65"></maxinclusive> </elementrule></pre>
Element with a single sub-element	<pre><elementrule role="name"> <ref label="sub-element/> </elementRule></pre></td></tr><tr><td>Element with sub-elements that must occur in a particular order The occurs= attribute can have one of the following values: * occurs zero or more times + occurs one or more times ? occurs zero or one times</td><td><pre><elementRule role=" name"=""></ref></elementrule></pre>
Element with sub-elements that may appear in any order	<pre><elementrule role="name"></elementrule></pre>
Mixed content element (element can contain text that is not within any of the sub-elements) The <mixed> element may enclose a <sequence> or <choice> as above.</choice></sequence></mixed>	<pre><elementrule role="name"> <mixed></mixed></elementrule></pre>
A content model for re-use by other elements: Hedge rules may refer to other hedge rules, but may not have mixed content or data types.	<pre><hedgerule label="hedge-rule-label"> <!-- content model as in elementRule--> </hedgerule></pre>
Reference to a <hedgerule> You may intersperse <ref> and <hedgeref> as required when defining an element's content.</hedgeref></ref></hedgerule>	<pre><elementrule role="name"> <hedgeref label="hedge-rule-label"></hedgeref> </elementrule></pre>

Specifying Tags

Each element in a document is associated with tag. The role= in an <elementRule> matches the tag name.

To specify:	RELAX
A tag with no attributes All tags may have a role, which, if omitted, is given the same value as the label	<tag label="name" role="tag-role"></tag>
A tag with attributes You may specify that an attribute is required, or that it has a particular data type, or both.	<pre><tag label="name"> <attribute name="attr-name-1"></attribute> <attribute name="attr-name-2" required="true"></attribute> <attribute name="attr-name-3" type="datatype"></attribute> <attribute name="attr-name-4" required="true" type="datatype"></attribute> </tag></pre>
Constraint on an attribute	<pre><tag label="name"></tag></pre>
A set of attributes for re-use by other tags:	<attpool role="pool-label"> <!-- list of attributes as in tag--> </attpool>
Reference to an <attpool> You may intersperse <ref> and <attribute> as required when defining a tag's attributes.</attribute></ref></attpool>	<tag label="name"> <ref role="pool-label"></ref> </tag>

Context Sensitivity

To make an element's content model dependent upon the element in which it is nested:

- 1. Define two <elementRule> models with the same role but different labels.
- 2. Other <elementRule>s may now contain the desired sub-element by referring to the appropriate label.

To make an element's content model dependent upon the value of its tag's attribute:

- 1. Define two <elementRule> models with the same label but different roles.
- 2. Create <tag>s with identical names. Each of these will refer to the appropriate role defined in step one, and have an <attribute> to differentiate them.

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