

ECP 2006 DILI 510049

ENRICH

TEI Specification for ENRICH

Deliverable number	<i>D-3.1</i>
Dissemination level	<i>Public</i>
Delivery date	<i>1 December 2008</i>
Status	<i>Revision 2</i>
Author(s)	<i>Lou Burnard, James Cummings, Sebastian Rahtz</i>



eContentplus

This project is funded under the *eContentplus* programme¹,
a multiannual Community programme to make digital content in Europe more accessible, usable and
exploitable.

¹ OJ L 79, 24.3.2005, p. 1.

Document Version Control

Version	Date	Change Made (and if appropriate reason for change)	Initials of Commentator(s) or Author(s)
0	4 Jul 08	Discussion draft	LB
1	1 Aug 08	Revised after comments from AIP	LB
2	12 Dec 08	Final revisions after Paris meeting	LB

Document Review

Reviewer	Institution	Date and result of the review

Approved By (signature)	Date

Accepted by at European Commission (signature)	Date



1 Executive Summary

This document defines an XML format for the structure of the data which all ENRICH partners will contribute to the Manuscriptorium, either directly or indirectly by means of a harvester or transformation process. It is an application of the TEI Release P5, according to the specification instantiated by the ENRICH ODD.

The schema defined by this document addresses three distinct aspects of a digitized manuscript:

- metadata describing the original source manuscript
- metadata describing digitized images of the original source manuscript
- a transcription of the text contained by the original source manuscript

Within Manuscriptorium, only the first two are required. However, the schema documented here also provides for the third, in the interest of completeness and for the assistance of ENRICH partners wishing to provide richer access facilities to their holdings.

The schema defined by this document is available in [DTD](#), [RelaxNG](#), and [W3C Schema](#) formats from the ENRICH website at the address <http://enrich.manuscriptorium.com/index.php?q=node/34>)

The MASTER and MASTER-X specifications both defined comparatively unconstrained XML formats, which permitted a very wide range of possibilities and did not attempt to constrain (for example) values to any predefined set of values. While appropriate for an interchange format, this approach has some drawbacks.

- there may be wide variation in approaches taken to represent essentially the same phenomenon (e.g.)
- the format appears over complex to novice users, who will only ever want to use a very small subset of the possible tags
- developing software (e.g. stylesheets) for the format becomes unnecessarily complex, since every possibility must be allowed for even though it is unlikely to appear
- accurate searching of the data may be needlessly complicated by the large number of ways of representing e.g. attribute values such as dates

For ENRICH, therefore, we propose to reduce the number of choices and to constrain attribute values where possible. It should be stressed however that

- the resulting schema must remain TEI Conformant: we are only defining a subset
- no constraints will be introduced without full consent from all partners in the project

The overall structure of an ENRICH-conformant XML document may be summarized as follows:

```
<TEI
  xmlns:s="http://www.ascc.net/xml/schematron">
```

```

<teiHeader>
<!-- ... metadata describing the manuscript -->
</teiHeader>
<facsimile>
<!-- ... metadata describing the digital images -->
</facsimile>
<text>
<!-- (optional) transcription of the manuscript -->
</text>
</TEI>

```

In Deliverable D3.2, we provide full user-level documentation for the ENRICH encoding scheme. This documentation is generated from the P5 release of the TEI Guidelines together with some revised descriptive material. In the present document we summarize how the TEI P5 Release has been customized.

2 Customization Section

We include in the schema the four basic key TEI modules header, core, tei, and textstructure. We also include five specialized modules: msdescription, linking, namesdates, figures, and transr.

All the elements and attributes defined by these modules are included in the ENRICH schema, with the following modifications. Firstly, several unwanted elements are deleted. Secondly, some optional attributes have been made compulsory, and their range of possible values are constrained. Finally, the content model for a small number of elements has been simplified to remove unwanted alternatives.

The following elements are deleted: <ab>, <alt>, <altGrp>, <analytic>, <appInfo>, <application>, <biblFull>, <biblStruct>, <binaryObject>, <broadcast>, <cRefPattern>, <cell>, <cit>, <climate>, <correction>, <distinct>, <email>, <emph>, <equipment>, <equiv>, <fsdDecl>, <headItem>, <headLabel>, <hyphenation>, <imprint>, <interpretation>, <join>, <joinGrp>, <link>, <linkGrp>, <listNym>, <measure>, <measureGrp>, <meeting>, <mentioned>, <metDecl>, <metSym>, <monogr>, <msItemStruct>, <namespace>, <normalization>, <num>, <nym>, <postBox>, <postCode>, <q>, <quotation>, <recording>, <recordingStmnt>, <refsDecl>, <rendition>, <row>, <rs>, <said>, <samplingDecl>, <scriptStmnt>, <segmentation>, <series>, <soCalled>, <sp>, <speaker>, <stage>, <state>, <stdVals>, <street>, <table>, <tagUsage>, <tagsDecl>, <teiCorpus>, <terrain>, <time>, <timeline>, <variantEncoding>, <when>.

The att.global.linking class is also deleted, since we anticipate no need for complex pointing mechanisms.

On the <altIdentifier> element, the type attribute is compulsory, and must take one of the following values: former; partial; internal; system; other

On the <availability> element, the status attribute is compulsory, and must take one of the following values: free; unknown; restricted.

On the <biblScope> element, the type attribute is compulsory, and must take one of the following values: volume; pages.

On the <custEvent> element, the type attribute is compulsory, and must take one of the following values: check; conservation; description; exhibition; loan; photography; other.

On the <decoNote> element, the type attribute is compulsory, and must take one of the following values: border; diagram; initial; marginal; miniature; mixed; paratext; secondary; other; illustration; printmark; publishmark; vignette; frieze; map; unspecified.

On the <dimensions> element, the type attribute is compulsory, and must take one of the following values: leaf; binding; slip; written; boxed; unknown.

On the <gap> element, the reason attribute is compulsory, and must take one of the following values: damage; illegible; cancelled; irrelevant.

On all members of the att.dimensions class, the unit attribute is compulsory, and must take one of the following values: chars; leaves; lines; mm; pages; words. The precision attribute is removed.

On the <handNote> element, the script attribute is compulsory, and must take one of the following values: carolmin; textualis; cursiva; hybrida; humbook; humcursiva; other.

On the <handNote> element, the scope attribute is compulsory, and must take one of the following values: sole; major; minor.

On the <hi> element, the rend attribute is compulsory, and must take one of the following values: hyphenated; underline; double-underline; bold; caps; italic; sup; rubric.

On the <layout> element, the columns attribute is compulsory, and must take a numeric value.

On the <msDesc> element, the xml:id attribute is compulsory, and must be a valid XML identifier.

On the <msDesc> element, the xml:lang attribute is compulsory, and must be a valid ISO 639 language code.

On the <name> element, the type attribute is compulsory, and must take one of the following values: person; place; org; unknown.

On the <objectDesc> element, the form attribute is compulsory, and must take one of the following values: codex; leaf; scroll; other.

On the <person> element, the sex attribute is compulsory, and must be one of 1 (male), 2 (female), 0 (inapplicable), or 9 (unknown).

On the <region> element, the type attribute is compulsory, and must take one of the following values: parish; county; compass; geog; state; unknown.

On the <supplied> element, the reason attribute is compulsory, and must take one of the following values: omitted; illegible; damage; unknown.

On the <supportDesc> element, the material attribute is compulsory, and must take one of the following values: perg; chart; mixed; unknown.

The following changes do not affect TEI conformance since either they affect only optional parts of TEI content models or they involve additional value constraints for TEI attributes:

- On the <textLang> element, the mainLang attribute is compulsory, and must take a legal character identifier as value.

- The optional elements `xml:id` and `xml:lang` are made mandatory for the `<msDesc>` element.
- The content model of the `date` element is changed to include a schematron rule which enforces an appropriate selection of attributes (one of: `when`, `to` and `from`, or `notAfter` and `notBefore`)
- The content model of the `recordHist` element is changed to remove the possibility of including the `<change>` element here.

In all other respects, the ENRICH schema uses the TEI P5 definitions unchanged. The constraints described informally above are expressed formally by the ENRICH ODD file reproduced in Appendix 1. From this ODD file, we generate both multilingual documentation and schema files in RELAXNG, W3C Schema, and DTD. These files are all available for download from the project website (see <http://enrich.manuscriptorium.com/index.php?q=node/34>)

2.1 Appendix 1

```

<!-- select modules -->

<schemaSpec ident="enrich" start="TEI msDesc">
  <moduleRef key="header"/>
  <moduleRef key="core"/>
  <moduleRef key="tei"/>
  <moduleRef key="textstructure"/>
  <moduleRef key="msdescription"/>
  <moduleRef key="linking"/>
  <moduleRef key="namesdates"/>
  <moduleRef key="figures"/>
  <moduleRef key="transcr"/>
  <moduleRef key="gaiji"/>

<!-- delete uninteresting classes -->

<classSpec ident="att.global.linking" mode="delete" type="atts"/>
<classSpec ident="att.dataable.iso" type="atts" mode="delete"/>
<classSpec ident="model.addrPart" type="model" mode="delete"/>

<!-- delete unwanted elements -->

<elementSpec module="core" ident="address" mode="delete"/>
<elementSpec module="core" ident="analytic" mode="delete"/>
<elementSpec module="core" ident="biblFull" mode="delete"/>
<elementSpec module="core" ident="biblStruct" mode="delete"/>
<elementSpec module="core" ident="binaryObject" mode="delete"/>
<elementSpec module="core" ident="cit" mode="delete"/>
<elementSpec module="core" ident="distinct" mode="delete"/>
<elementSpec module="core" ident="email" mode="delete"/>
<elementSpec module="core" ident="emph" mode="delete"/>
<elementSpec module="core" ident="equiv" mode="delete"/>
<elementSpec module="core" ident="headItem" mode="delete"/>
<elementSpec module="core" ident="headLabel" mode="delete"/>
<elementSpec module="core" ident="imprint" mode="delete"/>
<elementSpec module="core" ident="measure" mode="delete"/>
<elementSpec module="core" ident="measureGrp" mode="delete"/>
<elementSpec module="core" ident="meeting" mode="delete"/>

```

```

<elementSpec module="core" ident="mentioned" mode="delete"/>
<elementSpec module="core" ident="monogr" mode="delete"/>
<elementSpec module="core" ident="num" mode="delete"/>
<elementSpec module="core" ident="postBox" mode="delete"/>
<elementSpec module="core" ident="postCode" mode="delete"/>
<elementSpec module="core" ident="refsDecl" mode="delete"/>
<elementSpec module="core" ident="rs" mode="delete"/>
<elementSpec module="core" ident="said" mode="delete"/>
<elementSpec module="core" ident="series" mode="delete"/>
<elementSpec module="core" ident="soCalled" mode="delete"/>
<elementSpec module="core" ident="sp" mode="delete"/>
<elementSpec module="core" ident="speaker" mode="delete"/>
<elementSpec module="core" ident="stage" mode="delete"/>
<elementSpec module="core" ident="street" mode="delete"/>
<elementSpec module="core" ident="teiCorpus" mode="delete"/>
<elementSpec module="core" ident="time" mode="delete"/>
<elementSpec module="figures" ident="table" mode="delete"/>
<elementSpec module="figures" ident="cell" mode="delete"/>
<elementSpec module="figures" ident="row" mode="delete"/>
<elementSpec module="header" ident="appInfo" mode="delete"/>
<elementSpec module="header" ident="application" mode="delete"/>
<elementSpec module="header" ident="broadcast" mode="delete"/>
<elementSpec module="header" ident="correction" mode="delete"/>
<elementSpec module="header" ident="cRefPattern" mode="delete"/>
<elementSpec module="header" ident="equipment" mode="delete"/>
<elementSpec module="header" ident="fsdDecl" mode="delete"/>
<elementSpec module="header" ident="hyphenation" mode="delete"/>
<elementSpec module="header" ident="interpretation" mode="delete"/>
<elementSpec module="header" ident="metDecl" mode="delete"/>
<elementSpec module="header" ident="metSym" mode="delete"/>
<elementSpec module="header" ident="namespace" mode="delete"/>
<elementSpec module="header" ident="normalization" mode="delete"/>
<elementSpec module="header" ident="quotation" mode="delete"/>
<elementSpec module="header" ident="recording" mode="delete"/>
<elementSpec module="header" ident="recordingStmt" mode="delete"/>
<elementSpec module="header" ident="rendition" mode="delete"/>
<elementSpec module="header" ident="samplingDecl" mode="delete"/>
<elementSpec module="header" ident="scriptStmt" mode="delete"/>
<elementSpec module="header" ident="segmentation" mode="delete"/>
<elementSpec module="header" ident="state" mode="delete"/>
<elementSpec module="header" ident="stdVals" mode="delete"/>
<elementSpec module="header" ident="tagUsage" mode="delete"/>
<elementSpec module="header" ident="tagsDecl" mode="delete"/>
<elementSpec module="header" ident="variantEncoding" mode="delete"/>
<elementSpec module="linking" ident="ab" mode="delete"/>
<elementSpec module="linking" ident="alt" mode="delete"/>
<elementSpec module="linking" ident="altGrp" mode="delete"/>
<elementSpec module="linking" ident="join" mode="delete"/>
<elementSpec module="linking" ident="joinGrp" mode="delete"/>
<elementSpec module="linking" ident="link" mode="delete"/>
<elementSpec module="linking" ident="linkGrp" mode="delete"/>
<elementSpec module="linking" ident="timeline" mode="delete"/>
<elementSpec module="linking" ident="when" mode="delete"/>
<elementSpec module="msdescription" ident="msItemStruct" mode="delete"/>
<elementSpec module="namesdates" ident="climate" mode="delete"/>
<elementSpec module="namesdates" ident="listNym" mode="delete"/>
<elementSpec module="namesdates" ident="nym" mode="delete"/>
<elementSpec module="namesdates" ident="terrain" mode="delete"/>
<elementSpec module="textstructure" ident="argument" mode="delete"/>
<elementSpec module="textstructure" ident="byline" mode="delete"/>
<elementSpec module="textstructure" ident="closer" mode="delete"/>

```

```

<elementSpec module="textstructure" ident="dateline" mode="delete"/>
<elementSpec module="textstructure" ident="div1" mode="delete"/>
<elementSpec module="textstructure" ident="div2" mode="delete"/>
<elementSpec module="textstructure" ident="div3" mode="delete"/>
<elementSpec module="textstructure" ident="div4" mode="delete"/>
<elementSpec module="textstructure" ident="div5" mode="delete"/>
<elementSpec module="textstructure" ident="div6" mode="delete"/>
<elementSpec module="textstructure" ident="div7" mode="delete"/>
<elementSpec module="textstructure" ident="docDate" mode="delete"/>
<elementSpec module="textstructure" ident="epigraph" mode="delete"/>
<elementSpec module="textstructure" ident="floatingText" mode="delete"/>
<elementSpec module="textstructure" ident="imprimatur" mode="delete"/>
<elementSpec module="textstructure" ident="opener" mode="delete"/>
<elementSpec module="textstructure" ident="postscript" mode="delete"/>
<elementSpec module="textstructure" ident="salute" mode="delete"/>
<elementSpec module="textstructure" ident="signed" mode="delete"/>
<elementSpec module="textstructure" ident="trailer" mode="delete"/>

<!-- constrain attribute values for several elements and also supply defaults -->

<elementSpec ident="biblScope" mode="change" module="core">
<attList>
<attDef ident="type" mode="change" usage="req">
<defaultVal>pages</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="volume"/>
<valItem ident="pages"/>
</valList>
</attDef>
</attList>
</elementSpec>

<elementSpec ident="gap" mode="change" module="core">
<attList>
  <attDef ident="reason" mode="change" usage="req">
<desc>gives the reason for omission of this material from the
transcription.</desc>
<defaultVal>irrelevant</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="damage"><desc>medium is damaged</desc></valItem>
<valItem ident="illegible"><desc>material cannot be reliably
read</desc></valItem>
<valItem ident="cancelled"><desc>material can be read but has been cancelled
by scribe</desc></valItem>
<valItem ident="irrelevant"><desc>material is not regarded as relevant by
the transcriber</desc></valItem>
<valItem ident="omitted"><desc>material omitted by transcriber</desc></valItem>
<valItem ident="lacuna"><desc>material missing from the source</desc></valItem>
</valList>
  </attDef>
  <attDef ident="unit" mode="change" usage="opt">
<desc>names the unit used for describing the extent of the gap</desc>
<valList type="closed" mode="replace">
  <valItem ident="chars"><desc>written characters</desc></valItem>
  <valItem ident="leaves"><desc>leaves</desc></valItem>
  <valItem ident="lines"><desc>lines</desc></valItem>
  <valItem ident="mm"><desc>millimetres</desc></valItem>
  <valItem ident="pages"><desc>pages</desc></valItem>
  <valItem ident="words"><desc>words</desc></valItem>
</valList>

```



```

<!-- no default!! -->
  </attDef>
</attList>
</elementSpec>

<elementSpec ident="hi" mode="change" module="core">
<attList>
<attDef ident="rend" mode="change" usage="req">
<valList type="closed" mode="replace">
<valItem ident="hyphenated"/>
<valItem ident="underline"/>
<valItem ident="double-underline"/>
<valItem ident="bold"/>
<valItem ident="caps"/>
<valItem ident="italic"/>
<valItem ident="sup"/>
<valItem ident="rubric"/>
</valList>
</attDef>
</attList>
</elementSpec>

<elementSpec ident="name" mode="change" module="core">
<attList>
<attDef ident="type" mode="change" usage="req">
<defaultVal>unknown</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="person"/>
<valItem ident="place"/>
<valItem ident="org"/>
<valItem ident="unknown"/>
</valList>
</attDef>
</attList>
</elementSpec>

<elementSpec ident="handNote" mode="change" module="msdescription">
<attList>
  <attDef ident="script" mode="change" usage="req">
<defaultVal>other</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="carolmin"/>
<valItem ident="textualis"/>
<valItem ident="cursiva"/>
<valItem ident="hybrida"/>
<valItem ident="humbook"/>
<valItem ident="humcursiva"/>
<valItem ident="other"><desc>script other than one of these</desc></valItem>
<valItem ident="unknown"><desc>script information not available</desc></valItem>
</valList>
</attDef>
<attDef ident="scope" mode="change" usage="req">
<defaultVal>sole</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="sole"/>
<valItem ident="major"/>
<valItem ident="minor"/>
</valList>
</attDef>
</attList>

```

```

</elementSpec>

<elementSpec ident="altIdentifier" module="msdescription" mode="change">
<attList>
  <attDef ident="type" mode="change" usage="req">
<defaultVal>other</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="former"><desc>former catalogue or shelf number</desc></valItem>
<valItem ident="system"><desc>former system identifier
(Manuscriptorium specific)</desc></valItem>
<valItem ident="partial"><desc>identifier of a previously distinct
item</desc></valItem>
<valItem ident="internal"><desc>internal project identifier</desc></valItem>
<valItem ident="other"><desc>unspecified</desc></valItem>
</valList>

  </attDef>
</attList>
</elementSpec>

<elementSpec ident="availability" mode="change" module="header">
<attList>
  <attDef ident="status" mode="change" usage="req">
<defaultVal>unknown</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="free"/>
<valItem ident="unknown"/>
<valItem ident="restricted"/>
  </valList>
  </attDef>
</attList>
</elementSpec>

<elementSpec ident="textLang" mode="change" module="msdescription">
<attList>
  <attDef ident="mainLang" mode="change" usage="req"/>
</attList>
</elementSpec>

<elementSpec ident="objectDesc" mode="change" module="msdescription">
<attList>
<attDef ident="form" mode="change" usage="req">
<defaultVal>codex</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="codex"><desc>a bound codex</desc></valItem>
<valItem ident="leaf"><desc>a loose leaf</desc></valItem>
<valItem ident="scroll"><desc>a scroll</desc></valItem>
<valItem ident="other"><desc>any other format</desc></valItem>
</valList>
</attDef></attList>
</elementSpec>

<elementSpec ident="supportDesc" mode="change" module="msdescription">
<attList>
  <attDef ident="material" mode="change" usage="req">
<defaultVal>unknown</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="perg"><desc>parchment</desc></valItem>
<valItem ident="chart"><desc>paper</desc></valItem>
<valItem ident="mixed"><desc>mixture of paper and parchment, or other
materials</desc></valItem>

```

```

<valItem ident="unknown"/>
  </valList>
</attDef>
</attList>
</elementSpec>

<elementSpec ident="layout" mode="change" module="msdescription">
<attList>
  <attDef ident="columns" mode="change" usage="req">
    <datatype minOccurs="1" maxOccurs="2">
      <rng:ref name="data.count"/>
    </datatype>
  </attDef>
</attList>
</elementSpec>

<elementSpec ident="msDesc" mode="change" module="msdescription">
<attList>
  <attDef ident="xml:id" mode="change" usage="req"/>
  <attDef ident="xml:lang" mode="change" usage="req">
    <defaultVal>en</defaultVal>
  </attDef>
</attList>
</elementSpec>

<elementSpec ident="decoNote" mode="change" module="msdescription">
<attList>
  <attDef ident="type" mode="change">
<defaultVal>other</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="border"/>
<valItem ident="diagram"/>
<valItem ident="initial"/>
<valItem ident="marginal"/>
<valItem ident="miniature"/>
<valItem ident="mixed"/>
<valItem ident="paratext"/>
<valItem ident="secondary"/>
<valItem ident="other"/>
<valItem ident="illustration"/>
<valItem ident="printmark"/>
<valItem ident="publishmark"/>
<valItem ident="vignette"/>
<valItem ident="frieze"/>
<valItem ident="map"/>
<valItem ident="unspecified"/>
  </valList>
  </attDef>
</attList>
</elementSpec>

<elementSpec ident="custEvent" mode="change" module="msdescription">
<attList>
  <attDef ident="type" mode="change" usage="req">
<defaultVal>other</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="check"/>
<valItem ident="conservation"/>
<valItem ident="description"/>
<valItem ident="exhibition"/>
<valItem ident="loan"/>

```

```

<valItem ident="photography"/>
<valItem ident="other"/>
  </valList>

  </attDef>

</attList>
</elementSpec>

<elementSpec ident="person" mode="change" module="namesdates">
<attList>
  <attDef ident="sex" mode="change" usage="req">
    <defaultVal>0</defaultVal>
  </attDef>
</attList>
</elementSpec>

<classSpec ident="att.dimensions" mode="change" type="atts">
<attList>
<attDef mode="delete" ident="precision"/>
<attDef mode="change" ident="unit">
<defaultVal>mm</defaultVal>
<valList type="closed" mode="replace">
<valItem ident="cm"/>
<valItem ident="mm"/>
<valItem ident="in"/>
<valItem ident="lines"/>
<valItem ident="chars"/>
</valList></attDef></attList>
</classSpec>

<elementSpec ident="dimensions" mode="change" module="msdescription">
<attList>
  <attDef ident="type" mode="change" usage="req">
<defaultVal>unknown</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="leaf"/>
<valItem ident="binding"/>
<valItem ident="slip"/>
<valItem ident="written"/>
<valItem ident="boxed"/>
<valItem ident="unknown"/>

  </valList>
  </attDef>
</attList>
</elementSpec>

<elementSpec ident="region" mode="change" module="namesdates">
<attList>
  <attDef ident="type" mode="change" usage="req">
<defaultVal>unknown</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="parish"/>
<valItem ident="county"/>
<valItem ident="compass"/>
<valItem ident="geog"/>
<valItem ident="state"/>

```

```

<valItem ident="unknown"/>
  </valList>
</attDef>
</attList>
</elementSpec>

<elementSpec ident="supplied" mode="change" module="transcr">
<attList>
  <attDef ident="reason" mode="change" usage="req">
<defaultVal>unknown</defaultVal>
  <valList type="closed" mode="replace">
<valItem ident="omitted"/>
<valItem ident="illegible"/>
<valItem ident="damage"/>
<valItem ident="unknown"/>
  </valList>
  </attDef>
</attList>
</elementSpec>

<!-- constrain date attributes -->

<elementSpec ident="date" mode="change" module="core">
<content>
<s:pattern name="date_values">
  <s:rule context="tei:date">
    <s:assert test="@when or (@notAfter and @notBefore) or
(@from and @to)">
      You must provide either @when or @to/@from, or
@notAfter/@notBefore.</s:assert>
    </s:rule>
  </s:pattern>

</content>
</elementSpec>

<!-- remove optional global attribute we don't want to use -->

  <classSpec ident="att.global" type="atts" mode="change" module="tei">
    <attList>
<attDef ident="rendition" mode="delete"/>
    </attList>
  </classSpec>

<!-- remove stupid (non-mandatory) elements we dont want in this place -->
<!-- remove option of change within history -->

<elementSpec xmlns:rng="http://relaxng.org/ns/structure/1.0"
  module="msdescription" ident="recordHist" mode="change">

  <content>
    <rng:choice>
      <rng:oneOrMore>
        <rng:ref name="model.pLike"/>
      </rng:oneOrMore>
      <rng:ref name="source"/>
    </rng:choice>
  </content>

```

```

</elementSpec>

<!-- HERE BE DIRTY STUFF WHICH SHOULD BE IN ITS OWN NAMESPACE
      BUT WHICH IS ALREADY SCHEDULED FOR INCLUSION IN NEXT P5 RELEASE-->

<!-- add origPlace to att.typed -->

<elementSpec ident="origPlace" module="msdescription" mode="change">
<classes mode="change">
  <memberOf key="att.typed"/>
  <memberOf key="att.datable"/>
  <memberOf key="att.editLike"/>
  <memberOf key="model.pPart.msdesc"/>
</classes>
</elementSpec>

<!-- permit titlepage inside msContents -->
<elementSpec ident="msContents" module="msdescription" mode="change">
  <content>
    <rng:choice xmlns:rng="http://relaxng.org/ns/structure/1.0">
      <rng:oneOrMore>
        <rng:ref name="model.pLike"/>
      </rng:oneOrMore>
      <rng:group>
        <rng:optional>
          <rng:ref name="summary"/>
        </rng:optional>
        <rng:optional>
          <rng:ref name="textLang"/>
        </rng:optional>
        <rng:optional>
          <rng:ref name="titlePage"/>
        </rng:optional>
        <rng:zeroOrMore>
          <rng:ref name="msItem"/>
        </rng:zeroOrMore>
      </rng:group>
    </rng:choice>
  </content>
</elementSpec>

<!-- change wording of desc to be less confusing -->
<elementSpec ident="surrogates" mode="change" module="msdescription">
<desc>contains information about any non-digital representations of the
manuscript being described which may exist in the holding institution or
elsewhere.
</desc></elementSpec>

</schemaSpec>

```