

```

<!--
  Index DTD

  This model accommodates print and electronic publications.
  It is meant as a guide toward deriving an appropriate DTD for a
  specific site or publication.

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-->

<!ELEMENT index
  ( info?, body )
>
<!ATTLIST index
      id      CDATA      #REQUIRED
      type    CDATA      #REQUIRED
>

<!--
  publication.info (used next) is not defined here.
  It represents any necessary tags and data for release and/or
  coverage information,
  metadata, editor name, other internal and production info, etc.
  These will vary according to a site's requirements.
-->
<!ELEMENT info
  ( title , head.notes, publication.info )
>

<!ELEMENT body
  ( group+
    | level+
  )
>

<!--
  formatting.tags is not defined here.
  It represents any necessary tags for paragraphs, bold/italics, etc.
  These will vary according to a site's requirements.
-->
<!ELEMENT title
  ( #PCDATA
    | formatting.tags
  )*
>

<!ELEMENT head.notes
  ( #PCDATA
    | formatting.tags
  )*
>

<!ELEMENT group
  ( text , level+ )
>
<!ATTLIST group
      id      CDATA      #REQUIRED
>

<!--

```

This model allows for run-in headings.

If not necessary, the line with run-in.list in this definition of level can be removed.

```
-->
<!ELEMENT level
  ( text ,
    ( locator+ ,
      ( level+
        | ( see.also+ , level+ )
        | ( ed.note , level* )
        | run-in.list
      )?
    )
    | ( ed.note , level* )
    | ( see+ , level* )
    | ( see.also+ , level+ )
    | level+
  )
)
>
<!ATTLIST level
  number      CDATA      #REQUIRED
  id          CDATA      #REQUIRED
)
>

<!ELEMENT text
  ( #PCDATA
    | formatting.tags
  )*
)
>

<!ELEMENT ed.note
  ( #PCDATA
    | formatting.tags
  )*
)
>

<!--
  For print publications, the citation tag is not necessary.
-->
<!ELEMENT locator
  ( #PCDATA
    | formatting.tags
    | cite
  )*
)
>

<!--
  The values of the ref attribute will vary according to a site's
  requirements.
-->
<!ELEMENT cite
  ( #PCDATA
    | formatting.tags
  )*
)
>
<!ATTLIST cite
  ref      CDATA      #REQUIRED
)
>

<!ELEMENT see.also
  ( #PCDATA
```

```

    | cross
    | emph
  )*
>

<!ELEMENT see
  ( #PCDATA
    | cross
    | formatting.tags
  )*
>

<!ELEMENT cross
  ( #PCDATA
    | formatting.tags
  )*
>
<!ATTLIST cross
  ref      CDATA      #REQUIRED
>

<!ELEMENT run-in.list
  ( text , locator+ )+
>

<!--

```

NOTES:

1. These definitions need to be integrated into the DTD for the whole publication.
 

This will likely cause some changes to element names which must be unique.

Additionally, some elements defined outside these definitions likely need to be included in these definitions replacing the instances of formatting.tags above.

Examples are: emphasis, citation tags, graphics, links, or special characters.
2. Nonetheless, indexes can be published as stand-alone publications and this model should serve equally well for these situations.
3. This model is also very accommodating to many index styles. It may be necessary to tighten some aspects of the structure. For instance, this model allows a locator and an editor's note to be attached to the same heading. This may not be allowed in some publications. Another example is that the model allows locators at all heading levels, some styles may dictate that locators only occur at the lowest heading level, or alternately, at any level except the main heading (level 1). Nor does this model limit the number of levels the index may have. Of course, these restrictions may also be handled in software prior to the presentation of the index data in SGML or XML and thus a moot point. There may be some index styles that are

not accommodated by  
this model as well.

4. Note that while `see` and `see.also` are defined identically, they are used in different places in the definition of `level`.

-->