

**USE THE MARKUP,
STUPID!**

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WHY ARE WE HERE?



PRODUCT LIFE MANAGEMENT (PLM)

PRODUCT LIFE MANAGEMENT (PLM)

Bill of Materials (BOM)

TOPIC-BASED CONTENT



TOPIC-BASED CONTENT



The PLM world loves DITA — BOMs make excellent topics

BUILDING DOCUMENTS FROM TOPICS



A (VERY QUICK) DITA REFRESHER

TOPICS

```
<topic id="topic_fjt_3bt_2tb">  
  <title>Topic A</title>  
  <prolog>  
    <author>Mark Up</author>  
  </prolog>  
  <body>  
    <p>Topic content.</p>  
  </body>  
</topic>
```

MAPS

```
<map id="id-map-AtoE-nested">
  <title>Topicrefs A to E Nested</title>
  <topicref
    href="topicA.dita"
    navtitle="tref A, level 1">
    <topicref
      href="topicB.dita"
      navtitle="tref B, level 2">
        <topicref
          href="topicD.dita"
          navtitle="tref D, level 3"/>
        <topicref
          href="topicE.dita"
          navtitle="tref E, level 3"/>
        </topicref>
      <topicref
        href="topicC.dita"
        navtitle="tref C, level 2"/>
      </topicref>
    </topicref>
  </map>
```

PUBLISHED TABLE OF CONTENTS

Contents

Chapter 1. Title A.....	3
Title B.....	3
Title D.....	3
Title E.....	3
Title C.....	3

REUSE

```
<map id="id-map-AB-siblings">  
  <title>Topicrefs A and B As Siblings</title>  
  <topicref href="topicA.dita" navtitle="tref A, level 1"/>  
  <topicref href="topicB.dita" navtitle="tref B, level 1"/>  
</map>
```

BUILDING BLOCKS



THE PLM PRODUCT

THE USUAL CMS FEATURES

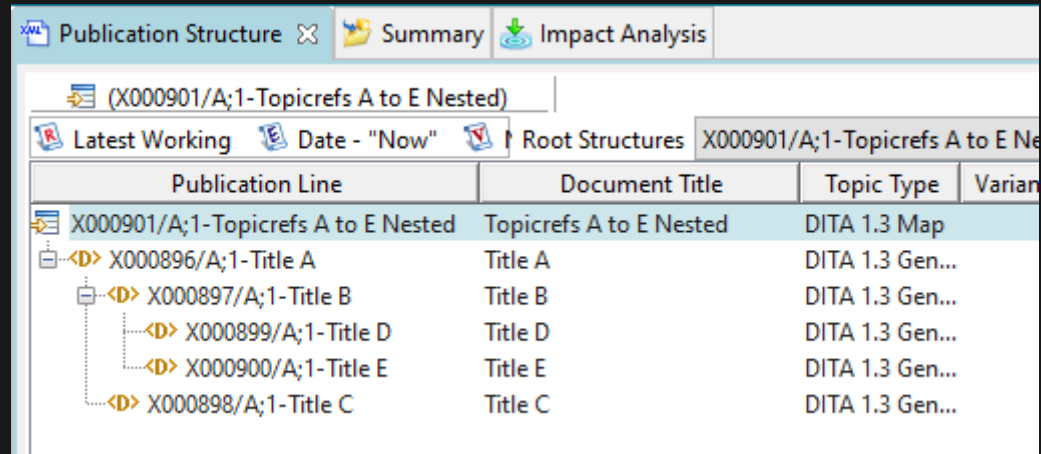
- Single-source publishing
- Version management
- Maps management

PUBLICATION STRUCTURE

Publication Line	Document Title	Topic Type	Variant
X000901/A;1-Topicrefs A to E Nested	Topicrefs A to E Nested	DITA 1.3 Map	
X000896/A;1-Title A	Title A	DITA 1.3 Gen...	
X000897/A;1-Title B	Title B	DITA 1.3 Gen...	
X000899/A;1-Title D	Title D	DITA 1.3 Gen...	
X000900/A;1-Title E	Title E	DITA 1.3 Gen...	
X000898/A;1-Title C	Title C	DITA 1.3 Gen...	

This is my DITA map, imported

PUBLICATION STRUCTURE



Publication Line	Document Title	Topic Type	Variant
X000901/A;1-Topicrefs A to E Nested	Topicrefs A to E Nested	DITA 1.3 Map	
<D> X000896/A;1-Title A	Title A	DITA 1.3 Gen...	
<D> X000897/A;1-Title B	Title B	DITA 1.3 Gen...	
<D> X000899/A;1-Title D	Title D	DITA 1.3 Gen...	
<D> X000900/A;1-Title E	Title E	DITA 1.3 Gen...	
<D> X000898/A;1-Title C	Title C	DITA 1.3 Gen...	

This is my DITA map, imported

What's there not to like?

THIS IS NOT XML AT ALL

GETTING RID OF THE ANGLED BRACKETS

Importing:

GETTING RID OF THE ANGLED BRACKETS

Importing:

1. Graphics

GETTING RID OF THE ANGLED BRACKETS

Importing:

1. Graphics
2. Topics

GETTING RID OF THE ANGLED BRACKETS

Importing:

1. Graphics
2. Topics
3. Maps

GETTING RID OF THE ANGLED BRACKETS

Importing:

1. Graphics
2. Topics
3. Maps

Known as *decompose*

DECOMPOSE

DECOMPOSE

Attribute Name	Function	Path
item_id	Bidirectional	/@id

DECOMPOSE

Attribute Name	Function	Path
item_id	Bidirectional	/@id

item_id	Bidirectional	/?id
---------	---------------	------

DECOMPOSE

Attribute Name	Function	Path
item_id	Bidirectional	/@id

item_id	Bidirectional	/?id
---------	---------------	------

DocumentTitle	First Compose	/title
DocumentTitle	Decompose	/title

DECOMPOSE

Attribute Name	Function	Path
item_id	Bidirectional	/@id

item_id	Bidirectional	/?id
---------	---------------	------

DocumentTitle	First Compose	/title
DocumentTitle	Decompose	/title

(etc)

A REMINDER

```
<topicref href="A.dita">  
  <topicref href="B.dita"/>  
</topicref>
```

A REMINDER

```
<topicref href="A.dita">  
  <topicref href="B.dita"/>  
</topicref>
```

```
<topicref href="A.dita">  
  <topicref href="B.dita"/>  
  <topicref href="C.dita"/>  
</topicref>
```

A REMINDER

```
<topicref href="A.dita">  
  <topicref href="B.dita"/>  
</topicref>
```

```
<topicref href="A.dita">  
  <topicref href="B.dita"/>  
  <topicref href="C.dita"/>  
</topicref>
```

Building blocks, remember?

MAP 1

```
1 <map id="id-singlemap1">
2     <title>A to E as Single Map Title</title>
3     <topichead navtitle="Chapter One Title">
4         <topicref href="topicA.dita"/>
5         <topicref href="topicB.dita"/>
6         <topichead navtitle="Section One Navtitle">
7             <topicref href="topicC.dita"/>
8         </topichead>
9         <topichead navtitle="Section Two Navtitle">
10             <topicref href="topicD.dita"/>
11             <topicref href="topicE.dita"/>
12         </topichead>
13     </topichead>
14 </map>
```

MAP 1

```
1 <map id="id-singlemap1">
2     <title>A to E as Single Map Title</title>
3     <topichead navtitle="Chapter One Title">
4         <topicref href="topicA.dita"/>
5         <topicref href="topicB.dita"/>
6         <topichead navtitle="Section One Navtitle">
7             <topicref href="topicC.dita"/>
8         </topichead>
9         <topichead navtitle="Section Two Navtitle">
10             <topicref href="topicD.dita"/>
11             <topicref href="topicE.dita"/>
12         </topichead>
13     </topichead>
14 </map>
```

Note topic E, last

MAP 1 IMPORTED

Publication Structure			
Summary			
(ID-SINGLEMAP1/A;1-A to E as Single Map Title)			
Latest Working	Date - "No	Root Structures	ID-SINGLEMAP1/A;1-A to E as Single Map Title
Publication Line	Document Title	Topic Type	Variant For
ID-SINGLEMAP1/A;1-A to E as Single...	A to E as Single Map Title	DITA 1.3 Map	
X000960/A;1-Chapter One Title	Chapter One Title	DITA 1.3 Top...	
<D> ID-TOPICA/A;1-Title A	Title A	DITA 1.3 Gen...	
<D> ID-TOPICB/A;1-Title B	Title B	DITA 1.3 Gen...	
X000961/A;1-Section One Na...	Section One Navtitle	DITA 1.3 Top...	
<D> ID-TOPICC/A;1-Title C	Title C	DITA 1.3 Gen...	
X000962/A;1-Section Two Na...	Section Two Navtitle	DITA 1.3 Top...	
<D> ID-TOPICD/A;1-Title D	Title D	DITA 1.3 Gen...	
<D> ID-TOPICE/A;1-Title E	Title E	DITA 1.3 Gen...	

MAP 2

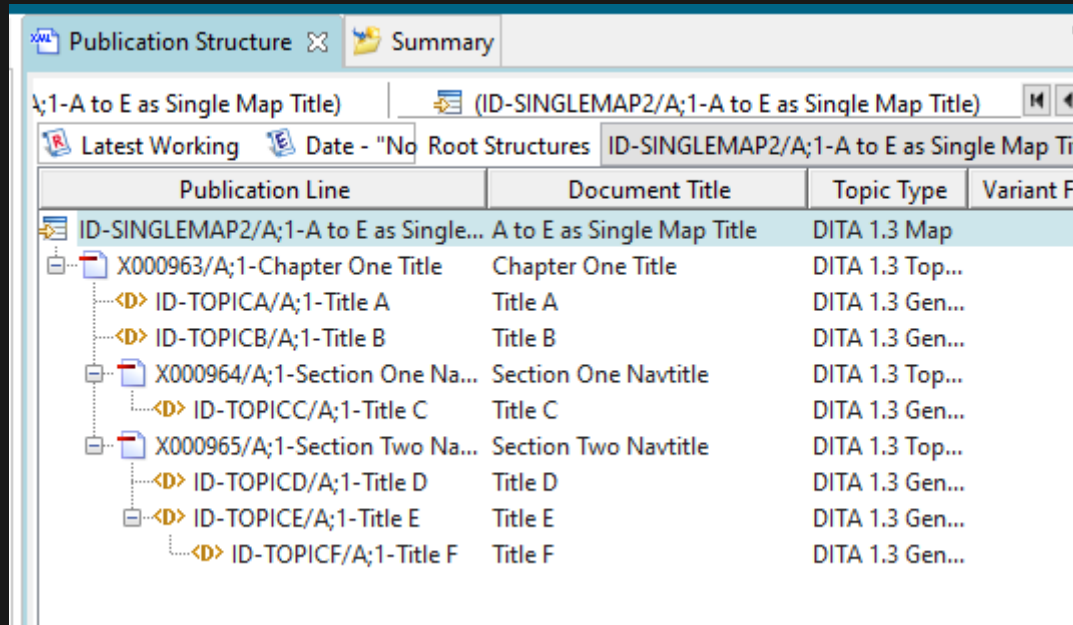
```
1 <map id="id-singlemap2">
2   <title>A to E as Single Map Title</title>
3   <topichead navtitle="Chapter One Title">
4     <topicref href="topicA.dita"/>
5     <topicref href="topicB.dita"/>
6     <topichead navtitle="Section One Navtitle">
7       <topicref href="topicC.dita"/>
8     </topichead>
9     <topichead navtitle="Section Two Navtitle">
10      <topicref href="topicD.dita"/>
11      <topicref href="topicE.dita">
12        <topicref href="topicF.dita"/>
13      </topicref>
14    </topichead>
15  </topichead>
```

MAP 2

```
1 <map id="id-singlemap2">"Chapter One Title">
2   <title>A to E as Single Map Title</title>
3   <topichead navtitle="Chapter One Title">
4     <topicref href="topicA.dita"/>
5     <topicref href="topicB.dita"/>
6     <topichead navtitle="Section One Navtitle">
7       <topicref href="topicC.dita"/>
8     </topichead>
9     <topicref href="topicD.dita"/>
10    <topichead navtitle="Section Two Navtitle">
11      <topicref href="topicE.dita"/>
12      <topicref href="topicF.dita"/>
13    </topichead>
14  </map>
15
```

Topic E now nests topic F

MAP 2 IMPORTED



Publication Line	Document Title	Topic Type	Variant Fo
ID-SINGLEMAP2/A;1-A to E as Single...	A to E as Single Map Title	DITA 1.3 Map	
X000963/A;1-Chapter One Title	Chapter One Title	DITA 1.3 Top...	
<D> ID-TOPICA/A;1-Title A	Title A	DITA 1.3 Gen...	
<D> ID-TOPICB/A;1-Title B	Title B	DITA 1.3 Gen...	
X000964/A;1-Section One Na...	Section One Navtitle	DITA 1.3 Top...	
<D> ID-TOPICC/A;1-Title C	Title C	DITA 1.3 Gen...	
X000965/A;1-Section Two Na...	Section Two Navtitle	DITA 1.3 Top...	
<D> ID-TOPICD/A;1-Title D	Title D	DITA 1.3 Gen...	
<D> ID-TOPICE/A;1-Title E	Title E	DITA 1.3 Gen...	
<D> ID-TOPICF/A;1-Title F	Title F	DITA 1.3 Gen...	

BUT LOOK AT MAP 1 NOW

Before

BUT LOOK AT MAP 1 NOW

Before After

BUT LOOK AT MAP 1 NOW

Before After

Inheritance? Really??

WHAT'S WRONG WITH THIS PICTURE?

- Map XML tree to non-XML (incompatible) model
- Mapping language
 - Not very powerful
 - Syntax leads to misunderstandings
 - Used for every decompose/compose
- XML hampered by non-XML limitations

**FOR EXAMPLE, UNMAPPED CONSTRUCTS IN A
BOOKMAP**

FOR EXAMPLE, UNMAPPED CONSTRUCTS IN A BOOKMAP

```
<bookmap>
  <booktitle>
    <mainbooktitle></mainbooktitle>
  </booktitle>

  <frontmatter>
    <booklists>
      <toc/>
      <tablelist/>
      <figurelist/>
    </booklists>
  </frontmatter>

  ...
</bookman>
```

FOR EXAMPLE, DITA PROFILING ATTRIBUTES

FOR EXAMPLE, DITA PROFILING ATTRIBUTES

```
<p platform="val1 val2 val3">...</p>
```

FOR EXAMPLE, DITA PROFILING ATTRIBUTES

```
<p platform="val1 val2 val3">...</p>
```

Internally @platform is an array, so
decompose/compose both require tweaking

```
<p platform="val1, val2, val3">...</p>
```

FOR EXAMPLE...

Etc

IT'S NOT THE FIRST, THOUGH

IT'S NOT THE FIRST, THOUGH

FrameMaker+SGML, anyone?

IT'S NOT THE FIRST, THOUGH

FrameMaker+SGML, anyone?

WordPerfect SGML

IT'S NOT THE FIRST, THOUGH

FrameMaker+SGML, anyone?

WordPerfect SGML

MS Word plugins for SGML, XML

IT'S NOT THE FIRST, THOUGH

FrameMaker+SGML, anyone?

WordPerfect SGML

MS Word plugins for SGML, XML

(etc)

BUILDING BLOCKS, REMEMBER?

BUILDING BLOCKS, REMEMBER?



BUILDING BLOCKS, REMEMBER?



BUILDING BLOCKS, REMEMBER?



BUILDING BLOCKS, REMEMBER?



BUILDING BLOCKS, REMEMBER?



THERE'S AN OBVIOUS WAY AROUND THIS

THERE'S AN OBVIOUS WAY AROUND THIS

Let's use the building blocks we have



THERE'S AN OBVIOUS WAY AROUND THIS

Let's use the building blocks we have



They play nice together!



USE THE MARKUP, STUPID!

THANK YOU