An XML Solution for Legal Documents

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A Use-case for XML

How we use XML to solve a real problem in our company – maintaining the product End User License Agreements (EULA)



Availability

- Open source project
- Apache 2.0 license
- GitHub

https://github.com/georgebina/legal

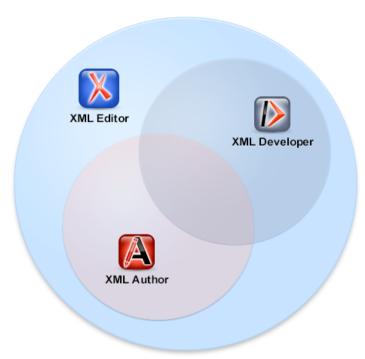


Context



Context

- oXygen Products
 - Author
 - Developer
 - Editor
- oXygen Editions
 - Academic
 - user based, floating, classroom, department, site
 - Professional
 - user based, floating
 - Enterprise
 - user based, floating, subscriptions
- SDK





Context

End User License Agreements

- for a number of similar products and different license types
- published in multiple places
 - on the product website
 - as part of the application



Old Solution

Each license agreement was edited using a word processor and (manually) saved as a plain text document to be included in the product and on the website.



Problem



Problem

We maintained duplicate information:

- difficulty of applying changes
- inconsistent content
- time wasted to update the same content in multiple places



Solution

Use XML to create a single source solution!



Objectives

- Very simple XML language
- User friendly interface
- Collaboration and review
 - Annotations
 - Change tracking
 - Highlights
- Implement Single-source concepts
 - Conditional content
 - Reuse
- Support for references
- Automate publishing tasks



Very Simple XML Language

1. eula – a EULA document

2. addendum – an addendum to a EULA

3. important – the first section, not numbered

4. section – a section in the EULA

5. info – information about EULA

6. title – title for a section, EULA, agreement

7. item — an item in a section or in a list

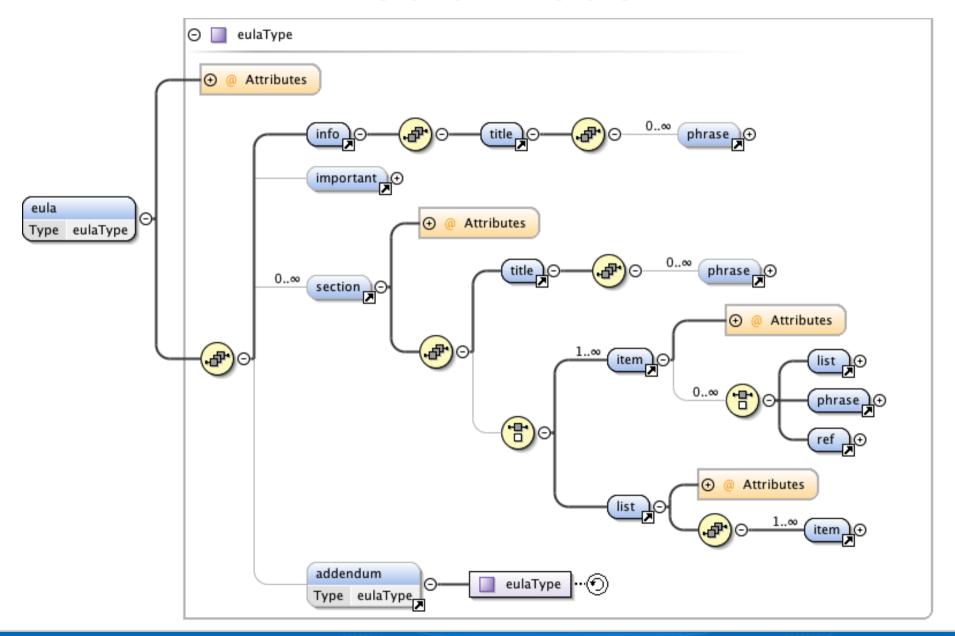
8. list – groups a number of items in a lits

9. phrase – a fragment of content

10. ref — a reference to a section or an item

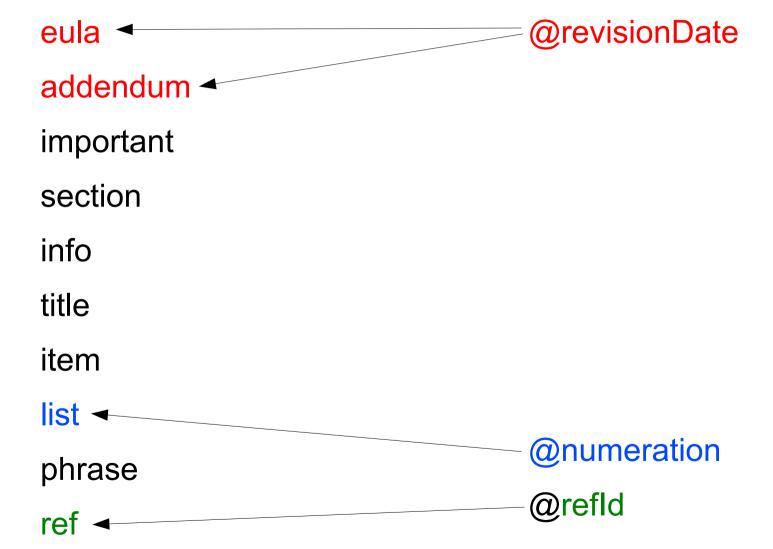


eula Model





Attributes





User-friendly Interface

Use CSS to render the XML documents

- Provide multiple CSS styles to focus on different tasks
- Use counters and lists to get a similar rendering as the output

Provide custom actions to simplify common tasks



Review

- Track changes
- Annotations
- Highlights

All these are based on PIs so they work automatically for any XML language



Word Processor Equivalent

Up to here we have a functionality equivalent to what we had, only that the information is in our XML format.

- c. "Named User" is an individual authorized by You to use the Software through the assignment of a single user ID, regardless of whether or not the individual is using the Software at any given time. A non-human operated device is counted as a Named User in addition to all individuals authorized to use the Software, if such device can access the Software.
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[license_grants]

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Commented [stefan]: Same definition as in section SUPPORT AND MAINTENANCE PACK



Reuse

Two cases

- Build conditional parts
- Reuse an entire fragment (e.g. section)



Conditional Content

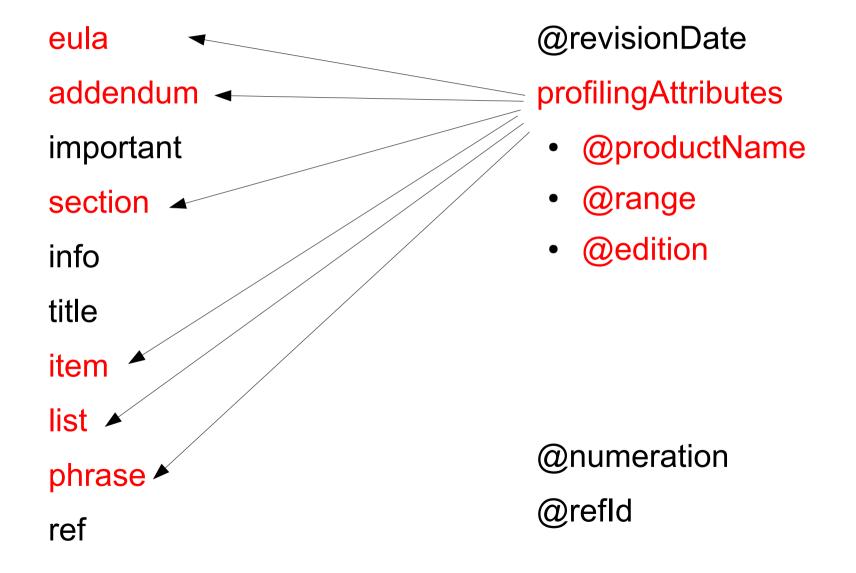
Profiling attributes:

- @productName (Author, Developer, Editor)
- @range (User, Class, Department, Site)
- @edition (Academic, Professional, Enterprise)

By setting these attributes we mark a specific content to appear only when we generate the deliverables for the matching product, range or edition.



Profiling Attributes





Conditional Content

[definition]

1. DEFINITION

- a. "Syncro" means Syncro Soft SRL.
- b. "Software" means the executable code of oXygen XML |> Editor || product [EDITOR] |> Author || product [AUTHOR] |> Developer || product [DEVELOPER] |> Diff || product [DEVELOPER] |> Di
- c. "Named User" is an individual authorized by You to use the Software through the assignment of a single user ID, regardless of whether or not the individual is using the Software at any given time. A non-human operated device is counted as a Named User in addition to all individuals authorized to use the Software, if such device can access the Software.
- d. "License Key" means a unique key-code issued to You by Syncro (or its authorized reseller) to activate and use the Software.
- e. "Maintenance Pack" is a time-limited right to technical support and Software updates and upgrades which you may elect to purchase in addition to your Software license. Technical support only covers issues or questions resulting directly out of the operation of the Software. Syncro will not provide You with generic consultation, assistance, or advice under any other circumstances.

Commented [stefan]: Same definition as in section SUPPORT AND MAINTENANCE PACK



Reuse Fragments

- Based on XInclude
- We need to allow xml:base for the elements that can be included
- We allow the following elements to be reused:
 - eula
 - addendum
 - important
 - section



Attributes

eula addendun important section info title item list phrase ref

@revisionDate
profilingAttributes

- @productName
- @range
- @edition

xmlAttributes

- @xml:id
- @xml:base
- @numeration
- @refld



Reuse advantages

- Avoid duplicating content
- We do not need to review content that was already reviewed

Examples:

The sample oXygen EULA uses conditional content to generate 7 deliverables

The sample oXygen SDK agreement includes many sections from the oXygen EULA (7 out of 16)



References

A section or an item may get a different number depending on:

- profiling conditions
- changes in the document



Example

source: http://www.avangate.com/online-payment-solutions/terms.php

11.1 IF YOU ARE A CONSUMER, YOU WILL HAVE A "REFLECTION PERIOD" OF 15 (FIFTEEN) DAYS AFTER DELIVERY DURING WHICH YOU MAY REVOKE YOUR ORDER FOR ANY REASON THROUGH WRITTEN NOTICE TO AVANGATE AS SPECIFIED IN THE CHAPTER 12 - "NOTICE".

. . .

12. Refund process

12.1 To cancel an order placed in the

. . .

14. Notices

14.1 Any notification or any other communication made in connection with Our contract shall be in written form and considered as duly sent or adequately issued if it is sent by mail, fax or email and is addressed to the contact data



References

If references are made as text then:

- When a document is updated all reference text need to be manually checked
- The reference text needs to be placed in a fragment and profiled for different deliverables as the numbering may change (for example we can add a new section that applies only for the Academic version)



References

We solved this problem by adding a ref element that points to an ID defined on the reference target

Advantages:

- Automatic checking as part of the document validation
- Flexible on document changes
- Flexible on profiling



Attributes

@revisionDate eula , addendun profilingAttributes important @productName @range section @edition info xmlAttributes title @xml:id item -@xml:base list @numeration phrase @refld ref



Authoring references

An alternate CSS exposes the references as drop downs and the IDs as editable boxes to allow an easy management of IDs and references



Authoring References

13.1.	You may terminate this Agreement at any time by		
removing the Software fro termination of this Agreer destroy all copies of the S	om the computers on which y nent, you shall immediately of oftware.	ou had install it. Upor	n any Software and
13.2.	See Section //		▼ 4
13.3.	If you are using	ac-enduserapp monthlyReporting	onent
Development Key, this A xtended by Syncro cons	greement will terminate at the ent.	licenseRestrictions patent_and_copyright_	indemnity
3.4.	Syncro may term	warranties	immediate y
without judicial interventi	on, if You fail to comply with rmination, You shall cease us or Application containing th	high risk activities	ense cease using



Publishing

XSLT

 applies different processing stages like XInclude resolution, profiling, resolving references and conversion to text

Ant

- triggers the XSLT processing
- optionally can trigger also a commit on a versioning system to push the updates on different repositories



Demo



Conclusions

- We can have a functionality similar to a word processor for simple XML document types
 - Simple editing (CSS)
 - Change tracking and annotations (XML PIs, maybe a standard format soon)
- We can easily implement reuse through
 - Conditional text
 - Content references (XInclude)
- References can be made robust adding specific support (IDs and IDREFs)
- We can automate publishing (XSLT)



Thank You!

Questions?

https://github.com/georgebina/legal

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