

Working with XML Schema 1.1 and 1.0

Alin Balasa

alin_balasa@oxygenxml.com



Use Case

<oxygen/>[®] users request

- Allow working with both XML Schema 1.0 and 1.1 at the same time without having to make changes in the <oxygen/>[®] preferences

Solution

- Use the new XML Schema versioning support to set the schema version at document level

Versioning Support in XML Schema

The version control namespace

- <http://www.w3.org/2007/XMLSchema-versioning>
- Convention – use “**vc**” as namespace prefix

Versioning attributes

- ***vc:minVersion***, ***vc:maxVersion***
- They can be added to any element declaration in the schema
- Indicate which version of the schema specification the declaration belongs to

XML Schema Version Attributes

Example

```
<xs:element  
  name="person"  
  vc:minVersion="1.1"  
  vc:maxVersion="2.2">  
  
  <!-- Declare the person element -->  
  
</xs:element>
```

XML Schema Version in <oxygen/>[®]

Application level

- *Options* → *Preferences: XML / XML Parser / XML Schema*
- Set the “**Default XML Schema version**” option
- This represents the default value to use

Document level

- Using the **versioning attributes** on the XML Schema root
- This takes precedence over the global option

Setting the XML Schema Version at Document Level

New Document

- New XML Schema Wizard – allows choosing the schema version to use:
 - “Default XML Schema version” – uses the version set in options
 - “XML Schema 1.0”
 - “XML Schema 1.1”
- XML Schema templates - <oxygen/> has out-of-the-box templates for both schema versions

Existing document

- Use the “Change XML Schema version” contextual action
- Directly inserting/editing the versioning attributes in the document

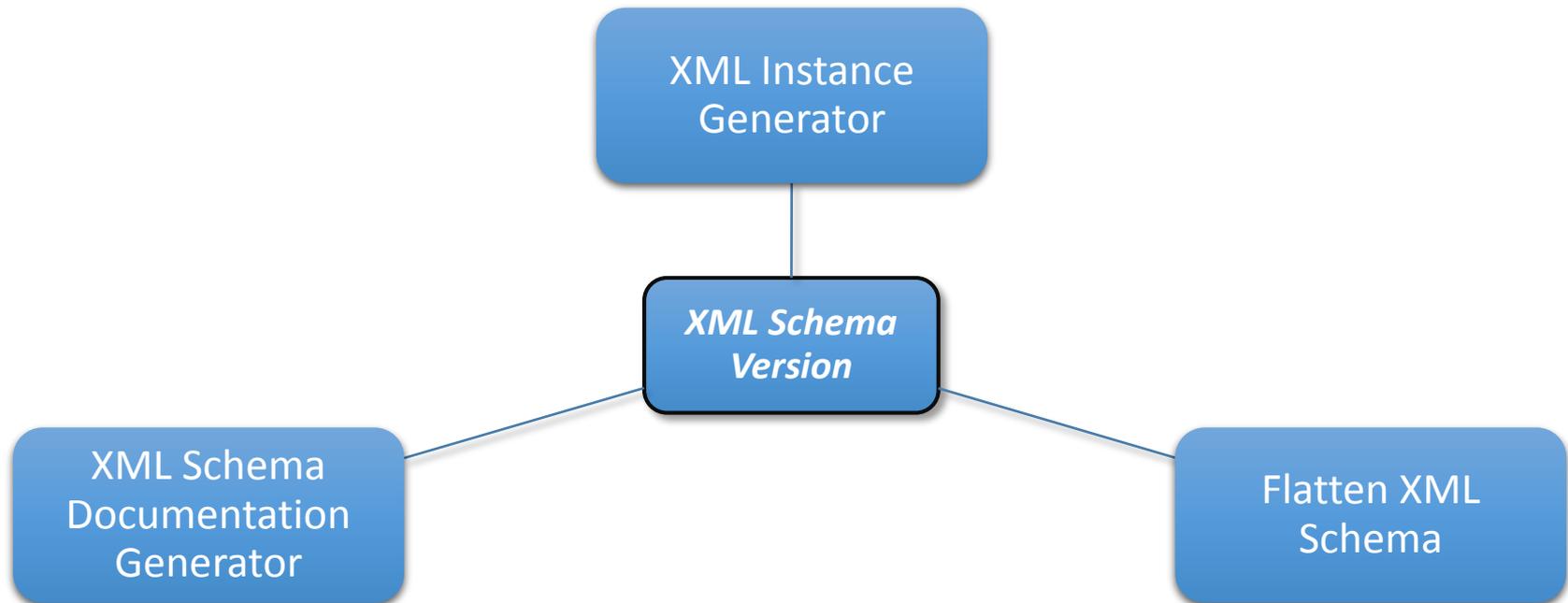
How <oxygen/>[®] reacts when the XML Schema version is changed

<oxygen/>[®] reconfigures its features when the XML Schema version is changed

- The XML Schema version is automatically detected from the current schema
- The **XML Schema Validation Engine** selects the appropriate profile according to the schema version
- The **Content Completion Processor** is updated
- The XML Schema related additional views are also reconfigured (**Palette View, Facets View, Attributes View**)

XML Schema Related Tools

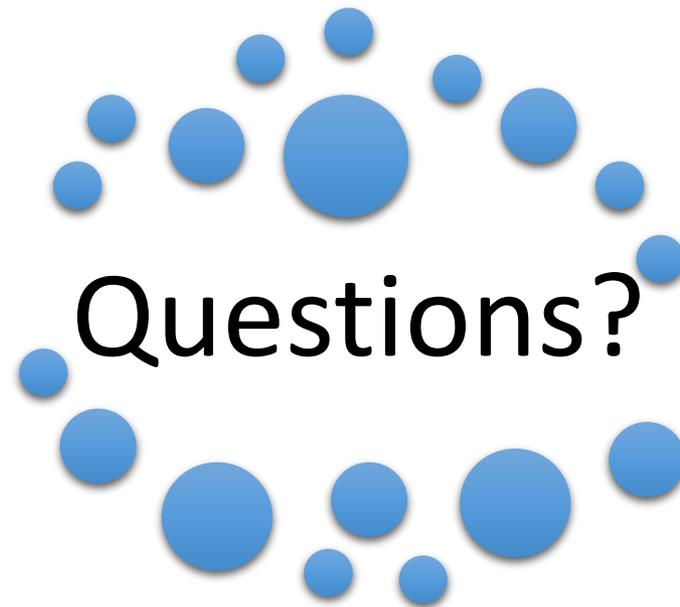
- The XML Schema Tools are also configured to use the schema version set in the document



Conclusion

- Setting the XML Schema version at document level is very useful when you are dealing with different versions of schema in the same project

Thank you!



<oxygen/>[®] XML Editor

<http://www.oxygenxml.com>

alin_balasa@oxygenxml.com