

2021-06-25 IISOMI Meeting Minutes

Date

25 Jun 2021

Attendees

- [Hing-Kam Lam](#)
- [Scott Mansfield](#)
- [Xiang YUN](#)
- [Andrea Mazzini](#)
- [Nigel Davis](#)
- [Italo Busi](#) (ITU-T Q14/15)

Apology

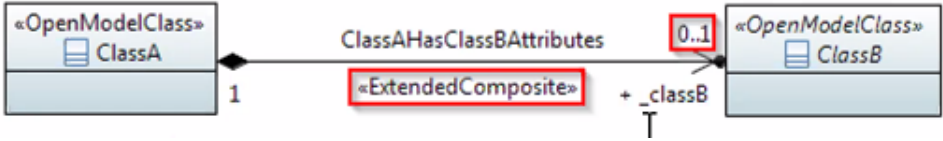
- [Bernd Zeuner](#)

Agenda

- Administrative
 - Call plan (schedule, leader)
 - Review [IISOMI Action Items](#)
- Gendoc output for Interfaces and Operations
- Papyrus-Model2Doc further investigations?
- Handling of the UML YANG Mapping Tool in GitHub - Still TBD
- Papyrus 5.0.0 Version (202106)
- ExtendedComposite association end
- Property names in UML comments not converted to Yang
- Agenda of next call
- AOB

Discussion items

| # | Time | Item | Who | Notes |
|---|-------|------------------|-----|---|
| 1 | 5 min | Admin: Call plan | All | 25 Jun 2021 Leader Nigel Davis 02 Jul 2021 Leader Scott Mansfield 09 Jul 2021 Leader ; Hing-Kam Lam (Not available: Scott) 16 Jul 2021 CANCELLED (Not available: Scott, Italo, Andrea) 23 Jul 2021 Leader ; Bernd Zeuner (Not available: Scott, Andrea) |

| | | | | |
|---|--------|---|--------|---|
| 2 | 10 min | Admin: IISOMI Action Items status | All | <p>IISOMI Action Items review (every meeting)</p> <ul style="list-style-type: none"> • NOTE: Administration of IISOMI action items <ul style="list-style-type: none"> • New actions are added to the minutes of the current meeting and dated using the "task list" control • Do not copy actions from previous minutes, just add bullet version to reference the source minutes • In every IISOMI meeting, check the action item list and check for tasks that have passed their due date <ul style="list-style-type: none"> • If the due date is past, determine if the issue is still active <ul style="list-style-type: none"> • If the task is active, mark the over-due task as completed, and create a new task with a new due date in the minutes • If the task is not active, (i.e. not going to be progressed at this time), simply close the task and make a note in the minutes that the task was closed. <p>Action item discussed</p> <p>Action item updates: (no changes to action, just changing date)</p> <ul style="list-style-type: none"> • Extended Composite  <p><code>_classB</code> should not be defined in an ExtendedComposite association</p> <ul style="list-style-type: none"> ✓ Bernd Zeuner 13 Aug 2021 Update the Modelling Guidelines to cover "<code>_classB</code> should not be defined in an ExtendedComposite association (because it is abstract)." <ul style="list-style-type: none"> • Enum literal (propose allow 12.5GHz) <ul style="list-style-type: none"> • UML model guideline currently prevents "." (and other characters). This prevents "12.5GHz" from being an Enum literal. • Yang has exceptions to allow "well-known value" such as "Only lowercase letters, numbers, and dashes SHOULD be used in identifier names. Uppercase characters, the period character, and the underscore character MAY be used if the identifier represents a well-known value that uses these characters." • Scott noted that the tooling is not consistent. Some places the tooling converts to Yang format and in others it does not. • The tooling is not validating the UML naming convention. • Tooling does no translation of Enum Literals. • Changing the guidelines are sufficient. • Nigel suggested that a stereotype to identify the rare case where a well known value is being used should be available (not to be used by the tooling). This was not accepted. • Agreed to not change the tooling. • Agreed to proceed with Enum literals in upper case in Yang (i.e., not strict Yang, but still essentially allowed by "well-known value"). • Agreed to not add a stereotype. • Agreed that we would not follow RFC 8407 on the Enums. • Agreed to change the guideline rules to allow for well known terms to be used in the Enum name. <ul style="list-style-type: none"> ✓ Bernd Zeuner 13 Aug 2021 Update the UML guidelines to reflect the agreements on Enum Literals. |
| 3 | 30 min | Gendoc | Andrea | <p>Is there a way to publish, in a tabular form, the stereotypes on associations?</p> <p>For example, <<ExtendedComposite>> is used by the UML-Yang tool. There is no mechanism to publish this in the documentation (other than on the diagrams).</p> <ul style="list-style-type: none"> ✓ Scott Mansfield 13 Aug 2021 Explore Gendoc generation of associations (to cover stereotypes such as <<ExtendedComposite>> etc.) - See https://wiki.onap.org/display/DW/ONAP+Information+Model++Gendoc+Examples <p>Discussed need for collection of Gendoc material.</p> <ul style="list-style-type: none"> ✓ Scott Mansfield 13 Aug 2021 Update IISOMI Tooling with Gendoc template material. |
| 4 | 15 min | Property names etc. in UML comments not converted to Yang | Nigel | <p>UML comments often include construct name formatted according to the UML guidelines. When the UML is converted to Yang the construct names are then incorrectly formatted.</p> <p>Agreed that this is an issue.</p> <p>It was suggested that:</p> <ul style="list-style-type: none"> • The construct names be marked in some way so that tooling could identify the strings to convert. The marking could be two single quotes (e.g., "xyz"), two curly brackets (e.g., {{xyz}}) or similar. The comment could be: <ul style="list-style-type: none"> • Processed by the UML-Yang tool • Post processed after Yang generation to generate a Yang with corrected comments • The reader will just have to deal with it <ul style="list-style-type: none"> • But a Yang reader will question the correctness of the comments • The construct names could be changed to be less rigorous, e.g., ConnectivityService becomes connectivity service (which is somewhere between the UML and Yang form (connectivity-service)) <ul style="list-style-type: none"> • But both the UML reader and the Yang reader will question the correctness of the comments <ul style="list-style-type: none"> ✓ Nigel Davis 02 Jul 2021 Further updates on issue of "UML comments often include construct name formatted according to the UML guidelines. When the UML is converted to Yang the construct names are then incorrectly formatted." <p>Editor's note: Papyrus should enable comments to include links to class names etc. via xmi-id that should be selectable from list etc.</p> |

3 10 min Gendoc Scott

June 11: Gendoc output for Interfaces and Operations

- Reviewed the generated **Interface and Operation** table from Gendoc

III.1 Interfaces

Qualified Name: `itu-mc-mgmt:Interfaces`

III.1.1 Interfaces

III.1.1.1 `AcAction` interface

Qualified Name: `itu-mc-mgmt:Interfaces::AcAction`
Description: represents the client context life cycle management actions in administrative context

Table 1 Operations for Interface `AcAction`

| Operation Name | Applied Stereotypes | Description |
|----------------------------------|---|-------------|
| <code>createClientContext</code> | <code>OpenModelOperation</code> • support: MANDATORY | |
| <code>updateClientContext</code> | <code>OpenModelOperation</code> • support: MANDATORY | |
| <code>deleteClientContext</code> | <code>OpenModelOperation</code> • support: MANDATORY | |
| <code>queryClientContext</code> | <code>OpenModelOperation</code> • support: MANDATORY | |

Table 2 Parameters for Operation `createClientContext`

| Parameter Name | Type | Direction | Multi. | Applied Stereotypes | Description |
|----------------|---------|-----------|--------|--|-------------|
| testparm1 | Integer | in | 1 | <code>OpenModelParameter</code> • <code>valueRange</code> : no range constraint • support: MANDATORY | |

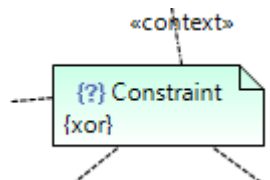
Table 3 Parameters for Operation `deleteClientContext`

| Parameter Name | Type | Direction | Multi. | Applied Stereotypes | Description |
|----------------|------|-----------|--------|--|-------------|
| testparm2 | Real | in | 1 | <code>OpenModelParameter</code> • <code>valueRange</code> : no range constraint • support: MANDATORY | |

- Discussed table numbering
 - Table 1 Operation of `AcAction`
 - Table 1.1 Parameters for Operation `createClientContext`
- Discussed case where there is no parameter
 - Still have table for operation which does not have parameter, with a row for heading and the second row with N/A
- Discussed Interface meta data to be displayed in the GenDoc output
 - Qualified name
 - Description
 - Abstract
 - Applied stereotype
- Discussed columns
 - Operation table
 - Parameter table

Action item recreated: GenDoc didn't generate **constraint**

- [Scott Mansfield](#) 13 Aug 2021 To investigate why none of the constraints is retrieved from the model.



E.g.,

3 Papyrus-Model2Doc feature Scott Mansfield

May 14: 2021-05-14 IISOMI Meeting notes

[Scott Mansfield](#) presented the Model2Doc feature from Papyrus

- still in pre-release state
- need to install Model2Doc tool integrated into Eclipse 2021-03 (nightly build) and Papyrus 5.1 (nightly) and Model2Doc (0.8.0 nightly)
- requires Java version greater than 11
- creates Word files
- need to check if Model2Doc provides at least the functionality of Gendoc
- Gendoc does not work with newer Papyrus versions (see below)*
- Further investigation is required
- Work continues to create a model2doc template that produces the same material as the gendoc template (class/attribute/datatype/stereotype etc.)

GenDoc no longer work with Eclipse Papyrus 2020-06.

May 28: 2021-05-28 IISOMI Meeting notes

- [Scott Mansfield](#) will check whether the current statement in [Papyrus Releases](#) is valid, i.e. that Gendoc couldn't work with [2020-12 \(4.18\)](#) Eclipse release.
- [Scott Mansfield](#) indicates that in O-RAN they are deprecating Papyrus in favor of direct editing of data models together with PlantUML.

June 11: No discussion

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|---|--------|---|-------------------------------------|--|
| 4 | | UML YANG mapping issues and enhancements | | <p>May 14: 2021-05-14 IISOMI Meeting notes</p> <p>Logged issues: https://github.com/OpenNetworkingFoundation/EagleUmlYang/issues</p> <ul style="list-style-type: none"> Issue: <ul style="list-style-type: none"> Feature/when (condition statement); Mandatory/multiplicity; Do not print the <i>blank</i> reference (<i>fixed in Scott's version of the tool</i>) GitHub issues list: https://github.com/OpenNetworkingFoundation/EagleUmlYang/issues Finalize discussion on xmi2yang support of ExtendedComposite, StrictComposite Check enumerations not following guidelines Management of possible dedicated branch where to store new versions (UML YANG Tool release process) <ul style="list-style-type: none"> Dedicated call: <p>June 11:</p> <ul style="list-style-type: none"> Action item recreated: Tool improvement <ul style="list-style-type: none"> Scott Mansfield 13 Aug 2021 Scott to improve the tool so that to minimize the manual fix Scott Mansfield 13 Aug 2021 Scott to create a private Github for xmi2yang modification |
| 5 | | Papyrus 5.0.0 Version | | <p>June 11: No discussion</p> <ul style="list-style-type: none"> |
| 6 | 49 min | GenDoc Issues | All Hing-Kam Lam | <p>May 14: 2021-05-14 IISOMI Meeting notes</p> <ul style="list-style-type: none"> GenDoc didn't generate constraint GenDoc didn't generate the Interface definitions GenDoc didn't generate the Type of pointed external (imported) classes GenDoc OstigOTpSource::tkt:EByte multiplicity [64] is not generated correctly AI (5/28/2021): Scott Mansfield 11 Jun 2021 to look at all GenDoc issues above and try to find solutions <p>May 28: 2021-05-28 IISOMI Meeting notes</p> <ul style="list-style-type: none"> Discussed possible output formats of interfaces/operations. |
| 7 | 5 min | ExtendedComposite association end | All Hing-Kam Lam | <p>May 14: 2021-05-14 IISOMI Meeting notes</p> <ul style="list-style-type: none"> AI (5/28/2021): Bernd Zeuner 04 Jun 2021 Update the Modelling Guidelines accordingly <p>June 11: No discussion</p> |
| 8 | | Property names in UML documentation converted to Yang | All Hing-Kam Lam | <p>June 11: No discussion</p> |
| 9 | | Agenda of next call | All | <ul style="list-style-type: none"> Administrative GenDoc output for Interfaces and Operations Papyrus-Model2Doc further investigations? Handling of the UML YANG Mapping Tool in GitHub - Still TBD Papyrus 5.0.0 Version Property names in UML documentation converted to Yang Agenda of next call AOB |

Action items

