

2021-10-29 IISOMI Meeting Minutes

Date

29 Oct 2021

Attendees

- [Scott Mansfield](#)
- [Hing-Kam Lam](#)
- [Bernd Zeuner](#)
- [Xiang YUN](#)
- [Martin Skorupski](#)
- [Andrea Mazzini](#)
- LoreLei Rouvrais (ATT)
- [Italo Busi](#)
- [Nigel Davis](#)

Apologies:

- [Alex Stancu](#)

Agenda

- Administrative
 - Call plan (schedule, leader)
 - Review [IISOMI Action Items](#)
- Discussion items in Wiki pages
- Feature/condition
- UML YANG Mapping Tool update
 - O-RAN cooperation
- Papyrus-Model2Doc further investigations?
- Papyrus Releases
 - Consider a plan for convergence of ITU-T Q14/15, ONF Common IM and TAPI to [2020-06 \(4.16\)](#) version
- Private GitHub
- Public GitHub
- Gendoc Issues
 - Gendoc output for Interfaces, Operations, Associations, Abstractions
- Agenda of next call
- AOB

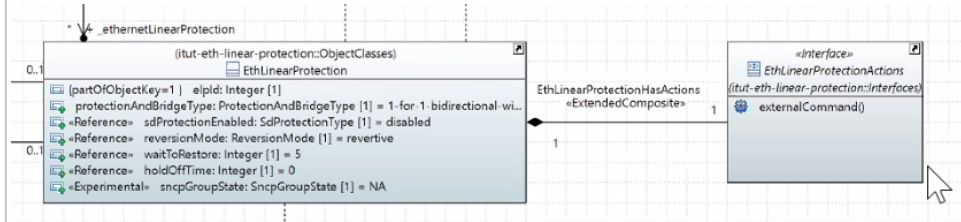
Discussion items

| # | Time | Item | Who | Notes |
|---|--------|---|-----|---|
| 1 | 5 min | Admin: Call plan | All | 05 Nov 2021 Leader: Andrea (Not available: Martin) 12 Nov 2021 Cancelled – IETF week 19 Nov 2021 Leader: Kam (Not available: Bernd) 26 Nov 2021 Cancelled – Vacation/Holiday 03 Dec 2021 Leader: ? (Not available: Bernd) |
| 2 | 10 min | Admin: IISOMI Action Items status | All | IISOMI Action Items review (every meeting) Action items done <ul style="list-style-type: none">• Bernd Zeuner Completed:<ul style="list-style-type: none">• Modeling Guidelines• Update modeling guidelines for signal and interface discussion notes:<ul style="list-style-type: none">• Update description of Figure 5-26 to indicate it is an example.• On generalizations where multiplicity is 0..1, add a condition.• Fix names for stereotypes• Number the extending examples• remove "dot" on the arrow side of Interface and Signal• Update mapping guidelines for rule that artifact names should be YANG style discussion notes:<ul style="list-style-type: none">• changes were accepted• Add most current documents to confluence<ul style="list-style-type: none">• Updated Modeling Guidelines and UML YANG Mapping Guidelines Folder Refresh Action Items |

- **Nigel Davis** 19 Nov 2021 Review proposal for "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." (in minutes [2021-07-30 IISOMI Meeting Minutes](#)).
 - Current state: The Yang has UML formatted names in it. The user is required to simply deal with this. There have not been any specific complaints, but clearly the comments are confusing. It may be beneficial to add notes to the read-me or similar to explain the formatting transition.
 - "The 'description' text often includes names of properties, classes etc. that are in 'camel case' as opposed to 'hyphen-case' as used for yang labels. The names can be converted by simply ensuring the first letter is lower case and that any intermediate upper case letters are turned into lower case preceeded by a hyphen (e.g., HyphenCase -hyphen-case)."
- **Scott Mansfield** 19 Nov 2021 To take the gendoc examples from the guidelines and perform regression test.
- **Scott Mansfield** 19 Nov 2021 To investigate why none of the <<cond>> is retrieved from the model.
 - Andrea indicated she had attempted to apply analogous rules to member-end to include other properties. Andrea tried various techniques to get client and supplier with no success
 - Probably need to review the UML metadata
 - Andrea was able to print the target string
- Scott Mansfield** 19 Nov 2021 To investigate how to get client and server values for an abstraction.
- Use of git may be problematic as we have multiple repositories.
 - Nigel Davis** 19 Nov 2021 determine whether ONF can create IISOMI Jira.

Finished Actions

- **Italo Busi** 08 Oct 2021 To verify and confirm that an "Extended composition" can also be used with Interfaces and Signals.
 - One extension class can be used to extend multiple base classes.
 - This is useful when considering Yang
 - Modeling guidelines force no operations in object classes and no attributes in interfaces
 - Italo discussed the ITU-T structure below



- Bernd noted that there was no discussion on interfaces extending object classes. Bernd agreed that he would consider this during the update of guidelines.
- Italo indicated that this is done by uses
- Scott noted that the extension with notifications should be via an augment so an application could leave it out. if-feature may also be useful.
- Italo noted that as the ITU-T usage is in the same model it is not an augment.

```


273     "The maintenance group (MG) monitoring the working path.";
274 }
275 leaf protection-path-mg {
276   type leafref {
277     path "/dot1q-cfm:cfm/dot1q-cfm:maintenance-group" +
278         "/dot1q-cfm:maintenance-group-id";
279   }
280   must '!. ! = ../working-path-mg' {
281     error-message
282       "The MG monitoring the protection path shall be
283       different from the MG monitoring the working path.";
284   }
285   mandatory true;
286   description
287     "The maintenance group (MG) monitoring the protection
288     path.";
289 }
290 action external-command {
291   description
292     "Actions for linear protection external commands.";
293   input {
294     leaf command-type {
295       type command-type;
296       mandatory true;
297       description
298         "The type of the linear protection external command.";
299     }
300   }
301 }
302 }
303 }

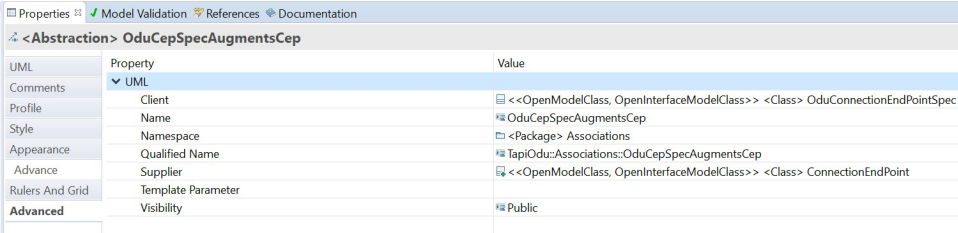
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- Nigel noted that the decision had been made to separate operations from object classes as the target was intent based interactions where there is no direct operation on an object. Bernd also noted that there is a to separate static and dynamic.
- Italo noted that signal should also be considered
- It was agreed that interface and signal could both extend object classes but object classes cannot extend signal or interface.
 - Bernd Zeuner** 15 Oct 2021 Update modeling guidelines with "interface and signal can both extend object classes but object classes cannot extend signal or interface."
- **Bernd Zeuner** 08 Oct 2021 Draft an example Wiki page that capture an discussion item
 - Bernd explained a discussion items page

- The minute taker should copy the text from the minute into relevant pages of the wiki

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| | | | | <p>Seiten /... / Modelling Guidelines related Items Extended composition in UML (including object classes and interfaces)</p> <p>Angelegt von Bernd Zeuner; zuletzt geändert vor etwa 4 Stunden</p> <p>20.08.2021</p> <p>Extended composition in UML (including object classes and interfaces)</p> <ul style="list-style-type: none"> See 8/16-17 email thread: RE Questions about the extended composition in UML.msg <p>Also look at the 2021-08-13 IISOMI Meeting Minutes on the discussion of how to display Association information using Gendoc</p> <ul style="list-style-type: none"> Two examples <ul style="list-style-type: none"> TapiConnectivity.docx (See section 1.2.2) TapiConnectivitySimple.docx (See section 1.3) Modeling guidelinesTR-514 (draft) <ul style="list-style-type: none"> See Figure 5.26 in section 5.4.2.1 for ExtendedComposite information See section 5.4.3 for information on Role Type <p>01.10.2021</p> <p>Agreement: Extended composition should also be available for Interfaces and Signals.</p> <p>Question: Can one extension class (Class, Interface, Signal) extend more than one base class (Class, Interface, Signal)? → Yes</p> <p>@ Italo Busi 08.10.2021 To verify and confirm that an "Extended composition" can also be used with Interfaces and Signals.</p> |
| 3 | 15 min | Discussi on items in GitHub Issues | Bernd Zeuner | <p>Bernd proposed to capture the discussion items in GitHub Issues than in the IISOMI Meeting Minutes and just provide a link to the GitHubIssue in the minutes. This prevents that the same discussion minutes appear many times in the minutes. Two draft Issues are contained in https://github.com/samans/iisomi-private/issues/1 and https://github.com/samans/iisomi-private/issues/2 and have been presented at the meeting.</p> <p>At the discussion it was pointed out that</p> <ul style="list-style-type: none"> a private repository is not the appropriate place for the items since not everyone has access to this the ONF GitHub is publicly available but not all participants are allowed to contribute to it there is no single ONF repository which could host such Issues; IISOMI is spread over many repositories it might be possible to cover the discussions in Wiki pages new discussions should be captured in the Meeting Minutes and then copied to the Wiki pages <p>• Bernd Zeuner 08 Oct 2021 Draft an example Wiki page that capture an discussion item</p> |
| 3 | | Feature /condition | Andrea Mazzini | <p>https://github.com/samans/iisomi-private/issues/1</p> <p>Andrea highlighted the need to use yang feature/condition capabilities. MEF are planning on introducing updates to TAPI to allow isolation of specific MEF relevant parts.</p> <p>There was a brief related non-IISOMI discussion on interworking between ONF TAPI and MEF.</p> <p>There is a need for tooling support.</p> <p>September 24, October 1: No discussion</p> |
| 4 | 10 min | Extende d composi tion in UML (includin g object classes and interface s) | Italo Busi Hing-Kam Lam | <p>https://github.com/samans/iisomi-private/issues/2</p> <p>Not discussed. Defer to next call</p> <ul style="list-style-type: none"> Extended composition in UML (including object classes and interfaces) <ul style="list-style-type: none"> See 8/16-17 email thread: RE Questions about the extended composition in UML.msg Also look at the 2021-08-13 IISOMI Meeting Minutes on the discussion of how to display Association information using Gendoc <ul style="list-style-type: none"> Two examples <ul style="list-style-type: none"> TapiConnectivity.docx (See section 1.2.2) TapiConnectivitySimple.docx (See section 1.3) Modeling guidelinesTR-514 (draft) <ul style="list-style-type: none"> See Figure 5.26 in section 5.4.2.1 for ExtendedComposite information See section 5.4.3 for information on Role Type <p>September 7, 24: No discussion</p> <p>October 1:</p> <p>Agreement: Extended composition should also be available for Interfaces and Signals.</p> <p>Question: Can one extension class (Class, Interface, Signal) extend more than one base class (Class, Interface, Signal)? Yes</p> <ul style="list-style-type: none"> Italo Busi 08 Oct 2021 To verify and confirm that an "Extended composition" can also be used with Interfaces and Signals. |
| 5 | 10 min | Conventi on of UML property names in documen t /commen t /descripti on | Hing-Kam Lam | <p>September 7, 24: No discussion</p> <p>October 1:</p> <p>Mentioning of UML artefact names (UCC) in YANG descriptions creates problems. E.g., TerminationPoint (object class) is converted in YANG to termination-point (statement) but if "TerminationPoint" appears in the related YANG description it is remains TerminationPoint.</p> <p>Agreement: The Mapping Tool should convert also the artefact names within the descriptions to YANG style (i.e., kebak-case). The list of names to be converted in the descriptio is limited to the UML artefact names.</p> <ul style="list-style-type: none"> Bernd Zeuner 15 Oct 2021 Update the Mapping Guidelines with a rule that artefact names within the descriptions should be converted to YANG style. |

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| 6 | Papyrus-Model2Doc feature | Scott Mansfield | <p>May 14: 2021-05-14 IISOMI Meeting notes</p> <p>Scott Mansfield presented the Model2Doc feature from Papyrus</p> <ul style="list-style-type: none"> • 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 • <i>Gendoc does not work with newer Papyrus versions (see below)</i> • 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.) <p>GenDoc no longer work with Eclipse Papyrus 2020-06.</p> <p>May 28: 2021-05-28 IISOMI Meeting notes</p> <ul style="list-style-type: none"> • 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. <p>...</p> <p>September 7, 24, October 1: No discussion</p> |
| 7 | Papyrus Releases | All | <p>Consider a plan for convergence of ITU-T Q14/15, ONF Common IM and TAPI to 2020-06 (4.16) version</p> <p>September 24: Reaffirmed the need to explore 2020-06 (4.16) release</p> <p>October 1: No discussion</p> |
| 8 | Private GitHub | Scott Mansfield | <p>Just for information; was not discussed October 1:</p> <p>Scott Mansfield created reengineer-private Github repository and added the reengineered IEEE and IETF YANG models from February 12, 2020 to it. People interested can ask Scott Mansfield for the access.</p> |
| 9 | Cleanup of the existing public GitHub (ONF EAGLE), rationalize the forks /branches | Scott Mansfield | <ul style="list-style-type: none"> • Currently there are 7 forks of OpenNetworkingFoundation/EagleUmlYang repository:  <ul style="list-style-type: none"> • Scott Mansfield clarifies that the Karthik Sethuraman fork is the base of his developments (carried out in his "private" Github). • There is an open pull request #15 with some conflicts to be solved. <ul style="list-style-type: none"> • Once solved, the main repository OpenNetworkingFoundation/EagleUmlYang (Tapi_v2x branch) will be aligned to Karthik Sethuraman fork. <ul style="list-style-type: none"> • This will allow Scott Mansfield future commits on Karthik Sethuraman fork, to make publicly available the tool improvements. • Scott Mansfield suggests to add a new branch to OpenNetworkingFoundation/EagleUmlYang and possibly define an Eagle Release. <p>September 7: No discussion</p> <p>September 24: Scott Mansfield clarifies that without the involvement of key folks with authority on Github no progress can be performed. No administrators appear for ONF EAG Github.</p> <p>October 1: No discussion</p> |

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|----|--------|-----------------------|-------------------------------------|--|
| 10 | | GenDoc Issues | All Hing-Kam Lam | <p>GenDoc output for Interfaces, Operations, Associations, Abstractions</p> <p>How to dump endpoints of abstractions?</p>  <p>Italo Busi Dump of Realizations possible? Andrea Mazzini Given that <i>Interface Realizations</i> are dumped as <i>Abstractions</i>, maybe this is valid also for <i>Realizations</i>.</p> <p>Other GenDoc Issues</p> <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 OstigOTipSource::txi: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. <p>September 7, 24, October 1: No discussion</p> |
| 11 | 10 min | UML YANG Mapping Tool | Martin Skorupski | <p>O-RAN cooperation</p> <p>October 1:</p> <p>O-RAN policy has changed collaboration rules. (O-RAN Alliance is registered in Germany)</p> <p>Martin Skorupski 15 Oct 2021 check with O-RAN the tooling funding status. There is hope, not dead, but not moving either.</p> <p><input checked="" type="checkbox"/> Martin Skorupski 19 Nov 2021 Get a written statement from O-RAN leadership on state of tooling funding.</p> |
| 12 | | Agenda of next call | All | <ul style="list-style-type: none"> • Administrative <ul style="list-style-type: none"> • Call plan (schedule, leader) • Review IISOMI Action Items • Discussion items in Wiki pages • Mapping Guidelines <ul style="list-style-type: none"> • Check Martin work is represented in latest Guidelines. • Feature/condition • UML YANG Mapping Tool update <ul style="list-style-type: none"> • O-RAN cooperation • Papyrus-Model2Doc further investigations? • Private GitHub • Public GitHub • GenDoc Issues <ul style="list-style-type: none"> • GenDoc output for Interfaces, Operations, Associations, Abstractions • Agenda of next call • AOB |

Action items

