

# 2021-02-24 5G-xHaul Meeting notes

24 Feb 2021 | 6am PST | 6am EST | **10:00 UTC** | 11:00 CET | 12:00 EET | 15:30 IST | 18:00 CST | 19:00 JST |

Web Conference:

<https://thorsten-heinze-telefonica-de.webex.com/join/andreas.lattoch.external>

## Attendees

- Alex Stancu ★
- Andrea Delmonte
- @Andreas Lattoch ★
- Alok Surve
- Daniela Spreafico ★
- Daniel Perez Calvo ★
- Danilo Pala ★
- Eduardo Yusta ★
- Hubing
- Hsudarsa
- Jorge Lopez
- Istvan Vencz
- Jasper Yang
- Leo
- Ma Yong
- Michael Binder
- Nader Zein ★
- Paul Parva
- Pawel Krecicki
- Petr Jurcik
- Prathiba ★
- Roberto Servadio ★
- Shuzhan
- Thomas Seitz
- Thomas Schulze
- Tian Zhu
- Thorsten Heinze
- Yossi ★
- Zhang Dong
- Martin Skorupski ★

## Info to:

- Tracy Van Brakle

## Goals

- going forward

(please feel free to correct and update your names 😊 Thank you very much!!!)

## Discussion items

Time	Item	Who	Notes
00:00	chair topic		no update
00:00	Admin		<b>Next meetings</b> 2020-03-03: <a href="#">Martin Skorupski</a> 2020-03-10: <a href="#">Martin Skorupski</a> 2020-03-17: <a href="#">Martin Skorupski</a> 2020-03-24: <a href="#">Martin Skorupski</a>

00:00	Firmware RPCs	<p>Thorsten Heinze @Eduar do Yusta</p>	<ul style="list-style-type: none"> <li>▪ abort of download</li> <li>Constrain: only one download per ControlContract (device): <ul style="list-style-type: none"> <li>▪ as input: <a href="https://www.o-ran.org/specifications">https://www.o-ran.org/specifications</a> - please see <b>O-RAN Management Plane Specification - YANG Models 4.0 - July 2020</b></li> <li>O-RAN.WG4.MP-YANGs-v04.00</li> <li>YO-RAN.WG4.MP-YANGs-v04.00_.zip\Common Models\Operations\o-ran-file-management.yang</li> <li>-</li> </ul> </li> <li>▪ as input: <a href="https://github.com/OpenROADM/OpenROADM_MSA_Public/blob/master/model/Device/org-openroadm-file-transfer.yang">https://github.com/OpenROADM/OpenROADM_MSA_Public/blob/master/model/Device/org-openroadm-file-transfer.yang</a></li> <li>▪ no destination needed - it ends in the currently not active bank.</li> <li>▪ force option</li> </ul> <ul style="list-style-type: none"> <li>▪ abort of download</li> <li>▪ activate firmware <ul style="list-style-type: none"> <li>▪ activating stand-by is same as deactivating active</li> </ul> </li> </ul> <p>Notification required</p> <ul style="list-style-type: none"> <li>▪ alarm vs attribute-value-change (trend: status attributes with AVC)</li> <li>▪ RPC return value vs notification (trend: notification)</li> <li>▪ Status values are needed in any case, for cases where notifications are lost</li> <li>▪ Thorsten to send a proposal for further discussions</li> </ul> <p>GlobalClass vs LocalClass</p> <p>Agenda for tomorrow</p> <ul style="list-style-type: none"> <li>▪ MediatorComponents</li> </ul>
	<p>End of the meeting</p> <p>Discussions to be continued:</p>		
00:05	FC VLAN Creation	<p>Thorsten Heinze</p>	<p>RPC for FD:VLAN-FC creation</p> <ul style="list-style-type: none"> <li>▪ yang RPC- FC creation <ul style="list-style-type: none"> <li>▪ input <ul style="list-style-type: none"> <li>▪ FD:uuid to address the FD</li> <li>▪ vlanId the "real" interesting parameter</li> </ul> </li> <li>▪ output <ul style="list-style-type: none"> <li>▪ FC:uuid</li> </ul> </li> </ul> </li> </ul> <p>now the FC:uuid is known to all application.</p> <p>The FC has no FCports at this point in time.</p> <ul style="list-style-type: none"> <li>▪ yang RCP - target: creation for FCPorts <ul style="list-style-type: none"> <li>▪ input <ul style="list-style-type: none"> <li>▪ FC:uuid</li> <li>▪ port role?!?!</li> <li>▪ associations to LTP(VLAN)</li> </ul> </li> </ul> </li> </ul> <p><b>Continue</b> the discussion on 2020-10-21</p> <p>YANG provided by email and openBackhaul (<a href="#">link</a>)</p> <p>new: RPC at the end - please check!!! 😊</p> <p>new: "port-and-protocol-based-vlan-is-avail"</p> <p>renamed: "lfc-address" to "lfc-address-list"</p> <p>2020-02-03</p> <ul style="list-style-type: none"> <li>▪ updates made on the error messages</li> </ul>

00:00	Firmware	@Eduardo Yusta	<p>Eduardo explained his proposal about how to describe firmware (<a href="https://groups.google.com/a/opennetworking.org/g/wireless-transport/c/3BJHnPa5PRU">https://groups.google.com/a/opennetworking.org/g/wireless-transport/c/3BJHnPa5PRU</a>) and addressed a couple of questions to the vendors.</p> <p>Continuing the discussion about firmware. NEC provided input and it was consolidated in the proposal.</p> <p>How to activate a software package: leaf or RPC?</p> <p>Discussions still needed, <b>RPC is preferred, need to see how to model and how to integrate in our processes (Papyrus, UML2YANG etc.)</b></p> <p><a href="#">Alex Stancu</a> to provide example from O-RAN FH model about how it is done in o-ran-software-management; then we can assess how we can adapt it to our needs.</p> <p>SIAE is checking if RPC is feasible; Nokia will also do some checking. <b>maybe RPCs will be useful in other situations as well, we need to see</b></p> <p>Do we need also a Download RPC? Probably. But this could be considered outside of the package model, does not really influence the inventory part.</p> <p><b>Is ImageName (string) and ImageVersion (string) combination enough for uniquely identify a software image?</b></p> <p>ImageSize proposed to be eliminated. No objections.</p> <p>ImageClass - need to see what happens if the case vendors do not support it; same for ImageIdentifier</p> <p>ImageComparison proposed to be eliminated. No objections.</p> <p>Need further discussions.</p> <p>2020-01-13:</p> <p><b>Package Activation:</b></p> <ul style="list-style-type: none"> <li>▪ attribute vs RPC <ul style="list-style-type: none"> <li>▪ RPC seems to be the way forward <ul style="list-style-type: none"> <li>▪ impact on UML/UML2YANG/YANG</li> <li>▪ similar discussion for FC(VLAN) creation via RPC</li> <li>▪ UML/YANG modeling guideline uses term "operations" (not PRC)</li> <li>▪ investigation ongoing Package Activation will gain by the VLAN-FC creation</li> </ul> </li> </ul> </li> </ul> <p><b>Parameter</b> (status report and further discussion)</p> <ul style="list-style-type: none"> <li>▪ Package</li> <li>▪ Image <ul style="list-style-type: none"> <li>▪ regarding "imageIdentifier" - proposal to be discarded - however feedback from vendor will drive final decision</li> </ul> </li> </ul> <p>Package and Image class should inherit from GlobalClass - same as for Profile</p> <p>2020-01-20</p> <p>UML for Firmware</p> <p>Firmware model as on conditional package for Controlconstruct</p> <p>2020-02-03</p> <p><a href="https://groups.google.com/a/opennetworking.org/g/wireless-transport/c/14-6181JZol">https://groups.google.com/a/opennetworking.org/g/wireless-transport/c/14-6181JZol</a></p>
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## Action items