

2020-11-18 5G-xHaul Meeting notes

Date

18 Nov 2020 | 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 ★
- @Andreas Lattoch ★
- Alok Surve
- Daniela Spreafico ★
- Danilo Pala ★
- Daniel Perez Calvo ★
- 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
- 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		Next meetings 2020-11-18: Martin Skorupski 2020-11-25: Martin Skorupski 2020-12-02: ??? 2020-12-19: Martin Skorupski
00:05	Issues in General	Thorsten Heinze Martin Skorupski	INFO: https://github.com/openBackhaul/core/wiki/summary-of-issues

0:15	Firmware	@Eduardo Yusta	<p>Use case discussion challenging the model proposal:</p> <p>Please see updated slides (thanks Eduardo).</p> <p>https://wiki.opennetworking.org/download/attachments/265093121/201102-TEF-working-document-FirmwareModeling.pptx?api=v2</p> <p>Feedback from vendors:</p> <ul style="list-style-type: none"> • working assumption: (running) Firmware pointing to (actual) Equipment <ul style="list-style-type: none"> • assumption <ul style="list-style-type: none"> • 2 banks (logical structure of firmware) <ul style="list-style-type: none"> • on running bank list of firmware <ul style="list-style-type: none"> • some of the unused those wont have an associations to (actual) Equipment • Question: is the "top-level" firmware a "bank"? <ul style="list-style-type: none"> • software packages 1 and 2 bank 1 and 2 or active/inactive top-level firmware. • Consideration: firmware without software package • SIAE: option to implement in addition also pointer from Equipment to Firmware <p>Firmware inventory</p> <ul style="list-style-type: none"> ▪ UML and yang creation <p>Firmware operations</p> <ul style="list-style-type: none"> ▪ download, activation, upgrade, downgrade ▪ terms and definitions, needed before UML and yang
00:45	Reboot	Martin Skorupski	<p>As a result of the discussion about Firmware, there might be a need for a "restart" trigger.</p> <p>The "software activation trigger" usually also leads to a "restart" but with new software, which a "restart" reboots using the currently running software.</p> <p>Other terms for the same? or similar? function:</p> <ul style="list-style-type: none"> ▪ cold start (Power down, power up; traffic loss for sure) ▪ warm start (restarting software - may have - may not have traffic loss) ▪ reboot - this term should not be used as it is not clearly defined/used <ul style="list-style-type: none"> ▪ (factory) reset (configuration is lost) - not a field/remote-controller operation LCT operation should not be covered in your API models <p>Questions:</p> <ul style="list-style-type: none"> ▪ Is a "cold start/warm start" trigger beneficial on ControlConstruct level only? ▪ Is a "cold start/warm start" trigger beneficial on Equipment level only? There are devices offering such options: ▪ both? <p>General reboot</p> <ul style="list-style-type: none"> ▪ cold start / warm start on device level

	@Eduardo Yusta	License Management	<p>Questions:</p> <ul style="list-style-type: none"> • Are License be updated during life time of the device? <ul style="list-style-type: none"> • Answer: yes - there are such cases, particularly for feature enhancements or for later enabling a license - xPIC may come later, when the second link is deployed. • Understanding association between License Firmware, LTP, Hardware, Features/Function? • Do all devices require a license? • Is a "feature-key" a "License" - from functional point: yes • What kind of License types needs to be supported - Software, Hardware, Interface, LTP, Capacity, Features, Function, <ul style="list-style-type: none"> • Frist idea: focus on interface-capabilities <p>First proposal:</p> <ul style="list-style-type: none"> • ControlConstruct <ul style="list-style-type: none"> • LicenseList <ul style="list-style-type: none"> • License <ul style="list-style-type: none"> • Name • Type • Description • key (value; hash to be checked against, ...) • additional-configuration - (e.g. max capacity is xyz MBit/s) • State: activated; expired, no-active, • pointing to "something" <p>2020-11-18</p> <ul style="list-style-type: none"> ▪ further introduction of the last slide: https://wiki.opennetworking.org/download/attachments/265093121/201102-TEF-working-document-FirmwareModeling.pptx?api=v2 ▪ collection of ideas / use cases driving a model are ongoing.
	End of the meeting		
	Backlog		
	PureEthernetStructure, HybridMwStructure	Daniela Spreafico	<p>Please see email_</p> <p>Please see related issues:</p> <ul style="list-style-type: none"> • PureEthernetStructure #19 • HybridMwStructure #22 (alarms) • HybridMwStructure #19 (currentPerformance) • HybridMwStructure #18 (PM types) <p>Please confirm by email to Martin Skorupski by end of this week (Nov6) that keeping FM and PM for xyzStructure is ok?</p> <p>Status: positive feedback to keep it as it is:</p> <p>Decision: we keep xyzStructure as they are and close the issues above.</p>
	Roberto Servadio		<p>RMON counter</p> <ul style="list-style-type: none"> ▪ RMON counter in ETH-Container, while others are in MAC-Interface ▪ Open question: Where centralize the RMON counter ▪ Working assumption: All RMON counters should be part of the EthernetContainer_PAC (Status and PerformanceMonitoring) ▪ Next Step: <ul style="list-style-type: none"> ▪ update related ETH and MAC issues in OpenBackhaul for final proposal ▪ At Martin Skorupski consolidate proposed solutions <p>Update:</p> <p>Support is welcome to consolidate with respect to RMON</p> <ul style="list-style-type: none"> ▪ https://github.com/openBackhaul/ethernetContainer/issues ▪ https://github.com/openBackhaul/macInterface/issues

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00:00	Layering discussion (FCs, FDs etc.)	Thorsten Heinze	<ul style="list-style-type: none"> • Will publish in wiki the latest slide which is the result of discussions: <div style="border: 1px solid gray; padding: 10px; text-align: center;">  slides to be published.pptx </div> <ul style="list-style-type: none"> • link to the contribution: 2020-09-16 5G-xHaul Meeting notes • Continue discussion from last week • Question: <ul style="list-style-type: none"> • 1x VLAN FD and 2x VLAN FC <ul style="list-style-type: none"> • Impact on MAC interfaces • 1:1 between VLAN-IF-LTP and EthernetContainer-LTP • 1x physical only one MAC-Interface? • MacSwitch attributes: mac-address-learning, aging-time - are such attributes sufficient to instantiate a new FD /FC objects. • MacFC could give a better overview - further clarifications <p>Agenda: 2020-09-30</p> <p>Discussion and agreement about the following proposal:</p> <ul style="list-style-type: none"> ▪ Link to email with the proposal <p>Discussion</p> <p>The following aspects are proposed to be decided by the 5G-xhaul subproject.</p> <ul style="list-style-type: none"> - The ForwardingDomain shall be interpreted as a Potential for Forwarding (e.g. SDH Matrix). [sko] Potential: something which allows the creation of "forwarding" based in the FD:LTP - The ForwardingConstruct shall be interpreted as an Actual Forwarding (e.g. Connection between two VC-12 endpoints at the SDH Matrix). [sko] Actual: configured Forwarding – check operational states and traffic flow - There might be 0 .. * ForwardingConstructs inside a ForwardingDomain. [sko] ok <p>Discussion on dependencies between LTPs, FD, FC and between the layers will continue...</p> <p>Agenda: 2020-10-07</p> <ul style="list-style-type: none"> ▪ Last week we started discussing a HUB presentation using FD and FCs: but there are several ways to represent a HUB: Depending on the chosen representation there are different consequences. ... (see attachment: link)
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Action items