

Attendees

?? NTT-East.

Shawn Ying. Product Owner

Chip Boling, Adtran developer. Been working for 6 months on vOLTHA.

Julie Lorentzen, AT&T. Reports to Bill Hurst. Editor for OMCI in FSAN.

Kent McCammon, AT&T San Ramon. Moved from Wireless back to PON, working for Mounier with Shawn.

Sisir Chowdhury, SW Architect.

Kim Kempf, System Architect at Radisys. Open white-box solns for vOLTHA.

Frank DiMayo, Broadband Adaptation layer, BAL

Sam Chen, BRCM PON MGR, OMCI

Jim McKeon, Brcm, marketing

Dave Baron, BRCM

Sireesha Kora, Nokia

Sergio Slobodrian Ciena, Dir Dev, MDO CORD, ONOS

David Bainbridge, Ciena.

Tom Anschutz, DMTS AT&T

Ali Al-Shabibi. Cerra.

Jeff Gatlan Edge-Core.

Steve Wallace, Broadcom Maple engineer.

On the phone:

Mounier, AT&T.

Mark Shotack. AT&T design.

Michel Desjardins, Ciena

Steve Crooks, Ciena

Donna Reineck-Whelan vOLTHA scrum master.

Saurav Das, Broadcom B0 Adapter

- Current status
 - BAL code currently in the twisted / cython module, which is a separate VM between the vOLTHA and the OLT.
 - BAL is open, but not published.
 - Twisted / Cython module is proprietary. Ciena and Radisys each have their own versions.
 - BRCM has now refactored so BAL runs on the OLT and presents the BAL API northbound.
 - Transport for the API is not open sourced.
- Proposal
 - gRPC / protobufs between maple_olt adapter and OLT.
 - Need to use Maple SDK API to talk to the ONTs. Would need to make these calls via gRPC. Closed code on the OLT would translate between gRPC & Maple SDK.
 - ON.Lab will be responsible for supplying the binary for the OLT that translates between gRPC, BAL, and Maple. This binary will be proprietary.
 - No guarantees this will make it into phase 3. ON.Lab has only 75% of 1 resource. Accton and Kim from Radisys have volunteered to help.
 - There are two ways to handle control traffic
 - On the data plane on a specific VLAN, which would be connected to the vOLTHA. This gets complicated when you have more than one vOLTHA core running because there's no way to direct the control traffic to the proper vOLTHA.
 - Tunneled on the control channel between the vOLTHA adapter and the OLT. The drawback is that it hits the CPU on the OLT.
 - BAL version
 - Frank DiMayo, BRCM recommends waiting for the 2.4 release. ON.Lab could take an early version of 2.4 now because the object model is going to change significantly.
 - Current plan is to release 2.4 end of July. Code freeze early July / late June.
 - ON.Lab has no hardware yet. BRCM has committed an SDK (2 Maple + Kumran.) ONTs will come later.
 - SDK will have 2.2.
 - Platform management
 - Purpose of BAL is to make data plane control easy. Platform control (fans, power, etc. will be separate
 - Edge-Core planning to control this with RedFish.

- Phase 3 will run on proto OCP hardware, not the SDK. Edge-Core OCP OLT runs x86..
- OMCI
 - There's a NB interface into OMCI similar to the BAL. Deals with flows and subscriber terminals. Not open today. OCMI will go over gRPC between OLT and adapter, then translated into OMCI on the OLT.
- Frank BRCM suggests that other non-BRCM OLTs expose BAL.
- Tom A.: maple_olt is not a good name for the adapter. Each OEM is going to have a different adapter because the ports / fans / power / etc. will be different.
- Cumulus has proposed to use ACPI to detect hardware and load appropriate drivers in a Windows / Linux like way where the OS discovers the HW and loads the appropriate driver.
- ON.Lab will write stories and ask for help from the community to develop against the stories.
- For phase 3 trial, this adapter will still be part of vOLTHA core and not separated via gRPC.

Tom Anschutz: SW stack

- SW on the box would include RedFish or IPMI plus the “application” software shown in Saurav’s presentation
- Expect Edge-Core to include low-level SW for the OLT. ONIE, diags, BMC. ONL, programming application agent to the agent. Kumran & Maple SDKs with BAL core and BAL API. Offered as either an ONIE-installable blob or piecemeal as needed.
- Tom A: We’d add the gRPC app, which would attach to the BAL & RedFish. That would be packaged as the ONIE-installable blob for field deployments.
- Jeff G.: Still need to determine other things:
 - LAG
 - Upgrades to the ONIE-installable NOS.
- ISSU: Cannot re-direct traffic away from PON. ISSU important, but not a requirement for phase 3 / 4.
- Jeff G.: Edge-Core initial HW shipping 6/1, arriving to partners 6/7. BRCM & ON.Lab each receiving 2 units. Includes BAL & SDK as an ONIE-installable image. That’s with 2.2 BAL. Willing to include 2.4 if BRCM supplies. Provided as a free binary by ON.Lab or individually to other companies.
- Shawn Y / Saurav.: vOLTHA 1.0 release doesn’t have a dependency on the completion of the Broadcom adapter or any other adapter. But we are planning on releasing by 8/14 to be ready for Phase 3 trial.

Donna Wrap-Up

1. Get list of contributors to Donna by this Friday and ensure they're on the calls
2. Mapping features into Jira stories.
 - a. Story point guidelines: Use Fibonacci numbers.
 - b. Use Agile story format with actors so tech writers can understand:
 - i. As a __ I need __ so that I can __.
3. Sergio update status on existing stories, and un-assign those not being worked.
4. Sprint 1 planning on 5/30.

NETCONF

- BBF releasing YANG models to ON.Lab. They're looking for feedback.