



Min Yu &lt;myu@linuxfoundation.org&gt;

---

## Minutes from the OPNFV End User Advisory Group Pain Points Overview call (August 2, 2017)

1 message

---

**Min Yu** <myu@linuxfoundation.org>

Thu, Aug 3, 2017 at 9:23 PM

To: opnfv-enduser-advisory-group@lists.opnfv.org

**Attendees:** Brian Smith, Bryan Sullivan, Don Clarke, Fu Qiao, Herbert Damker, Karim Rabie, Randy Levensalor, Steven Wright, Tapio Tallgren, Tetsuya Nakamura  
The Linux Foundation: Brandon Wick, David McBride, Heather Kirksey, Ray Paik, Min Yu

### Minutes

- Randy noted that the purpose of this call series is to re-organize the pain points, to map them to current projects (and to identify gaps in the process), and to break them down to actionable requirements for the OPNFV technical community to address.
- Bryan clarified that the pain points are the barriers end users encounter during the overall NFV deployment; not necessarily about integrating the OPNFV stack. He encouraged all EUAG members to use the calls to 1) share their experiences and perspectives, and 2) discuss the pain points in detail to identify what OPNFV is already doing/not doing, and what it could do. He's asking for more input on the pain points wiki.
- Brian shared that the EUAG has been a useful introduction to the culture of OPNFV but that getting OPNFV going at Bell Canada has been difficult. He would like to see a better feedback loop between standards bodies such as 3GPP and open source communities. Regarding the specific 3GPP use cases to tackle, he identified 1) more programmable open interface through SA5 Telecom Management, and, 2) software defined radio space with OpenAirInterface 5G. Brian also expressed the desire to see it less expensive to run and operate EMS systems. Bryan Sullivan added that this is really a fast high performance automation (edge computing) issue that's being addressed in ONAP. On this topic, Brian recommended building an economic model/argument for edge computing. Randy commented that EMS operations align well with the resiliency and scale issues of the VNF onboarding pain point and that some progress has been made toward low latency technical requirements in OPNFV through the SampleVNF project. Brian also mentioned the upcoming need to support VR and autonomous driving.
- Herbert shared that the pain points are a good overview of things operators will run into when virtualizing their network functions. He pointed out automated cloud lifecycle management and application management post deployment as the main challenges. Randy added that infrastructure lifecycle management and VNF/applications lifecycle management, though related, are two distinctive challenges. Herbert plans to provide a couple of use cases on the wiki in about a month keeping upgrade and/or re-deployment separate.
- Fu Qiao shared that the existing pain points do not capture all the challenges operators face for real NFV deployments. She noted 4 areas of challenges: 1) integration 2) automatic testing and deployment 3) containers 4) storage. She said that OPNFV projects such as Dovetail, OpenRetriever, and StorePerf address some, but not all, aspects of these challenges. Regarding integration, Fu Qiao noted the need to have some unity among VNFs provided by different vendors to lessen the integration challenges with the platform. Randy agreed that the common requirements VNFs should have in order to support the platform is an area to dive deeper into. Fu Qiao plans to provide more details on the wiki on integration and testing before the next pain points meeting.

- Karim shared that he is particularly interested in the VNF onboarding pain point. Karim also expressed the need for OPNFV and ETSI NFV to collaborate more closely to drive a standardized approach when it comes to VNF package onboarding following the ETSI NFV specs. Tetsuya pointed out that links to the recent ETSI NFV-ISG Stage 3 specifications and API Conventions have been posted on the OPNFV wiki here: <https://wiki.opnfv.org/display/COM/ETSI>.
- Regarding the absence of an OSM-focused integration project within OPNFV, Tetsuya noted that because OSM works closely with ETSI NFV, OSM's requirements will be reflected in ETSI NFV sooner or later. If OPNFV implements ETSI NFV specs, OSM's requirements will be integrated in OPNFV. Tetsuya recommended that given ETSI NFV just published the ISG Stage 3 specifications, including API specs between VNFEM-EM/VNF, VNFEM-NFVO, and NFVO-OSS/BSS as well as VNF package specs, now is a good time for OPNFV to take ETSI NFV specs into serious consideration. Bryan suggested continuing the ETSI NFV compliance discussion in a future EUAG call.
- There was a discussion about the current state of industry fragmentation (open source and commercial solutions) and the role OPNFV and standards bodies could play in pulling the industry together in a coherent way. Bryan questioned whether or not a common ground established by either the open source community or a standards body could accommodate the rapid NFV evolution. Don noted the question here is how to move fast without fragmentation within the industry. He commented that operators like AT&T are ahead of the curve in addressing significant technological innovations while many other operators and cable providers are in need of a set of common specs to refer to. He added that since ETSI NFV has completed Stage 3 specifications he encourages the industry to start to converge on those. However, Bryan maintained that this remains a topic of discussion.
- Steven suggested identifying these fragmentations. He further added that if integration activities are an important objective to help converge the industry, then operators need to express the desire to the Board and get their buy in to invest in a long-term program. Steven also thought that having OPNFV specifically target industry fragmentation is a bigger issue than pain points. He will add this item to the agenda for the next regular EUAG call.
- To make more tangible progress on pain points, Randy will send a short survey to EUAG members to select one area to focus on during the next pain points review call. He suggested the format of using half of the call in fleshing out the pain point and the other half on identifying gaps, bringing closure, and transitioning to project requirements.

--

Min Yu  
Senior Operations Analyst  
The Linux Foundation  
[+1\(530\) 902-6464](tel:+15309026464) (m)  
[myu@linuxfoundation.org](mailto:myu@linuxfoundation.org)  
Skype: minyudecorah