

# SDN Enabled Broadband Access (SEBA) for Telco Appliance Blueprint Family

**Project Technical Lead:** To Be Elected (For the interim, SEBA blueprint meetings are combined with [Radio Edge Cloud Project Meetings](#) under the Telco Appliance blueprint family)

Julie LORENTZEN, AT&T, Elected 8/27/19. Julie stepped down as PTL on 03 Feb 2020. Self-Nomination should be completed by 02/11/2020. Elections will be held 12 Feb 2020

Aaron Byrd. Elected 1/17/19. Aaron Byrd stepped down as PTL on 7/30/2019. Elections for new PTL will be held 8/26/19. Self-Nomination should be completed by 8/23/19.

## **Project Committers detail:**

Initial Committers for a project will be specified at project creation. Committers have the right to commit code to the source code management system for that project.

A Contributor may be promoted to a Committer by the project's Committers after demonstrating a history of contributions to that project.

Candidates for the project's Project Technical Leader will be derived from the Committers of the Project. Candidates must self nominate by marking "Y" in the Self Nominate column below by Jan. 16th. Voting will take place January 17th.

Only Committers for a project are eligible to vote for a project's Project Technical Lead.

Please see [Akraio Technical Community Document](#) section 3.1.3 for more detailed information.

Committer	Committer Company	Committer Contact Info
Deepak Kataria	AT&T	dd7022@us.att.com
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Contributor	Contributor Company	Contributor Contact Info
Mahir Gunyel	Netsia	mahir.gunyel@netsia.com

## **Upstream SEBA Project information:**

SEBA project page (meeting times, mailing list, developer information): <https://wiki.opencord.org/display/CORD/SEBA>

SEBA Documentation: <https://guide.opencord.org/>

- Virtualized SEBA installation for testing and development w/o PON access hardware: [SEBA-in-a-Box](#)
- [Hardware requirements](#)
- [API Documentation](#)

For more information, please contact Zack Williams (contact info above), or post on [the upstream SEBA project mailing list](#).

## **Use Case Details:**

Case Attributes	Description	Informational
Type	New blueprint for fixed wireline access within Telco Appliance Blueprint family	

Blueprint Family - Proposed Name	Telco Appliance	
Use Case	Virtual broadband access (XGS-PON - Higher bandwidth, symmetric version of GPON)	
Blueprint proposed Name	SDN Enabled Broadband Access (SEBA)	
Scale & Type	3 servers per POD x86 and Arm (with 8-16 cores each)	
Applications	Virtual broadband access – vOLT access & aggregation (5000 edge locations)	
Power Restrictions	Less than 1 kW. NEBS and 48V DC	
Infrastructure orchestration	OS - CentOS Docker / K8 - Container Orchestration DANM Open Network Operating System (ONOS) and XOS VOLTHA (Virtual Optical Line Terminal Hardware Abstraction – CORD project) Network Edge Mediator (NEM) ONAP EMS/NMS Adaptor	
SDN	ONOS OF & Redfish	
Workload Type	Containers	
Additional Details	Akraino based community blueprint, Full Automation Cloud layer hardened for production Current SEBA POD contains network elements, compute nodes, and software components. Aggregation and management switches Three compute nodes required for K8 redundancy About twenty containers running ONOS, XOS, VOLTHA, NEM, etc Supports up to 16 OLTs.	See attachment for additional details

## **Presentation:**



SEBA-Blueprint-NC-v1.2.pdf