

Broadband Forum Project Participation
Agreement
("Agreement")

Project name: Open Broadband – Broadband Access Abstraction ("OB-BAA Project")

Project IPR type: Modified RAND (BBF IPR Policy) for Submissions; RANDZ (Apache 2.0) for Contributions

Thank you for your interest in participating in the Project. Please print, complete, and sign, then scan and email a pdf file of the signed Agreement to info@broadband-forum.org. If necessary, send an original signed Agreement to 5177 Brandin Court, Fremont, CA 94538 USA.

Please read this document and any attachments carefully before signing, and keep a copy for your records.

Entity name: _____

Entity address: _____

Point of Contact: _____

E-Mail: _____

Telephone: _____ Fax: _____

This Project will develop two types of deliverables:

- a software deliverable or deliverables in the form of source code and any resulting object code compiled from such source code , together defined herein as the "Program(s)" (the object code taken as a whole, and not any individual component part used independently); and
- related, non-code software development support items defined herein as "Artifacts". The items that could be developed in this Project and categorized as Artifacts include, but are not limited to, the items described as such in Sections A and B of the Charter below. However, for the avoidance of doubt, items beyond relevant software development support items are developed in the BBF Technical Committee according to established BBF procedures.

Except as otherwise provided in the attached charter of this Project ("Charter"), participation in this Project is subject to the Broadband Forum Intellectual Property Rights Policy ("BBF IPR Policy"), and the Broadband Forum Rules of Procedure ("Policies and Procedures"), copies of which may be found at: <https://www.broadband-forum.org/about-the-broadband-forum/membership/policies-and-procedures..>

Notwithstanding the above, the provisions of this Agreement are as of the date below under further review by BBF. If and when a revised version of this Agreement is reviewed and approved by BBF, the undersigned, and BBF shall amend this Agreement to be identical to the final Project agreement approved by BBF, and the terms of such revised Agreement shall apply retroactively to the date of this Agreement; provided, however, if the undersigned is not willing to accept such changes and sign such an amendment, it shall have the right to withdraw from the Project, and withdraw all Submissions and Contributions it has made to such Project, and the license and other obligations set forth in this Agreement and the Project IPR Policy shall not apply to such Submissions and Contributions.

By signing and returning a copy of this Agreement, you represent that you have read and understood the Charter that follows this signature page ("Charter"), BBF IPR Policy (as modified by the Charter), and Rules of Procedure, and accept and agree to be bound by the terms and processes, as applicable, of each of these documents.

Please sign: _____ Date: _____

Name/Title: _____

CHARTER OF THE

OPEN BROADBAND – BROADBAND ACCESS ABSTRACTION PROJECT

NOTE: Because certain of the rules applicable to this Project lie outside the Broadband Forum Intellectual Property Rights Policy (“BBF IPR Policy”), a current copy of which may be found at: <https://www.broadband-forum.org/IPRPolicy2016.pdf>, this Project has been chartered under a variation of the BBF IPR Policy (the BBF IPR Policy, with the changes set forth below, is referred to as the “Project IPR Policy.” **Except as set forth below under Part D, the terms of the BBF IPR Policy shall apply to the Project and its deliverables.**

A. Detailed description of the Project:

This Project addresses the next level of detail in the Cloud Central Office BBF work by producing Stories and Epics that comprise a definition of OB-BAA functional behaviors and a software reference implementation that implements those behaviors. The Project will leverage the use of existing BBF and non-BBF YANG models for the Southbound Abstraction Interface (SAI). Additionally, the Project may define a set of new YANG models for the Northbound Abstraction Interface (NAI) that will provide the aggregated description of the underlying access network assets composed of specialized PNFs and VNFs. These NAI data models will cover a complete set of functionalities to provide automated access inventory, service provisioning & monitoring, as well as network commissioning functionalities. Also, the proposal of a test methodology supporting the interworking tests of the solution on NB Interface and SB Interface sides is expected.

The functional behavior descriptions, YANG models, and other items within the Artifacts developed by the Project can be submitted to the appropriate Work Areas within BBF for consideration in the definition of requirements and models in BBF TRs and/or other documents. Formal specification of requirements and data models remains the responsibility of BBF Work Areas.

In order to demonstrate OB-BAA functionality and provide implementation examples, one SBI plugin and a NETCONF NBI agent will be created as part of the Project. However, the Project will not undertake the implementation of a full set of SBI plugins and NBI agents. It is expected that additional SBI plugins and NBI agents will be added as part of specific distributions based on the OB-BAA project software.

B. Detailed description of Project deliverable(s):

1. Artifacts:

- OB-BAA Stories and Epics
- OB-BAA software architecture specification
- OB-BAA Functional behavior descriptions
- OB-BAA test methodology aligned with WT-414

2. Program:

- OB-BAA reference software deliverable or deliverables in the form of source code and any resulting object code compiled from such source code (the object code taken as a whole, and not any individual component part used independently); and
- OB-BAA software (interface) (including the reference libraries/software)

C. Deliverable(s) include (check all that apply):

- None
- Reference Implementation
- Stand-alone Software

D. BBF IPR Policy Variant Rules

The development of the Artifacts and Program(s) shall be deemed to be a "Project" under this Project IPR Policy.

As a condition to being permitted to participate in this Project, and by so participating, each Participant, and his or her employer, agrees as follows:

(a) For purposes of this Project IPR Policy, "Member" shall mean, individually and collectively, any individual and entity (whether or not a BBF member) participating in this Project. For the avoidance of doubt, no individual or entity that is not a member of the Broadband Forum will acquire any rights or assume any obligations except with respect to its participation in this Project, the Project's work in process, and its final deliverables.

(b) With respect to any Participant in this Project that is not representing a Broadband Forum member, such individual shall, solely for the purpose of participation in the Project, be deemed to be a Representative, and his or her employer (if any) will be deemed to be a Member, under the Project IPR Policy.

(c) Under this Project IPR Policy, defined terms applicable to the Program(s) shall have the meanings set forth in the Apache 2.0 license and defined terms applicable to the Artifacts shall have the meanings set forth in the BBF IPR Policy.

(d) The following text shall replace Section 3.1 of the BBF IPR Policy with respect to the Submissions of Artifacts and Contribution of Programs:

3.1 License Obligations

(i) With respect to the Program(s), any Participant making a Contribution to the Project shall be deemed, by taking such action, to have agreed that if the Draft Software in connection with which the Contribution made is finally approved by the Forum, the Contributor will provide a License under [Apache 2.0 \(http://www.apache.org/licenses/LICENSE-2.0\)](http://www.apache.org/licenses/LICENSE-2.0).

Note: For the avoidance of doubt only the terms of the Apache 2.0 license apply to Program(s) and not the BBF IPR Policy.

(ii) With respect to all other Submissions (i.e., Artifacts) any Submitter agrees to make such Submissions pursuant to the terms of the BBF IPR Policy. To the extent that any other Submissions would result in the infringement of a patent, they will be considered a "Draft Specification" under the BBF IPR Policy.

(e) The following text shall replace Section 3.2 of the BBF IPR Policy with respect to the Program(s) only: (for Artifacts, Section 3.2 is used as is.)

3.2 Member Disclosure and Identification Obligations

If at any time prior to the time that the draft Program is declared to be at final approval (as defined in the Rules of Procedure) a Participant shall become aware that either it, or one of its Related Parties, Owns a Necessary Claim or Claims that it is unwilling to License under RAND, (which shall not include any Necessary Claim or Claims under its own Contribution(s)), it shall identify such Necessary Claim(s), and the portion(s) of the Draft Software that would result in such infringement. In the case of Necessary Claims under non-public patent applications, the disclosure of such claims need not be in such detail as would disclose any trade secrets.

(f) All other provisions and defined terms in the BBF IPR Policy shall be deemed to be modified in the Project IPR Policy to the extent necessary to accommodate the above modifications.

E. Roles & Responsibilities:

Board of Directors – Are the overall authority for the Project, from initiation to termination. The Board has to approve this document and any amendments made thereafter.

Chair(s) - Are recommended by the Project participants and appointed by the Board. They are responsible for the conduct of the meetings and completion of the Project and its deliverables.

Project Participants – BBF Members are free to join the Project pending their signing of this Agreement.

Non-BBF Members can join the Project pending approval of the Board and signing this Agreement.

F. Process (exceptions to BBF Policies and Procedures):

Documents / deliverables approval will be recommended, assented and minuted at a regular meeting of the Project, with final approval by the Board.

G. Working with external groups:

Will be governed by a separate agreement between that group and the Board of BBF. Agreements may be made with other external groups (recommended by the Project participants and approved by the Board of BBF), but will not necessarily be listed in this Charter.

H. Amending the Charter:

May be recommended by a consensus of the participants of the Project, with approval by the Board of Directors. Any proposed amendments to the description and deliverables of the Project will receive a higher degree of due diligence as to whether that 'scope' proposal should be approved or whether a new 'scope' should be a new stand-alone Project.

Opting out from Projects with amended Charters:

In the event that the BBF Board of Directors approve any amendment to the Charter in its original or later amended state, any Participant in the Project may give written notice to info@broadband-forum.org of its withdrawal from the Project. In such event, its obligations under the BBF IPR Policy and Rules of Procedure, each as amended by this Charter, shall extend only to the most current drafts of the Project Deliverables as of the date of such withdrawal.

Appendix A

Broadband Forum

INTELLECTUAL PROPERTY RIGHTS IDENTIFICATION FORM

This form MUST be used by a Representative required or desiring to make a disclosure of IPR at any time prior to the date that the Project declares a Draft Program or Artifact to be at final approval. Disclosure of Necessary Claims that will not be Licensed, is REQUIRED.

NOTE: All blanks must be completed in order for this form to be given consideration. This form is subject to the Intellectual Property Rights Policy approved by Broadband Forum (the "Forum") for use by this Project (the "Project IPR Policy"), and the related Policies and Procedures document of the Forum "Rules of Procedure"). *All capitalized terms used in this form are intended to have the meanings given to them in the Project IPR Policy or the Rules of Procedure.*

Name of Project Member:	
Name of Representative Completing this Form on Behalf of Project Member:	
Mailing Address of Representative:	
Email Address of Representative:	
Draft Specification to which this Identification Form relates:	

A. The Representative hereby represents the following on behalf of him/herself and the Project Member, as the context requires:

1. The Representative is authorized to complete and submit this Identification Form on behalf of the Project Member, and to make the following representations and warranties.
2. The Representative and the Project Member have each reviewed the Project IPR Policy and Rules of Procedure, and agree that this Identification Form is being completed and submitted in full compliance with the same.
3. The Project Member hereby asserts that it has become aware that it Owns Necessary Claim(s) (other than under its own Submissions or Contributions, in the case of the first option below) relating to the Draft Software and/or Artifacts under development by the above Project, and asserts:

that no guarantee of License rights is made (or that such rights will in fact be denied in some or all cases) as to the Necessary Claims Owned by it and identified on **Exhibit A**, none of which relate to any of its Submission(s) or Contribution(s), together with the portions of the Draft Software and/or Artifacts that would result in such infringement.

that it is willing to provide a License without compensation and which it has, at its election, identified such claims on **Exhibit A**, together with the portions of the Draft Software and/or Artifacts that would result in such infringement.

that it is willing to provide a License for a royalty or other compensation, and which it has, at its election, identified such claims on **Exhibit A**, together with the portions of the Draft Software and/or Artifacts that would result in such infringement. This assurance does not require that the Representative specifically identify any such Necessary Claims on this Exhibit A.

NOTE: You may elect one option for some Necessary Claims and the other option for other Necessary Claims, so long as the attached Exhibit is completed properly.

4. If the Project Member has become aware of potentially Necessary Claims owned by third parties relating to the Draft Software and/or Artifacts under development by the above Project, it has identified such claims on **Exhibit A**, together with the portions of the Draft Software and/or Artifacts that would result in such infringement.

This Identification Form has been submitted on _____, 201_.

Name of Project Member

By: _____
Signature of Representative

Name: _____

Exhibit A

**WITHHELD
IPR**

Jurisdiction and Patent Number	Necessary Claim	Affected Portion of Draft Specification

**AVAILABLE IPR FOR WHICH A ROYALTY-FREE LICENSE
WILL BE REQUIRED**

Jurisdiction and Patent Number	Necessary Claim	Affected Portion of Draft Specification

**AVAILABLE IPR FOR WHICH A LICENSE FOR A ROYALTY OR OTHER
COMPENSATION
WILL BE REQUIRED**

Jurisdiction and Patent Number	Necessary Claim	Affected Portion of Draft Specification

**THIRD PARTY
IPR**

List here all Necessary Claim(s) Owned by third parties, to the extent of your knowledge.

Jurisdiction and Patent Number	Necessary Claim	Affected Portion of Draft Specification