

# Open Broadband



Open Broadband (OB) is a set of independent Broadband Forum projects that use a modified IPR Policy and possibly a different software license (which means they have their own participation agreements). An OB project may also allow membership by companies or individuals who are not currently BBF members.

Current work includes:

## Open Broadband - CloudCO App SDK (OB-CAS)

This OB-CloudCO-App SDK project will define and develop in BBF an open platform software environment and associated software development kit (SDK) through which control/management software providers can easily hook in their cloud application running in the BBF CloudCO management environment. It will demonstrate BBF's Automated Intelligent Management (AIM) by plugging AIM modeling function apps containing only core application code, while leveraging common cloud/CloudCO infrastructure services via pre-defined open APIs.

Project lead: TBD

Join the project: [Find out more and sign the participation agreement.](#)

View current work on the [OB-CAS Wiki Space](#)

## Open Broadband - Simple Two-Way Active Measurement Protocol (OB-STAMP)

The OB-STAMP (Open Broadband – Simple Two-Way Active Measurement Protocol) aims to create an open-source implementation of a STAMP Sender and Reflector, fully compatible with RFC 8762 and its associated extensions, to be installed on a Customer Premises Equipment (CPE). The application must run as a containerized application within the CPE following the User Services Platforms (USP) paradigms. The purpose is to develop a component outlined in the TR-390.2 document, thus facilitating the capacity to perform performance measurement between the customer's equipment and the IP Edge. The (soon-to-be) TR-390.2 Amendment 1 document also describes the feasibility of using the STAMP protocol to take the performance measurements in the subscriber home network.

Project lead: TBD

Join the project: [Find out more and sign the participation agreement.](#)

View current work on the [OB-STAMP Wiki Space](#)

## Open Broadband – WWC Reference Implementation for 5G-RG (OB-5WWC)

Open Broadband – WWC Reference Implementation for 5G-RG (OB-5WWC) is an open source project focused on creating reference implementation of BBF-specified Wireless-Wireline Convergence solution for 5G-capable Residential Gateways (5G-RG). Goal is to develop a production-grade 5G-Residential Gateway solution stack for integration into OpenWRT/RDK-B RG platforms/kits.

Project lead: [Manuel Paul](#), [David Woolley](#)

Join the project: [Find out more and sign the participation agreement](#).

View current work on the [OB-5WWC Wiki space](#)

#### Open Broadband-Broadband Access Abstraction (OB-BAA)

The Open Broadband-Broadband Access Abstraction (OB-BAA) is an open source project that specifies the Northbound Interfaces (NBI), Core Components and Southbound Adapter Interfaces (SAI) for functions associated with the access network devices (e.g., configuration, reporting, alarms) that have been virtualized. Inherent in the OB-BAA project is the ability to pull differing access device types, including legacy implementations, together under a single network and service management & control umbrella to be exposed to management elements such as the SDN Management and/or Control and Element Management Systems.

Project lead: [tom van caenegem](#)

Join the project: [Find out more and sign the participation agreement](#).

View current work on the [OB-BAA Wiki space](#)

#### Open Broadband-Multi Access Point (OB-MAP)

The Open Broadband-Multi Access Point (OB-MAP) project includes generating requirements for features that extend and enhance the Wi-Fi Alliance EasyMesh and Data Elements specifications for use in a service provider managed subscriber local network. The current BBF 1905.1a open source stack may also be extended to support some of these new features.

Project leads: [Ken Kerpez](#), [Marcos Martinez](#)

Join the project: [Find out more and sign the participation agreement](#).

View current work on the [OB-MAP Wiki space](#)

#### Open Broadband - Simple Two-Way Active Measurement Protocol (OB-STAMP)

The Open Broadband - Simple Two-Way Active Measurement Protocol (OB-STAMP) is a community within the Broadband Forum dedicated to collaborating on open source projects aimed at simplifying the deployment of Quality of Experience Delivered (QED) within Broadband Service Providers (BSPs).

Project leads: [Fabio Giudici](#), [Fabrizio Guidotti](#)

Join the project: [Find out more and sign the participation agreement](#).

View current work on the [OB-STAMP Wiki space](#)

#### Open Broadband-User Datagram Protocol Speed Test (OB-UDPST)

The Open Broadband-User Datagram Protocol Speed Test (OB-UDPST) project will produce an open source implementation of a tool to perform the metrics defined in [TR-471: IP Layer Capacity Metrics and Measurement \(PDF\)](#).

Project lead: [Len Ciavattone](#), [Al Morton](#)

Join the project: [Find out more and sign the participation agreement.](#)

View current work on the [OB UDP Speed Test Wiki space](#)

#### Open Broadband-User Services Platform-Agent (OB-USP-Agent)

Open Broadband-User Services Platform-Agent (OB-USP-Agent) is an open source project that is focused on creating a reference implementation of the User Services Platform (USP) [specification](#) from an "Agent" perspective. USP is a remote management and control protocol where management entities are separated between the Agent and the Controller. A USP Agent is responsible for exposing a set of "Service Elements" (essentially, a data model composed of objects and parameters that represent a specific set of functionality) for consumption by a Controller. While USP is capable of being used in many different environments, the home network is expected to be the most common environment, and in this environment a USP Agent would reside in a piece of Customer Premise Equipment (CPE), e.g. broadband home router, Wi-Fi access point, IoT gateway.

Project lead: [John Blackford](#)

Join the project: [Find out more and sign the participation agreement.](#)

View current work on the [OB-USP-Agent Wiki space](#)