

Kigali Sandbox User Guide

The FoDE Sandbox is a test environment enabled by open protocol designed by Beckn, for developers, innovators, and technical platforms to explore, experiment, iterate and design digital mobility user experiences.

Components

1. BAP (Beckn Application Platform)

A Beckn Application Platform (BAP) is a consumer-facing infrastructure which captures consumers' requests via its UI applications, converts them into beckn-compliant schemas and APIs at the server side, and fires them at the network.

2. BPP (Beckn Provider Platform)

The other side of the network is the supply side which consists of Beckn Provider Platforms (BPPs). These are the platforms that maintain an active inventory, one or more catalogs of products and services, implement the supply logic and enable fulfillment of orders.

3. Beckn One Gateway

Between BAPs and BPPs are the Beckn Gateways, which form the routing infrastructure of the Transaction layer. The purpose of this infrastructure is to optimize discovery of BPPs by the BAPs by merely matching the context of the search.

4. Network Registry

The Registry Infrastructure layer comprises a network of open registries that store detailed information about every network participant. The registries are maintained by entities called "Registration Platforms".

To know more about these components, visit

<https://developers.becknprotocol.io/docs/introduction/transactional-layer/>

How to get started?

1. **To get started, register for the sandbox here** : google registration link/email

In order to integrate with the network and test your implementations against other BAPs or BPPs, your application needs to be subscribed to the registry, for which you need to register using the google form.

2. Network Registry

Upon registration, You will be able to login to the registry application using your google accounts here:

<https://registry.becknprotocol.io/login>

Your application will be a part of the Network participation section (under the admin tab). You will also be able to see all registered applications on the registry.

You can update your application's information as needed from here. Please do not modify any details of registered applications that are not related to you

3. Gateway

The gateway is a routing agent, which will broadcast a BAP's search request to all relevant BPPs.

If you are developing a BAP, please use the following endpoint to hit the gateway:

<https://gateway.becknprotocol.io/login>

This gateway will be used only for the /search API. All subsequent APIs will be directed to the respective BAP or BPP

In case you are seeing errors on the gateway, please check the logs here:

<https://gateway.becknprotocol.io/bg/log/0>

4. Reference BAP

If you are a BAP or are planning to develop a BAP, here is a reference BAP

<https://experience-guide.becknprotocol.io/cityOfAfrica>

5. Reference BPP

If you are a BPP or are planning to develop a BPP, here are the reference BPPs

1. <https://driver-infra1.becknprotocol.io/>
2. <https://driver-infra1.becknprotocol.io/>

6. Transaction

Additionally, to understand how the transaction cycle works, you can use the reference BAP and BPP for real time transactions and responses.

7. API

You can access the APIs for the sample mobility use case by downloading the YAML File <https://github.com/beckn/mobility/blob/mobility-0.8.2/api/mobility.yaml>

Additionally, you can also access the postman collection with mock responses for mobility and retail here

https://github.com/beckn/beckn-sandbox/blob/feat/readme-file/USER_GUIDE.md

8. Join our discussion forum here :

<https://github.com/beckn/protocol-specifications/discussions>