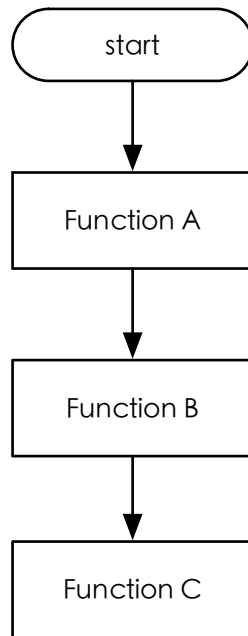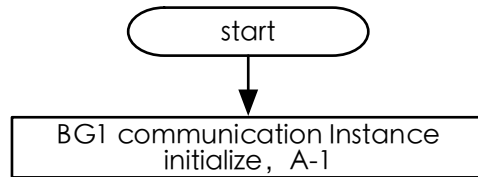# BG1 Function

Note: Api call must be serial call, that is, after the end of a Api, you can call the next Api, otherwise it will appear Api function failure.

```
        ┌─────────────┐
        │    start    │
        └─────────────┘
               │
               ▼
        ┌─────────────┐
        │ Function A  │
        └─────────────┘
               │
               ▼
        ┌─────────────┐
        │ Function B  │
        └─────────────┘
               │
               ▼
        ┌─────────────┐
        │ Function C  │
        └─────────────┘
```

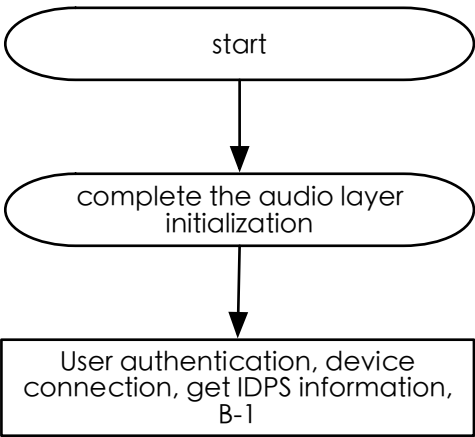# BG1 Function A –Audio Communication Layer Initialization

Note: through the initialization of the BG1 instance, open the audio port monitor, initialize the audio communication layer, and use the generated instance to call the function B and function C.

```
                    ╭──────────────╮
                    │    start     │
                    ╰──────┬───────╯
                           │
                           ▼
              ┌──────────────────────────┐
              │ BG1 communication Instance│
              │    initialize，A-1        │
              └──────────────────────────┘
```
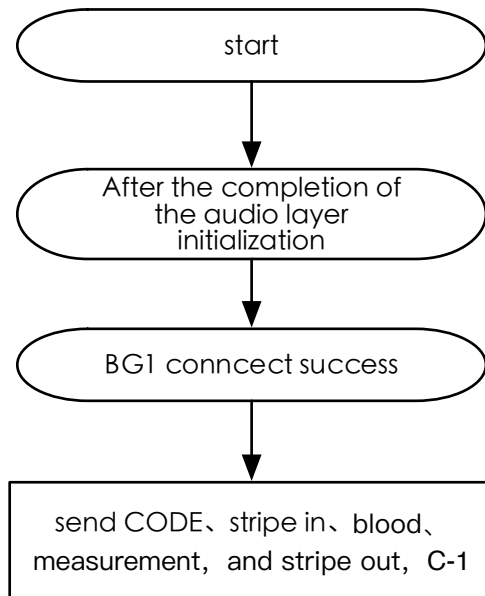
A-1: audioCommunicationObject

BG1 Function B – Connect and Get IDPS Information

Note: when detected the BG1 is inserted, the block of DisposeDiscoverBGBlock returns immediately, when access to IDPS information,   the block of DisposeBGIDPSBlock returns. , function C measurement process must be called in or after the block of DisposeConnectBGBlock returns.

```
          ╭───────────────────────────╮
          │           start           │
          ╰───────────────────────────╯
                        │
                        ▼
          ╭───────────────────────────╮
          │   complete the audio layer │
          │        initialization      │
          ╰───────────────────────────╯
                        │
                        ▼
          ┌───────────────────────────┐
          │  User authentication, device │
          │ connection, get IDPS information, │
          │             B-1             │
          └───────────────────────────┘
```

B-1: commandCreateConnectWithUserID: clientID: clientSecret: Authentication: DisposeDiscoverBGBlock: DisposeBGIDPSBlock: DisposeConnectBGBlock: DisposeBGErrorBlock:

BG1 Function C–Sending CODE and Measurement

start

After the completion of
the audio layer
initialization

BG1 conncect success

send CODE、 stripe in、 blood、
measurement, and stripe out, C-1

C-1: commandCreateBGtestWithCode: DisposeBGSendCodeBlock:
DisposeBGStripInBlock:DisposeBGBloodBlock: DisposeBGResultBlock:
DisposeBGStripOutBlock: DisposeBGErrorBlock:

Note: set the code string, after the completion of the sending, followed by the
implementation of the test strip insert, blood, get result and test strip pull out. And at the same
time monitoring error in the process of measurement.