CALLUP
ONE1 TELECOM DIVISION

ROAM HOME CALLBACK

Seamless low-cost complementary roaming service, anywhere - while mimicking a normal call experience

CURRENT SITUATION

USSD callback platforms are widely deployed allowing mobile carriers to sell low cost roaming calls. With a callback call, the user experience is di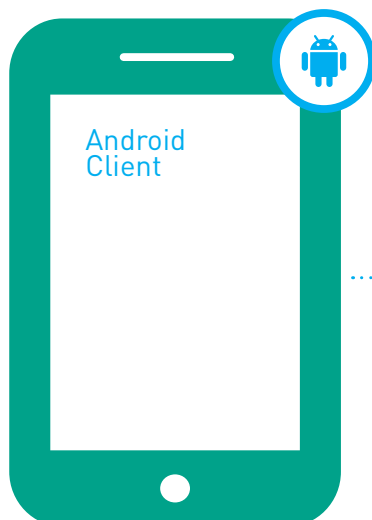fferent from that of a native call experience, often confusing the user. Users are often surprised when receiving a callback call, leading them to cancel the incoming call. That, in turn, makes the USSD callback service tedious and confusing.

ROAM HOME CALLBACK

Roam Home Callback is an innovative solution that helps mobile operators cut down on voice operations costs. It provides a seamless smartphone experience over new or existing callback solutions, and complements traditional USSD/SIM- based solutions.

The solution seamlessly captures an outgoing call and tries to optimize it either by mimicking the outgoing call while using the existing callback solution, or by routing the call from a circuit switch network to IP while the subscriber is on roaming. Roam Home Callback uses native dialer over the phone, and does not require any special action from user.

CLIENT SIDE

Android Client

SERVER SIDE

Sip Server

Roam Home Server

Callback Server

Regular MT Call

KEY FEATURES

Voice Capture

Seamlessly captures an outgoing voice call from being sent over the circuit switch network, and diverts it to the data network while the subscriber is on roaming. User maintains regular dialer user experience.

Does not need VPMN's approval to reduce rates. Incentive for roamers to make more calls.

Voice Capture – regular callback procedure

Seamlessly captures an outgoing voice call from being sent over the circuit switch network, imitates an outgoing call experience (fake dial tone, fake dialer), sends a background SMS, and auto-answers incoming callback call.

Quality of Service

The quality of the IP network is always monitored. The call will be routed to IP only if it can sustain an excellent quality and user experience.

Active Networks Control

Controls which networks will be active:

· Specific SSIDs
· International roaming
· National roaming
· Home network
· Specific networks
· Any combination of the above

SSL and Anti-Spoof Security

Server mechanisms ensure the sender's validity and authenticity, which allows accepting messages from Wi- Fi/Internet over HTTPS.

Data Network Control

Controls the types of data networks that will be active:

· Cellular or Wi-Fi
· Cellular Only
· Wi-Fi Only

CDR Generation

Detailed CDRs on every incoming and outgoing message passing though the server.

Statistics and Reports

Detailed usage reports, usage statistics, available from CVMS - the web management console.

Detailed Logger

Detailed logger which enables easy troubleshooting and problem investigation. OTA client configuration server can control the configuration of the clients remotely. Multiple configuration profiles are supported.

SNMP Alarms

Alarms on various hardware and software events, sent to NOC over SNMP.

Black/White lists

Block:

· Specific devices (IMEIs)
· IMEI ranges
· Specific subscribers (IMSI/MSISDN)
· IMSI/MSISDN ranges
· Specific device model, OS version, device manufacturer
· MCC/MNC ranges