

# One Consortium

## CLI Spoofing use cases

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(Based on work within 1C WG4)

# Communication use cases – many dimensions



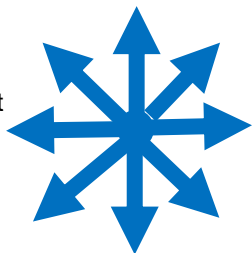
**Technology** – e.g. SIP, ISUP/SS7, OTT  
Can limit technical feasibility of solutions – but should not restrict use cases

## Communication type

Voice, Message, Video etc  
Messaging for mobile uses different technology

## Type of device & connection

Mobile, Fixed, App



## Type of user

A business and a consumer may have different ways to identify themselves for KYC or have reasons for CLI manipulation

## Fraud type

There are many different fraud types. CLI spoofing is one in focus.

## Caller location

Specifically are they in the home country or is the call coming from abroad

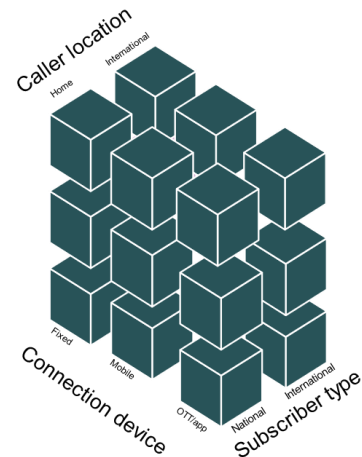
## Callee location

Specifically are they on home network. (When roaming protection in many circumstances depends on visited network)

## Subscriber – national or international

A national subscriber (and CLI) is more trusted and originates from a customer that should be identified using country KYC rules

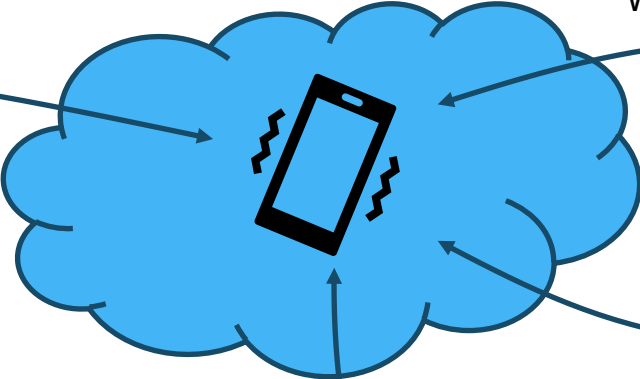
**Focus on voice, caller location, subscriber type and type of device.**



# Use case – international incoming voice calls when recipient is in home country



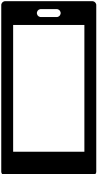
**“Fixed” line phone**  
Will be international CLI unless modified legitimately (Cloud numbers)



**Home country roamer**  
Will be national CLI



**International subscriber**  
Will be international CLI



**OTT subscriber**  
Will be in control of OTT application.  
Won't be visible to telcos. But should present registered CLI



# Communication use cases – incoming international calls i.e. *voice, callee at home, caller abroad*

Type of call / subscriber	National subscriber	International subscriber
<b>Fixed</b>	Should not be visible on international link	Should present international CLI unless cloud number
<b>Mobile</b>	Should present national CLI	Should present international CLI
<b>OTT</b>	Should present national CLI (or equivalent identifier linked to KYC)	Should present international CLI (or identifier)

- OTT arguably is just a type of technology, so TBD if in scope.
- Technology for control / enforcement for OTT is with the OTT for telco it is with the telco

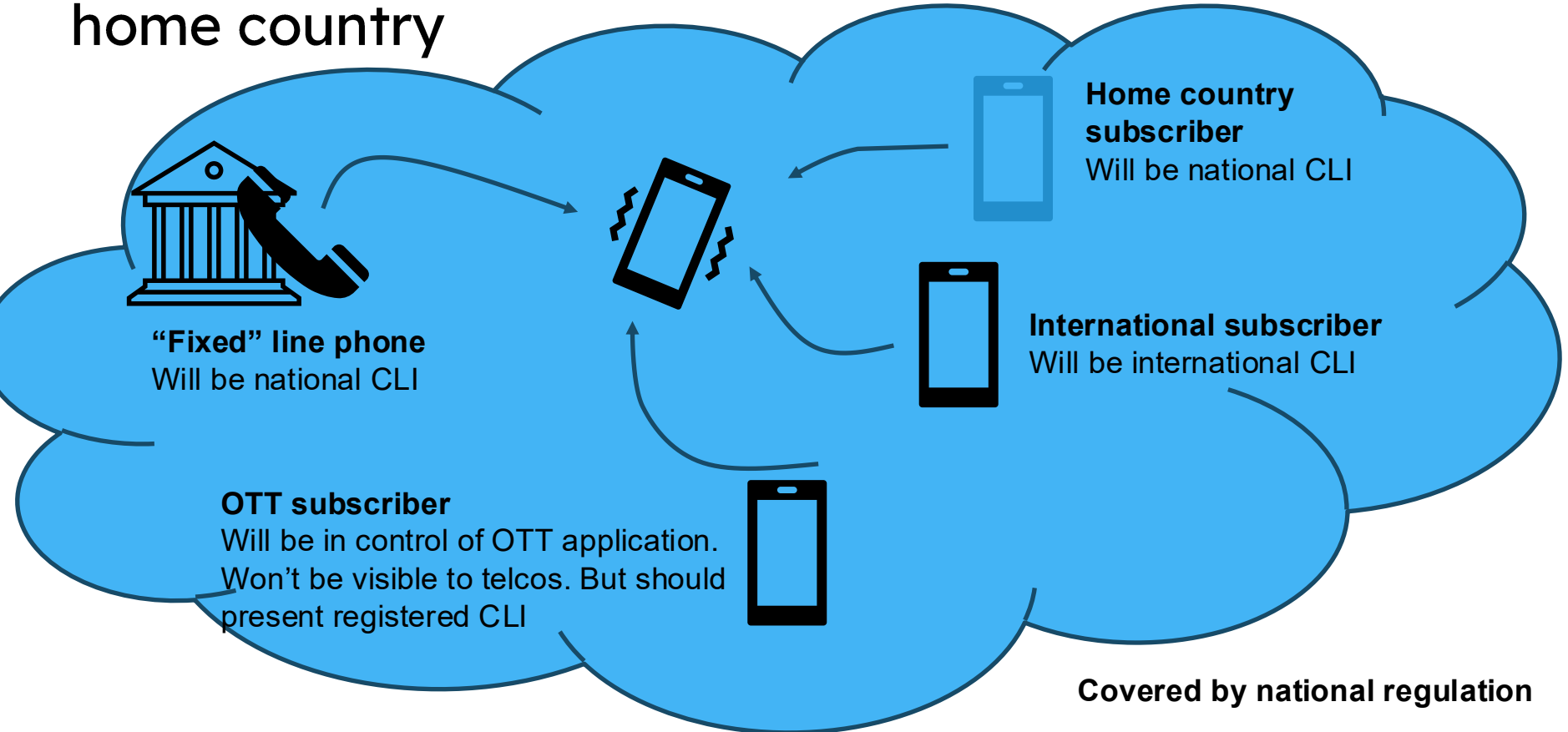
In current document scope

Outside current document scope

## **Other use cases**

- National on net**
- Inbound international subscribers**

# Use case - National voice calls when recipient is in home country



# Use case – international incoming voice calls when recipient is roaming (i.e. subscriber is international)

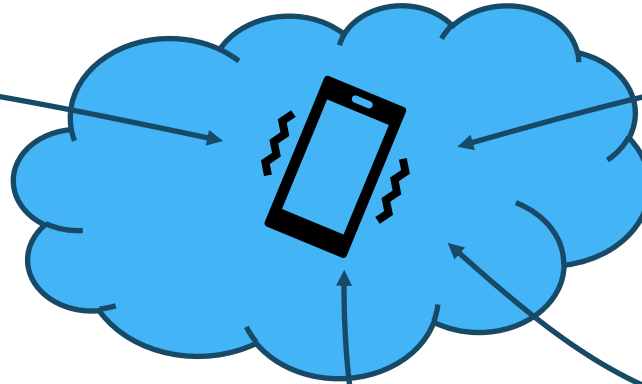


## “Fixed” line phone

Will be international CLI unless modified legitimately (Cloud numbers)

## OTT subscriber

Will be in control of OTT application. Won't be visible to telcos. But should present registered CLI or other identity via KYC not linked to phone

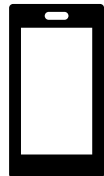
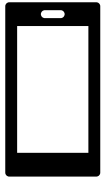


## Home country

Will be international CLI (but country code same as subscriber)

## International subscriber

Will be international CLI



➔ More difficult to protect roamers without more complex solutions

➔ More difficult to protect international CLI spoofing without more complex solutions