North America & Caribbean

January 2019

Caribbean

Unique mobile subscribers

24.9M 2018

32M 2025

SIM Connections

32.1M 2018

39.1M 2025

Operator total revenue

$1.132bn

2018 → 2025 $1.190bn

65% 2018

88% 2025

Smartphone connections

IoT Connections → 2025

2.4M

Total connections

	2G	3G	4G
2018	16.4M	12.8M	2.9M
2025	5.5M	22.9M	10.6M

Total → 2025 41.5M

Regional Interest Groups (RIG)

Services

Smart Cards

Terminals

Fraud and Security

WAS/ID

RCS Task Force

NARSP Task Force

Standards

Networks

Women4 Tech

GSMA Programmes

Identity

Enabling trust and creating value through digital identity

Future Networks

Creating the Network for secure, smart and seamless services

Internet of Things

Mobilising the Internet of Things

Device Crime Overview

Phone Theft

Consumer loss $
Personal injury
Buying stolen goods
Insurance claims
Insurance fraud

Subscription Fraud

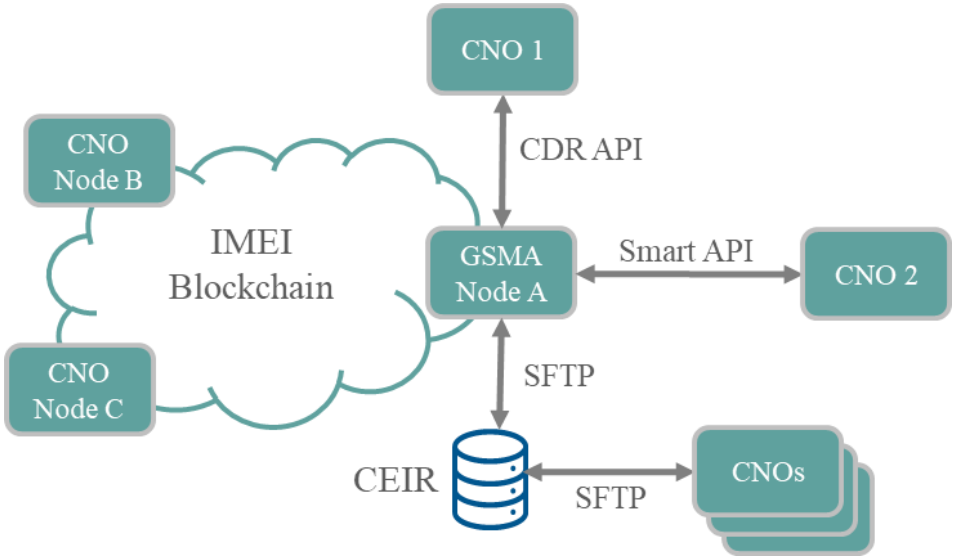
Operator loss $

Robbery

Operator / Merchant loss $
Personal Injury
Increase in insurance Premium

IMEI Blockchain Proof of Concept

- Test a basic architecture proposal for a private Blockchain that would support the goal of expanding participation in GSMA IMEI Blacklisting and improving the tools to combat theft and fraud of mobile devices and services.
- Participants to include current and prospective Contributor Network Operators
- Utilize one of two APIs to support integration with current system or use of periodic CDR file exchange



Blockchain Benefits

Highly secure

- All transactions on a blockchain are cryptographically secured and provide integrity

Immutability

- Once the data has been written into the blockchain, it is extremely difficult to change it

Transparency, trust and privacy

- Shared with everyone when made public
- Different levels of privacy
  - Permissioned consortium
  - Private Channels
  - Zero knowledge proofs

Data integrity

- Eliminates device “ownership” changes by “bad” actors or “crooked” employees

Node participation by MNOs

- The operators participating as blockchain nodes can take advantage relatively easy of additional use cases planned to be build on this blockchain

Use Cases Being Considered Beyond IMEI Blacklisting

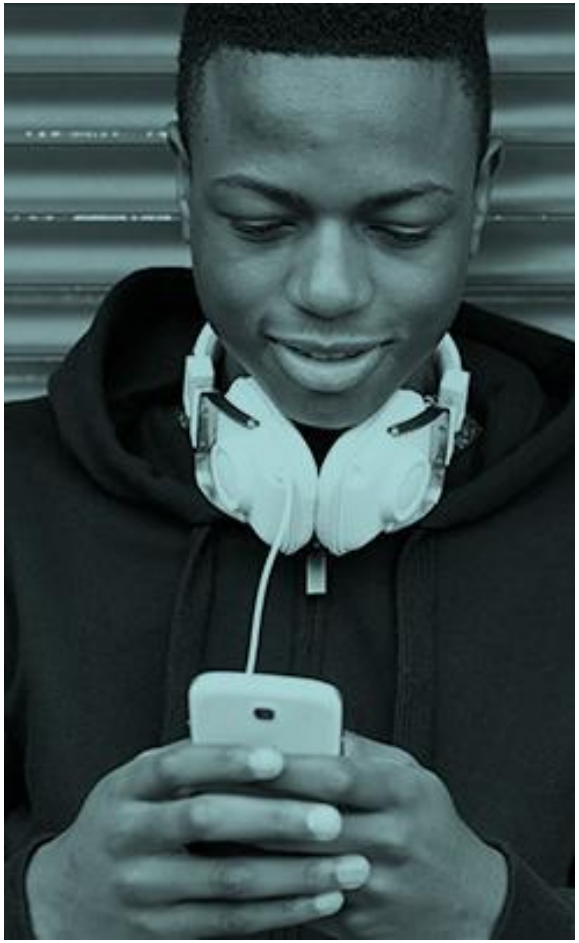
- Advanced analytics
  - Cloned devices (duplicate IMEIs)
  - IMSI Swap/cloned
  - IoT
- IoT roaming and connectivity applications
- Spectrum sharing
- Subscriber KYC
- Other…

Women4Tech

GSMA is committed to reducing the gender gap of women in technology

Accelerating inclusion for women throughout all career stages through mentorship, sponsorship and board representation

GSMA Tech4Girls

Interactive and hands-on technology workshops for young school girls to expose them to robotics and coding and inspire careers in Science, Technology, Engineering and Arts and Design and Math (STEAM) studies

GSMA