



# GMS Flash Call Management

## Traffic Management



Detect and mitigate flash calls and TTS to prevent A2P SMS revenue drop

# A new industry reality impacting Mobile Operators

Why such an important flash call adoption?

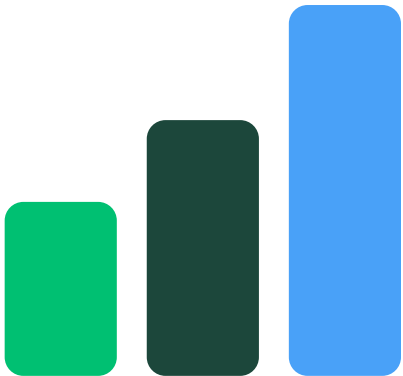
60%

Cost reduction

Using flash calls over SMS

22.8 billion

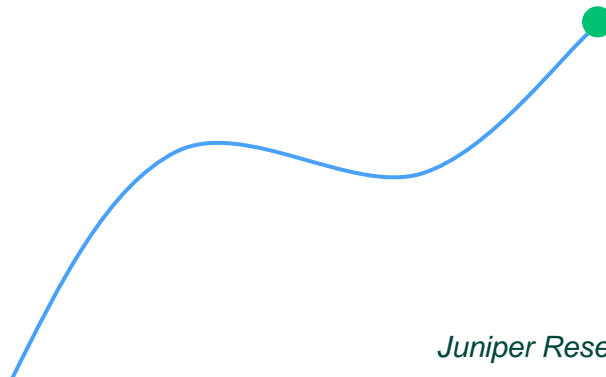
Flash call authentications  
by 2026



Operators to lose

\$1.3 Billion

To flash calling over the next 5 years



Juniper Research

What are the next  
steps to take?

Mitigating or monetising flash  
calls to minimise revenue losses



# Flash Calls and TTS Challenges



## **A2P markets disruption**

Revenue loss on A2P SMS



## **Limited capabilities**

Existing MNO firewalls are not equipped to prevent flash call and TTS



## **Detection issue**

Flash calls are difficult to trace and TTC difficult to manage



## **Impact on CX**

Manually entering the OTP via TTS can lead to error and frustration

# Flash Call and TTS

What is the difference?

## Flash Calls

A Flash call is a near-instant dropped call that is automatically placed to a mobile number, usually as part of an authentication process known as flash call verification

## TTS

Text-to-speech (TTS) technology transforms written text into spoken words, mimicking the natural flow and intonation of human speech

# Flash Call

## How does it work?

### 1 Authentication request

The Enterprise / OTT / App sends a user-authentication request

### 2 Leveraging operator's gateways

Flash call providers place a call using number provided, leveraging operators' gateways. The MSISDN is used to identify user

### 3 Zero duration call

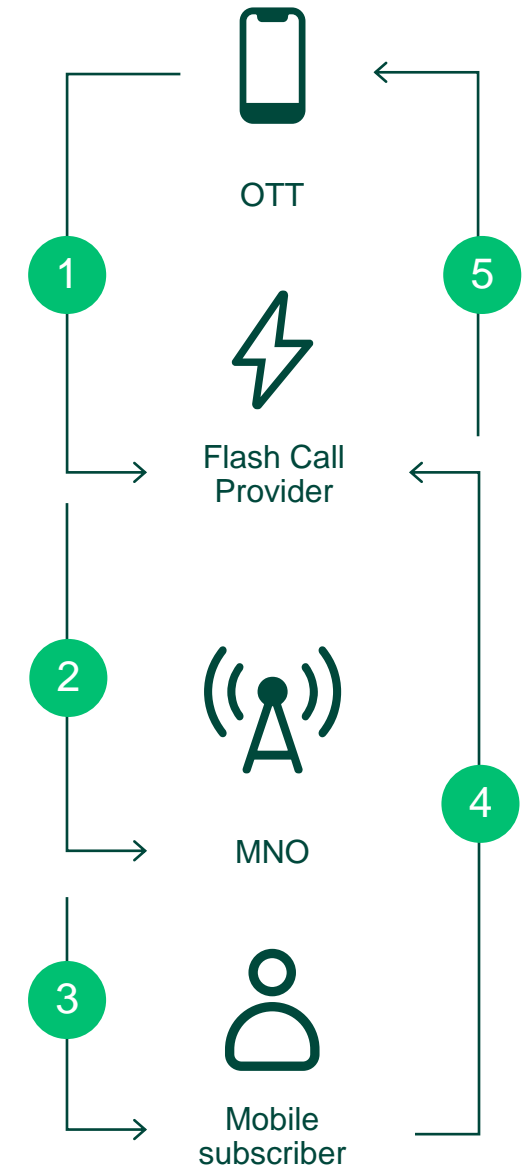
The call is placed from MNO to mobile subscriber.  
A specific A-party number is used to authenticate call.

### 4 The call log is checked

For Android devices, last digits of the CLI are used for the authentication automatically. For iOS devices, OTP must be entered manually

### 5 Authentication confirmation

The authentication confirmation is sent back to the enterprise



# Why is it an issue?

1

## Revenue Losses

Flash call increase leads to a decrease in SMS revenue for operators.

2

## Security Concerns

Flash calls can be exploited for fraudulent activities

3

## Resource strain

Handling a large number of flash calls can strain network resources

4

## Regulatory Compliance

Unclear regulations for Mobile Operators



# GMS Flash Call Management solution

Handling flash and TTS calls

# GMS Flash Call Management Goal

## Detection

- Traffic analysis
- Flash call and TTS AI-ML driven detection
- Abnormal calls patterns identification



## Prevention

- Flash Call Mitigation and TTS Management
- Dynamic calls handling
- Revenue leakage prevention



## Monetisation

- Flash calls identification and data provided for billing



# GMS Flash Call Management

## AI-powered solution

### A2P traffic and revenue recovery

- Messaging revenue protection
- Flash and TTS calls monetisation
- Automated correlation with A2P SMS

### Flexible solution

- Flexible commercial models
- Quick and cost-efficient deployment
- Supports multiple protocols like SIP and CAMEL



### AI-driven technology

- ML / AI real-time detection of flash and TTS calls
- Multiprotocol support
- Dynamic call handling and cross-domain analytics

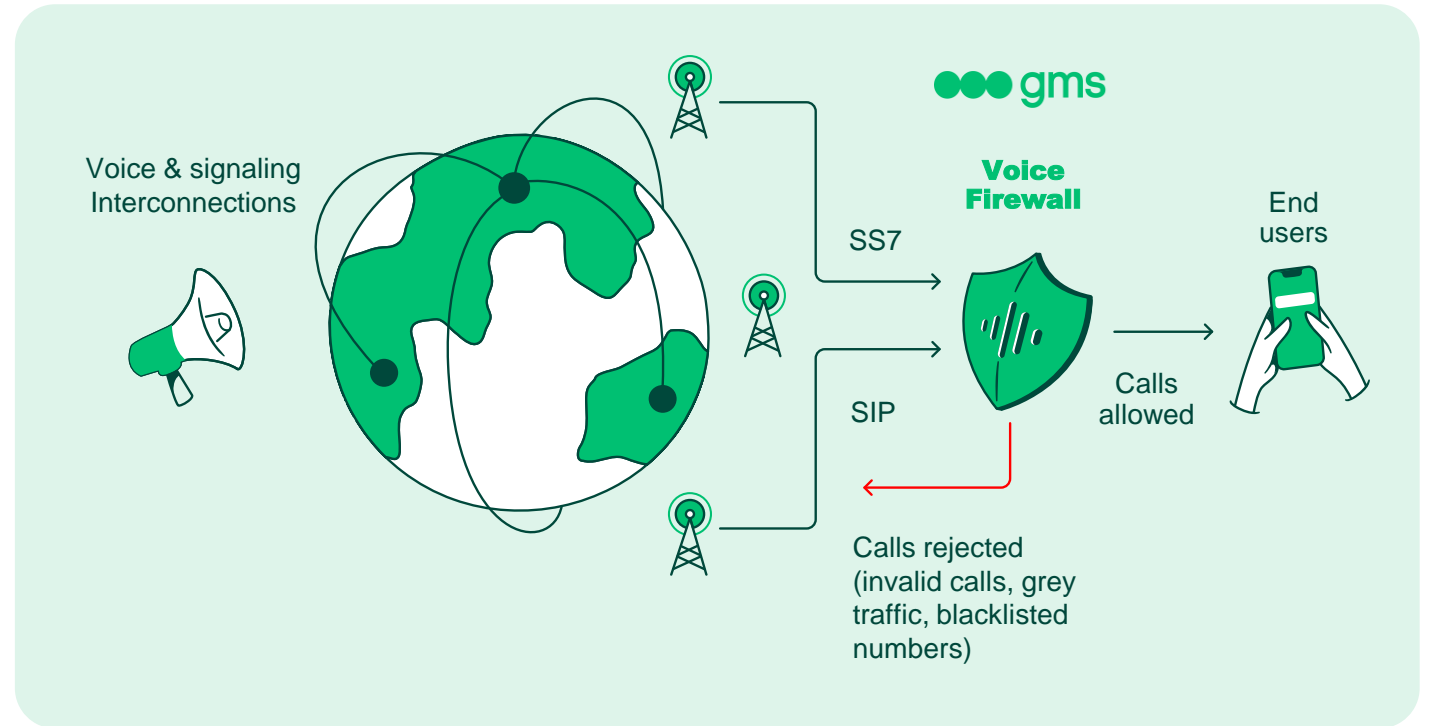
### Reliable and scalable suite

- Market-tested solution
- Scalable to full-fledged Voice FW

# Empowering you to regain control

Flash Call Management solution enables Mobile Operators to detect, manage, monetise and mitigate flash calls and TTS

- Mobile Operators choose the way they want to manage flash calls (mitigation or monetisation)
- Flash Call Management solution is integrated in the MNO core network in active mode
- We monitor all inbound voice traffic entering the MNO's network (SS7, SIP) and take appropriate actions on real-time basis



# Features



## AI-driven and ML detection algorithms

Proactive and intelligent flash calls detection

- Highly Accurate 99% detection engine
- Multiple active checks support
- Call patterns and behaviors analysis



## Fully automated E2E solution

Real-time mitigation and monetisation

- Real-time call profiling
- Dynamic call handling
- Workflows and process automation



## Smart calls handling

Multiple actions and rules-sets support

- Call block and redirection
- Temporary call hold
- CLI suppression/modification



## Monetisation capability

New revenue stream for MNOs

- Voice network streamlining (blocking unwanted flash calls, monetising desired ones)



## Ease of integration

Flexible and adaptable solution

- Standard protocols integrations like SIP and CAMEL



## Cross-domain correlation

Data analysis combined from different domains

- Flash call to SMS conversion volumes
- App generating flash calls

# TTS call management



## Industry Challenges

TTS calls preventions presents some risks:

- False positives
- Voice revenue dip



## Limitation of available solutions in the market

- Unlike flash calls, TTS is an answered call, hence it is the challenge to separate TTS from a genuine call
- Solutions available in the market are not capable of TTS accurate detection



## GMS unique advantage

- GMS AI & ML algorithms can accurately detect and identify TTS calls
- Proven track record in TTS calls handling
- Minimal false positives

# Continuous solution evolution

Continuous trends and threats monitoring to adjust  
our solution to market needs



**AI Voice Scam**



**Solution automation**



**Full scale voice Firewall**



# Regulations

GMS FCM fulfills all regulatory and technical standards

There are no specific flash call related regulations in majority of the regions.

However, we are compliant with telco regulations and get complete support of local entities and MNOs for flash call management.



**GSMA compliant**



**ITU-T, 3GPP and IEFT  
standards compliant**



**Call control plane only**

# Reporting

## Analytics and system performance

- Traffic dashboards
- Hourly / Daily / Weekly flash and TTS call volumes
- Traffic trends (flash and TTS calls)
- Top apps generating flash and TTS calls
- Flash call conversion to A2P SMS
- Carrier information
- Resource utilisations
- System health check



# Flash Call Management benefits

## Enhanced network security



Ensuring a fully protected environment

## Revenue Protection



Preventing revenue leakage and enabling A2P SMS traffic recovery

## Improved service quality



Reducing network congestion and ensuring reliable service for users

## Seamless Integration



Minimising operational disruption and ensuring immediate protection

## Process Automation



Enabling effective flash call management without need for human intervention

## Real-time evaluation



Minimising the risk of false positive



# Project launched and Testimonials

Market tested solution

# Tested and approved

Solution launch: 2022

Pilot project and first customer onboarding: Jan 2023

## Markets

Pakistan – Bangladesh – Uzbekistan

Honduras – Mexico – Nigeria

### Launched

- Active with **75 millions** subscribers
- **Live with 4 Mobile Operators** located in 3 different countries
- Deployment stage with **5 Mobile Operators** in 3 countries

### Trusted by



## Testimonial

“

# GMS team is highly knowledgeable

GMS has provided “Flash Call Management” product since December 2023 to regulate Banglalink’s inbound voice traffic and manage flash calls very effectively, which enables establishing an efficient and secure voice traffic management and regaining control over A2P SMS traffic. The implementation and operation of the Flash Call Management by GMS was found satisfactory by the business team.

**KM Zakaria**

Director Procurement & Supply chain at Banglalink



## Solution

# GMS Flash Call Management



banglalink

## Testimonial

“

# Reliable and trusted partner

GMS Flash Call Management is used by PTCL since December 2023.

GMS has deployed its Flash calls and Text-to-speech flash calls in an effective and efficient manner.

It also enables us to improve our overall voice network monitoring and efficiency.

We can confirm that we haven't observed any major problems after the deployment of GMS Flash Call Management solution and are satisfied with its implementation and performance in terms of disrupting the flash call channel.

**Qaisar Hanif**

Group Director International Solutions Sales



## Solution

GMS Flash Call  
Management



## Testimonial

“

# GMS solution is a perfect fit

GMS solution has expanded our ability to identify and block flash calls, making a significant contribution to the creation of a secure and efficient call management system. We are pleased with its performance and believe that GMS solution is a perfect fit for our customer satisfaction goal.

**B.S Irdzhanov**

Deputy Director of the Security Department at Ucell



## Solutions

GMS SMS Firewall

GMS Flash Call  
Management



# Greenlight Tomorrow.

