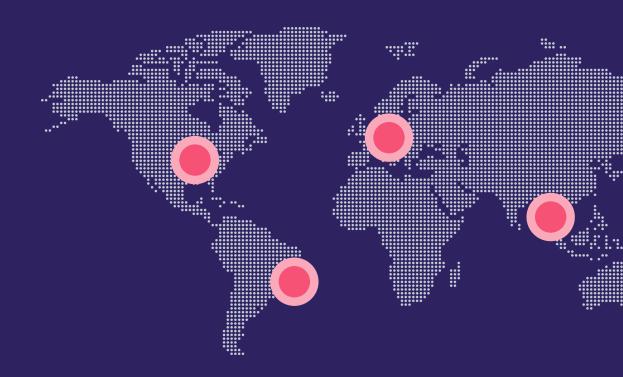
hiya



Global Call Threat Report

Insights into today's worldwide spam problem

Q4 2022



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Phone spam is a global problem

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Section One

Phone spam is a global problem

The world is drowning in spam calls

7.5 billion. That's how many spam calls were observed by Hiya worldwide in Q4 of 2022. That's about 82 million each day. In fact, Hiya's data shows that 1 out of every 3 calls from non-contacts in the US is a spam (unwanted) call, and in some European countries more than 40% of calls received are spam. In the Americas, Argentina leads the pack with a 52% spam rate. In the Asia-Pacific region, Indonesia tops the list with a whopping 51.5% spam rate.

This report shines a light on phone spam around the world, highlighting the most relevant scams and comparing the volume of spam and fraud calls in various countries worldwide.

The data in this report is based on a representative sample of calls observed during Q4 of 2022 on the Hiya Voice Security Network, which includes Samsung Smart Call enabled devices and the Hiya mobile app. Spam is defined as unwanted calls, and includes both fraud calls and nuisance calls. The spam flag rate in this report represents calls that Hiya has identified and flagged as either fraud or nuisance. Spam ratios represent the number of unwanted calls from "non-contacts"; calls placed from numbers that are not in an individual's local address book.

Hiya is detecting more spam than ever

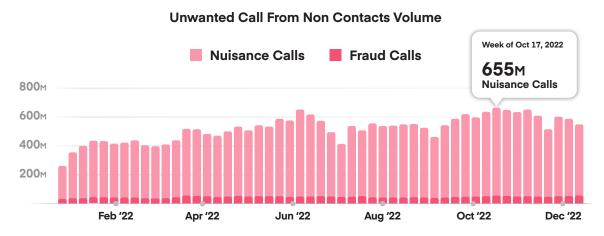
During Q4 of 2022, Hiya flagged more spam calls than ever before. In fact, between October 17 and 22 the number of spam calls flagged by Hiya reached an all-time high of 655 million.

The increase in calls flagged as spam is attributed to the growing volume of calls that Hiya observes, and increasingly more accurate spam detection. With the recent addition of Personal AI, Hiya Protect now enables carriers to be more aggressive in stopping spam calls without stopping calls that subscribers want to receive.

7.5B(Billion)
Global spam calls flagged in Q4 2022

655M(Million)

All-time-high spam calls flagged in a single week: Oct. 17-22, 2022



There has been a steady increase in spam calls flagged by Hiya during 2022.



Record-breaking spam calls in Q4 2022

Spam is a global problem, and it's only getting worse. In some countries, almost half of the calls received from non-contacts are spam calls.



The #1 phone scam takes a dive

The #1 phone scam in the US for the past two years, the auto warranty scam, took a steep dive in 2022. Still, one of every three calls fromnon contacts was flagged as spam — the worst performance ever.



1 in every 5 unknown calls is spam

Canadians get fewer spam calls than Americans, but they are experiencing a higher percentage of fraud calls — 15 times higher in fact. The most common scams are imposters posing as Amazon representatives.



Highest fraud call rate in Europe

In the UK, 28% of calls from non-contacts are spam. Of those spam calls, 13% – or nearly half – are fraud calls. The highest proportion of fraud in Europe. Rising costs are making it easier for scammers to drive relevant campaigns and feed off the insecurity of troubled times.





Leads Europe with the highest spam rate

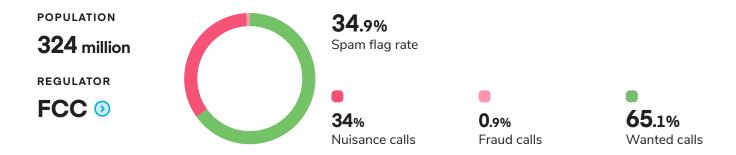
In Spain, 43.9% of the calls received from non-contacts are spam, and France is not far behind at 43.0%. Those are the highest spam rates in Europe. What's more, Spain has the second-highest rate of fraud calls of any European country.



Germans experience average spam

Germany is #8 in Europe for spam with a spam rate of 21.21% of non-contact calls. In the second half of 2022, also a spike in Europol scam calls in the country.

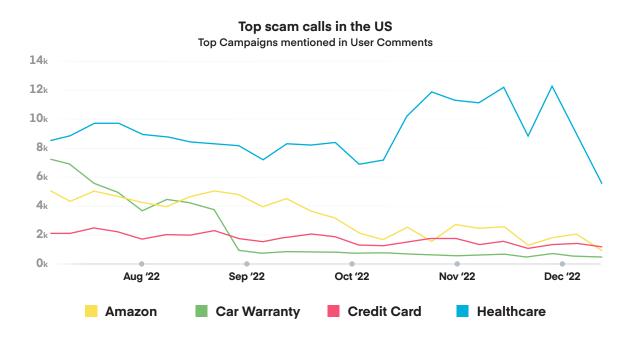
United States



Auto warranty scam plunges as healthcare scams take the lead

With one of every three calls from non-contacts being flagged as spam, more spam calls are being detected in the US than ever before. However, the big story in the US is that the country's most prevalent phone scam over the past two years, the auto warranty scam, has lost prominence as the most popular scam in America. In July, following FCC actions to shut down auto warranty calls, the rate of these scam calls drastically declined. Healthcare scams are now the most common type of fraud call in the US.

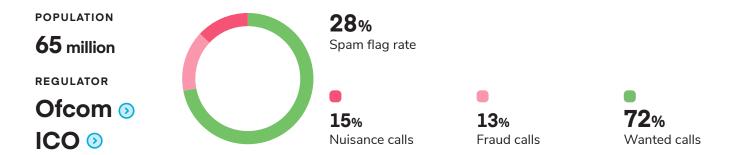
United States



- (1) Healthcare Healthcare scams held the lead for the most common type of fraudulent calls in the US during the second half of 2022. Healthcare scams come in many different varieties. Scammers may be selling a bogus healthcare policy or medical device, or they may be trying to obtain a person's Medicare number to bill the government for procedures that never happened. Medicare scams increased late in 2022 during the open enrollment period.
- ① Auto Warranty The auto warranty scam declined sharply in the second half of 2022.

 Although pressure from the FCC helped shut down a major source of auto warranty scam calls from a Panama-based company, smaller operations continue to use this long-running scheme, so it's unlikely to disappear completely.
- ① Amazon The Amazon scam is commonly a robocall stating that a large purchase has been made to the recipient's Amazon account and to press a number to refute the charge. When the recipient speaks to a live agent, the scammer tries to get the victim to reveal their Amazon account information or the credit card number associated with the account.
- ① Credit Card Credit card scams plague the voice channel year round. Imposters pose as representatives of a bank or credit card, often stating that there has been a purchase that didn't clear and to resolve matters they'll need to get your credit card or bank account information which the fraudsters can then use to make their own purchases.

United Kingdom



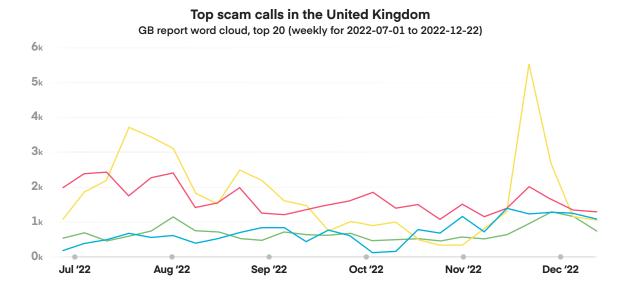
Most of the unwanted calls in the UK are fraud calls

Like the US, about a third of incoming calls from non-contacts in the UK are unwanted calls. But unlike the United States, where most of the unwanted calls are simply nuisance calls, in the UK more than half of the unwanted calls are actually fraud. That gives the UK the distinction of having one of the highest fraud rates of all the countries tracked by Hiya.

Some phone scams have been around for years — such as those impersonating Amazon or the UK's tax agency Her Majesty's Revenue and Customs — while others are new. The second half of 2022 gave rise to various scams related to the rising cost of living, and Hiya observed a surge of energy-related scam calls leading up to an energy rebate that took effect October 1st. Troubled times and confusion over governmental programs create fertile ground for scammers.

Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

United Kingdom



① Amazon – Since Amazon is an international retailer, it's not hard for a scammer to happen upon a victim who has an Amazon account. As in other countries, Amazon impersonators may say that they suspect an unauthorized purchase, or that the credit card linked to the account needs to be updated. They'll say anything that might get the victim to disclose either the Amazon account number of credit card information.

HMRC

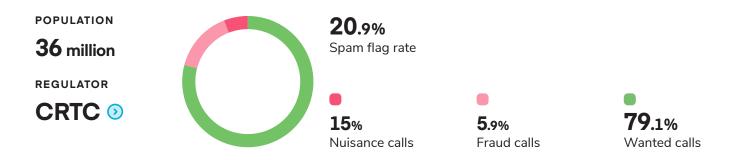
VISA

Bank

Amazon

- (!) Bank Banking related scams are a perennial favorite in the UK. Someone posing as a bank representative calls a potential victim and claims there is something wrong with their account. The goal is to get the victim to reveal enough information for the scammer to access the account. The caller may even impersonate the bank with spoofing tactics to be more convincing.
- ① HMRC HMRC scams impersonate agents from the UK's tax agency, Her Majesty's Revenue and Customs. Often a robocall will inform the recipient that they are being investigated for tax evasion or tax fraud by HMRC. Recipients are instructed to press 1 to speak to a representative for more information. The goal is to steal the recipient's money, personal information, or both.
- (!) VISA This scam is similar to banking scams mentioned above, except the scammer specifically mentions the victim's VISA card. Again, the goal is to get victims to reveal their VISA card number and/or account login information.

Canada



Government imposter scams growing in Canada

In Canada, one in five calls from a non-contact is spam. Most of these spam calls are nuisance calls (15%), but the number of fraud calls (5.9%) is trending upward.

Some of the scams in Canada are similar to those in other countries, such as callers claiming to be from Amazon customer service, or a bank or credit card company. There are also a variety of scams where the caller impersonates a government official, claiming to be from the Canada Border Services Agency, or the Department of Service Canada.

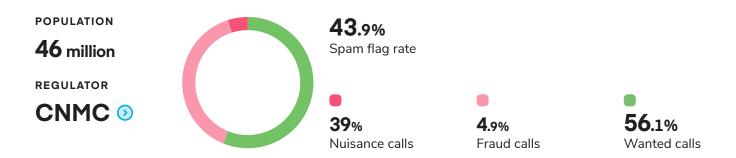
Many of the government imposter scams target immigrants and those who are less familiar with governmental processes in Canada. One of the growing scams is a Chinese-language scam that specifically targets Canadians who speak Chinese. There are also scams that target older Canadians, such as the Grandparent Scam.

Canada



- (1) Amazon The Amazon scam is the #1 scam in Canada. It also tops the list in the UK and comes in second in the US. Companies with global reach and high brand recognition are prime targets for scammers to impersonate.
- (!) Chinese-language scams There are a series of scams that target Asian Canadians, especially those who speak Chinese. Often the caller will claim to be from the Chinese Embassy, the Beijing police, or claim that a package from China with contraband has been intercepted. The caller will demand immediate payment in order to rectify the problem. The frequency of these Chinese-language scams trailed off in the fall, and then picked back up in December.
- ① Credit Card Credit card scams are as prevalent in Canada as they are in the US. The tactics are the same: an imposter poses as a representative of a credit card company usually claiming that there is a problem with a purchase or a suspected fraud to get victims to reveal their credit card information.

Spain

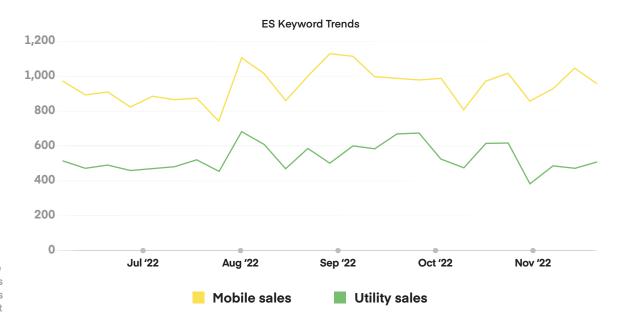


Spain has the highest spam rate in Europe

In Spain, more than 4 out of every 10 calls received from a non-contact is a spam call. Spain leads Europe with the highest spam rate at 43.9%. Spain also has the second highest fraud rate in Europe: 4.9%. It's the worst of both worlds.

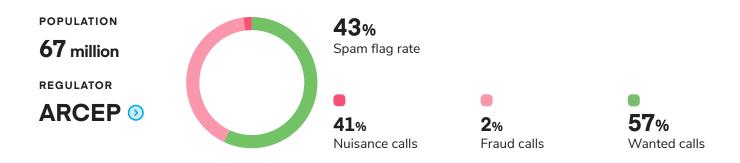
Top spam calls in Spain: utility and mobile phone telemarketing

The two most prevalent spam calls reported by users in Spain are calls from utility companies and mobile phone companies. Most of these are sales calls and are reported by users as nuisance or telemarketing, but some are reported as fraud. The Spanish media has also shared news reports of scammers impersonating utility companies to defraud customers.



Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

France

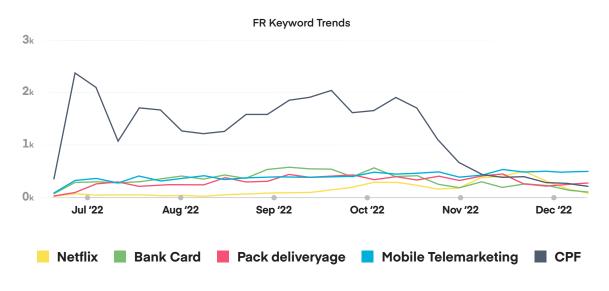


France has second-highest spam rate in Europe, but less fraud

In Europe, Spain may have the highest spam rate (43.9%), but France is close second at 43.0%. One consolation is that the rate of fraud calls in France is comparatively low, with just 2% of all non-contact calls being fraud. Compare that with a 4.9% fraud rate in Spain and 13% fraud rate in the UK.

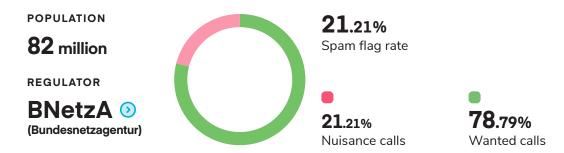
Top scam in France: Compte de Formation Professionnel

The most common scam Hiya observed in France in the third quarter was related to a government initiative called Compte de Formation Professionnel (CPF). This program provides citizens with an allowance they can use to pay for professional training (to learn carpentry, do a course on professional coaching, etc.) The amount depends on an individual's circumstances, but it's around €3,000 annually. Fraudsters call to "advise" citizens on how they can get the most out of the budgeted amount, when all they want to do is take either a cut of the money, or the whole amount.



Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Germany



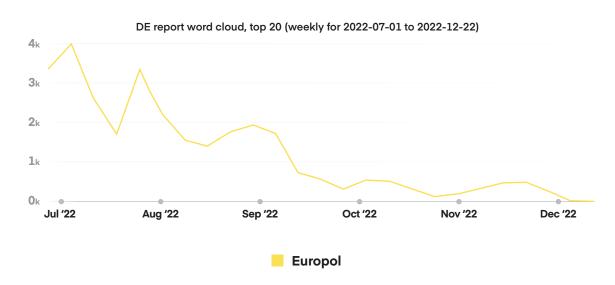
Germany experiences average spam

Of the 20 countries tracked in Europe, Germany is #8 for its spam rate, a little higher than the average with spam making up 21.21% of non-contact calls. Like many Europeans, Germans were also targetted with scammers posing as government agencies.

Top Scam in Germany: Europol

In 2022, Hiya first began receiving reports of a Europol scam. In this scam, the caller poses as an official from Europol (the European Union's law enforcement agency) or Interpol (the International Criminal Police Organization). The scammer commonly threatens victims with arrest unless they immediately pay a fine. By summer, the Europol scam quickly became the #1 phone scam in Germany. It has, however, declined since its peak in June.

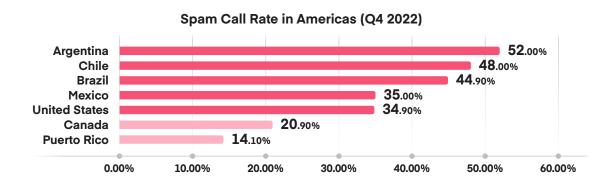
*Hiya uses a single 'spam' warning for both nuisance and fraud calls.



Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Americas

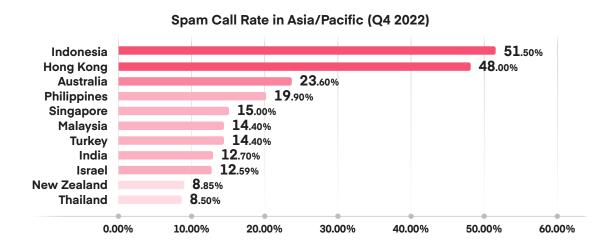
Spam and fraud calls soar in Argentina

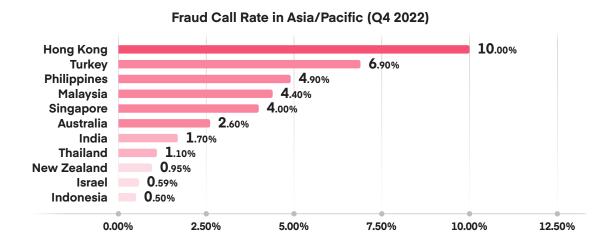




Asia/Pacific

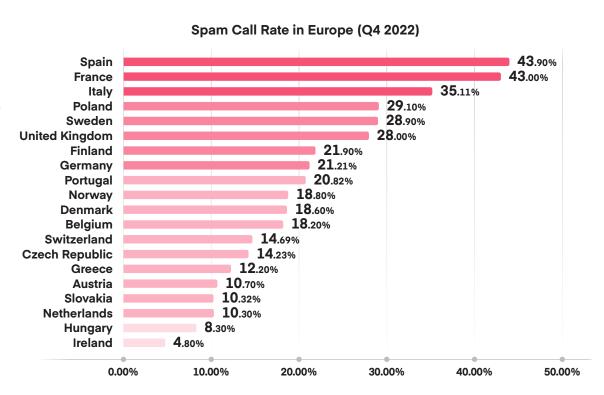
Indonesia tops the world with a 51.5% spam rate.





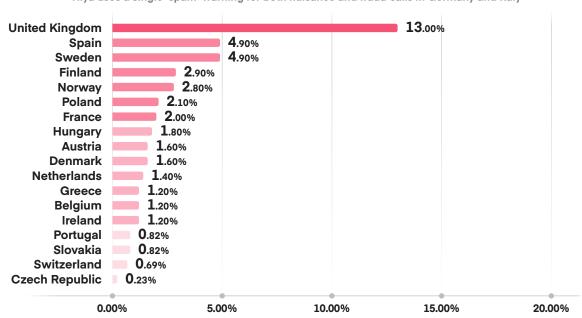
Europe

Spain and France lead Europe with highest spam rates while the UK is experiencing more fraud than any other European country.



Fraud Call Rate in Europe (Q4 2022)

*Hiya uses a single 'spam' warning for both nuisance and fraud calls in Germany and Italy



SOLUTION

How carriers can fight back against spam

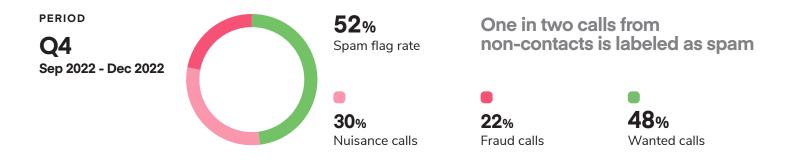
Hiya Protect is a complete call protection solution that enables mobile carriers to protect their subscribers by blocking and labeling spam calls, and helping them identify wanted calls. It is used by carriers, OEMs, and network providers who are looking to create a differentiated voice offering and increase customer satisfaction.

Hiya Protect is powered by the industry's largest and most comprehensive real-time data set, with call event data from more than 250 million users across 60+ countries. The only solution with Adaptive AI, Hiya Protect allows service providers to proactively identify threats in real time and continually adapt to the latest spam tactics. Hiya Protect recently added a new layer of protection, Personal AI, which is the industry's first-ever personalized call protection. Similar to an email spam filter, it personalizes call protection to the individual subscriber so they receive the calls that are important to them and are protected from targeted attacks.

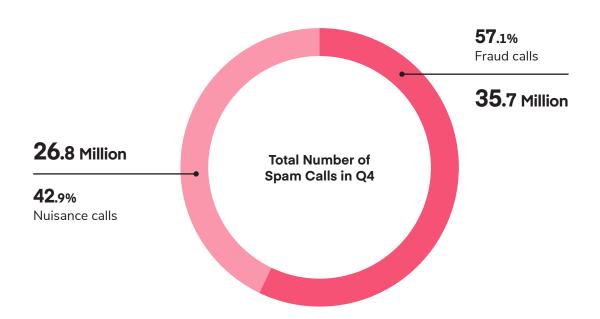
Section Two

Spam calls by country

Argentina



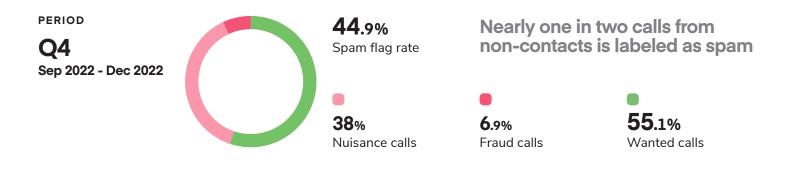
57% of all spam calls in Q4 were labeled as fraud



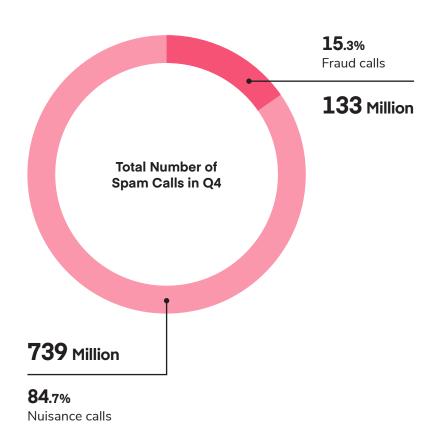
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Argentina

Brazil



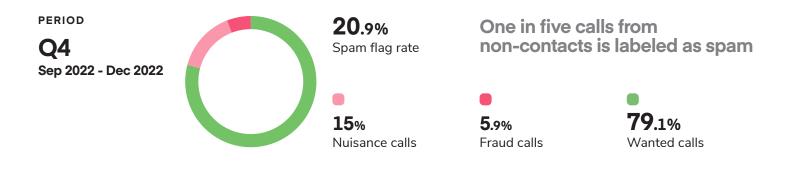
15% of all spam calls in Q4 were labeled as fraud



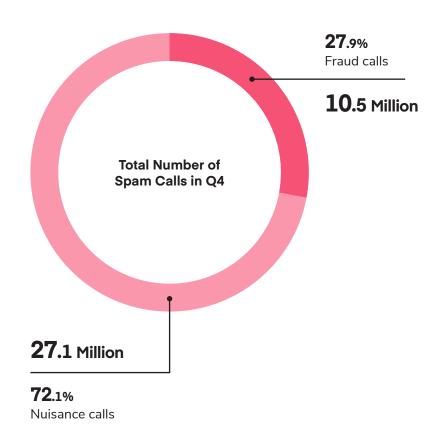
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Brazil

Canada



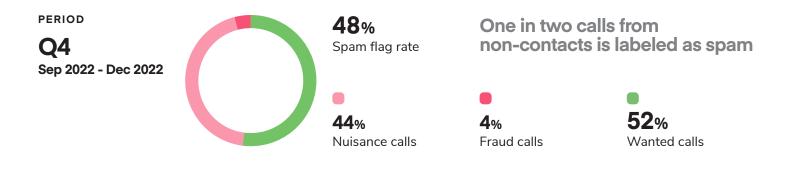
28% of all spam calls in Q4 were labeled as fraud



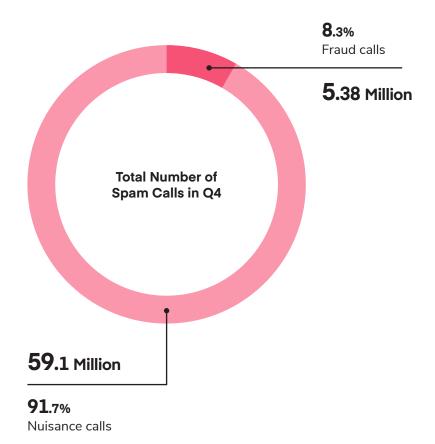
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Canada

Chile



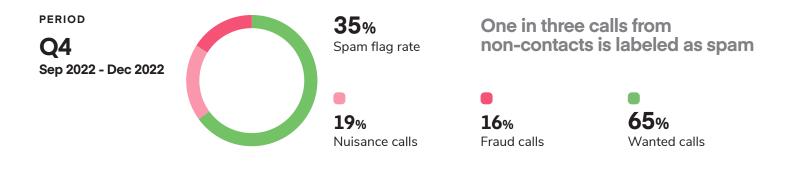
8% of all spam calls in Q4 were labeled as fraud



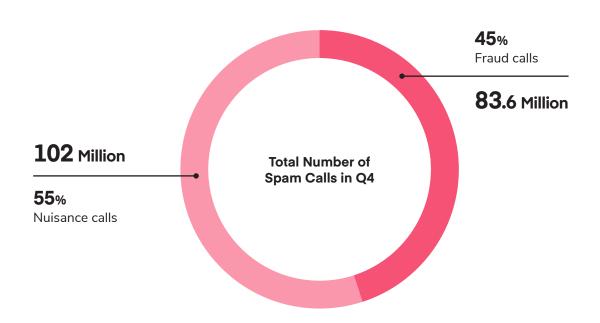
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Chile

Mexico



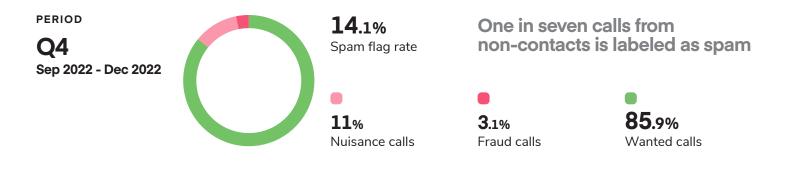
45% of all spam calls in Q4 were labeled as fraud



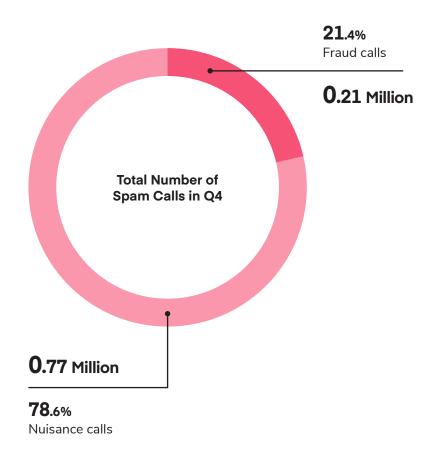
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Mexico

Puerto Rico



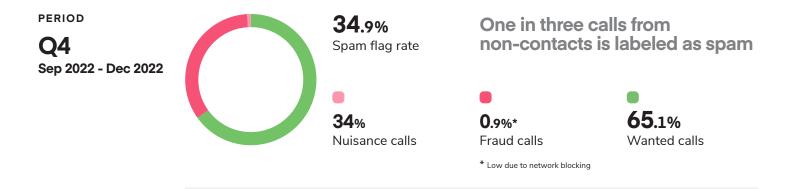
22% of all spam calls in Q4 were labeled as fraud



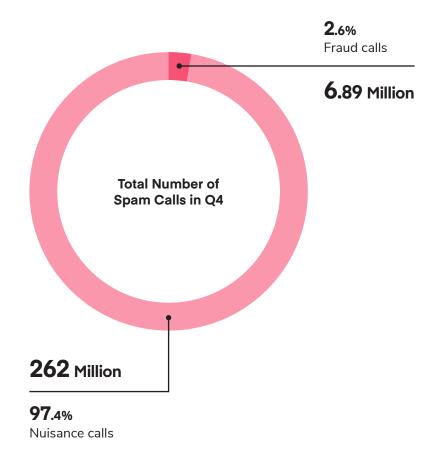
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Puerto Rico

United States



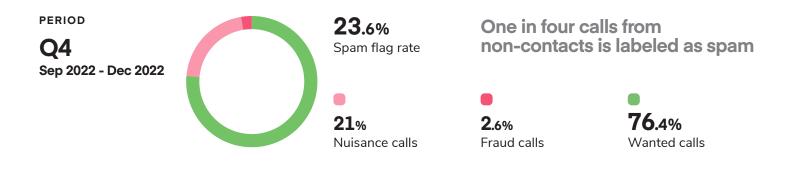
3% of all spam calls in Q4 were labeled as fraud



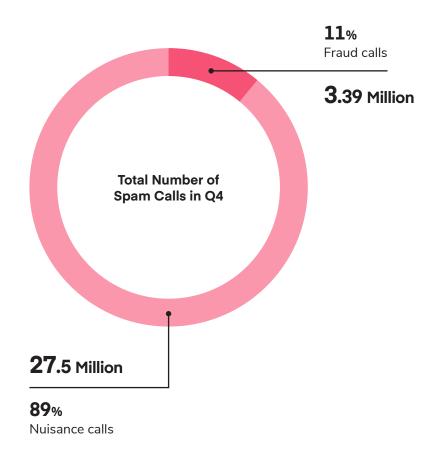
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in United States

Australia



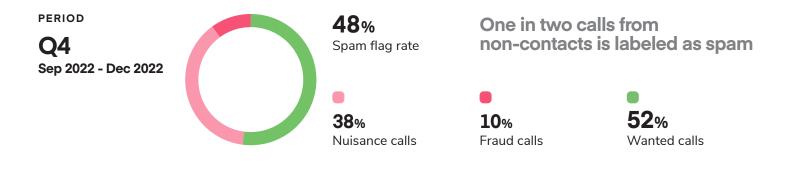
11% of all spam calls in Q4 were labeled as fraud



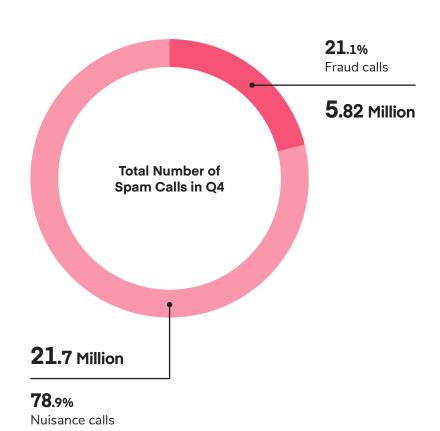
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Australia

Hong Kong



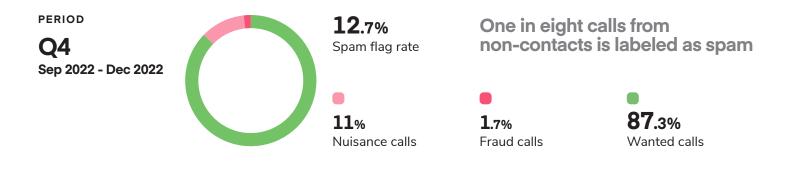
21% of all spam calls in Q4 were labeled as fraud



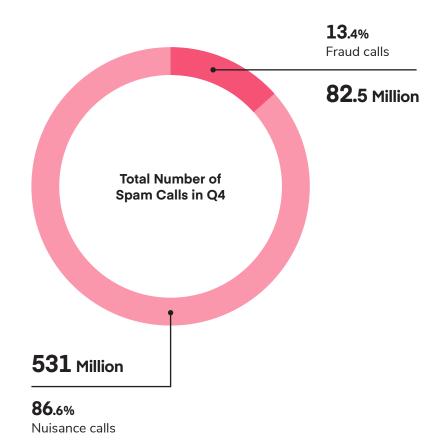
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Hong Kong

India



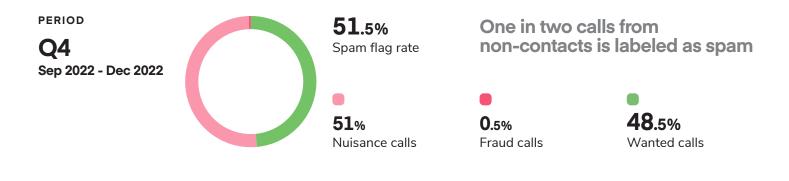
13% of all spam calls in Q4 were labeled as fraud



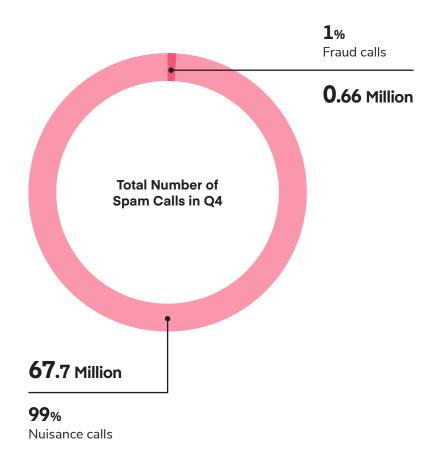
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in India

Indonesia



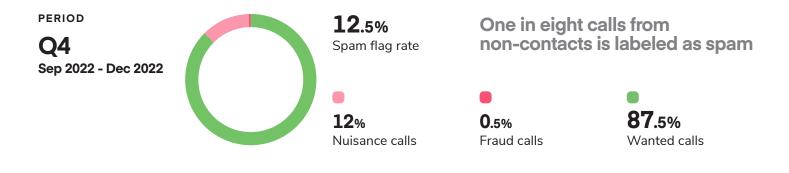
1% of all spam calls in Q4 were labeled as fraud



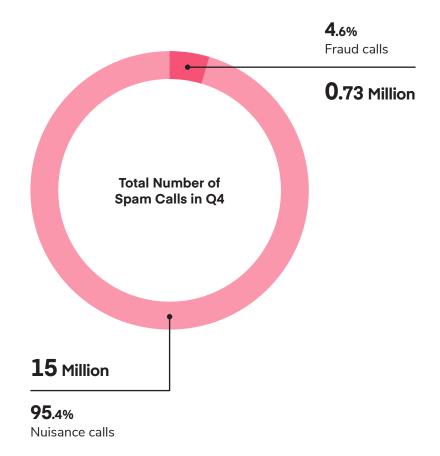
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Indonesia

Israel



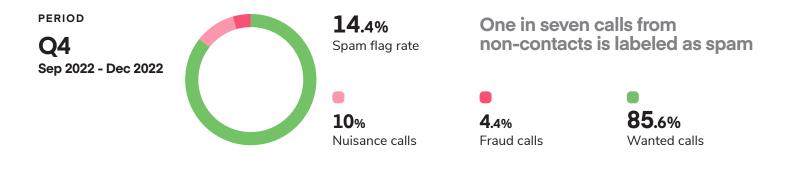
4% of all spam calls in Q4 were labeled as fraud



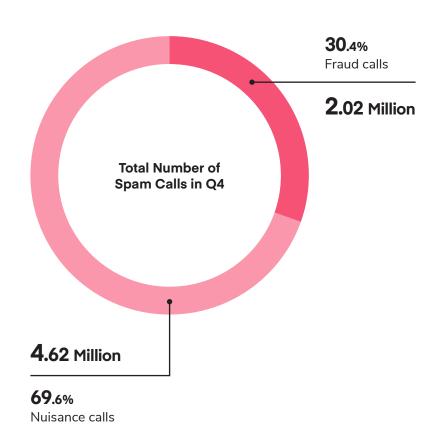
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Israel

Malaysia



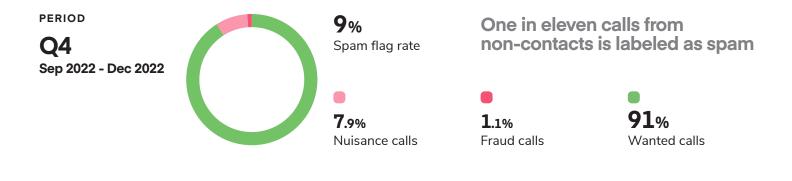
30% of all spam calls in Q4 were labeled as fraud



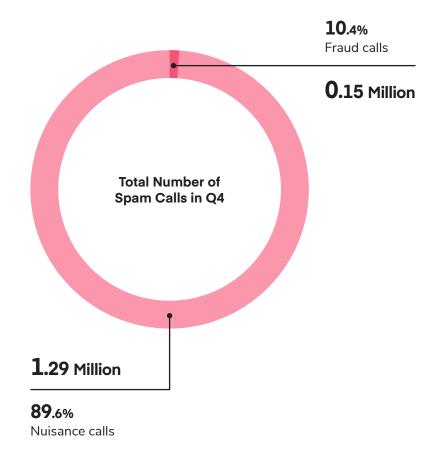
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Malaysia

New Zealand



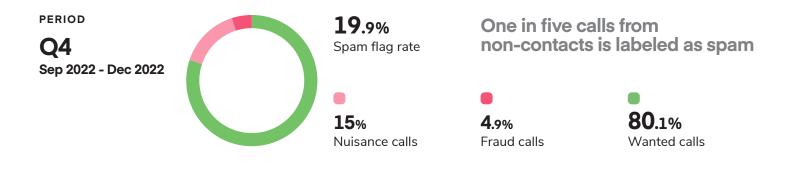
11% of all spam calls in Q4 were labeled as fraud



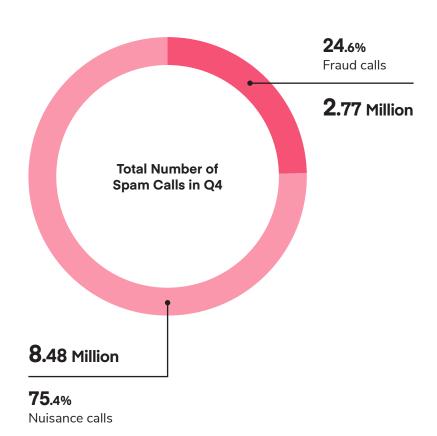
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: **Samsung Smart Call users** in New Zealand

Philippines



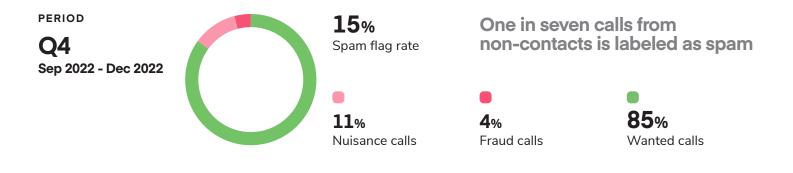
25% of all spam calls in Q4 were labeled as fraud



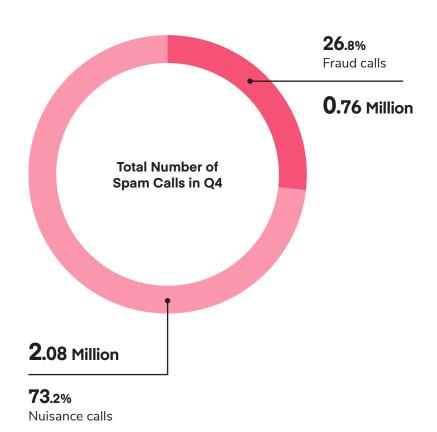
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Philippines

Singapore



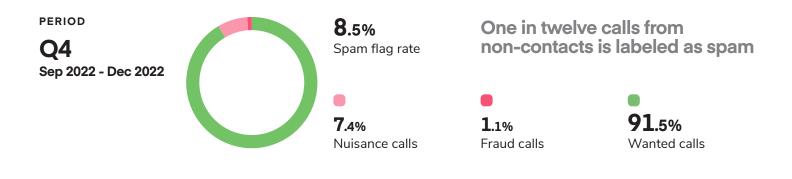
27% of all spam calls in Q4 were labeled as fraud



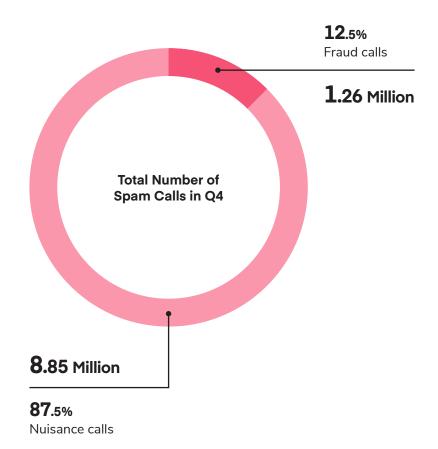
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Singapore

Thailand



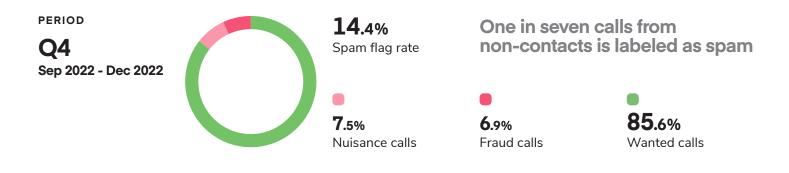
12% of all spam calls in Q4 were labeled as fraud



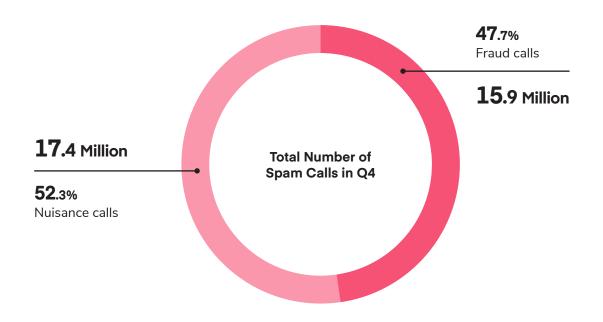
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Thailand

Turkey



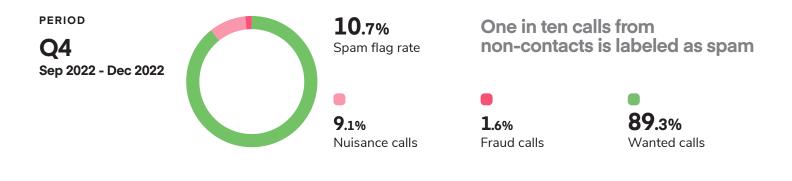
48% of all spam calls in Q4 were labeled as fraud



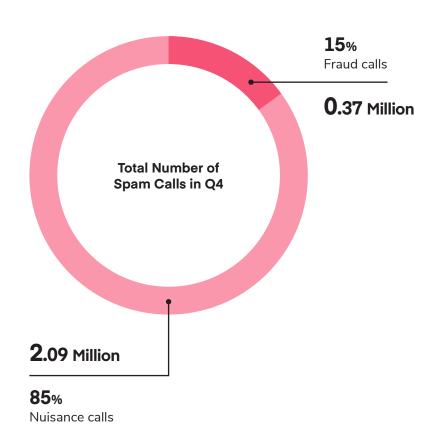
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Turkey

Austria



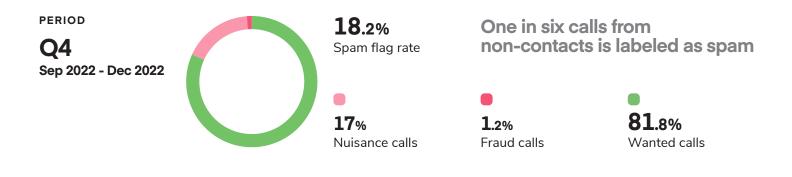
15% of all spam calls in Q4 were labeled as fraud



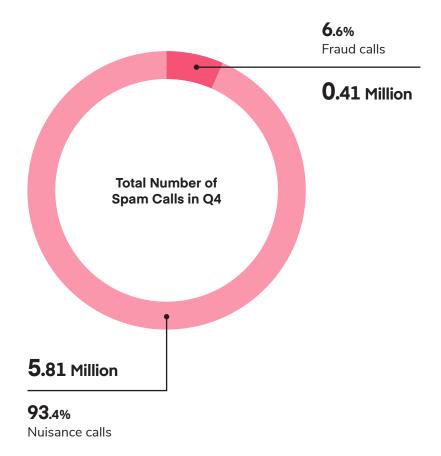
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Austria

Belgium



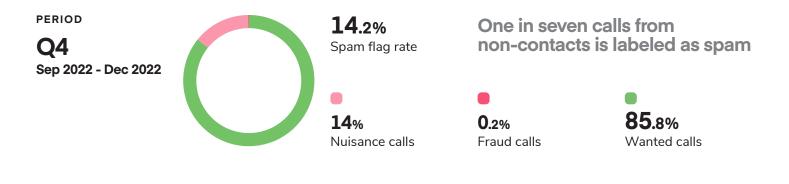
7% of all spam calls in Q4 were labeled as fraud



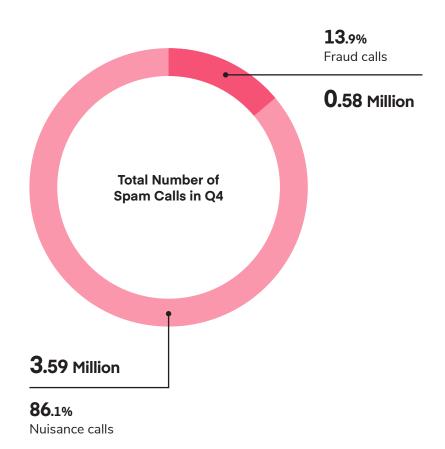
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Belgium

Czech Republic



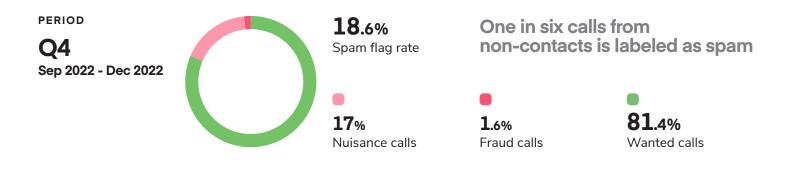
14% of all spam calls in Q4 were labeled as fraud



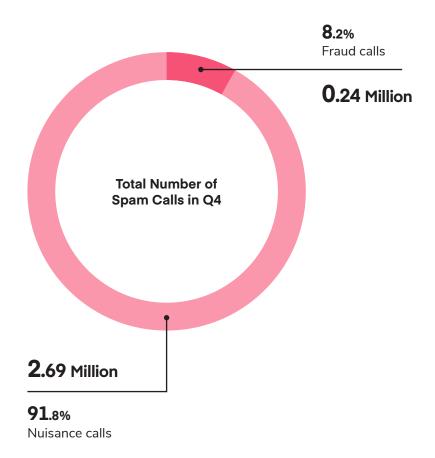
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Czech Republic

Denmark



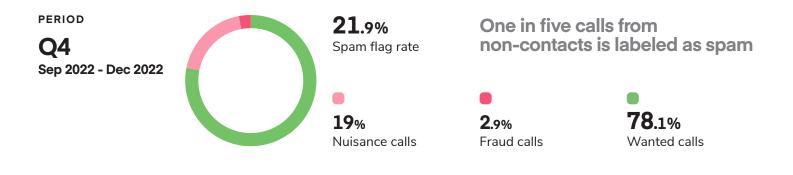
8% of all spam calls in Q4 were labeled as fraud



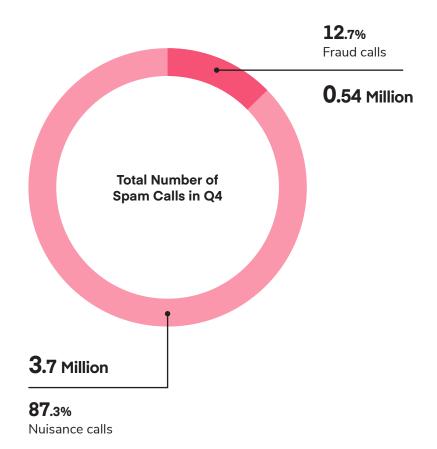
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Denmark

Finland



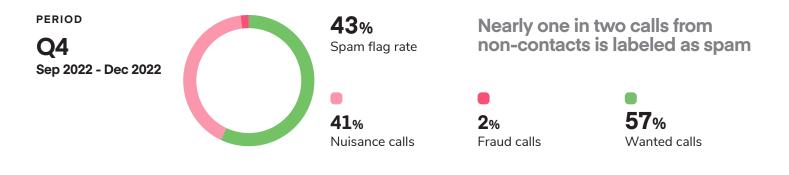
13% of all spam calls in Q4 were labeled as fraud



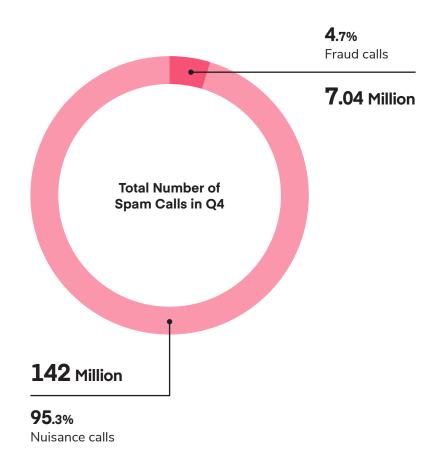
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: **Samsung Smart Call users** in Finland

France



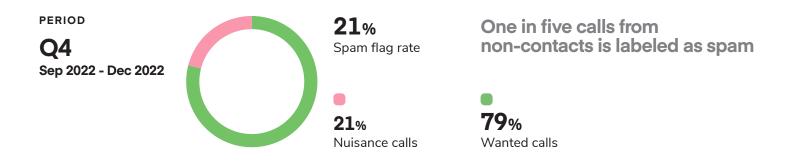
5% of all spam calls in Q4 were labeled as fraud



Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

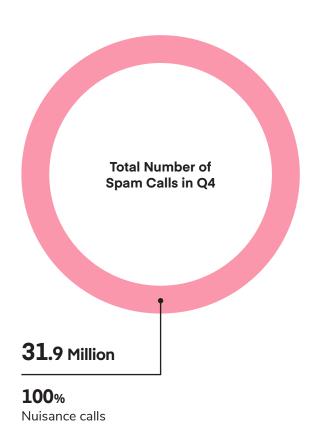
Source: Samsung Smart Call users in France

Germany



All unwanted calls flagged as spam

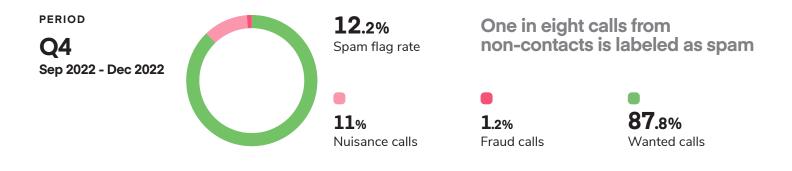
Hiya uses a single 'spam' warning for both nuisance and fraud calls.



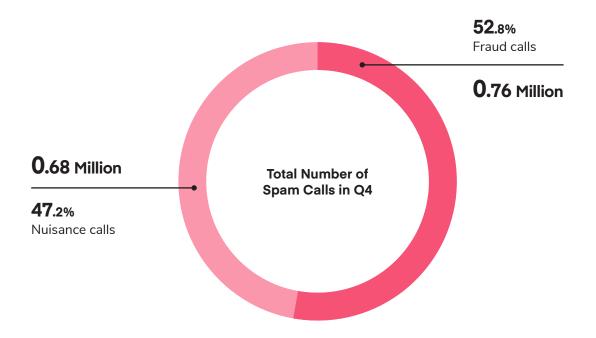
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Germany

Greece



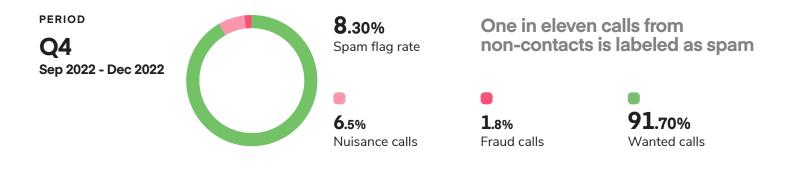
53% of all spam calls in Q4 were labeled as fraud



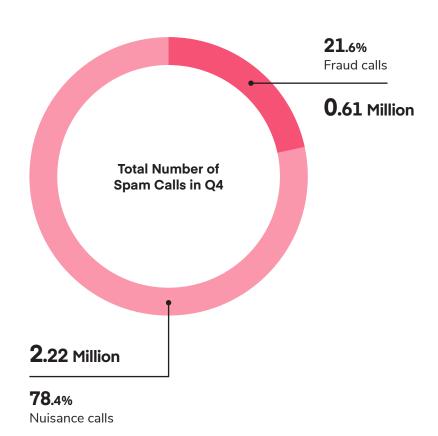
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: **Samsung Smart Call users** in Greece

Hungary



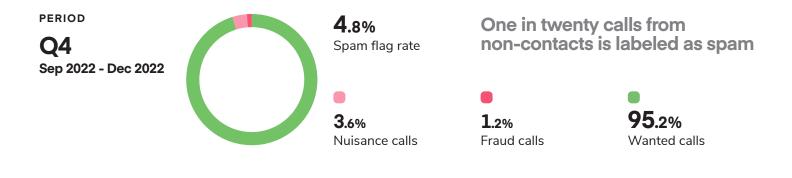
22% of all spam calls in Q4 were labeled as fraud



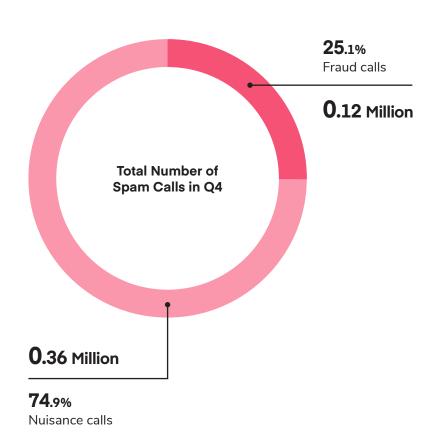
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Hungary

Ireland



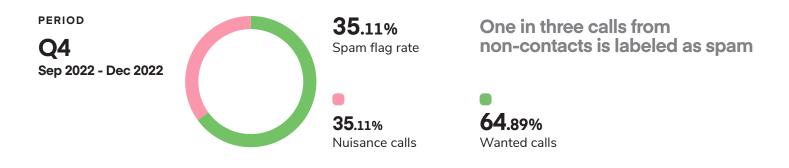
25% of all spam calls in Q4 were labeled as fraud



Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

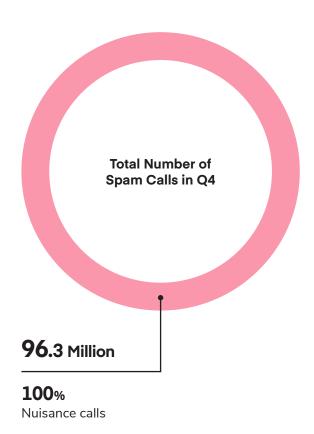
Source: Samsung Smart Call users in Ireland

Italy



All unwanted calls flagged as spam

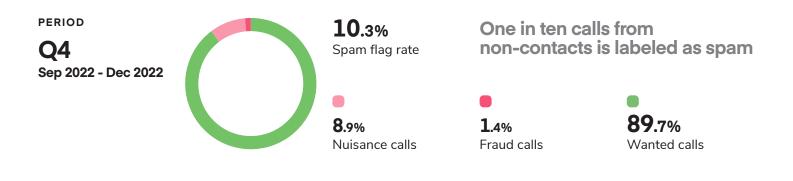
Hiya uses a single 'spam' warning for both nuisance and fraud calls.



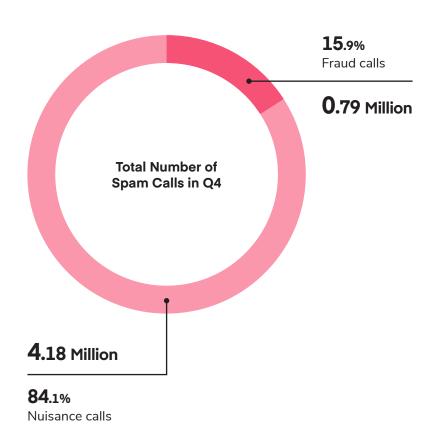
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Italy

Netherlands



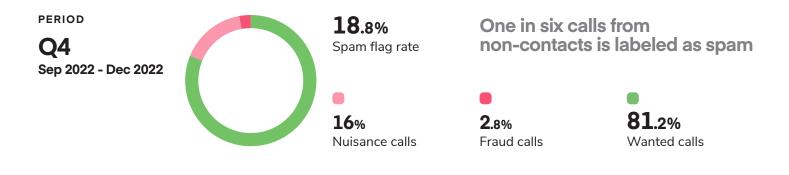
13% of all spam calls in Q4 were labeled as fraud



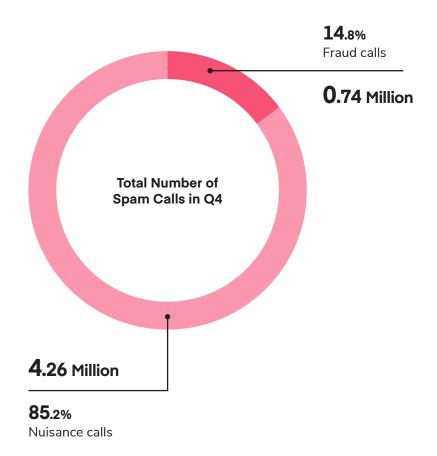
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Netherlands

Norway



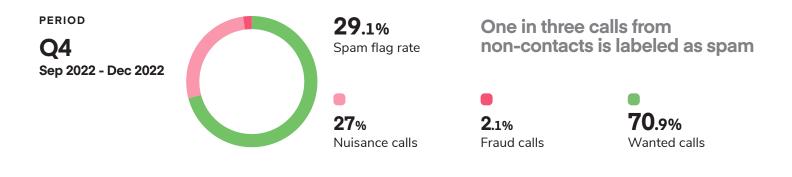
15% of all spam calls in Q4 were labeled as fraud



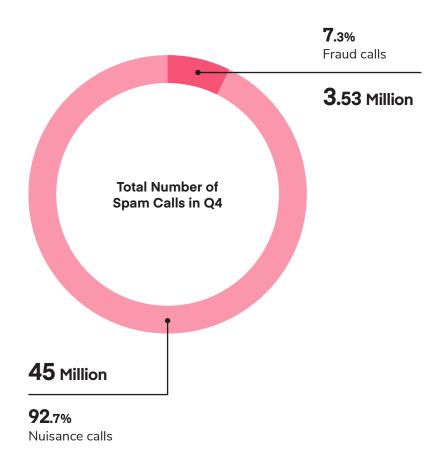
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Norway

Poland



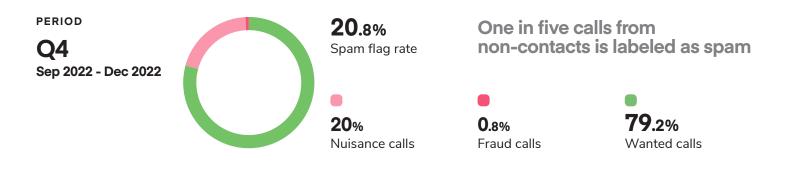
7% of all spam calls in Q4 were labeled as fraud



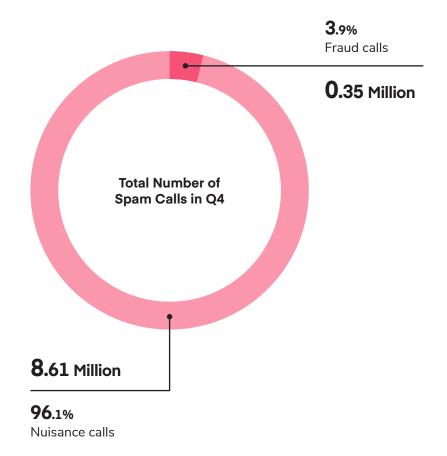
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Poland

Portugal



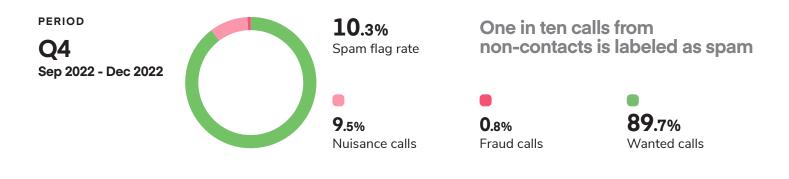
4% of all spam calls in Q4 were labeled as fraud



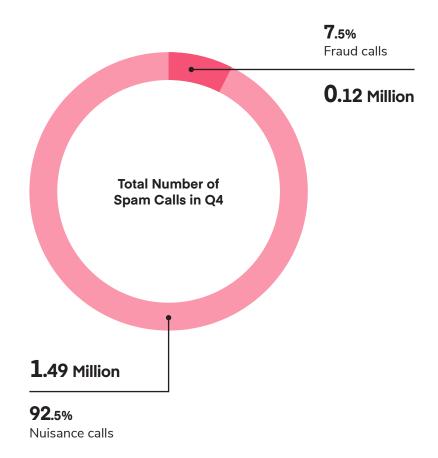
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Portugal

Slovakia



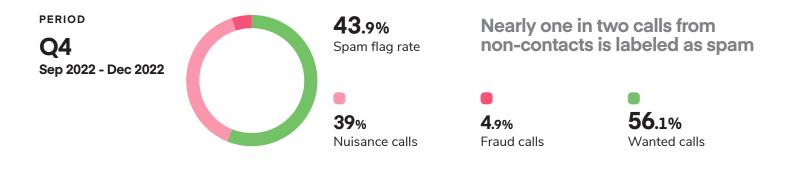
8% of all spam calls in Q4 were labeled as fraud



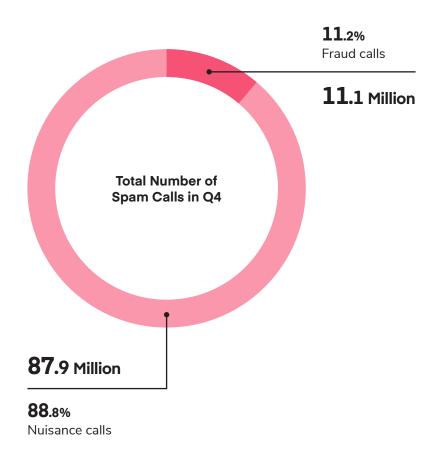
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Slovakia

Spain



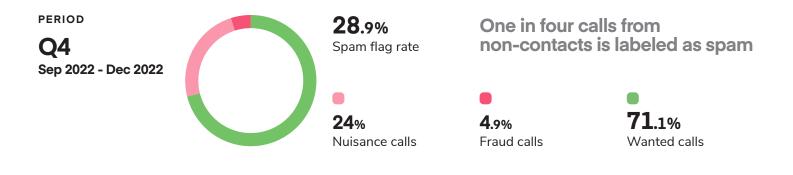
11% of all spam calls in Q4 were labeled as fraud



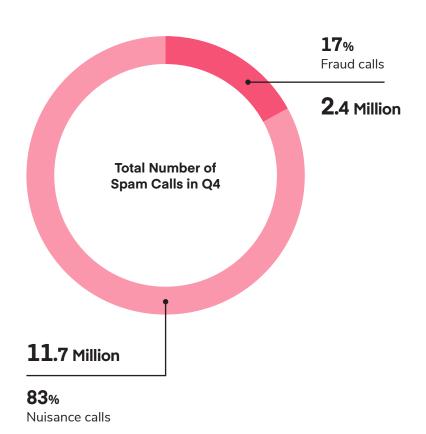
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Spain

Sweden



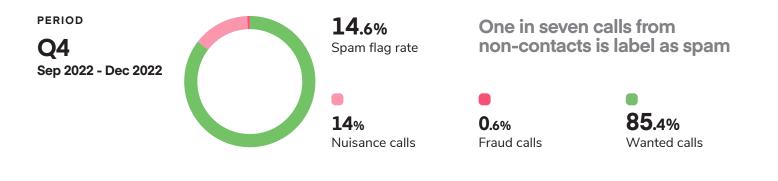
17% of all spam calls in Q4 were labeled as fraud



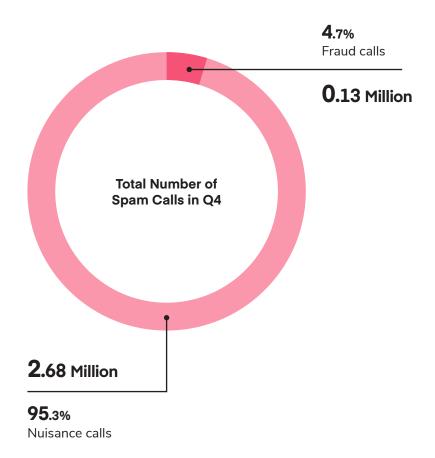
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Sweden

Switzerland



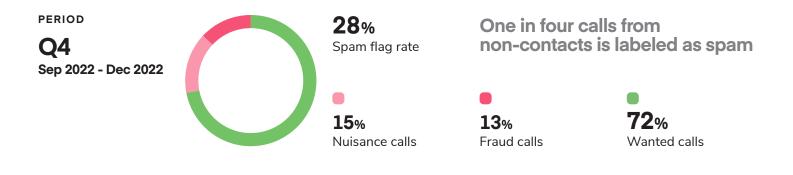
5% of all spam calls in Q4 were labeled as fraud



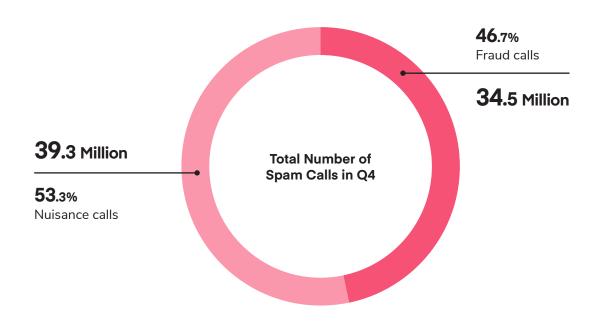
Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in Switzerland

United Kingdom



47% of all spam calls in Q4 were labeled as fraud



Spam ratios represent the number of unwanted calls from "non-contacts;" calls placed from numbers that are not in an individual's local address book.

Source: Samsung Smart Call users in United Kingdom





ABOUT HIYA

Hiya is trusted by global businesses, carriers and consumers to provide secure, engaging connections and stop unwanted calls. Built on the world's leading Voice Security Platform, Hiya connects businesses with their customers, helps carriers secure their networks, and protects people from spam and fraud calls.

Hiya's leading SaaS applications, **Hiya Connect** and **Hiya Protect**, improve the voice experience with trust, identity and intelligence. Powering services like AT&T Call Protect, Rogers Spam Call Detect and Samsung Smart Call, Hiya Protect outsmarts sophisticated scammer with machine-trained trust models and makes voice more intelligent via real-time, global analytics. With a reach of hundreds of millions of users worldwide, Hiya Connect enables enterprises to deliver an unsurpassed, differentiated customer experience through secure and branded calls, and optimizes business results with call performance intelligence.