

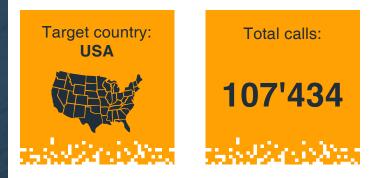
Threat Intelligence Insights VoipDialer



ack ggest US Banks

detected an autonomous version of to customers of one of the largest U.S. banks , created to automatically call the victims and he cybercriminal managed to steal more een the most successful autonomous voice for the European financial sector as well. ng is among the top 5 cyberattack trends in

ghlights



corded conversation









The Strategy

Rather than calling the victims, the attacker built AI-powered conversational <u>IVRs</u> with Programmable Voice and Autopilot that recognize users' intent, collect data from users, answer frequently asked questions, record the call, and extract the information into a CSV file.

Prompt Upload	View IVR CallLogs											Download recordings Download CDR Delete logs									
IVR Settings	Search :	Caller ID , Callee, Status From to To									_	S	sarch	C Res	set						
	CalierID	Callee	Duration	Date	Recording	Input 1	2	3	4	5	6	7	8	9	10	11	12	13	14		
BlackList Numbers			00.02.05	2022-02-16	▶ •0	200		- 444	A89.	344	100	444	A15			2010	2006		ω.		
Blacklist Import Remove Twillo Logs	-	-	00:00:00	2022-02-16	▶ 40	201	***	244	414			***	444			244			***		
LogOut	-	-	00:02:37	2022-02-16	• •	***			***		(444))	A88.	344			***			649.)		
	(married)	100000000	00:00:57	2022-02-16	• •				***	***	***		.448		***						
	-	11 Contractor	00:00:00	2022-02-16	•	***	***		***	***		***	***	***	***	***		***	***		
	-	-	00:02:47	2022-02-16	• •	***	•••		***	***	***	***	444	•••	***	***	***	***	***		
	Sec. 1	100000000	00:00:00	2022-02-16	• •	***	•••		***	***	***	***	***	***	***	***	(***		•••		
			00:00:00	2022-02-16	• •	448	***	***	***		***	***	***	***	***	***	***	***	***		
		-	00:04:10	2022-02-16	• •	***	***		***		***	***		***	***	***	***	-	***		
	[in the second	00:00:13	2022-02-16	▶ ●	444					100	A44	444			***	***				

IVR (Interactive Voice Response) Call Logs Page

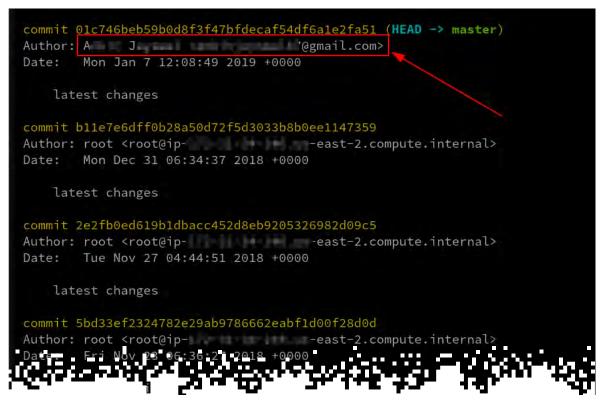
<u>Twilio</u> and <u>Asterisk</u> were among the different programs used to provide programmable communication tools for making and receiving phone calls, sending and receiving text messages, and performing other communication functions using its web service APIs.

Bankers or law enforcement were avoided with the added feature to import blacklist numbers. The complete automated process was intended to provide passive income to the attacker.

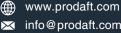


The Attacker

PRODAFT investigators discovered the attack on 16.02.2022. The attacker committed crucial mistakes leaving his credentials on GitHub. All this helped the PTI team to reveal his complete identity. The attacker was a web developer from Ahmedabad, Gujarat, India, whose origin server was in France. He was targeting regular customers of one of the biggest US banks.



The trace of the attacker





Victim Data



The Findings

It was the first time the PTI team had encountered such a streamlined and automatic system for credit card fraud. PRODAFT's investigators gained visibility on the VoIP Dialer Panel and found **25'184 sound files, which represents 23% of total calls.** Each recorded audio was 5-6 minutes long, and the critical information was extracted into a CSV file. You can hear one of the audio recordings <u>here</u>.

The hacker stole thousands of credit cards. Audio calls were made to 107'434 customers of one of the biggest US banks, victims of the automated voice phishing attack.

Vishing and Credit Card Fraud Prevention

Notwithstanding that the targeted bank was from the US, the same type of attack could be easily adapted by cybercriminals to target other financial institutions in Europe as well.

Enterprise executives and their risk advisors need in-depth threat intelligence to mitigate these threats while minimizing the damage they cause. The work of our TI team is crucial toward understanding the cybercrime landscape.

Our <u>TI platform</u> relies on dozens of intelligence collection tools that monitor thousands of different sources and detect security issues earlier and faster to meet the challenges of today's complex cyberattacks. Proactive threat intelligence is key to identifying the factors contributing to cybercrime trends and preventing the threat actors from exploiting enterprise vulnerabilities.

