

Surveillance Data Sources - Mobile Surveillance Monitor

Spyware and Mobile Network Telemetry Data for Threat Intelligence and Investigating Adversaries

- **Device Malware** 2 Million Attacks from 100 Threat Groups
- Network Attacks 15 Million Targeted Attacks from over 200 Networks

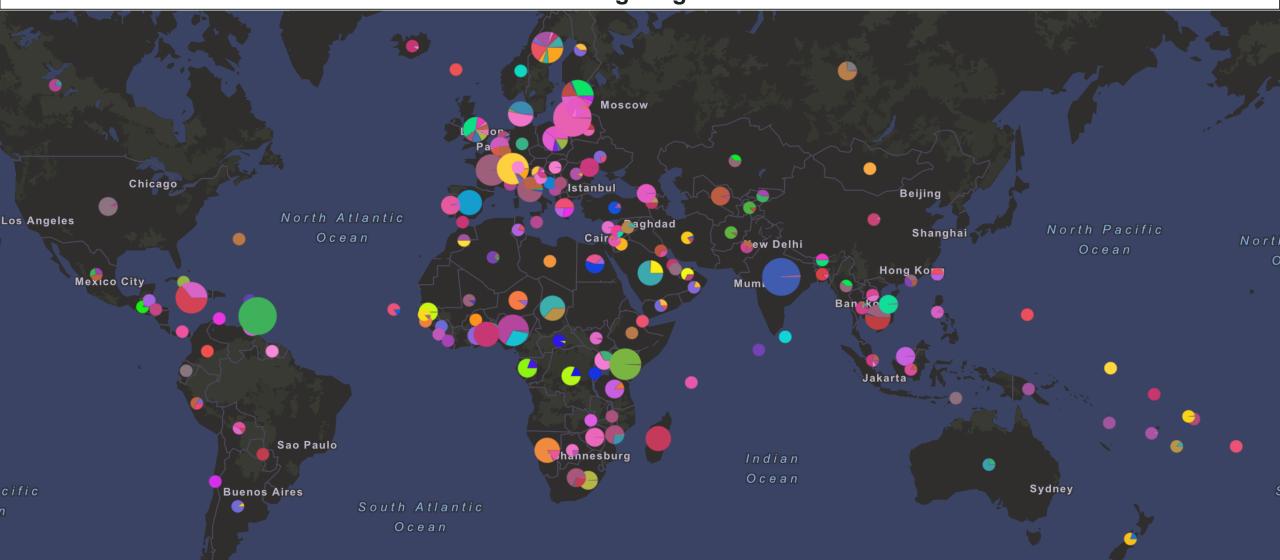




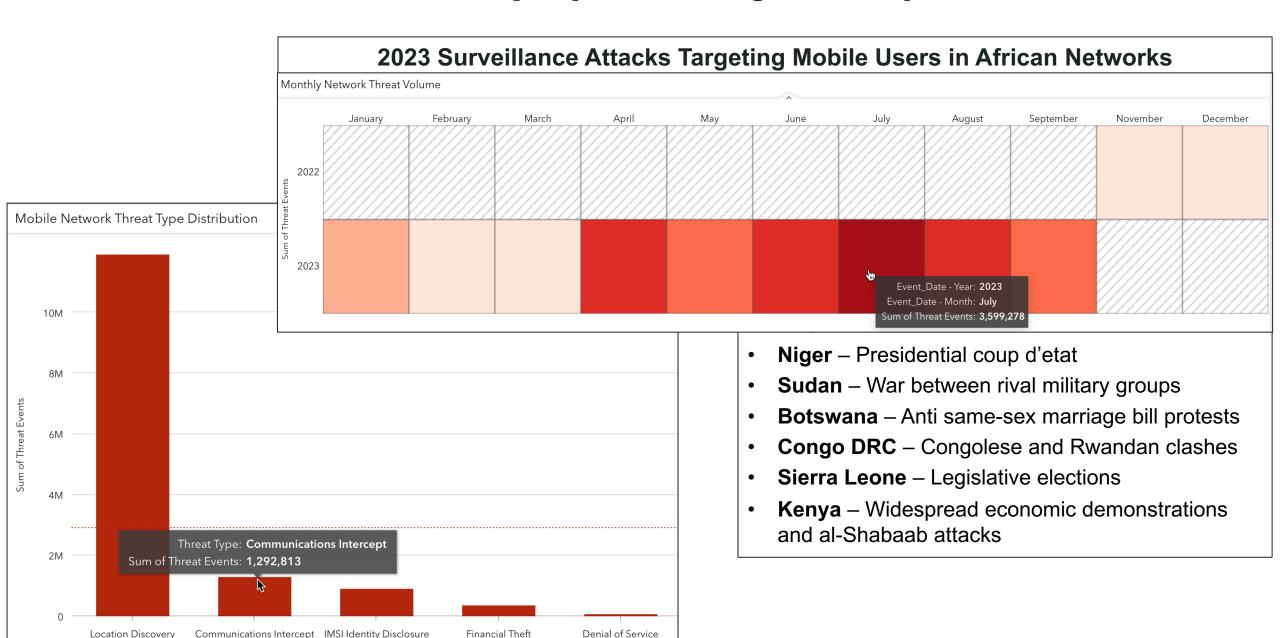
Operators are shutting down 3G service. Aren't mobile network attacks old news?

Attack telemetry data from mobile operator network firewalls suggests otherwise...

Over 200 Networks Are Seen Targeting African Mobile Network Users

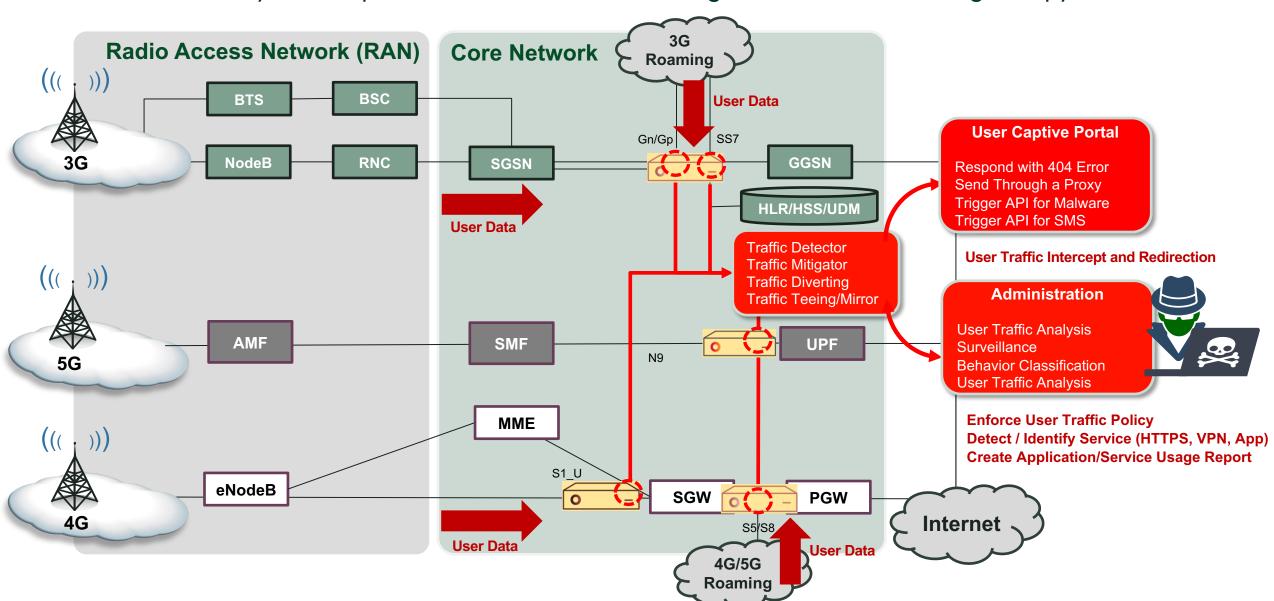


Telecom networks are massively exploited in regions of repression and conflict

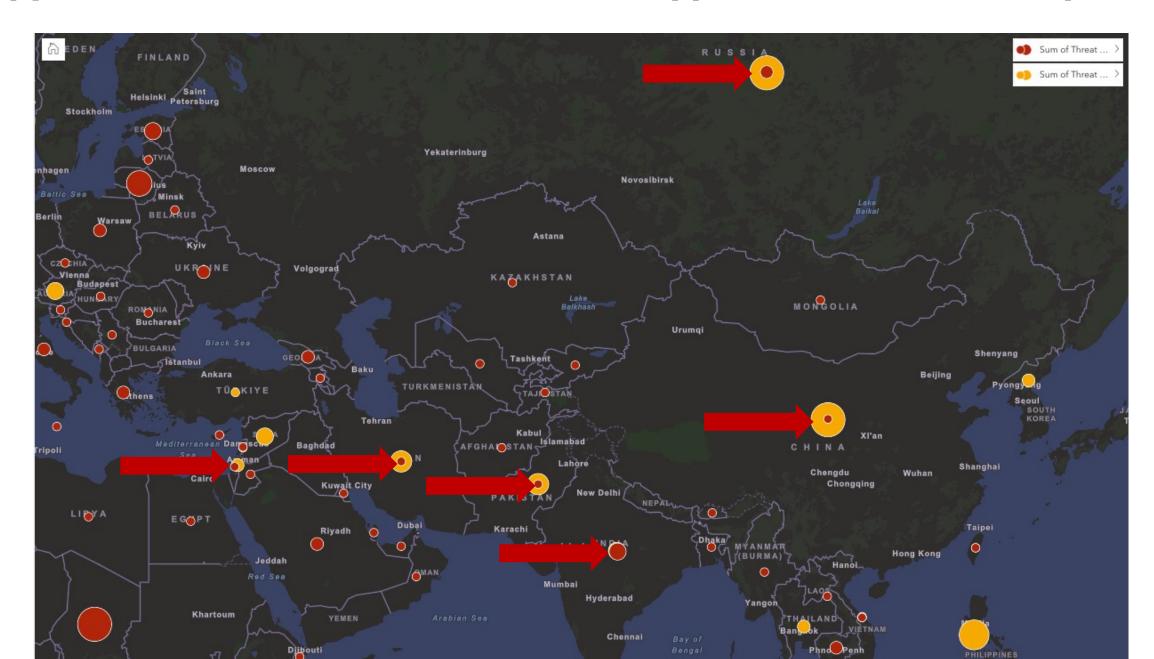


They also monitor and manipulate usage centrally with DPI technology

Centralized telecom systems capture all service interfaces, enabling reconnaissance and targeted spyware distribution



Spyware and network surveillance attacks appear from sources we expect



How a Swiss telecom provider runs a global surveillance system

An obscure telecommunications company based in Basel, Switzerland operates a surveillance system sold to government agencies with licenses from the ITU, Switzerland, Sweden, and Antarctica, using networks from Cambodia, South Pacific Islands, Italy, Madagascar, Russia, UK, Iceland, and Vietnam.



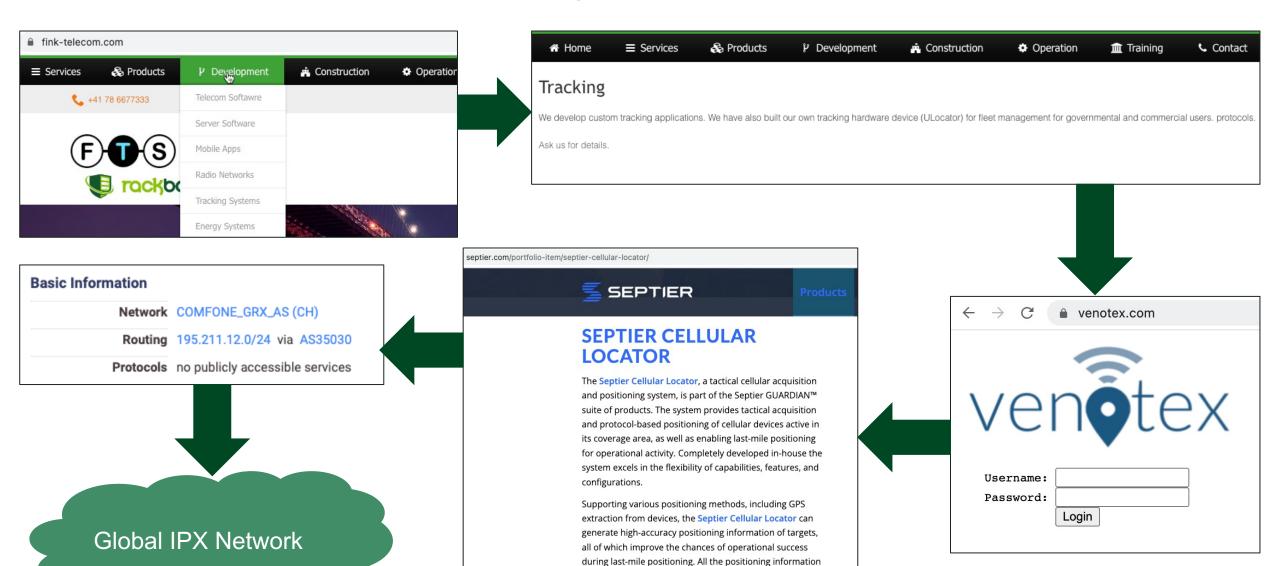
Fink Telecom Surveillance in Africa Exceeded 18,000 Attacks



Fink Telecom Surveillance Network Cluster

Source Country	Source Network	Calling GT
Cambodia	CADCOMMS	85513000222
Fiji	DIGICEL FIJI	6797001057
Iceland	IMC ISLAND	3546500493
Italy	Unknown	390760000039
Madagascar	MADACOM CELTEL	261331111201
Papua New Guinea	DIGICEL PAPUA NEW GUINEA	67572210444
Russian Federation	MIATEL LLC	79588879810
Samoa	DIGICEL SAMOA	6857700095
witzerland	FINK TELECOM SERVICES	4158707123456
Switzerland	FINK TELECOM SERVICES	41587070188
Switzerland	SMSRELAY	4144596008
Switzerland	FINK TELECOM SERVICES	4186044596008
Tonga	DIGICEL TONGA	6768900003
United Kingdom	Unknown	44753259780
United Kingdom	LIMITLESS MOBILE2	447458810177
United Kingdom	Unknown	44753252780
United Kingdom	Unknown	44753250080
Vanuatu	DIGICEL VANUATU	6785330094
Vietnam	GTEL MOBILE	841993973021
Vietnam	GTEL MOBILE	841993973022

A surveillance "suite" is sold—with Global Title addresses, a cloud-hosted platform, and access to the private global telecom intercarrier IPX network



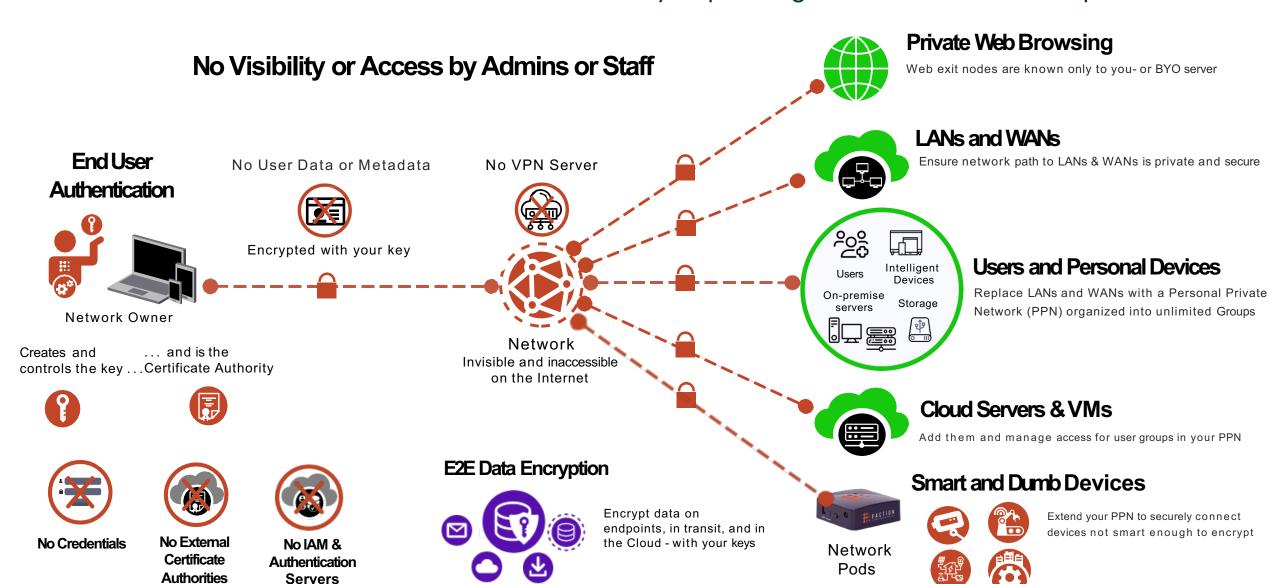
will be as short as possible.

is updated in real-time to fine-tune the calculated location of the target and ensure that once the active stage starts, it

How can decentralized networks help?



Eliminate cloud-based vulnerabilities and centralized control by empowering users to create secure and private networks



What we know and what we can do

Centralized telecom networks create a hidden surveillance economy

Network surveillance and spyware are different, but achieve the same objectives

As a mobile user, there's little you can do to protect yourself in repressive countries

Action from regulators is long overdue and should not be expected

HELP CHART A NEW PATH FORWARD

- Decentralized Networks
- Decentralized Security
- Attack Transparency
- Response From Like-Minded Governments



