

Burning the Lookout

...

> whoami

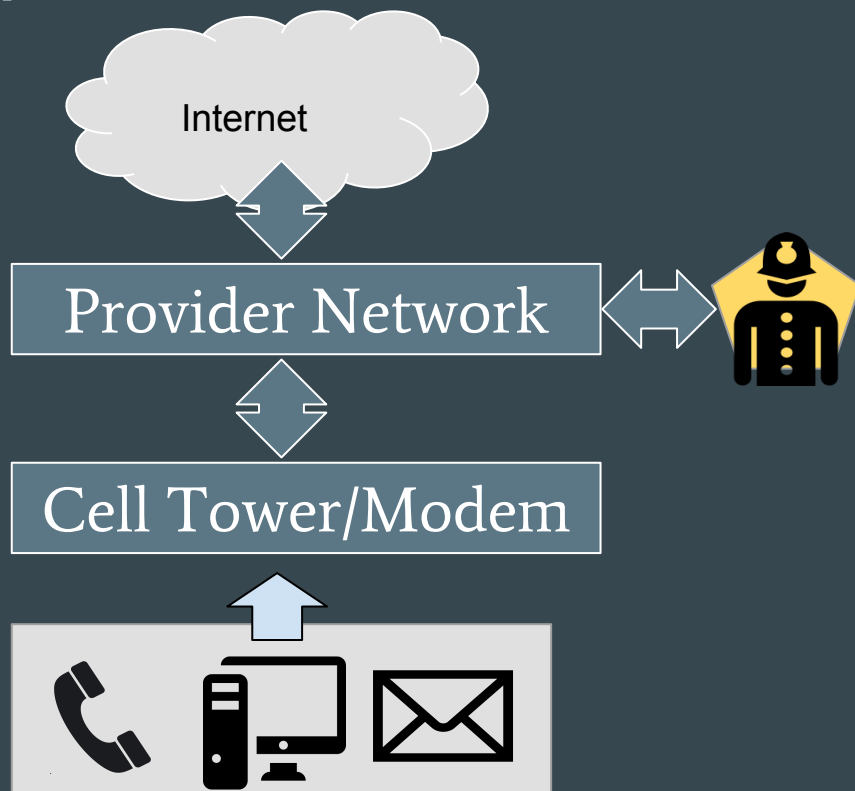
- Senior Security Researcher @ CrowdStrike
 - Project Director / Intern @ MalShare
 - Project Director @ Project 25499
-
- Twitter: @SilasCutler
 - Email: silascutler@riseup.net



Crash course in Lawful Intercept

Crash course on Lawful Intercept

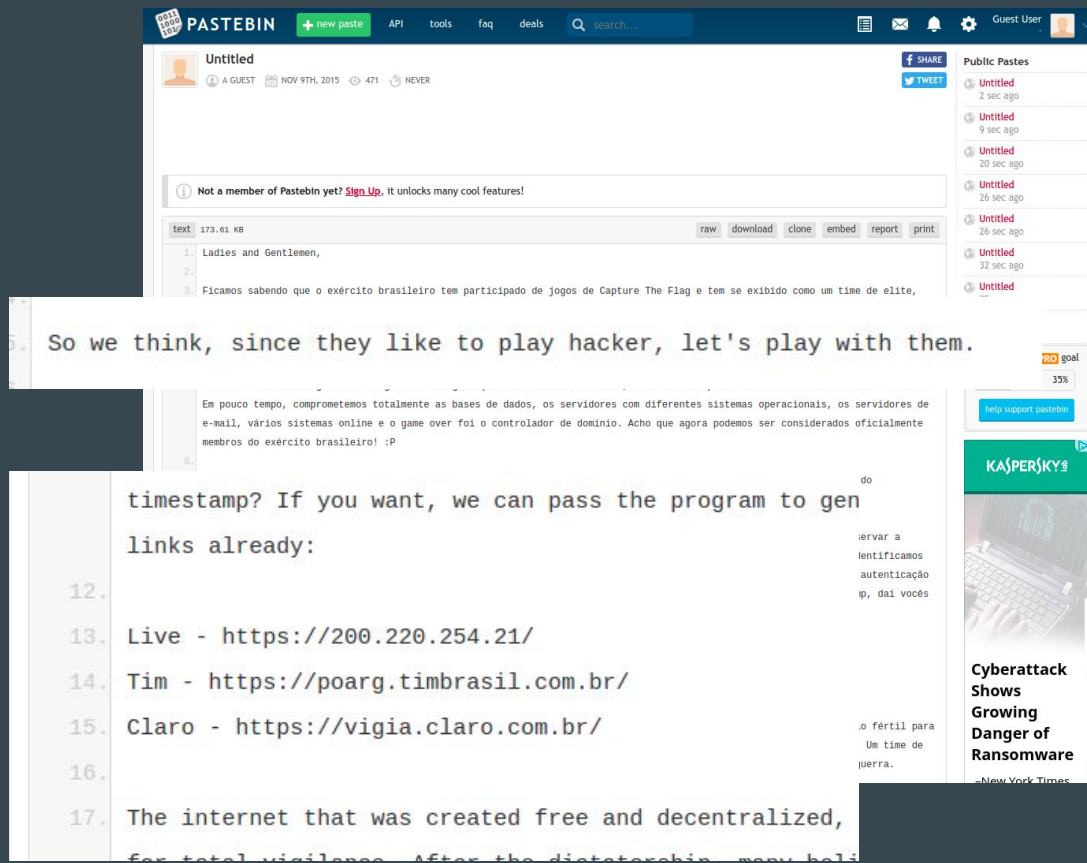
- Process, Tools, Ability for Law Enforcement to collect as part of investigations (*wiretaps*)
 - CALEA (Communications Assistance for Law Enforcement Act)
 - ESTI (European Telecommunications Standards Institute)
- Standard deployment
 - Intercept Access Point (IAP)
 - Mediation Device
 - Lawful Intercept Administration (LIA)



Vigia

Backstory

- Pastebin 2015
- Poster claimed to have hacked Brazilian Army after they did a CTF
- Post included:
 - 7000 Credentials
 - 3 Websites





Your connection is not private

Attackers might be trying to steal your information from **vigia.claro.com.br** (for example, passwords, messages, or credit cards). [Learn more](#)

NET::ERR_CERT_COMMON_NAME_INVALID

☐ Automatically send some [system information and page content](#) to Google to help detect dangerous apps and sites. [Privacy policy](#)

ADVANCED

Back to safety

Interception
Achievement Suite

vigia

Seu Ip: 176.10.104.243

Acesso

Login:

Senha:

1	2	3	4	5	6	7	8	9	0
q	w	e	r	t	y	u	i	o	p
a	s	d	f	g	h	j	k	l	ç
Tab	z	x	c	v	b	n	m	_	
Caps	Clear	Back	*	.	/	#			

[Esqueceu a senha?](#)

Entrar



LOGIN

Login




Senha

1	2	3	4	5	6	7	8	9	0
q	w	e	r	t	y	u	i	o	p
a	s	d	f	g	h	j	k	l	ç
Tab	z	x	c	v	b	n	m	_	
Caps	Clear	Back	*	.	/	#			

[ESQUECI MINHA SENHA](#)[ENTRAR](#)

Vigia

- *Lawful Intercept Suite* developed by SunTech Brazil
- (Mediation Device)
 - View intercepted data from service providers
 - Add new surveillance targets
- Where's it used?

Legal Interception Management

Solutions for managing the entire legal interception process, allowing communications service providers to provide the necessary information to the judicial authorities

Tailor-made tools for complete management in legal interception, location and data retention

Suntech has a complete portfolio of solutions, known as VIGIA, aimed at managing the entire process of legal interception, location and retention of data for all communication services and subsystems within the

Hunting for Vigia

- What are distinct artifacts from these systems?
 - SSL
 - DNS
 - Page Content
- Censys / Shodan / Scans.io / Passive DNS for static patterns
 - /vigia/ or /suntech/ present in SSL certificates
 - vigia.<provider domain>



948b51cc68e2af916bc3f6d1bc1263a58f61728053d4d79717f

Register
Sign In

vigia.vivo.com.br

Certificate Trust CT ZLint 1 PEM Raw Data Explore

Basic Information

Subject DN	C=BR, ST=Sao Paulo, L=Sao Paulo, O=Telefonica Brasil S A, OU=Organization and domain(s) authenticated by Certisign, OU=Organization and domain(s) authenticated by Certisign, CN=vigia.vivo.com.br
Issuer DN	C=US, O=Symantec Corporation, OU=Symantec Trust Network, CN=Symantec Class 3 Secure Server SHA256 SSL CA
Serial	118385973456492548540096226555252475937
Validity	2017-03-20 00:00:00 to 2018-03-21 23:59:59 (366 days, 23:59:59)
Names	vigia.vivo.com.br

Fingerprint

SHA-256	948b51cc68e2af916bc3f6d1bc1263a58f61728053d4d79717f057e805b1798a
SHA-1	91b08b48a8862403f23b58fa186c842b751c31f0
MD5	4b9410cec40dff2f92d5d619ddfef73a

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USO INTERNO

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📍 [Início](#) > [Uso Interno](#) > [Links Úteis](#)

LINKS ÚTEIS

SISP

<http://www.dcssp.ciasc.gov.br/sdsp/index.asp>

SISP treinamento

<http://dcssp-hom.intranet.ciasc.gov.br/sdsp/>

Consultas Integradas

<https://www.consultasintegradas.rs.gov.br/csi/INTERFACE/soe/PRSoeLogon.jsp>

Infoseg

<https://infoseg.sinesp.gov.br/>

Disque

<http://172.21.9.13:8080/disquedenuncia/pages/index.jsp>

Vigia Oi

[https://ilc.oiloja.com.br/consultaOi/reqStartLogin.do;jsessionid=94707C7E24D9\[REDACTED\]](https://ilc.oiloja.com.br/consultaOi/reqStartLogin.do;jsessionid=94707C7E24D9[REDACTED])

Vigia TIM

[https://poarg.timbrasil.com.br/login.html;jsessionid=0D73BE40CD3\[REDACTED\]](https://poarg.timbrasil.com.br/login.html;jsessionid=0D73BE40CD3[REDACTED])

VIGIA CLARO

<https://vigia.claro.com.br/VigiaDadosClient/reqStartLogin.do>

<http://gve.sea.sc.gov.br/gax2>

MATBEL - Cadastramento de armas (utilizar login e senha da intranet)

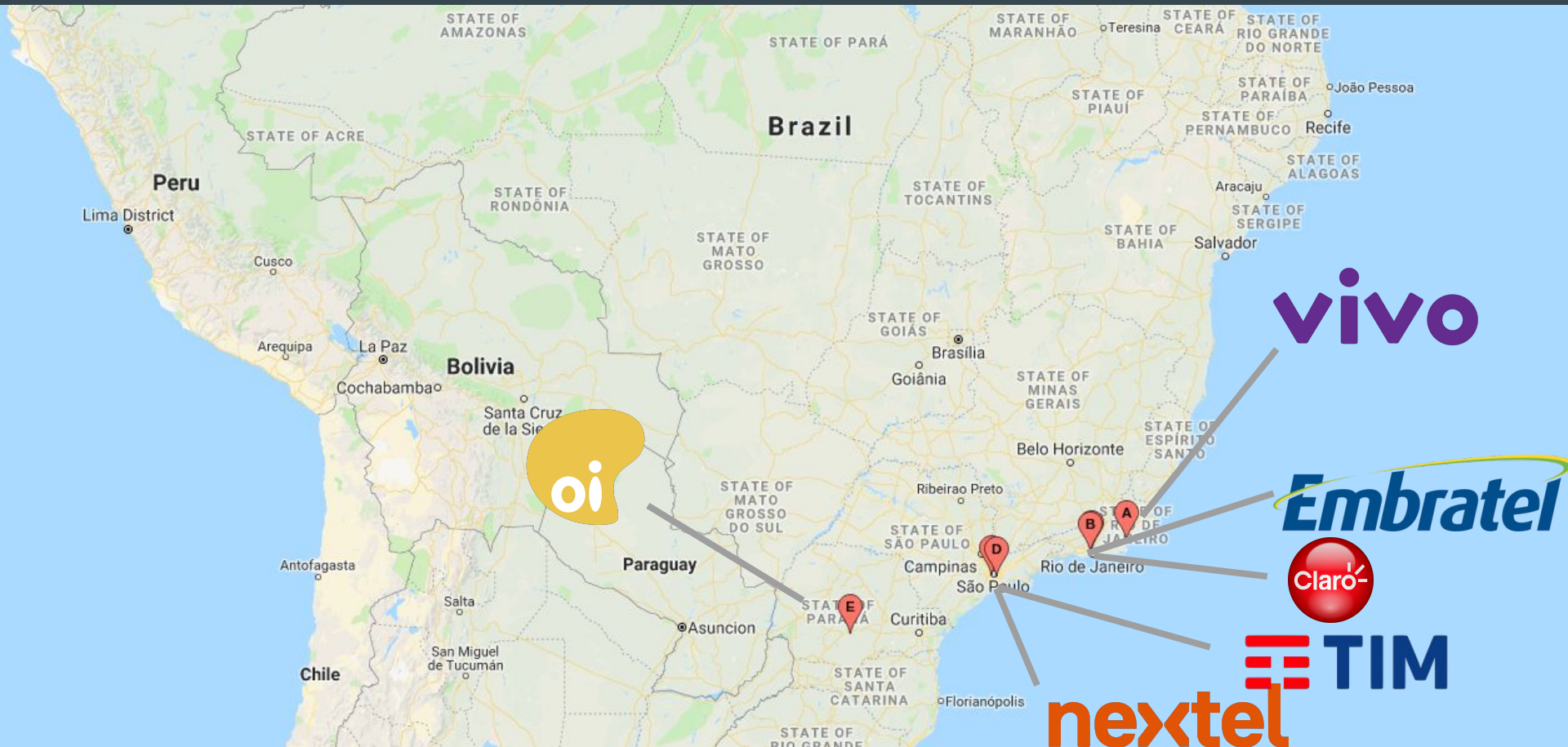


North Atlantic Ocean

South Atlantic Ocean

Indian Ocean

South Pacific Ocean



Why it matters



The Intercept

A DEATH IN ATHENS

Did a Rogue NSA Operation Cause the Death of a Greek Telecom Employee?



62



James Bamford

September 28 2015, 10:01 p.m.

Illustration: Kevin Chao

JUST OUTSIDE THE MAIN DOWNTOWN part of

Athens lies Kolonos, an old Athenian

Why it matters

- Potential for unauthorized eavesdropping
- Previous targeting by foreign and *domestic* attackers
- Likely other similar systems in the wild

211,046,525

Questions

Thank you // Fin