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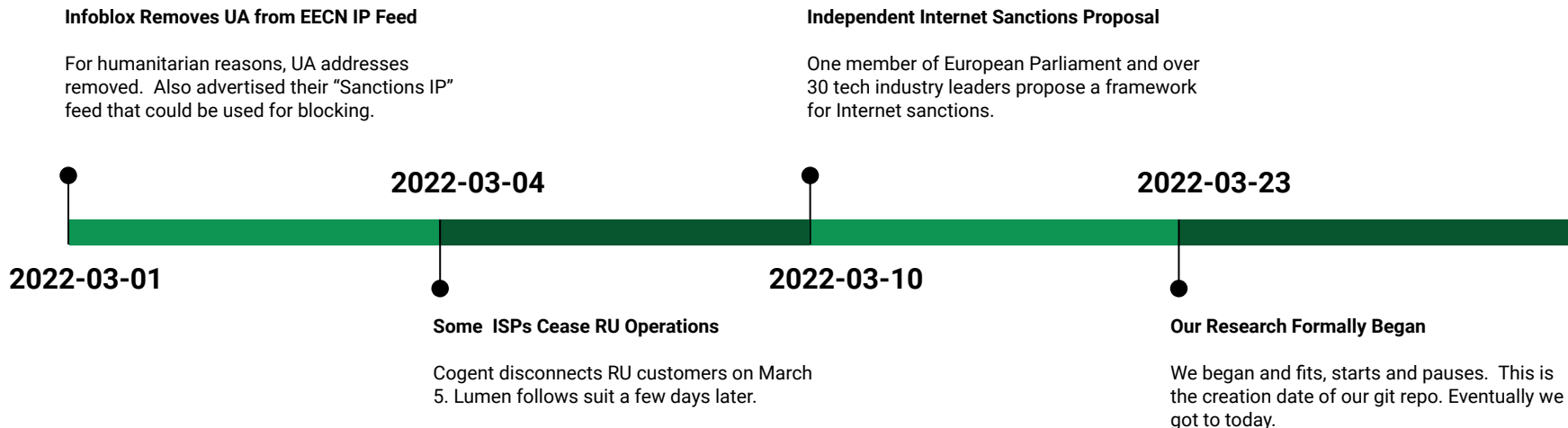
Internet Sanctions on Russian Media: Actions and Effects

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Max Resing, Chris Kanich, Niels ten Oever

Timeline - Prelude and Initial Reactions



Initial Internet Vendors and Community Reactions



Motivation



The Internet Sanctions Project

Welcome to the Internet Sanctions Project

This is an [open, Internet community governed](#), project which produces real-time [BGP](#) and [RPZ](#) data feeds of network resources and [domain names](#)) associated with [sanctioned](#) entities. These data feeds facilitate [Internet network operators](#) in complying against violators of international and human rights law.

Why does this project exist?

Sanctions have been used as a tool of statecraft for [thousands of years](#), but their use has become particularly widespread since the Second World War and until the start of the new Millennium were employed through the United Nations Security Council (UNSC). This has meant that a number of national governments and regional organizations

Research Questions

Compliance

Are Internet-based sanctions being implemented?

Methodology

How are Internet sanctions implemented and enforced?

Results

How effective (consistent and complete) is enforcement?

Measurement Platforms Overview

OONI

RIPE Atlas

eduVPN

Dataplane.org

NLNOG RING

Uncover evidence of internet censorship worldwide

Open data collected by the global OONI community

Explore

1969M

Measurements

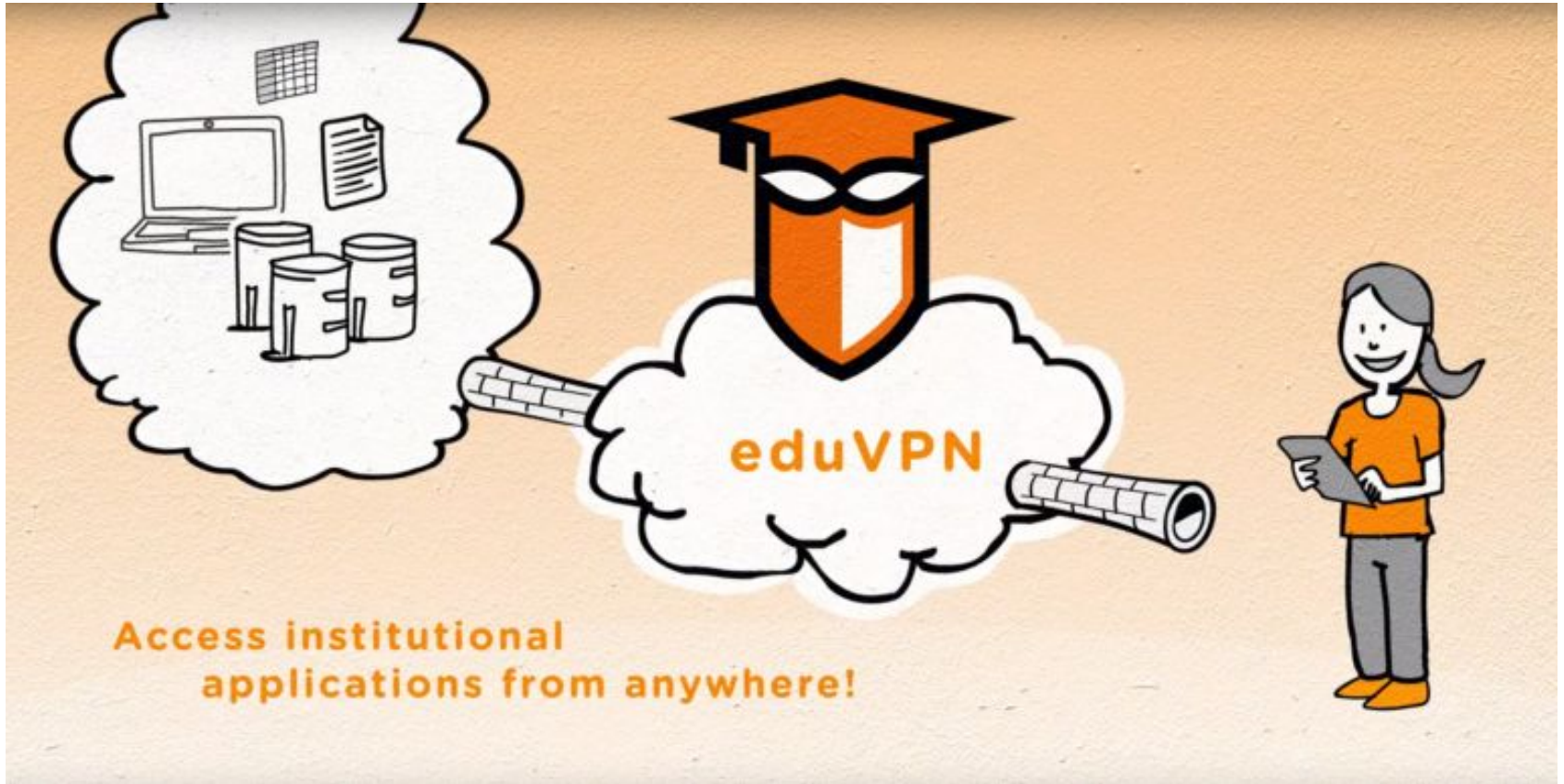
241

Countries

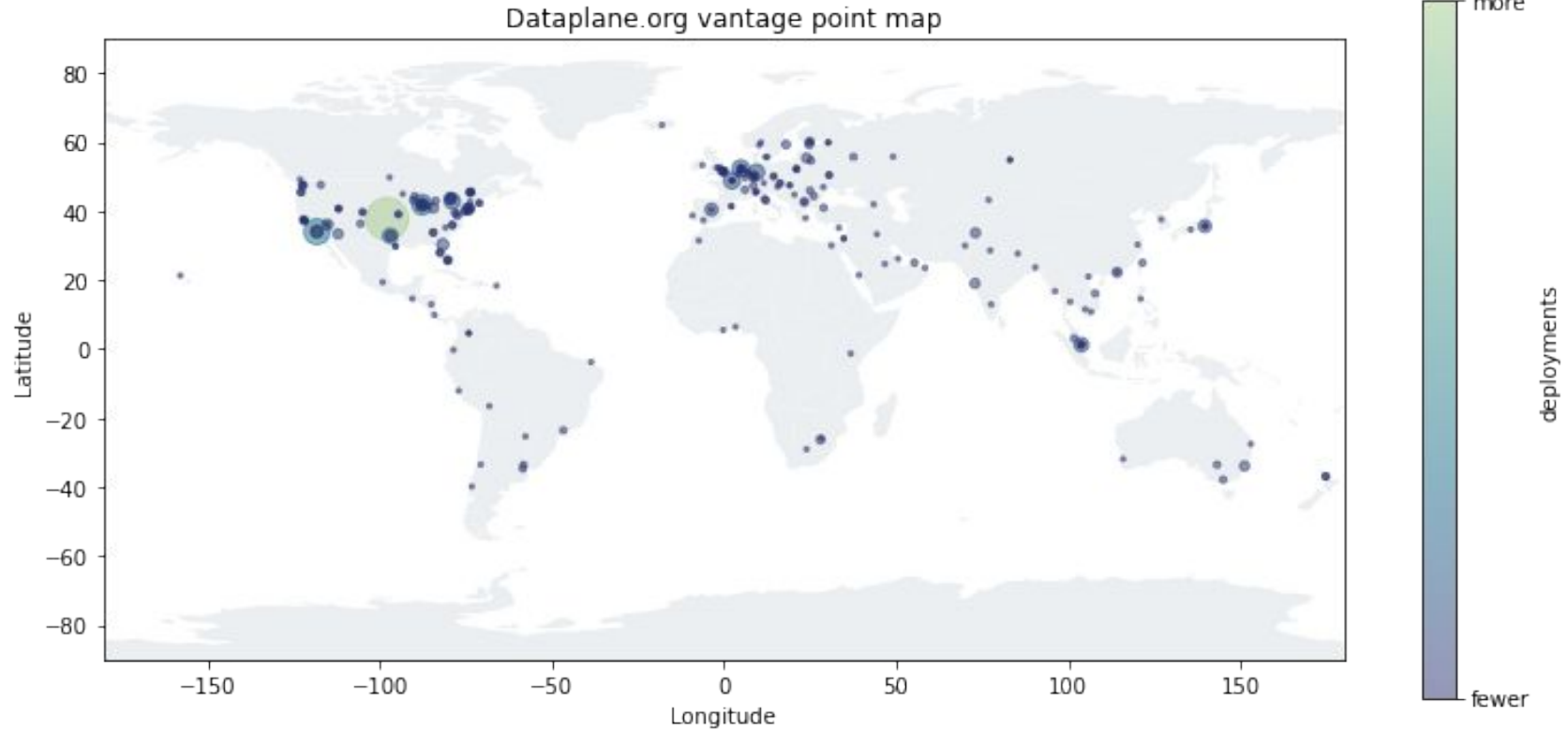
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Networks





**Access institutional
applications from anywhere!**



[News](#)[Introduction](#)[Participants](#)[Security](#)[User Guide](#)[Toolbox](#)[Contact](#)[Patrons](#)

Introduction

Motivation

I've noticed that there are a lot of friendly 'shell access' exchange deals between network operators. This makes it easier for parties to debug network issues and troubleshoot 'from the outside'. A point of view outside your network is absolutely essential, seeing what others see is a useful thing with a variety of network problems. Well known examples are 'it works for even numbered ip address, but not for odd numbered ip address via this and this route'.

What Internet Resources in a Sanctions List?

Internet identifiers historically an afterthought

We focused on primary domain names of sanctioned media

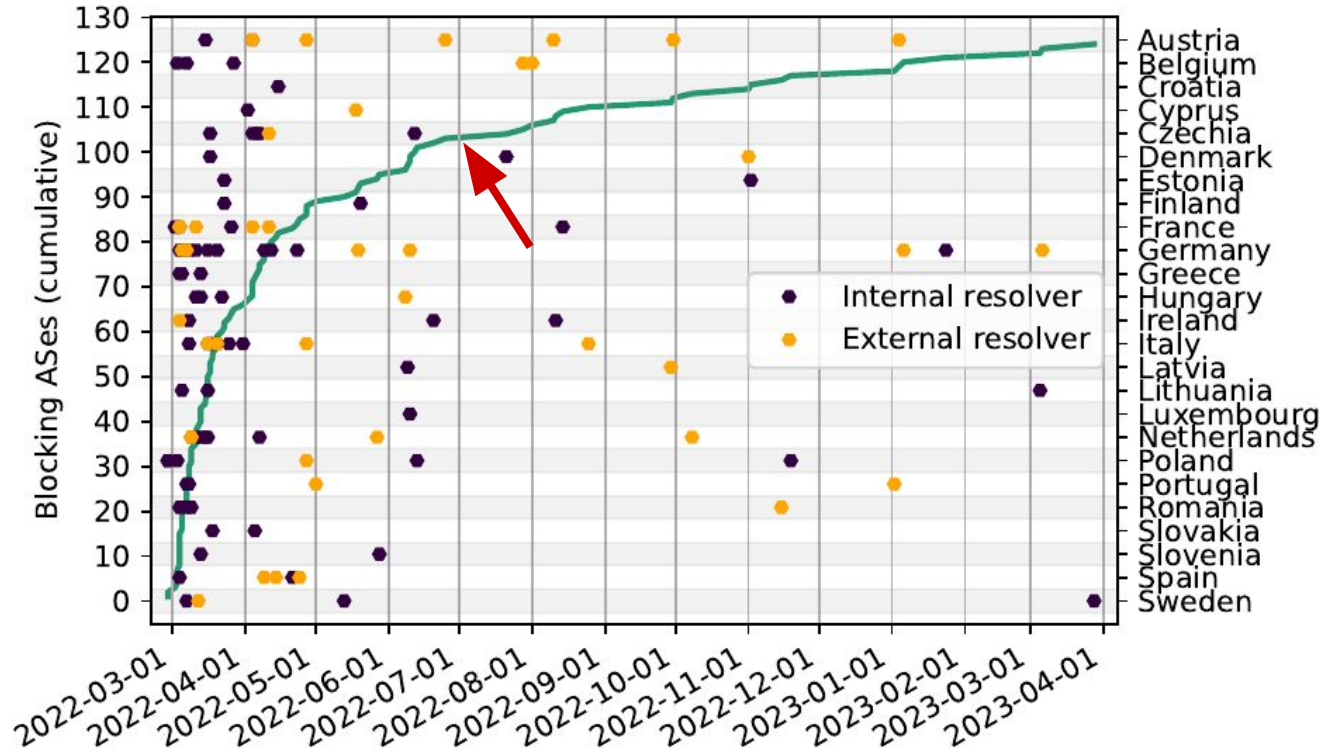
Based primarily on EU decisions (“packages”)

We also consider the US OFAC list and control resources

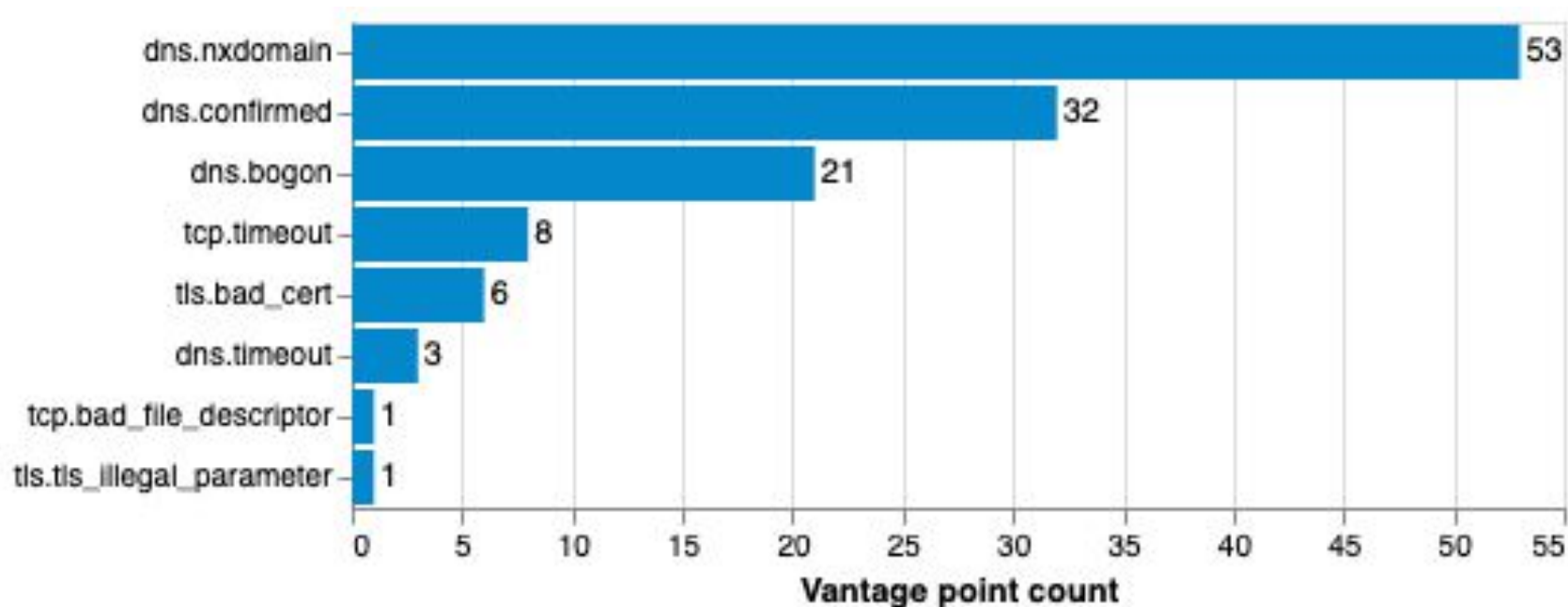
How was sanctioning measured?

Platform	IP/TCP	DNS	TLS	HTTP(S)
OONI	TCP only	✓	✓	HTTPS only
RIPE Atlas	✗	✓	✗	✗
EduVPN	✓	✓	✗	✓
Dataplane.org	✓	✗	✗	✓
NLNOG RING	✓	✗	✗	✓

77% of enforcement occurs within first three months



Blocking methods as seen by OONI



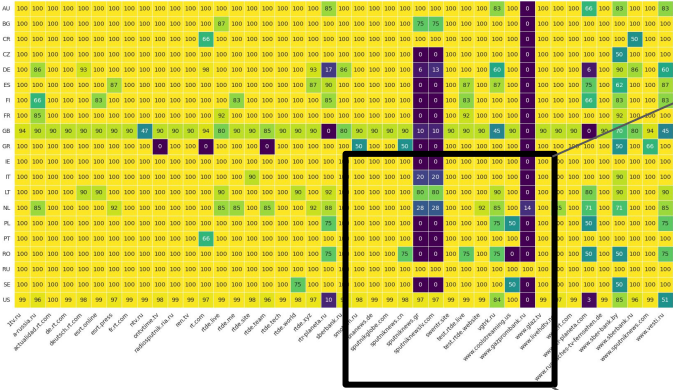
Blocking as seen from NRENs

DNS+net blocked

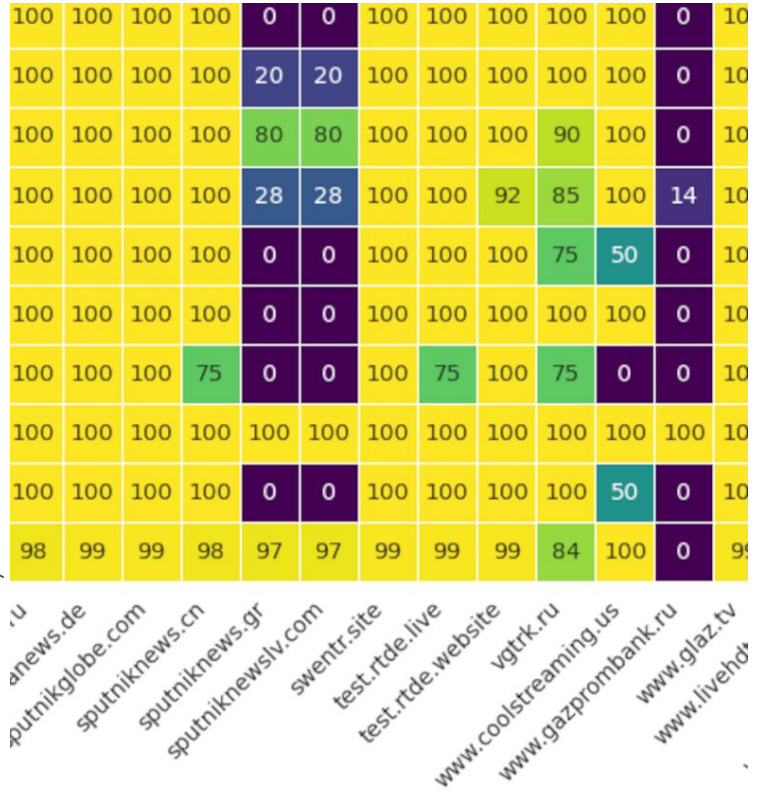
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DE																
DNS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TCP/80	(?)	(?)	(?)	(?)	(?)	(?)	(?)	X	✓	X	X	✓	✓	(?)	X	(?)
HTTP	X	X	X	X	X	X	X	X	✓	X	X	X	X	X	X	X
TCP/443	(?)	(?)	(?)	(?)	(?)	(?)	(?)	X	✓	X	X	✓	✓	(?)	X	(?)
HTTPS	X	X	X	X	X	X	X	X	✓	X	X	X	X	✓	X	X
FI																
DNS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TCP/80	X	X	X	(?)	X	X	X	✓	X	X	X	X	X	✓	X	✓
HTTP	X	X	X	✓	X	X	X	X	X	X	X	X	X	✓	X	✓
TCP/443	X	✓	X	✓	X	X	X	✓	X	X	X	X	X	X	X	✓
HTTPS	X	✓	X	✓	X	X	X	X	X	X	X	X	X	X	X	✓
NL																
DNS	X	X	X	X	X	✓	X	✓	✓	✓	✓	✓	✓	X	✓	✓
TCP/80	(?)	(?)	(?)	(?)	(?)	✓	(?)	✓	✓	X	X	✓	X	(?)	✓	(?)
HTTP	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	✓	✓
TCP/443	(?)	(?)	(?)	(?)	(?)	✓	(?)	✓	✓	X	X	✓	✓	(?)	✓	(?)
HTTPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X	✓	✓	✓	✓

Partial blocking

Network-layer blocking as seen from hosting providers



RU



User-view of sanctions - (NL) “per request of the EU”



Deze pagina is onbereikbaar

Op [verzoek van de EU](#) is dit domein momenteel geblokkeerd. We zijn ons bewust van de discussie en bezwaren over het blokkeren van websites, maar geven hiermee gevolg aan een expliciete opdracht vanuit de overheid. Bovenal hopen we dat de oorlog in Oekraïne snel voorbij is en [proberen we waar nodig te helpen](#).




[Alle voorwaarden](#) | [Missie en privacy statement](#) | [Security](#) | [Report Vulnerability](#) | [Beveiligingslek melden](#) | [Over KPN](#)

User-view of sanctions - (AT) block list with start date

Netzsperren **LIWEST**

Hier finden Sie die aktuelle Auflistung aller von LIWEST gesperrter Seiten:



Domain / IP	Kläger / Rechteinhaber	Gesperrt seit
kinox.to	Allegro Film-Verwertungs GesmbH	19.10.2015
movie4k.to	Allegro Film-Verwertungs GesmbH	19.10.2015
kinox.tv	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
kinox.am	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
kinox.nu	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
kinox.pe	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
kinox.me	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
movie4k.tv	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
movie4k.me	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
movie.to	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
movie2k.pe	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
movie2k.cm	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
szene-streams.com	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
filme-streamz.com	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
kkiste.to	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016
#kiste.to	Allegro Filmproduktions GmbH und Ulrich Seidl Filmproduktion GmbH	16.12.2016

User-view of sanctions - (PT) generic block list



AVISO



Os conteúdos a que está a tentar aceder encontram-se bloqueados e estão protegidos por Direitos de Autor e Direitos Conexos.

O seu acesso, utilização e/ou divulgação, sem autorização do respetivo titular, é crime previsto e punido por Lei.

Discussion

Blocking transparency

Mirror pages

Sanctions enforcement in NRENs

Enforcement mechanism placement

Conclusions

Coordination, inconsistency, and precision

Future work

Thank you, contact information

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<https://dataplane.org/jtk/>



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