

34C3.GUWAH!



OONI

**Lets Fight Internet
Censorship Together**

WHAT IS INTERNET CENSORSHIP?

Internet Censorship /'ɪntənɛt sɛnsərʃɪp/

1. a distortion of the reality of the Internet created by those in power.
2. another term for [FILTERNET](#).



OONI

**The Open Observatory of
Network Interference**

OONI IS
OPEN METHODOLOGIES
OPEN SOURCE SOFTWARE
OPEN DATA
FOR REPRODUCIBLE
RESEARCH!



WhatsApp Blocked

Deep Packet Inspection (DPI) detected

Media outlets, LGBT sites, human rights websites, political opposition sites
& censorship circumvention tool sites found to be blocked

Ethiopia's wave of political protests

December 2016

<https://ooni.torproject.org/post/ethiopia-report/>

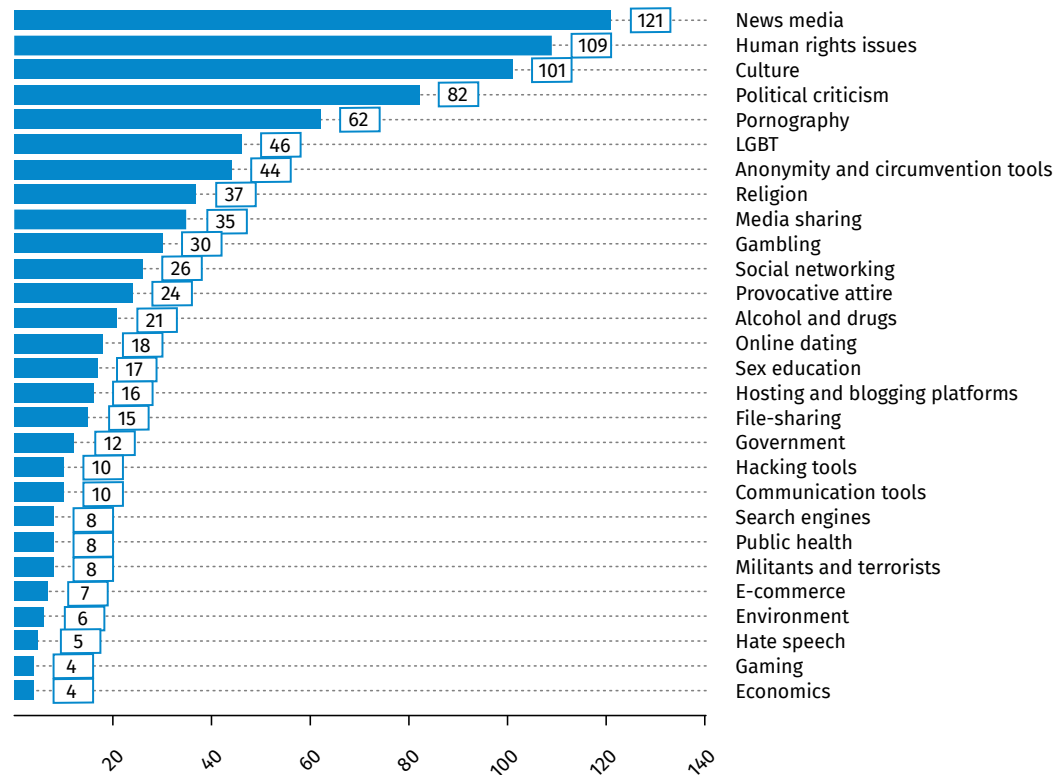
Vimeo and Reddit blocked even though the ban was lifted more than 2 years ago

Blocked URLs include LGBT sites, an online translator and sites providing information on AIDS/HIV prevention

Indonesia

May 2017

<https://ooni.torproject.org/post/indonesia-internet-censorship/>



Blocked domains in Iran

From 2014 to 2017

September 2017

<https://ooni.torproject.org/post/iran-internet-censorship/>

At least 25 websites related to the Catalonia's Independence Referendum were blocked.

The .cat registry was raided and forced to take down many websites.

Spain

October 2017

<https://ooni.torproject.org/post/internet-censorship-catalonia-independence-referendum/>

OONI SOFTWARE ECOSYSTEM



OONI

Probe



OONI

Run



OONI

Explorer



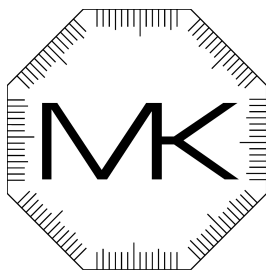
OONI

Proteus



OONI

Sync



Measurement Kit



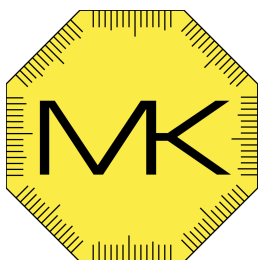
OONI

API



OONI

Pipeline



Measurement Kit

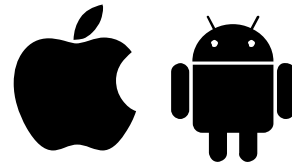
- C++14 library that implements all the network measurement tests we support.
- Available on Unix and soon on Windows
- Has JNI and Node.js bindings.



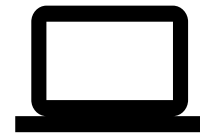
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Probe

MEASUREMENT APP FOR



Android
iOS



macOS
Linux

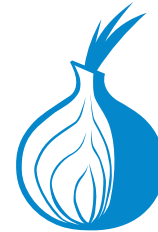
OONI Software tests



Web Censorship



Instant Messaging Apps



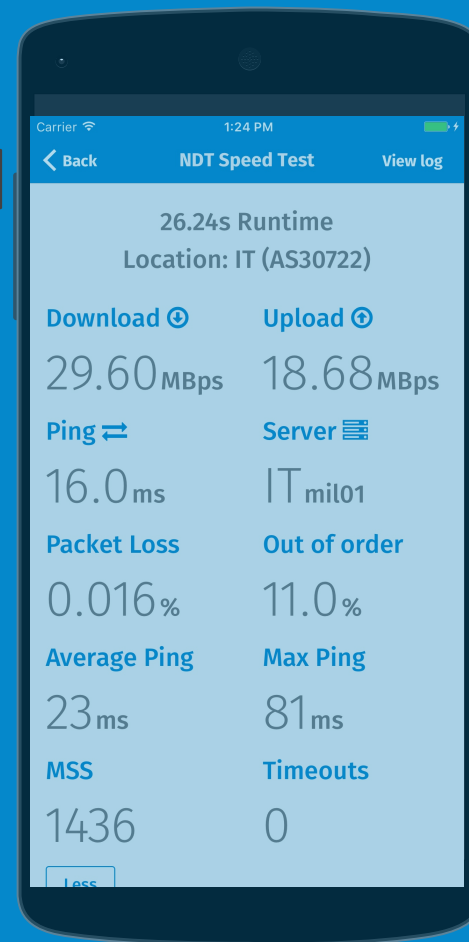
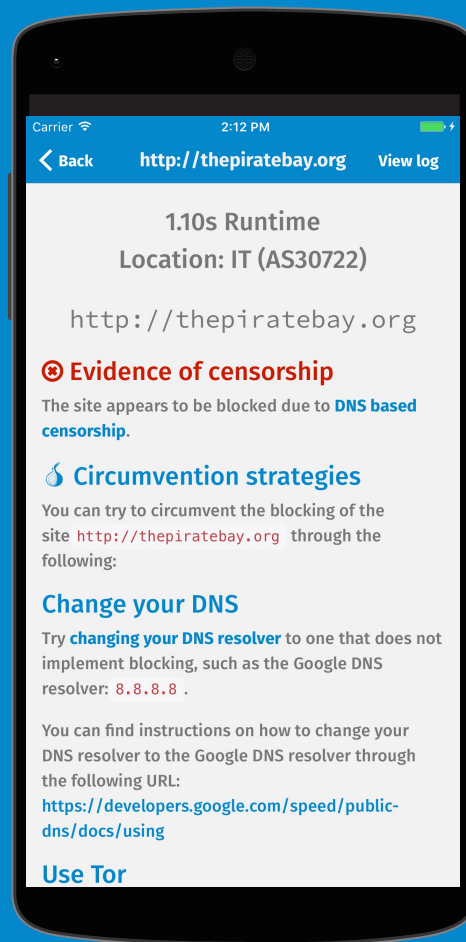
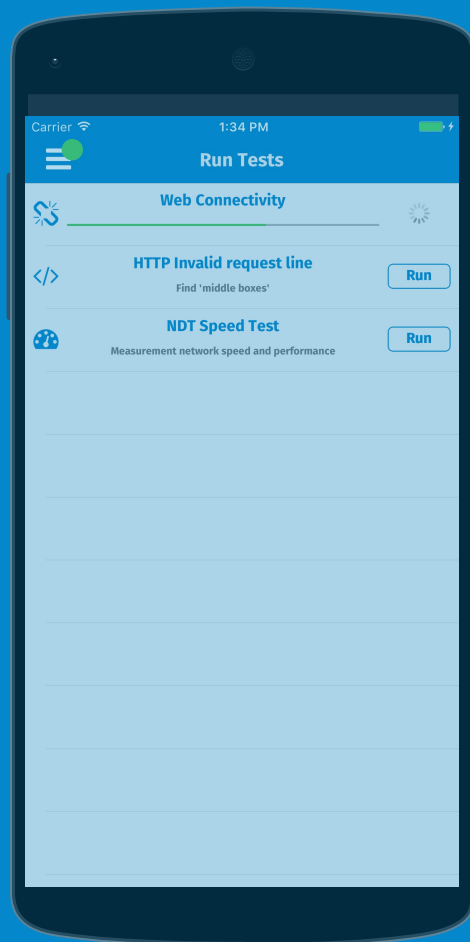
Censorship Circumvention



Middle Boxes



Speed & Performance



OONI Probe Dashboard

ooniprobe 2.2.1-dev | **running**  | Location: IS (AS47172)

Test Tor



Test the Web



Test Instant Messaging Apps



Test for Middle Boxes



Last 4 tests

 telegram

Dec 23, 2017 3:14 AM

AS47172

IS



 facebook_messenger

Dec 23, 2017 3:14 AM

AS47172

IS



 whatsapp

Dec 23, 2017 3:10 AM

AS47172

IS



 tcp_connect

Dec 23, 2017 3:05 AM

AS47172

IS



[View your measurements](#)



Let's fight internet censorship together!

Test Name

Internet Censorship

- ☒ Web Connectivity
Check if websites are blocked.
[Learn how this test works here](#)

Speed & Performance

- ☐ NDT Speed Test
☐ DASH Video Streaming

Middleboxes

- ☐ HTTP Invalid Request Line
☐ HTTP Header Field Manipulation.

<https://run.ooni.io>

What you can do

Generate a link and share it with your friends and contacts around the world. Encourage them to run OONI Probe to test the sites of your choice!

URLs

http://



+ Add URL

GENERATE

OPEN DATA

 **OONI** | Pipeline

Provides **evidence** of censorship events

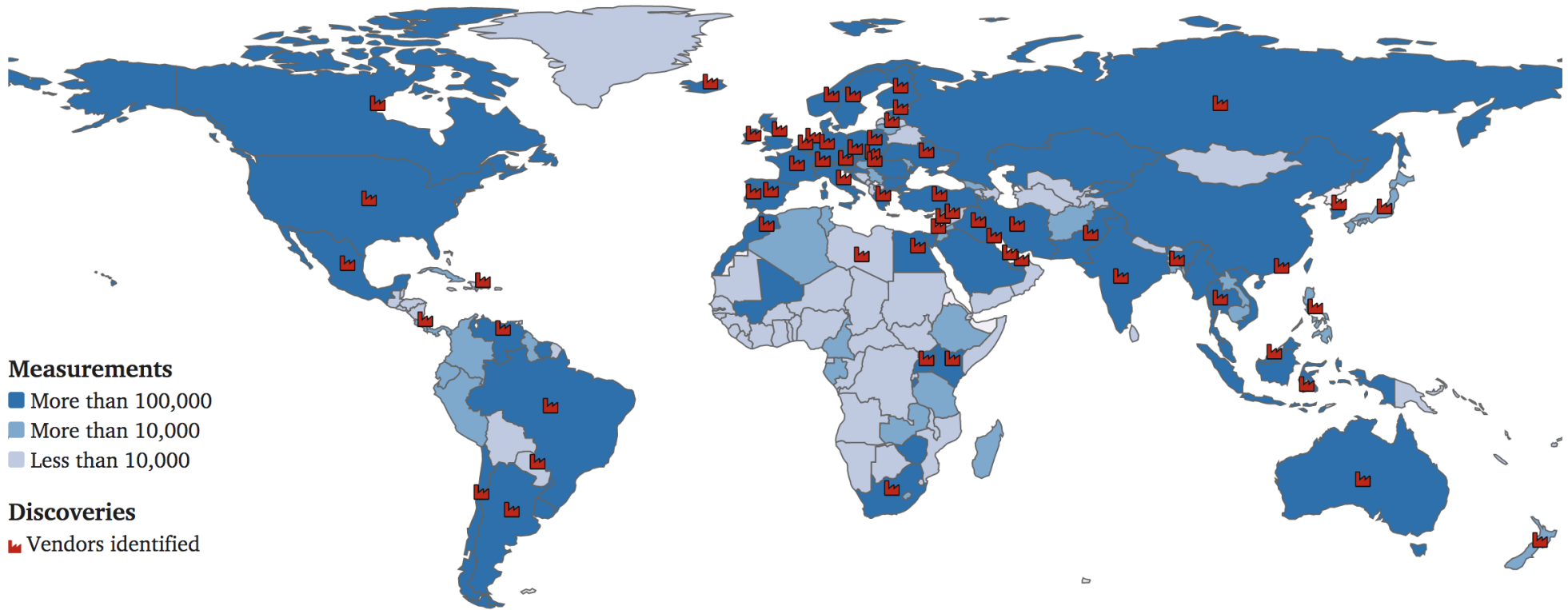
 **OONI** | API

Transparency of global internet controls

 **OONI** | Explorer

Allows researchers to conduct **independent studies** & to explore other research questions

Allows the public to **verify** our findings



Measurements

- More than 100,000
- More than 10,000
- Less than 10,000

Discoveries

- Vendors identified

Country List

Browse countries to find the one you want to investigate measurements for

Filter Country

<https://explorer.ooni.io>



Afghanistan

24,756

measurements



Albania

8,450

measurements



Algeria

36,756

measurements



Andorra

142



Angola

1,848



Antigua And Barbuda

47



[Files](#) [API docs](#) [Statistics](#)

Welcome to the OONI API

Dynamically updated every day, the OONI API enables researchers and data scientists to analyze all data collected from OONI Probes around the world.

Download and search [OONI Probe](#) network measurements.

Join the OONI data analyst community and help uncover internet censorship worldwide!

[READ THE API DOCS](#)

Latest Measurements

ASN	Country code	Test Start Time	Test Name	
AS9121	TR	2018-01-04 21:32:10	ndt	Download
AS15895	UA	2017-12-30 05:49:02	ndt	Download
AS15895	UA	2017-12-30 01:46:11	ndt	Download
AS5438	TN	2017-12-29 11:14:18	ndt	Download
AS197207	IR	2017-12-28 16:35:15	ndt	Download
AS4818	MY	2017-12-28 01:59:24	ndt	Download

**GET OUT THERE
AND USE OONI
DATA!**

