

GlobalLeaks & tor2web

tetalab * 26/05/2012



Who am I ?

- A Random GlobaLeaks Contributor
- We're a group (mostly italian based – we hope in an international expansion – and you're welcome ;)

goal: became a community

- Every member of GlobaLeaks is : **A Random GlobaLeaks ...**
(Contributor | Developer | Spokesperson | Advocate)
- To get my attention, “vecna” is the real name and “Claudio Agosti” the nickname inside the matrix.



Agenda

- What is Whistleblowing?
- How is the existing whistleblowing ecosystem made.
- What is GlobaLeaks?
- What's Tor and Tor2web (short intro)
- How does GlobaLeaks work?
- Who will use GlobaLeaks?



WhistleBlowing

- The act of speaking up in the public interest
- It's related to Transparency and Public Disclosure
- Whistleblowing is not just leaking.



1969, 1971, 2002



Responsible for releasing the Pentagon Papers detailing the US involvement in the Vietnam war in 1969

- Testified against police corruption in 1971 – He liked to call “individuals who seek truth and justice even in the face of great personal risk” lamp lighters



Worked at Enron, WorldCom and the FBI and exposed how the US government had underestimated the risk of the 9/11 attacks.

We need more Wbs!

- ...And we need them to *stay* whistleblowers
- Would Mark Felt have managed to remain Anonymous for 30 years in the monitored world of today?
 - Maybe not.



Why WB can help us?

- Against “White-collar crimes”
- Against the **fear of repercussion**
- Against every malpractice that continue because, **who knows, believe**: *“What I can do ? Nothing, nothing will change.”*



Active citizenship

- which of two common types of character, for the general good of humanity, it is most desirable should predominate — the active, or the passive type; that which struggles against evils, or that which endures them; that which bends to circumstances, or that which endeavours to make circumstances bend to itself.” John Stuart Mill, "Representative Government" (1869)

Existing WB platform

- WB is a **cultural concept**, not just technological
 - But available technology... really sucks!
- Anonymity is not technologically supported
- Closed source
 - Security not verified by third parties
 - Improvements are limited to vendors will





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HELP DRIVE A CULTURE OF ETHICS AND INTEGRITY

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- Environment, Health and Safety
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- Misuse or Misappropriation of Corporate Assets or Information
- Securities Fraud, Financial Reporting or Auditing
- Health and Medical Services

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To file a report, click the **Submit a Report** link below. You may also follow up on a report that you have previously submitted, by clicking the **Submit a Follow-up Report** link below.



[Submit a Report](#)

PERSONS INVOLVED

Please provide your name and contact information unless you choose to remain anonymous:

☐ I do not wish to provide my name.

OR

Title:

First Name:

Last Name:

Job Title:

Phone Number: (Area Code then Number)

E-mail Address:

Please provide all information you have on any people involved in this incident:

Role in Incident: [HELP](#)

1

First Name:

Last Name:

Home

You have a maximum of 20 minutes to fill in and submit this questionnaire.

If you have large amounts of text to send, it may be easiest to put it in a file, and attach that to your questionnaire.

Please complete all of the initial questions and provide clarification in the free text field at the end.

– Type of Fraud –

Does this report relate to the EU?

How do the irregularities, fraud or corruption you want to report relate to the European Union?

Select one or both of the checkboxes below.

☐ Irregularities detrimental to EU Budget

☐ Irregularities committed by persons working for the EU

What irregularities are you reporting?

Select irregularity ... ▾

If you select other, give details in text box below



Basic Details

OLAF is interested in fraud, corruption and other illegal activity affecting the financial interests of the European Community.

– When did this occur? Have you already reported it? –

Dates:

☐ Do you know when the irregularities occurred?

Reported:

Have you already reported these irregularities to other bodies or authorities?

☐ Yes

☐ No

☐ No answer

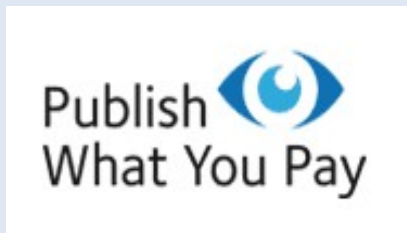


Dates

Please select the years in which these events happened.

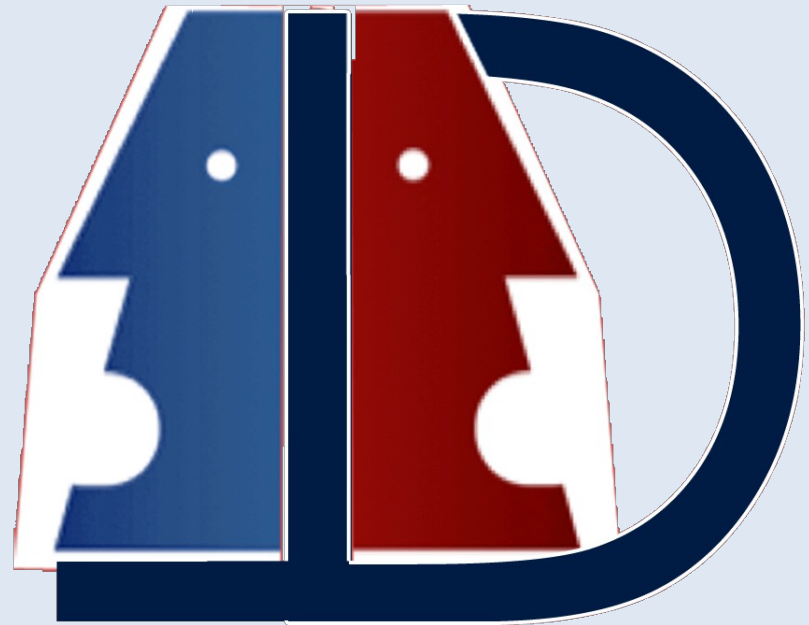
You can use the CTRL key to select more than one year.

Whistleblowing environment



Exist an index ?

- <https://leakdirectory.org>
- Most comprehensive resource on WB
- Community driven



The perfect WB flow

- I'm a person aware of something important, and I want to share with somebody competent without compromising my identity (**I'm a WB**)
- I find the pertinent WB initiative (**GlobaLeaks node**)
- I upload the data in a safe place provided by the initiative (**tip**), everyone subscribed in the node receive my tip (**receivers**), I've a safe way to come back in the submission page, otherwise accessible only to the receiver (a **receipt**)
- They can comments and verify my data, I can comment back and integrate with new data, if required.



GL keywords – simple list

- WB – him protection in the first place
- Node – They don't require technical knowledge, we want provide it
- Tip – safe (pseudo ?) anonymous area with limited time to live
- Receiver – trustworthy persons

Actor in GlobaLeaks: WB

- WB does not require technical knowledge. Can interact with the node, anonymously, simply with a browser
 - We're working on the new release, supporting mobile app



Actor in GlobaLeaks: Receiver

- She/He is the person responsible for analyzing the material
- Experts in the context (corruption in Toulouse, animal right watch, ...)
- Diversified actors help in analysis
- Share the same data with the others R.
 - Can leak the data – and would be bad

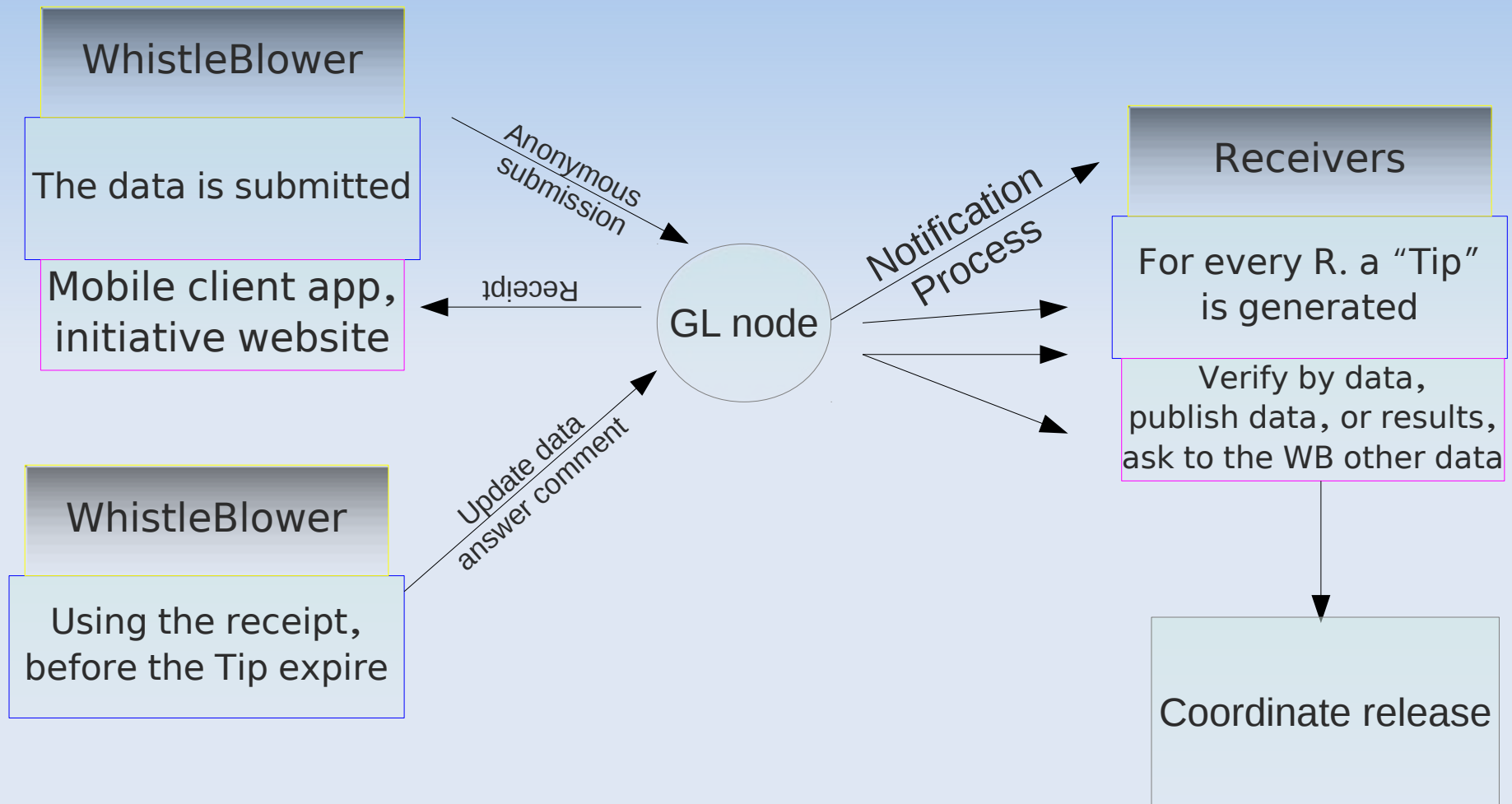


Actor in GlobaLeaks: Admin

- Node administrator, is the role of the person or the group that maintain the initiative
- Understand “context” to be handled
 - Describe the context, publicize the initiative. targets of communication are the WB.
 - Select the receivers, suggest a guideline and some kind of “gentleman agreement”.
 - Define security and technical settings of the node.
 - Settings likely to be indexed!



GlobaLeaks flow



“Tip” in GlobaLeaks

- Seem a simple web link
 - Unique for every receiver
 - Perform authentication itself, having this link, give access to the “not yet released document”
 - Expire on trigger (time based or amount of download)



GlobaLeaks project goals

- GlobaLeaks is Free Software
 - And we have no power or visibility in an external running instance.
 - We do not run WB-initiative! This allows us as programmers minimal responsibility.
 - Anybody can create a node independently from our moral judgment
- GlobaLeaks is flexible, aim to fit in every needs (field most interested: media, civic engagement corporate/PA transparency)



GlobaLeaks code status

- 0.1 release, completed and usable.
 - Very poor feature set! (try the virtual image!)
- 0.2 release, recently started
 - Client – Server separation (GLClient GLBackend)
 - APAF development (Google summer of code)
 - Tor2Web3.0



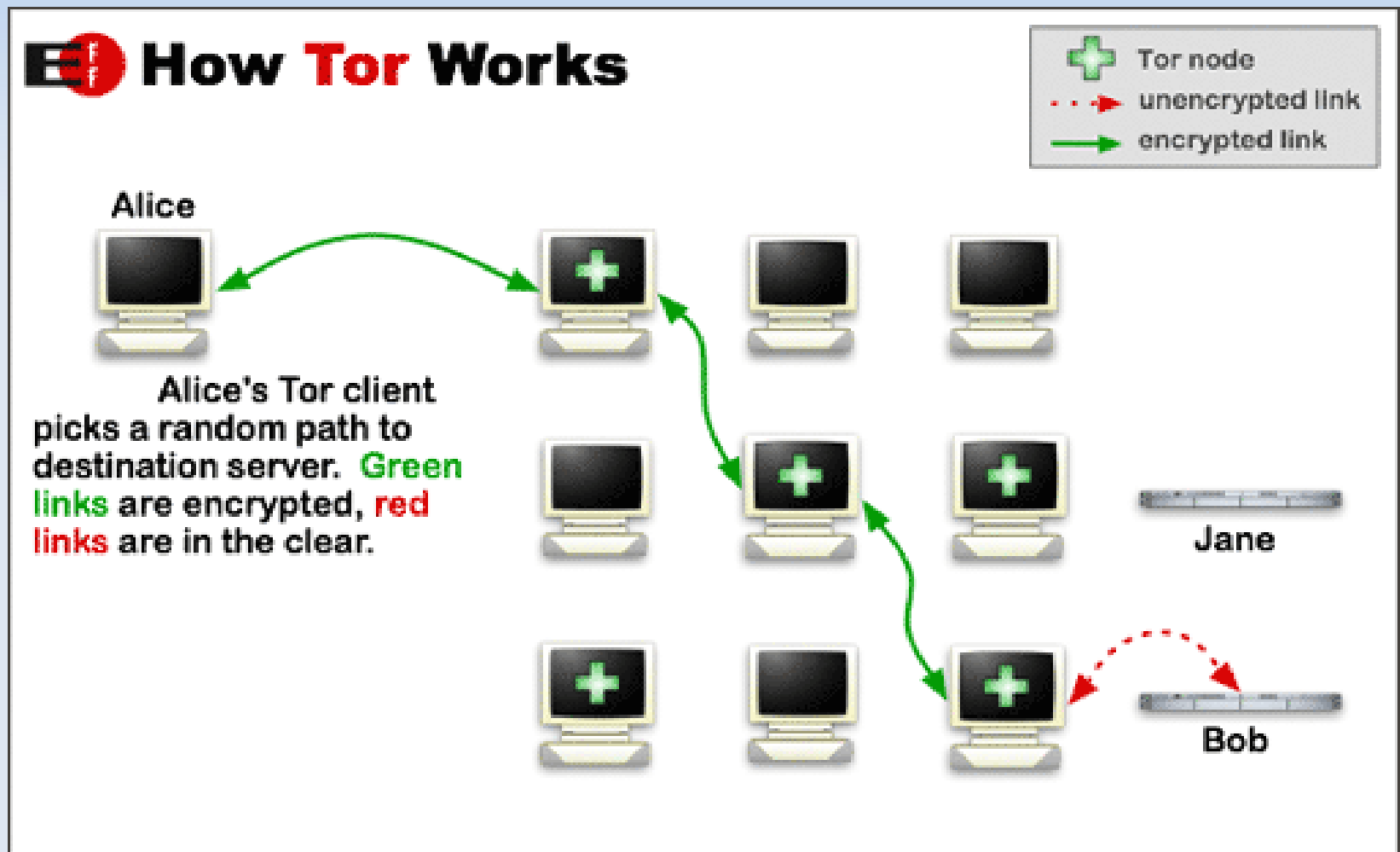
Tor, intro for people living on the moon ;)

- Free software sponsored by EFF, 10 yrs
- <https://www.torproject.org>
- Technological anonymity is the only way to permit freedom of expression of minorities and people under regime



Tor, intro for people living on the moon

- How does it work ?



Tor, intro for people living on the moon

- Every service require some kinds of registration
 - A domain ?
 - A public IP address ?
 - A login/password/email ?
- **Hidden service does not!**



Tor, intro for people living on the moon

- Reach an hidden service require to be part of the Tor network (until the 2011 ;)



The screenshot shows the Tor Project website. At the top is the Tor logo (a purple onion) and navigation links: Home, About Tor, and Documentation. The main content area has a green background with the text "Anonymity Online" and "Protect your privacy. Defend yourself against network surveillance and traffic analysis." Below this is a purple button that says "Download Tor" with a small download icon. To the right of the button is a list of bullet points: "Tor prevents anyone from learning your location or browsing habits.", "Tor is for web browsers, instant messaging clients, remote logins, and more.", and "Tor is free and open source for Windows, Mac, Linux/Unix, and Android". At the bottom, there are two sections: "What is Tor?" and "Why Anonymity Matters".

Tor

Home About Tor Documentation

Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.

Download Tor ⬇

- ➔ Tor prevents anyone from learning your location or browsing habits.
- ➔ Tor is for web browsers, instant messaging clients, remote logins, and more.
- ➔ Tor is free and open source for Windows, Mac, Linux/Unix, and Android

What is Tor?

Tor is free software and an open network that helps you defend against a form of network

Why Anonymity Matters

Tor protects you by bouncing your communications around a distributed network of



Congratulations. You are using Tor.

Please refer to the [Tor website](#) for further information about using Tor safely.

Additional information:
Your IP address appears to be: 192.251.226.205
This small script is powered by [tordnsel](#)
You may also be interested in the [Tor Bulk Exit List Exporter](#)

This server does not log any information about visitors.



Tor2Web — hidden service reachable

- Tor2Web **is a web proxy**, that permit to reach a Tor-only address like:

cneiofu2buitbvguiwe.onion

simply from your browser, using:

<https://cneiofu2buitbvguiwe.tor2web.net>



Tor2Web – SSL



- Tor2web use a wildcard SSL certificate, and this certificate need to be shared among the network
- This security issue can be solved by servers federation
 - In short: a group serving tor2web from tor2web.net cert, another serving from yadda.net cert, balancing the traffic load.

Tor2Web – Issues



- Users need to understand that the content served are not in properties of the server
 - Therefore need to accept a disclaimer
 - And hotlinking would not be permitted

Tor2Web – Issues



- Caching
- Comfort loader
- We need more nodes!
 - Do you have unused IP space ?
 - Do you want to help support t2w network ?
 - Currently there are only 2 t2w node!



Tor – T2W section concluded

- Tor2web permits hidden service to be receiver by default browser – this is extremely required by GL
- Tor starting, management and configuration can be done in a flexible library, and is covered by APAF

WB adopters: Media

- Journalist has very excited to receive not yet disclosed information,
- Two previously tests had show limits

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ALJAZEERA TRANSPARENCY UNIT

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Our recent projects

The AJTU has to date launched two major projects - The Palestine Papers and Jordan Casinogate. These materials were sourced from contributors like you! Our mission is to continue breaking down barriers to transparency around the world and bring the light to those being forced to hide in the dark.



Palestine Papers

- 275 sets of meeting minutes;
- 690 internal e-mails;
- 153 reports and studies;
- 134 sets of talking points and prep notes for meetings;
- 64 draft agreements;
- 54 maps, charts and graphs;
- and 51 "non-papers."



Jordan Casino Gate

- 2 Different Contracts between GOJ and Casino Developers
- 17 Pieces of Correspondence Among Key GOJ Officials
- 5 Letters Directly Involving Prime Minister Bakhit and his views on the negotiations
- 3 Letters Between former PM Abu Ali Al-Ragheb & former PM Nader Dahabi
- 5 Letters Involving former Minister of Tourism Osama Dabbas

About Us

The Al Jazeera Transparency Unit (AJTU) was formed to mobilize its audience - both in the Arab world and further afield - to submit all forms of content (documents, emails, photos, audio & video clips, as well as "story tips") for editorial review.

[Read more »](#)

Have Information?

Learn more about the types of materials that AJTU accepts as well as precautions you can take to ensure your communications, whether with us or anyone else, remain secure.

[Read more >>](#)



Al Jazeera Frequencies

Transparency hacktivism

- NGO and informal activism organisations
- **They** will promote the GL node
- They will only promote the GL node and others will analyze the data
- Advocacy on the importance of Transparency and accountability
 - Or Corruption spotting



Corporate transparency

- Important tool to be integrated within the corporate organizational model
- Typically managed by internal audit
- Accountability mandated by the law
 - Sarbanes–Oxley Act (USA)
 - Dlgs 231 (Italy)

Public Agencies

- Internal and **external** public WB services
- **USA IRS, US SEC, EU Antitrust**
- Involve citizens into spotting tax evasion, market manipulation, corruption, malpractice in health and environment

Technical goals

- 0.2 release has the goal to be **Modularized**
 - We need flexibility to cover all the various ideas that come out
 - notification method using social network service
 - Or distributed storage Tahoe-LAFS
 - Enable end to end encryption
 - Permit phone app generation for node maintainer
 - Be able to run on an portable device ;)
- <https://github.com/globaleaks/GlobaLeaks/issues>



Technical elements

- 0.2 GLBackend using ORM SQLAlchemy and Twisted network handler (python)
- APAF use twisted, import GPG and Tor and export an hi level abstraction able to provide platform independent anonymity and cryptography operations (python)
- GLClient use the RESTful interface developed in Backend (javascript, others)

Developer welcome: [#globaleaks](https://irc.oftc.net)



FAQ

- If the CIA/FBI/Spectre/AlQuaeda/Scientology start to run a *rogue* node ?
- What if a receiver publish something not yet verified ?
- Anonymous submission can be abused in information pollution ?
- How a WB can find the right node ?

Thanks!



tor2web wiki: http://wiki.tor2web.org/index.php/Main_Page

tor2web 3.0: <https://github.com/globaleaks/tor2web-3.0>

GlobaLeaks <https://github.com/globaleaks/GlobaLeaks>

Very-old-launch-website: <http://www.globaleaks.org>

Project status update: <http://wiki.globaleaks.org>

Discussion mailing list: people@globaleaks.org

**REMEMBER: ONLY ONE “L” IN THE MIDDLE OF
GLOBALEAKS ;)**

