



FFDN

Half a Decade of Federating DIY ISPs

-- Adrien

Legend ■ ■ ■ ger E.I.I.

Federation of Internet Service Providers

- Do-It-Yourself
- Non-commercial
- Volunteer-driven
- Human-sized
- Net-neutrality proponents



In Belgium and across France
[<http://db.ffdn.org>]

Legend ■ ■

© OpenStreetMap contributors

2011: 7 orgs, around 450 members

2016: 30 orgs, around 2100 members,
of which 50 to 60 are very active

FDN itself was started 25 years ago

Our goals

Our goals

Offer alternatives to large ISPs

Connect dark zones

Our goals

De-centralize ISPs

Enable, promote self-hosting

Our goals

Protect our citizen rights

Too many dangerous laws

Too poor application of laws

Working Groups

Working groups

Each ISP can have its own WGs and tasks

This is only about the federation's

WG - Telecom Regulation

BEREC (EU)

IPBT (BE)

ARCEP (FR)

Provide them with feedback

And (sometimes) complain

WG - Teaching

Share knowledge

From sys admin to finance

WG - Legal

Really understand the laws

Protect people, not business

☹ Data retention,
interceptions,
administrative blocking

WG - Éxégètes

Part from FFDN, part from LQDN
tech geeks ↵ law geeks ↵

« Is this law legal? »

Akin to debugging the law

The **real** how

Working together

Sharing and caring

Our relation to free software

The usual reasons to use it

- No vendor lock-in

- No stupid licensing schemes

- No vendor-specific hardware

Lets us run on commodity hardware



Lets us run on commodity hardware



Software we use

Remember we're a federation

Each ISP chooses its tools

Subscriber connectivity

xDSL: l2tpns, mpd5

VPN: OpenVPN, tinc, strongswan, openl2tp

Auth: freeradius

DNS: BIND, Knot, unbound, NSD, dnsmasq

Routing: Quagga, Bird

Monitoring: check_mk, nagios,
munin, collectd, observium

Code: gitlab, gogs

Bugs, support: redmine

Accounting: hledger, dolibarr

Hosting and routing: Debian, FreeBSD

Platform hosting: Ganeti, Openstack,
Ceph, DRBD, Xen, KVM

Radio: OpenWRT
(well, and ubiquity)

Services

File sharing: Nextcloud, Owncloud

E-mail: Postfix, dovecot, rspamd

Mailing-lists: Sympa, Mailman

Collaboration: Etherpad-lite, ikiwiki

Web: you name it (**except** ASP.NET)

The list keeps getting longer

Missing a service?

Use your ISP's infra and set it up.

Tools created or adopted

cavote: simple online voting system

coin: manage members, subscriptions

ffdn-db: map of DIY ISPs

Tools created or adopted

celutz: online panorama visualization

wifi-with-me: collab. map for radio setup

l2tpns: an absolute need for xDSL
adopted



Explore

24 Repositories

Users

Organizations

Search...

Search

FFDN / coin

★ 3 📄 4

Système d'information du FAI Illyse

Updated 16 hours ago

code.ffdn.org

Puppet master repository of LDN

Updated 3 days ago

★ 0 📄 0

gitoyen / peering

Gitover peering management

Updated 4 days ago

★ 0 📄 0

More infos on ffdn.org

sileht / wifi-with-me 24

★ 0 📄 0

Formulaire & carte pour recenser les aspirant-e-s connecté-e-s à un réseau radio.

Updated 1 week ago

adrien / sane-lex

★ 0 📄 0

Brings some sanity to law websites.

Did we really have to make our ISPs?

Your ISP is the best spot to...

Insert ads

Censor

Help surveillance

Hijack your traffic

Do you trust your ISP that much?

We (rightly) don't so we're making ours.

Notice similarities with Free Software?

The Internet has enabled Free Software's growth

... and the other way around is true too.

Free Software also gives us the confidence we need.

Questions?

