FORCES AS USED BY FRENCH ARMED

Green communications

Green PI
Products Catalogue

By Green Communications

Green PI Products Catalogue

GREENSOFT

Green Communications' software (the GreenSoft) is the key enabler of Green PI. The GreenSoft is set of programs from low-level to end-user web apps that allows hardware to:

i) connect with nearby Green PI devices to create a dynamic and self-configuring wireless network with quality of service (QoS);

ii) access and share a common edge cloud with edge-based services.

EDGE SERVICES

Green PI hosts programs, applications, and services at the data source and in a distributed way to ensure speed, resilience and quick server response time. Some edge services:

- Visualization
- Geo-location
- Instant messaging
- Push-to-Talk (PTT)
- File sharing

PLATFORMS

Green Communications provides ready-to-use platforms for the easy setup of an Internet of Edges. IoE platforms are tiny and low power routers (YOI) featuring 5 to 7W energy consumption. Each platform comes with a GreenSoft license and a set of edge services.
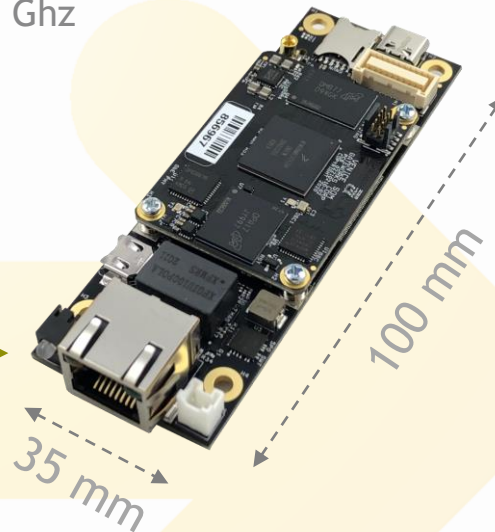
Wi-Fi	Wi-Fi	Wi-Fi + 4G LTE		
< 6W 50 g	≤ 6W 280 g	≤ 7W 320 g	Wi-Fi 6e, Wi-Fi 6, Wi-Fi 4	GPS, Bluetooth, Battery, Accessories, Enclosures
nYOI	*YOI*	*YOI with 4G/LTE*	*Wi-Fi Generation Available*	*Optional Features*

nYOI

WiFi 6e

Access & Backhaul
MIMO - Tri-band
2,4 Ghz, 5 Ghz, and 6 Ghz

Weight: 50g
Energy consumption: < 6W
Additional battery ($\simeq$ 22h lifetime): 10Ah - 600g

Ethernet
Access or Backhaul

100 mm

35 mm

YOI-6e

Access & Backhaul

Wi Fi 6e

MIMO - Tri-band
2,4 Ghz, 5 Ghz, and 6 Ghz

Weight: 280g
Energy consumption: $\simeq$ 6W
Additional battery ($\simeq$ 20h lifetime): 10Ah - 600g
Option: GPS
Option: Bluetooth

Access or Backhaul
Ethernet

YOI-6

Access & Backhaul

Wi Fi 6

MIMO dbdc

Weight: 280g
Energy consumption: $\simeq$ 6W
Additional battery ($\simeq$ 20h lifetime): 10Ah - 600g
Option: GPS
Option: Bluetooth

Access or Backhaul
Ethernet

YOI-6-4G/LTE

Green communications

GPS

Gateway

4G~LTE~

MIMO 2x2

Access and Backhaul

Wi Fi 6

MIMO dbdc

Weight: 320g
Energy consumption: ≃ 7W
Additional battery (≈16h lifetime): 10Ah - 600g
4G modem
Option: GPS
Option: Bluetooth

Access or
Backhaul)
Ethernet

Other YOI (Wi-Fi 4)

Access Point

Wi Fi
MIMO 2x2

Backhaul

Wi Fi
MIMO 2x2

Access or Gateway
by Ethernet

Gateway

GPS **4G**LTE

MIMO 2x2

Backhaul

Wi Fi
MIMO 2x2

Access or Backhaul
Ethernet

YOI router
- Weight: 324g
- Energy consumption: ≃ 5W
- Additional battery (≃ 22h lifetime): 10Ah – 600g
- Option: GPS
- Option: Bluetooth

YOI-4G/LTE
- Weight: 324g
- Energy consumption: ≃ 5W
- Additional battery (≃ 22h lifetime): 10Ah – 600g
- 4G modem
- Option: GPS
- Option: Bluetooth

Edge Cloud & Services

THE GREEN CLOUD

Green PI combines the computing capacity of each router of the network to create an edge cloud distributed near end-users and devices, the Green Cloud.
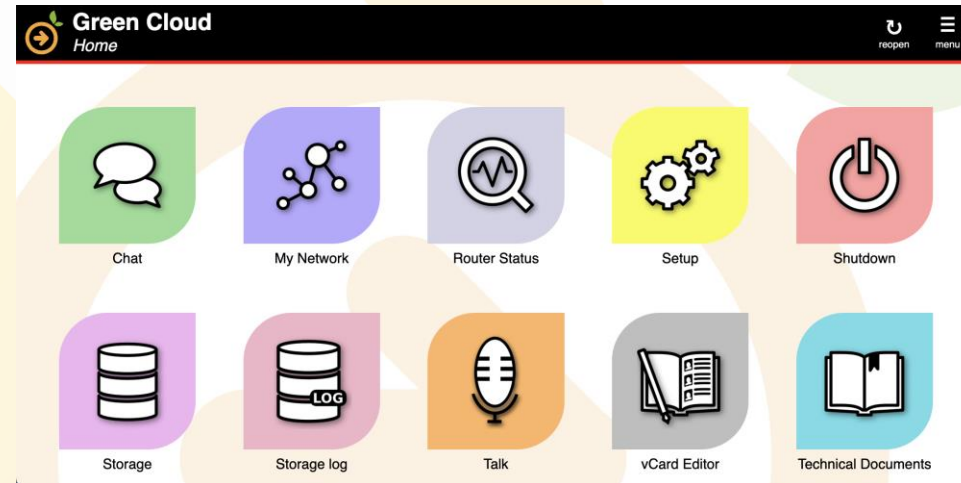
THE EDGE SERVICES

The Green Cloud hots applications and services close to the user and of the data source such as: a push to talk and a chat application, a geo-location service and a file sharing system, among others.

Edge services are always available, even when there is no gateway in the network. They provide better quality and privacy as local data stays local and is processed at source.

OPEN: The Green Cloud is open and can easily integrate third-parties' applications and services.
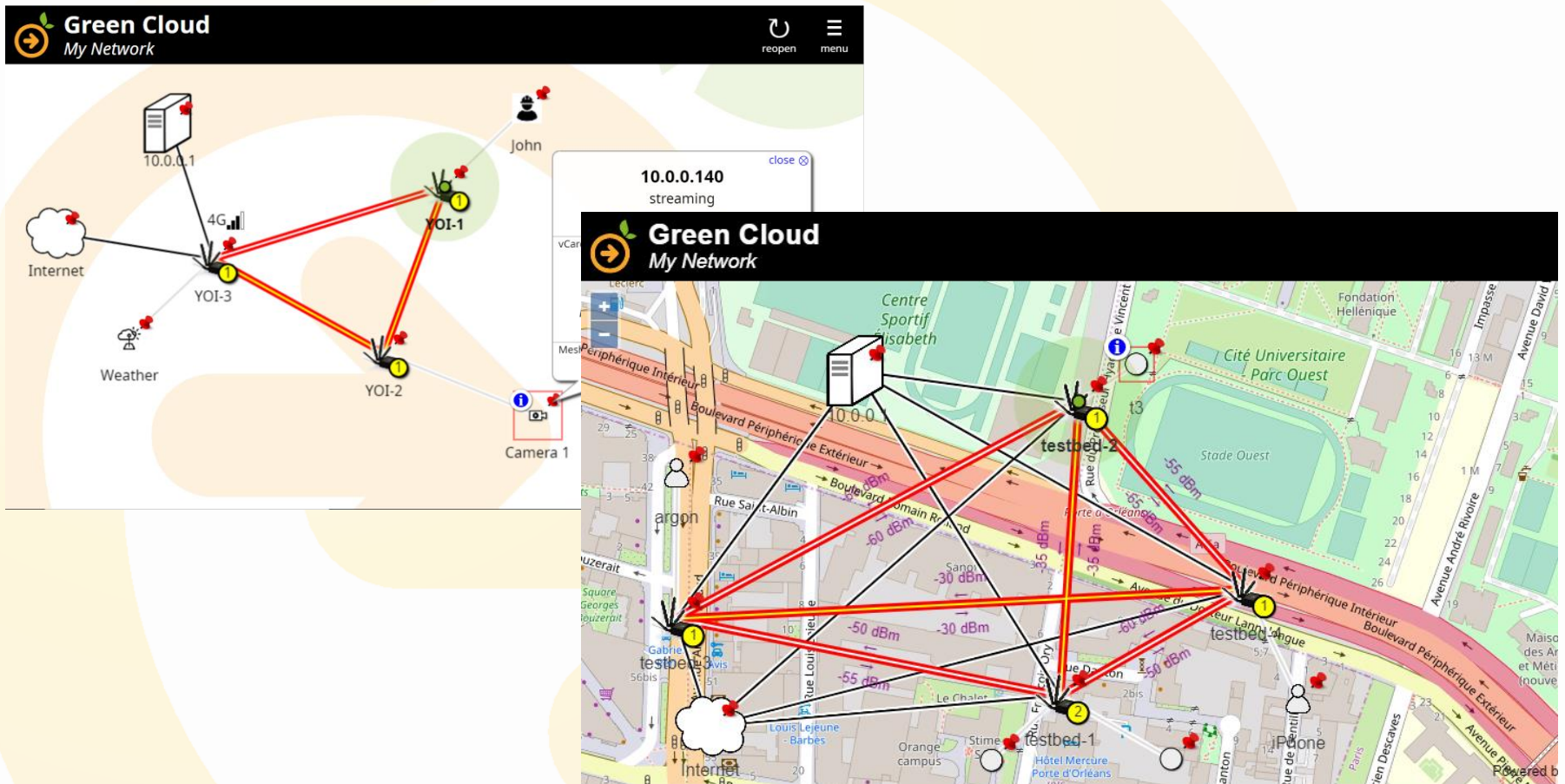
Green Cloud's Web Portal

Visualization - Location

MY NETWORK

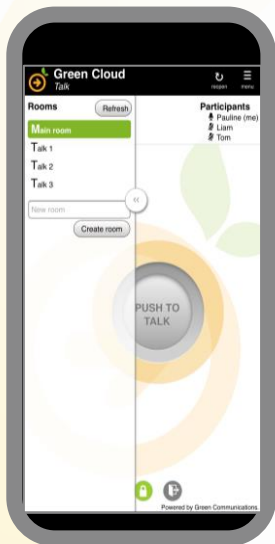Embedded and distributed service for network and clients visualization and location.
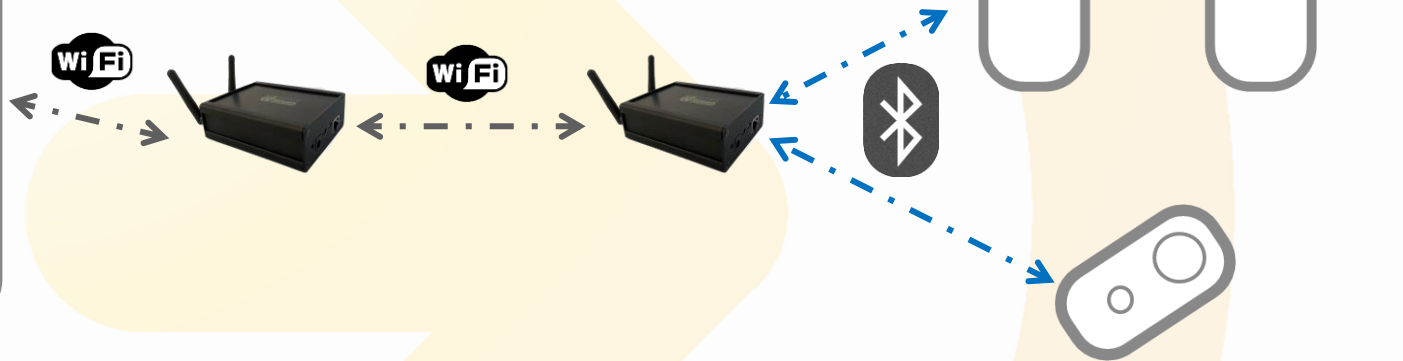
Voice over IP

TALK

Embedded and distributed Push to Talk (PTT) application.
One can use the application via its web interface or directly with a Bluetooth headset and a PTT button.
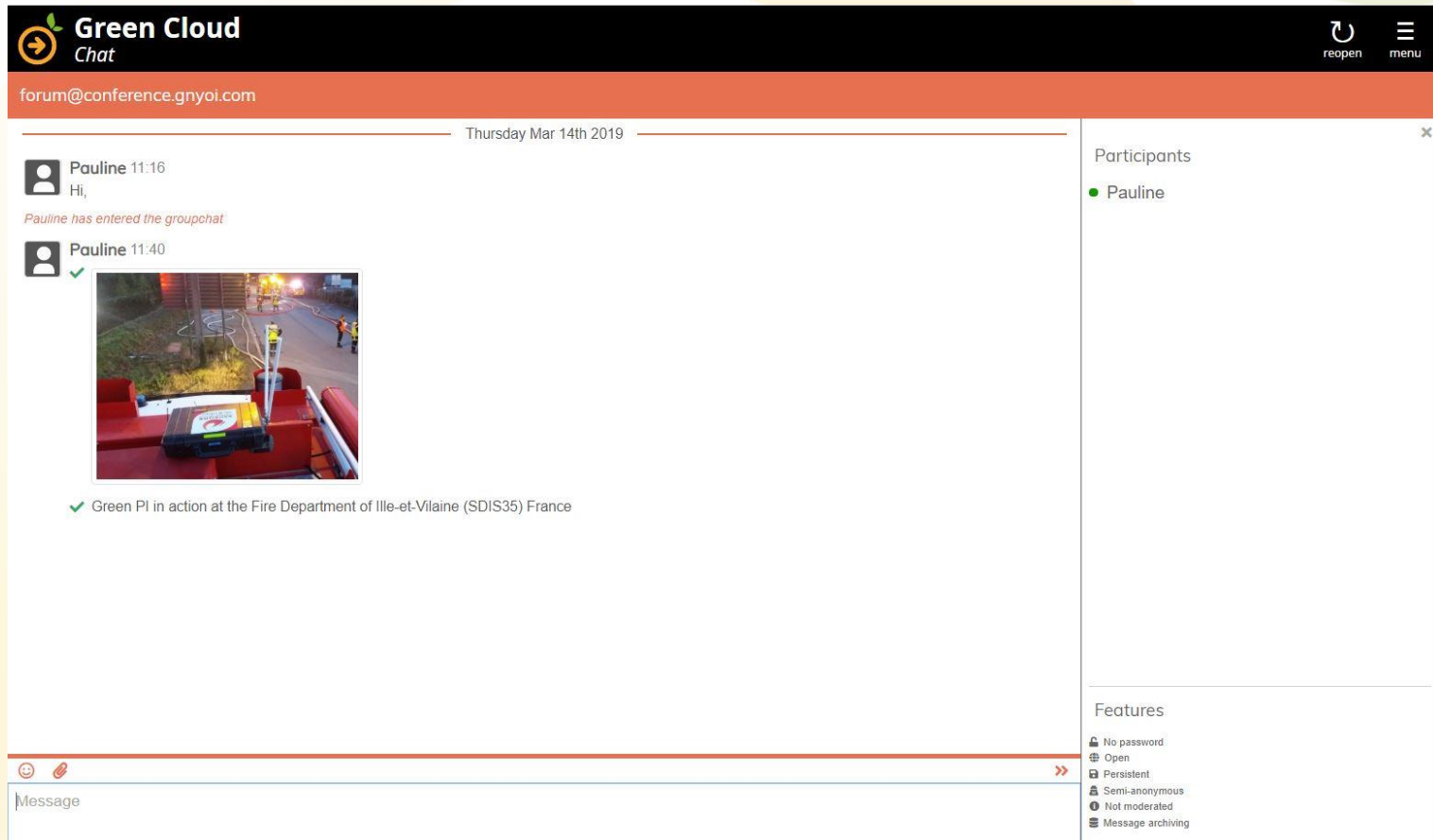

Talk's Web
Interface

Talk direct with Bluetooth
headset and PTT button

Instant Messaging

CHAT
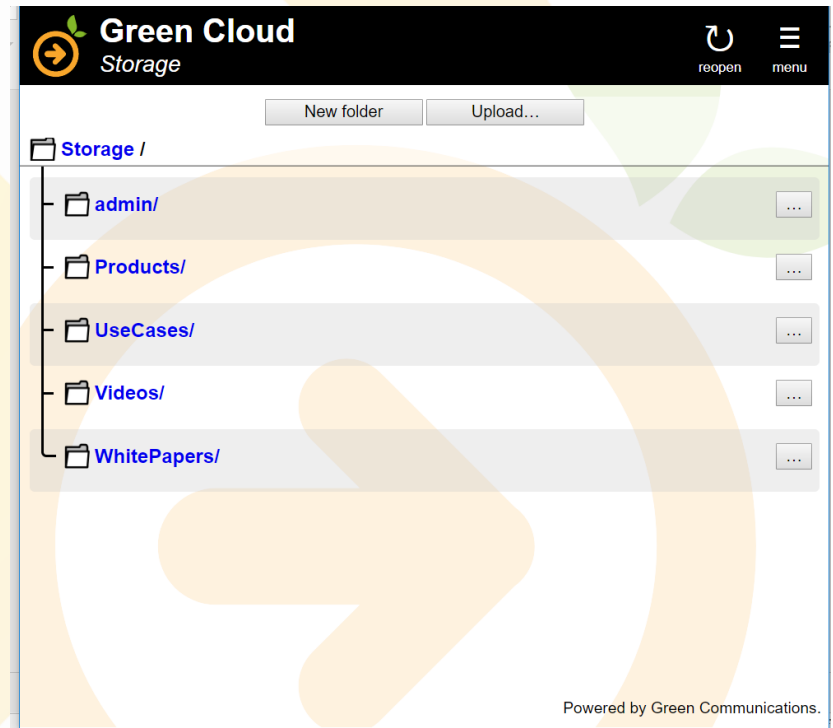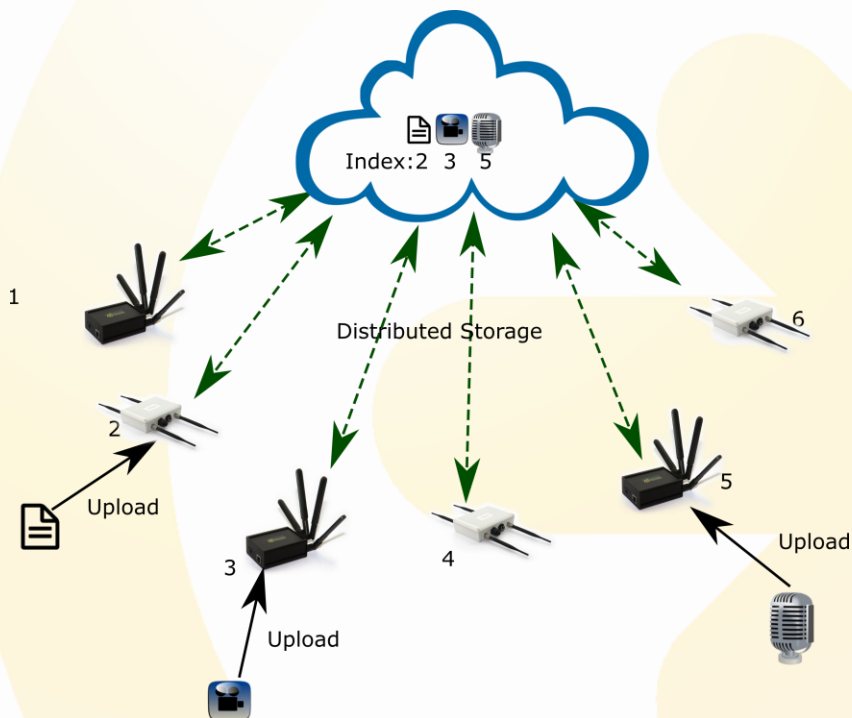Embedded and distributed instant messaging service.
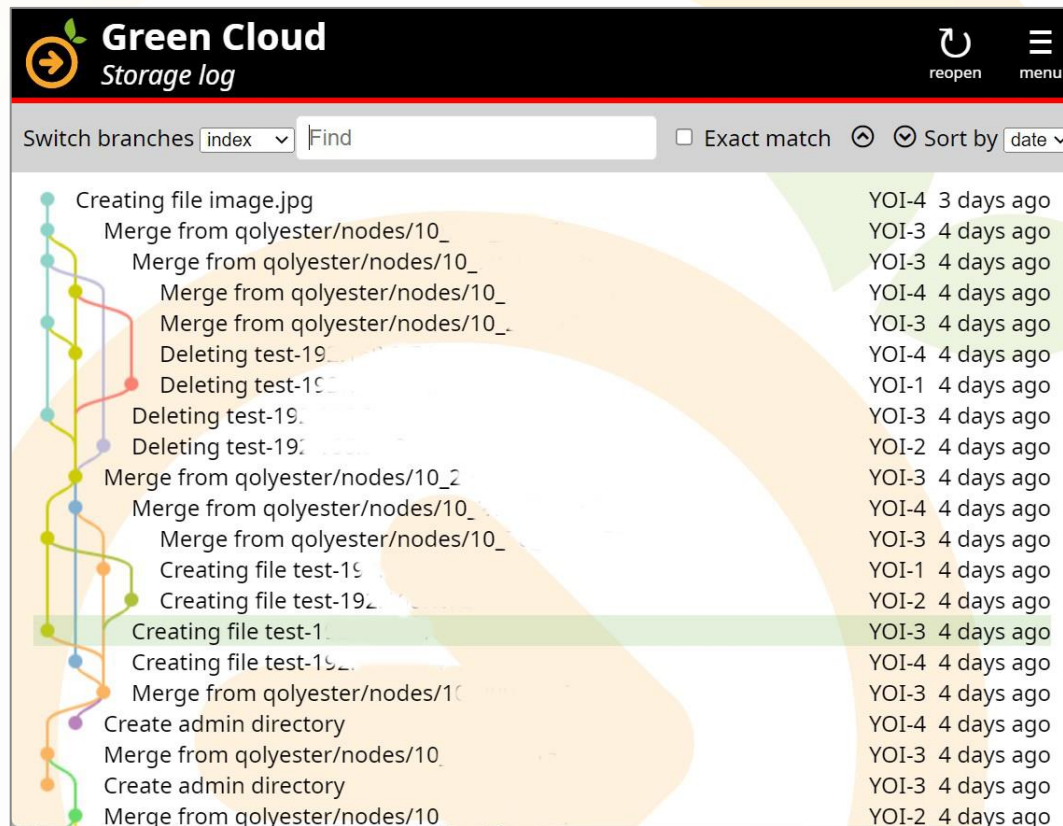
File Sharing

STORAGE

Embedded and distributed file sharing system.

Storage synchronizes files and stores lists of transactions using blockchain technics. One can browse Storage's transaction database using the Storage Log application.

Blockchain

STORAGE LOG

Blockchain visual-frontend service to browse Storage's transaction database.

They Trust Us

Contact

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ABOUT US: Green Communications is an innovative company created in 2010 with a unique expertise in wireless networks and distributed systems. The company is strongly engaged in answering the challenge of Internet mobility, saturation and energy footprint. Therefore, we created Green PI, a low carbon impact Internet and edge cloud platform providing fast and resilient services for IoT, mobility and critical applications. Green PI is the result of 20 years of research and development and a technology transfer from top French universities (Sorbonne University and Paris Saclay) and the CNRS.