



# Internet of Edges (IoE)

Empowering a more efficient, sustainable and resilient Internet through distributed digital infrastructure

*By Green Communications*

## GREENSOFT

Software suite to create an Internet of Edges on customer hardware.

GreenSoft enables your hardware to connect directly and wirelessly with nearby edge devices, share resources, and access edge-based digital services without relying on existing infrastructure or a central server.

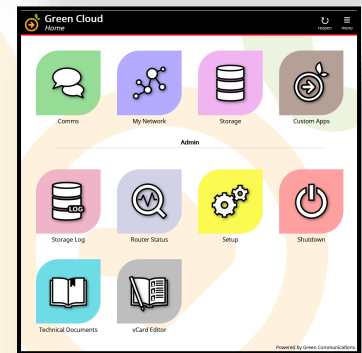
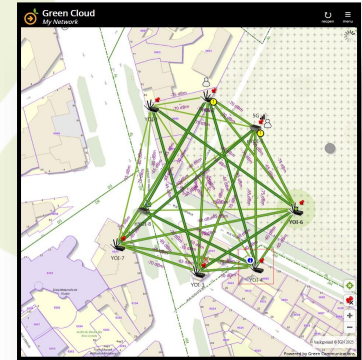
Edge-based services included: voice and text communication, file sharing, network visualization, user geo-location, blockchain, multicast, and more.

## EDGE DEVICES

Ready-to-Use Edge Devices Equipped with GreenSoft Technology.



GreenSoft is being used by French Armed Forces



 <p>WiFi 6e</p> <p>≈ 4.5 W 315 g Quad Core</p> <p><b>nYOI</b></p>	 <p>WiFi 6e</p> <p>5G</p> <p>≈ 8 W 480 g Quad Core</p> <p><b>nYOI with 5G modem</b></p>
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Interfaces

- WiFi 6e
- 5G
- WiFi 6
- 4G
- WiFi 4
- Ethernet

Optional Features

- GPS
- Bluetooth
- Battery
- Accessories

# nYOI-6e

## New Generation YOI Device



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



Ethernet  
Access or Backhaul

Weight	315 g
Power consumption	≈ 4,5 W
Interfaces	Wi-Fi 6e (2.4, 5, and 6 GHz)
GPS	Included

CPU	Quad Core
RAM	4 GB
Storage	64 GB
Options	Battery: 37 Wh or 74 Wh Bluetooth

# nYOI-6e-5G

New Generation YOI Device with Integrated 5G Modem

**5G**

Gateway  
MIMO 2x2



GPS

**WiFi 6e**

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

2 Ethernet ports  
Access or Backhaul

Weight	480 g
Power consumption	≈ 8 W
Interfaces	Wi-Fi 6e (2.4, 5, and 6 GHz) 5G modem
GPS	Included

CPU	Quad Core
RAM	4 GB
Storage	64 GB
Options	Battery: 120 Wh Bluetooth

# YOI-6



Access & Backhaul  
MIMO dbdc  
2,4 Ghz and 5 Ghz



Ethernet  
Access or Backhaul

Weight	280 g
Power consumption	≈ 6 W
Interfaces	Wi-Fi 6 (2.4 and 5 GHz)
Options	GPS Battery: 120 Wh Bluetooth

CPU	Dual Core
RAM	512 MB
Storage	32 GB



# YOI-6-4G/LTE



Weight	320 g
Power consumption	≈ 7 W
Interfaces	Wi-Fi 6 (2.4 and 5 GHz) 4G modem
GPS	Included

CPU	Dual Core
RAM	512 MB
Storage	32 GB
Options	Battery: 120 Wh Bluetooth

# Other YOI (Wi-Fi 4)



Weight	324 g
Power consumption	≈ 5 W
Interfaces	Wi-Fi 4 (2.4 and 5 GHz) + 4G modem for YOI-4G
Options	Battery: 120 Wh Bluetooth GPS (Included in the YOI-4G)

CPU	Dual Core
RAM	512 MB
Storage	32 GB

## THE GREEN CLOUD

IoE combines the computing capacity of each device of the network to create an edge cloud distributed near end-users, the Green Cloud.

## THE EDGE SERVICES

The Green Cloud hosts 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

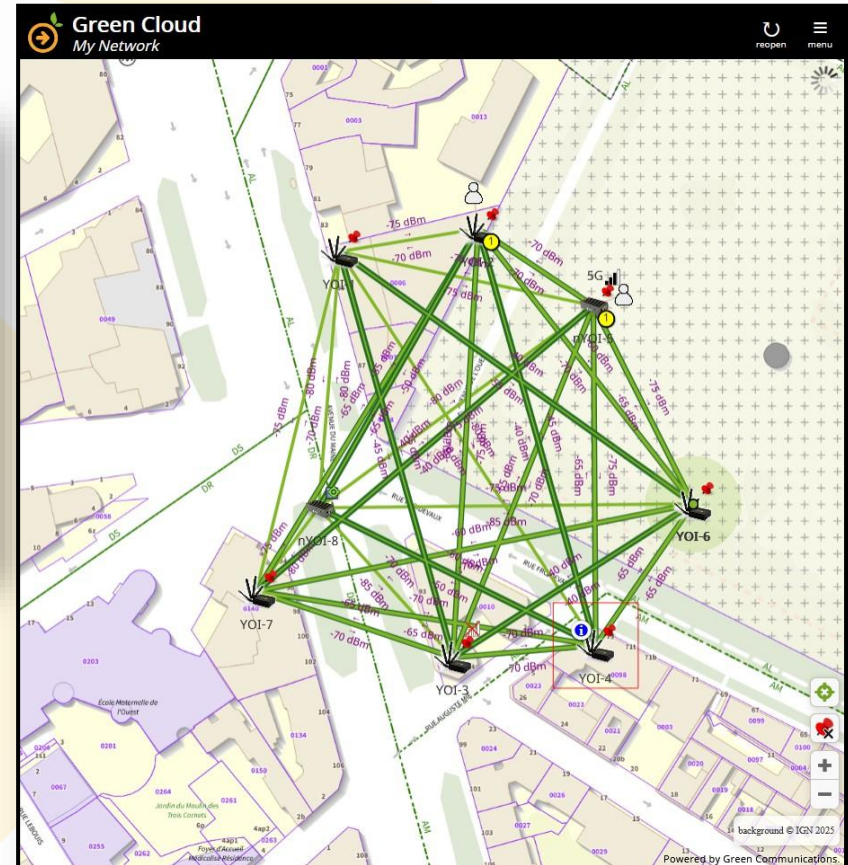
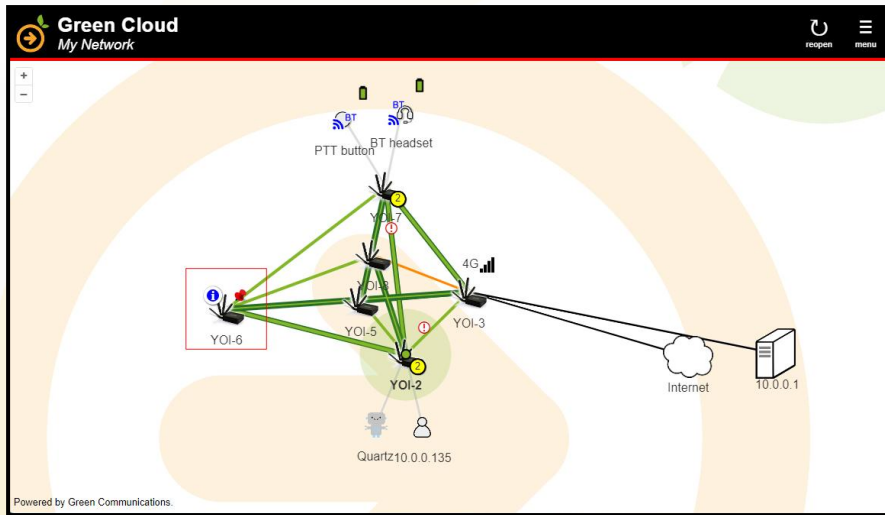




# Visualization - Location

## MY NETWORK

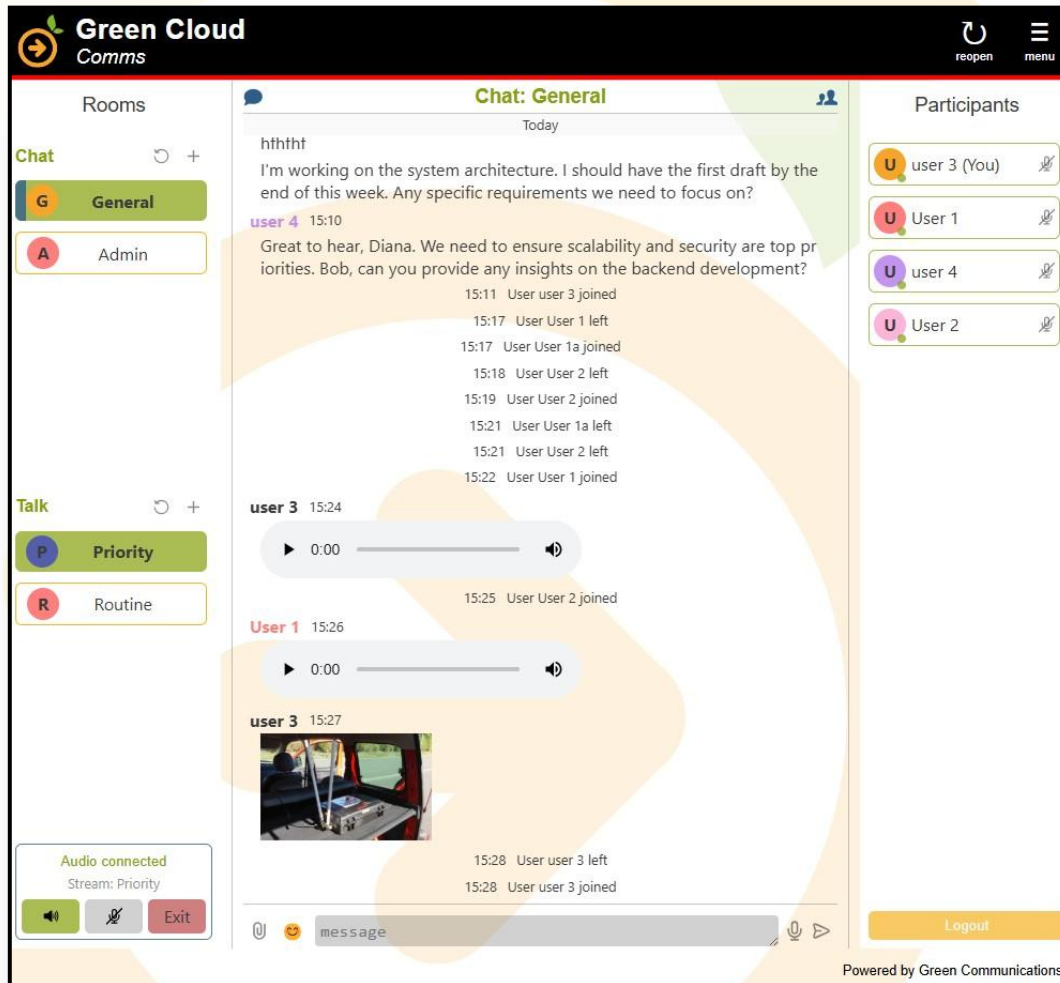
Embedded and distributed service for network and clients visualization and location.



# Voice & Text Communications

## COMMS

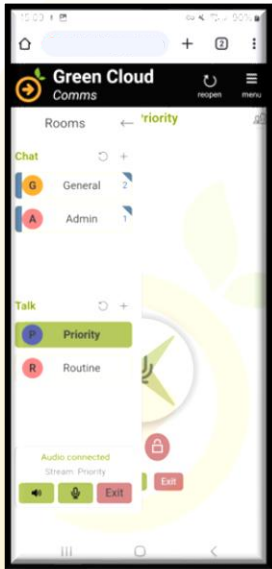
Embedded and distributed instant messaging and voice conversation service.



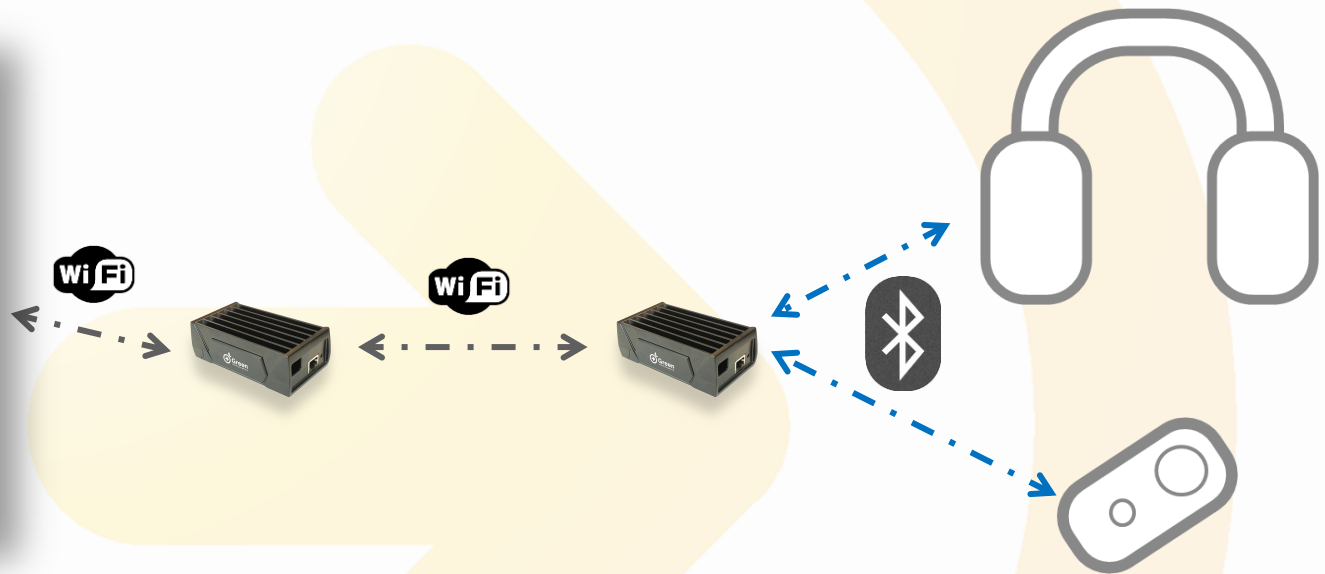
# Voice & Text Communications

## COMMS PTT

The Comms application can be used as a Push-to-Talk (PTT) service, allowing users to speak directly through a Bluetooth headset and a PTT button, freeing them from having to carry a smartphone.



Comms' Smartphone user

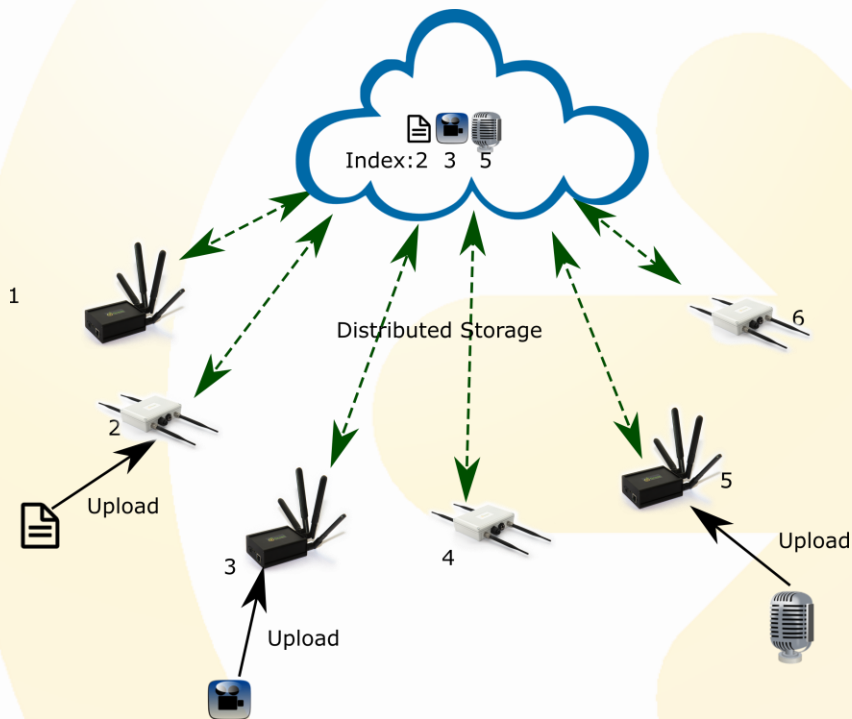


# File Sharing

## STORAGE

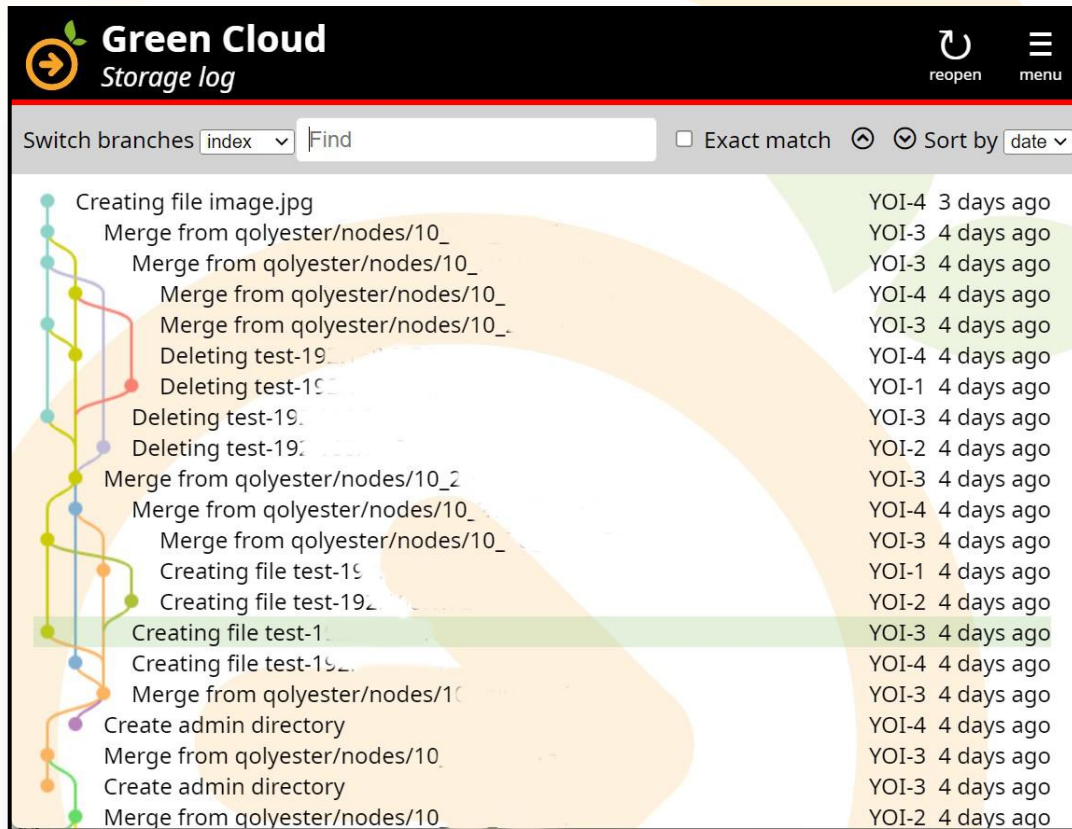
Embedded and distributed file sharing system.

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



## STORAGE LOG

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



**Green Cloud**  
Storage log

Switch branches  Find  Exact match  Sort by

Creating file image.jpg	YOI-4 3 days ago
Merge from qolyester/nodes/10_	YOI-3 4 days ago
Merge from qolyester/nodes/10_	YOI-3 4 days ago
Merge from qolyester/nodes/10_	YOI-4 4 days ago
Merge from qolyester/nodes/10_	YOI-3 4 days ago
Deleting test-19	YOI-4 4 days ago
Deleting test-19	YOI-1 4 days ago
Deleting test-19	YOI-3 4 days ago
Deleting test-19	YOI-2 4 days ago
Merge from qolyester/nodes/10_2	YOI-3 4 days ago
Merge from qolyester/nodes/10_	YOI-4 4 days ago
Merge from qolyester/nodes/10_	YOI-3 4 days ago
Creating file test-19	YOI-1 4 days ago
Creating file test-19	YOI-2 4 days ago
Creating file test-1	YOI-3 4 days ago
Creating file test-19	YOI-4 4 days ago
Merge from qolyester/nodes/10	YOI-3 4 days ago
Create admin directory	YOI-4 4 days ago
Merge from qolyester/nodes/10	YOI-3 4 days ago
Create admin directory	YOI-3 4 days ago
Merge from qolyester/nodes/10	YOI-2 4 days ago

# They Trust Us



## GREEN COMMUNICATIONS

Paris, France

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<http://www.green-communications.fr>

**ABOUT US:** Green Communications is an innovative company established in 2010, specializing in wireless networks and distributed systems. Committed to addressing the multifaceted challenges of the Internet—such as increasing traffic, mobility, and carbon footprint—we have developed the Internet of Edges (IoE). IoE is a disruptive digital infrastructure that relocates digital services at the data source and creates shorter distribution channels between data producers and consumers to enhance the performance, resiliency, and sovereignty of communications. IoE is the result of 20 years of research and development, including technology transfer from leading French institutions such as Sorbonne University, Paris-Saclay University, and CNRS.