

Clever solar devices About Cybersecurity



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Our Compromise

In Clever Solar Devices we create and handle **Deep Data to enhance PV plants efficiency** with the objective to **improve renewable energy management thru Artificial Intelligence** working to provide the most valuable products and services.

For that, the **security and privacy of our customers' data is out top priority.**

How we ensure this?

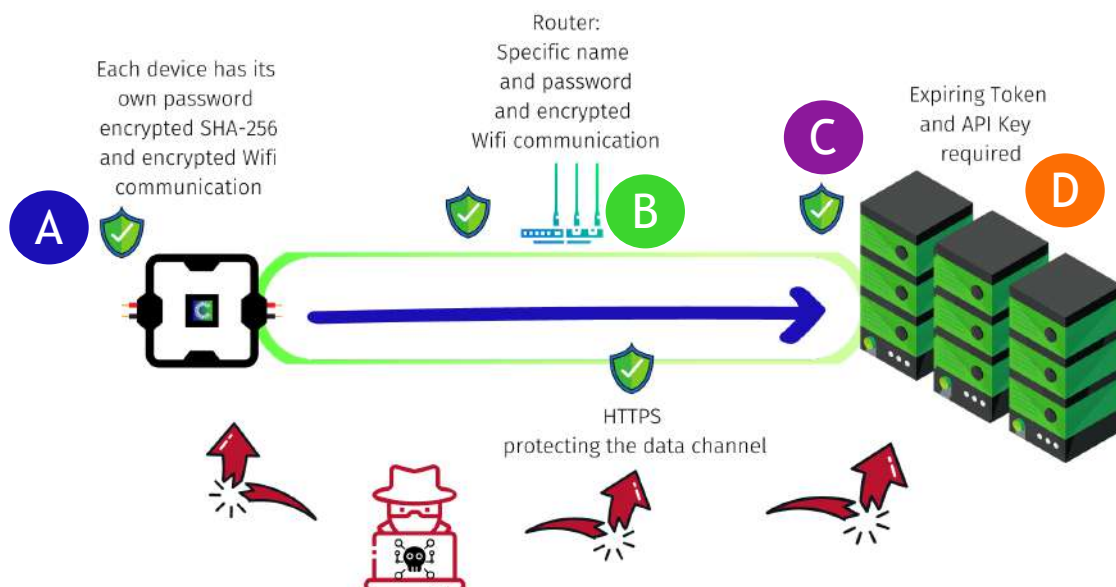
We focus at **three levels, Software, Hardware and Communication's channel.**



How does it Works?

We protect the data thru the whole process to avoid attacks thru different flanks.

- A** **At CleverDx device level:** each device has its own password encrypted SHA-256 and encrypted WIFI communications.
- B** **When transferring the data:** the Data is sent by the POST method and it's protected by an HTTPS protocol that secure the channel and API_KEY.
- C** **At router level:** The router has a specific name and password for each installation and encrypted WIFI communications.
- D** **When data arrive at our servers,** it must meet 3 requirements:
 1. That the API_KEY and the expiring Token is correct
 2. That the information comes from a manufactured device
 3. That the device is install with the Clever's mobile application



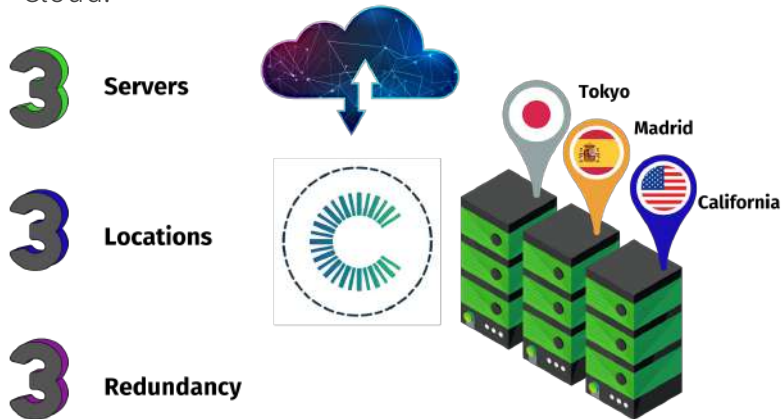
Servers Protection

The machines located in a European supplier that has several data centres (5 regions, 8 locations) The datacentre has DDoS Protection for possible attack.

The data then is stored in a database with:

- Three Servers (Master and two Slaves) generating redundancy and high availability.
- Backups carried out periodically during the day, in addition to the servers, a backup in another fourth machine
- The three servers (Master and Slaves) also have Snapshot service
- The access to the databases is restricted exclusively to Clever's team.

We are currently working to provide service with AWS, Azure or Google Cloud.



Our servers are not only protected by encryption, API Key and Token protocols but also thru redundancy in case of issue to any of them.

More about Us

Find more details in our website:



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