



A framework for user centred privacy and security in the cloud

# Cyber threats are real

If recent history has proved anything, it is that no data on any system in any organisation is immune from being breached and compromised.

“Are we doing enough,” and more importantly, “are we doing the right things to protect our sensitive data?”

## Threats in the healthcare industry

The healthcare industry faces its own unique set of cyber security challenges.

- » Pushed by multiple compliance and regulatory requirements, healthcare is under intense pressure to cut costs while improving patient outcomes. Greater digitisation plays a key role in this respect.
- » But digitisation means that individual healthcare data is exposed to more people, in more places and on more devices.
- » Electronic health records (EHR) contain a trove of personal data, making them an ideal target of one-stop hacking for cyber thieves.
- » Health data is one of the most coveted prizes for hackers. On the black market, RHRs are sold from 200 to 2,000 dollars in the U.S.

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## Security and privacy in the era of Connected Health

There are still too many hospitals and health centres that are not prioritising the security and privacy of patients' data.

While resources are scarce, the simple fact is not enough importance is given to security, which is particularly

important in the era of connected health.

But people's health is one of the most private aspects of a person's life and in the wrong hands, it could be used against them.

### CLARUS eHealth Showcase

Santiago Irioso is one IT professional who is making data security and privacy a top priority for the Barcelona Clinic Hospital through his participation in CLARUS, a Horizon 2020 project implementing a holistic security-by-design approach.

The highly private nature of health data means healthcare organisations find it hard to benefit from cloud storage and processing resources.

CLARUS provides our IT department with the right security and privacy-enabling mechanisms to ensure patient records are properly protected when outsourced to a cloud service provider.

This also means we benefit from more efficient, transparent standardised, and auditable cloud services. **Santiago Irioso**, Clinical Solution Manager, Hospital Clinic Barcelona.