

IoT Security: A Growing Challenge

The Internet of Things connects numerous everyday devices, opening up previously closed systems to remote access & control. Smart, connected devices are now an integral part of our lives, in business and at home. Be it Smart Cities with sensors and digital management systems for energy, utilities, transportation, etc, or smart homes and offices with a host of connected and smart devices, connected cars, UAVs or even Industrial control systems.

The IoT market is expected to grow to an install base of 30.7 billion devices by 2020 and 75.4 billion by 2025. However, the rapidly growing world of perpetually-connected smart devices presents proportionally large security risks. Existing security solutions are unable to keep pace, scale up and address the security challenges facing the emerging IoT world.

The Solution - IOT Armour

A next-gen military-grade security system to protect critical infrastructure and connected devices in the Internet of Things.

Smarter, faster and ready to scale for tomorrow's networks



Cryptographically secure digital identity

for users, connected devices and central servers/ services



Invisible & locked down critical systems

with micro-segmentation and fine-grain access control



Best-in-class military-grade encryption

for secured access to connected devices and IoT communication



Immutable & tamper-proof logs

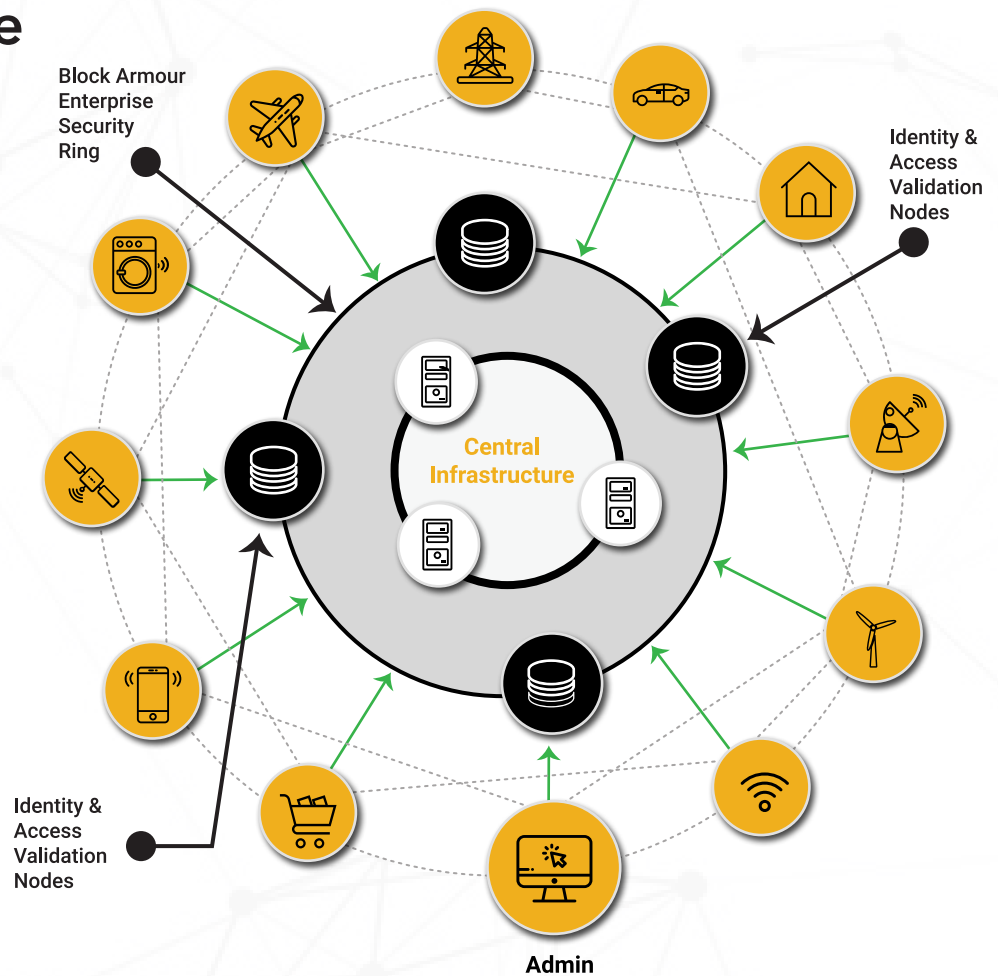
stored securely on the Blockchain for instant access/ analysis

The Architecture

Securing critical IoT infrastructure and connected devices with Blockchain-enabled Cybersecurity

The platform leverages digital signature based identity and authentication for humans, machines and data; tightly ring-fencing critical infrastructure and securing connected devices in the Internet of Things.

IOT Armour delivers an enhanced Software-Defined Perimeter using private permissioned Blockchain and TLS technology. It harnesses digital signatures to identify, authenticate and authorize devices thereby also securing IoT Communication.



The Building Blocks



Blockchain Technology

- Decentralization
- Cryptographic Encryption
- Immutability
- Consensus-based Control



Software Defined Perimeter (SDP)

- Render devices invisible to attackers
- Military grade architecture
- Developed at the Defense Information Systems Agency (DISA)



IoT Agent Tech

- Quick customization
- Fortification and invisibility
- Low footprint
- Three factor authentication



TLS

- A cryptographic protocol
- Privacy and security during communication over a network
- Public and private key encryption

