

DATA SOLUTIONS

Services | Plateforme | Expertise

ATiXE

Autonomous Tracking in eXplosive Environments



ATiXE signifie

Suivi autonome de la localisation
dans les environnements explosifs



ATiXE is a **complete wireless localization solution ATEX1 certified**, ensuring security, resilience and traceability for people and assets.

Geolocation Solution
Suited for the tracking of



people



equipment



vehicles



spare parts

Benefits

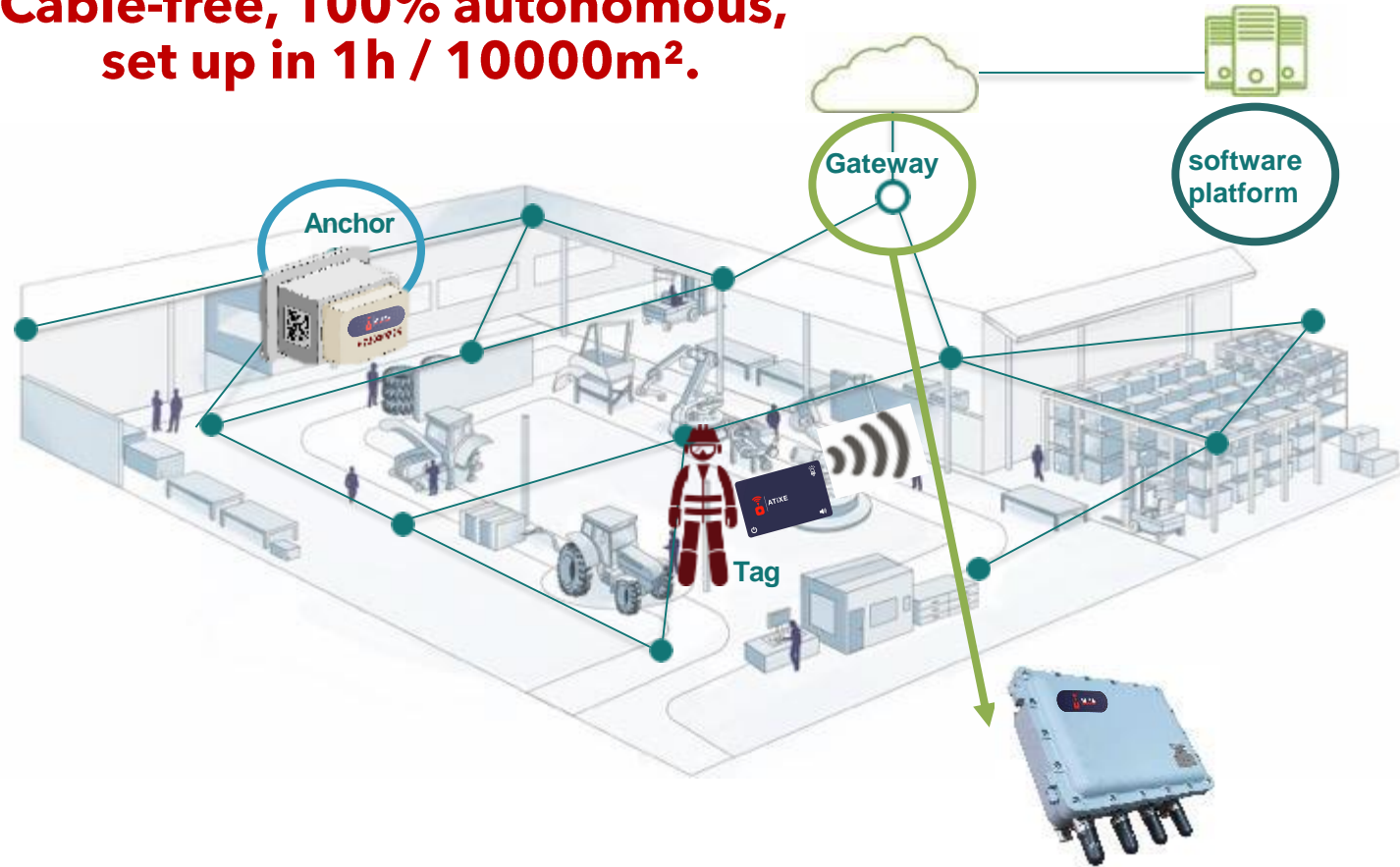
- IA post-processing for reliable localization in very complex environments
- Personnel safety
- Easy tracking of outsourced personnel
- Security asset positioning maintenance
- Faster post maintenance restart

- E-Mustering
- Safety of isolated workers
- Geofencing/ access control
- Area Management / Co-activity
- Optimization of space occupation



How does Indoor Localization work

**Cable-free, 100% autonomous,
set up in 1h / 10000m².**



**IA to make the position more reliable
in a very complex environment**



TAG ATEX 1



ANCHOR ATEX 1 BLE



Wirepas/LTE ATEX 2 gateway

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Components of the solution



Geolocation Tags



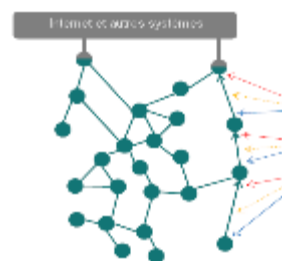
Network IoT + Geoloc **0 works**



Field applications and SDC



Tag geoloc + NFC + ATEX1
Rechargeable induction 300x
Ultra Lightweight
Autonomy 88h periodicity < 30"



Bluetooth Low Energy Mesh Network
Autonomous anchors (battery > 5 years)
Multiple gateways increase **resilience**
(MTBF > 10 years)



Orisun-IoT Open Platform
Digital Twins &
Web of Things ready
BIM compatible

ATiXE is a **complete ATEX1 certified wireless localization solution**, ensuring security, resilience and traceability for people and assets.

Innovative aspect

Tag ATEX1
ATEX1 anchors without work

Are exclusive to ATiXE



A complete solution that is particularly easy to install and operate

The most affordable on the market

Other innovative aspects



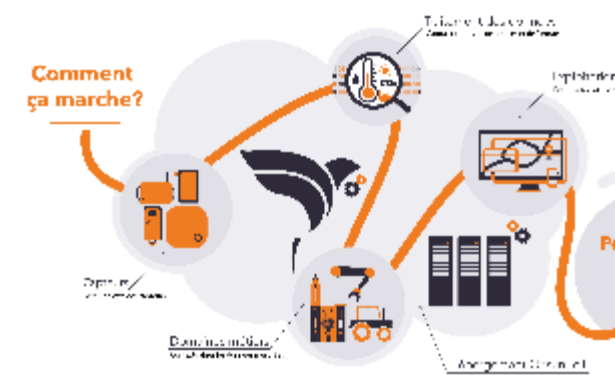
Induction recharging rack



Quick pairing
NFC, MIFARE,
biometrics



Anchor Holder for
Optimal Reception



Digital Twins
facilitate the extension
of the system

Highly resilient architecture (floor view)

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Highly resilient architecture



Unit floor



Anchor



IP to Mesh Gateway

Benefits

Geolocation latency reduction

Increased resilience to failures

For each floor of each unit

1 to 3 Gateways

4 Anchors mini (adapt to local function)

Connections

LTE/GSM (multi-vendor)

WAN

Resources required for performance and resilience to be validated during POT

High performance architecture

ATIXE implements a resilient high-performance physical infrastructure and a secure logical infrastructure

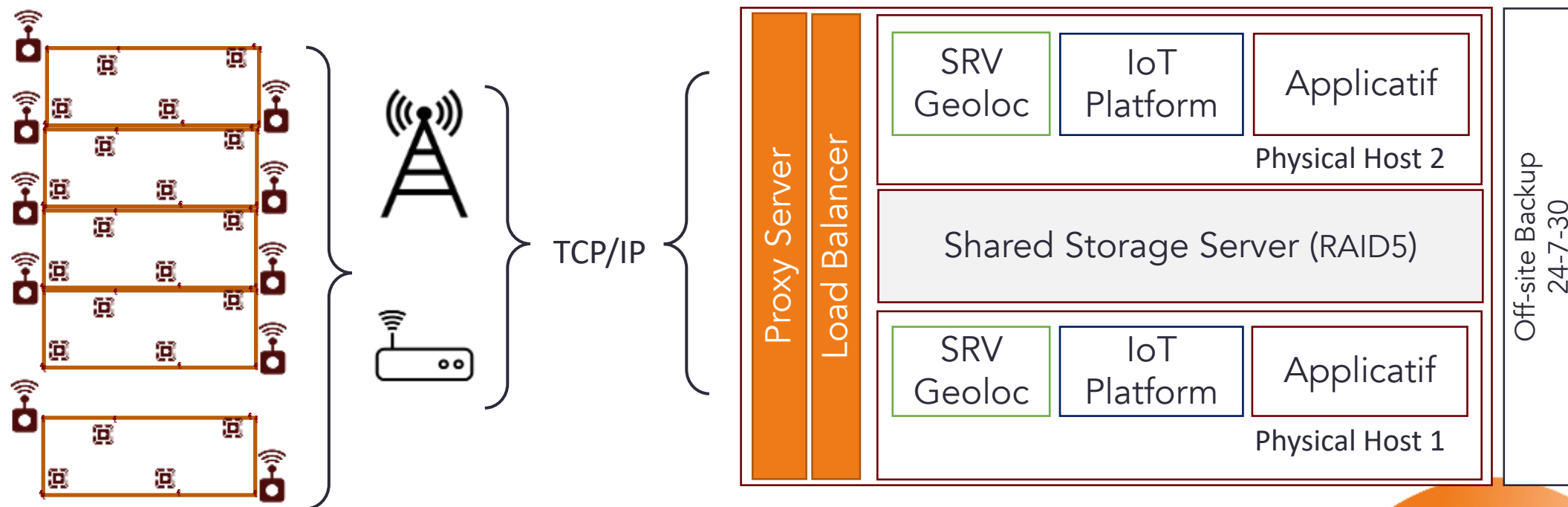
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Performance tests :

- ✓ implementation of a performance testing infrastructure (locust.io)

Service Commitment

- ✓ Mean Time Between Failures (MTBF) ≥ 1 year
- ✓ Recovery Time Guarantee (MTTR) ≤ 24 business hours



*Commitments limited to the failure of one unit (3 floors) of the geolocation network (anchors and gateways), computer servers, IP network infrastructure under ATIXE control

**Our market: Geolocation in
confined explosive environments
under ATEX 1 and 2 standards.**



- **Equipped with material adapted to ATEX 1**
- **Control of a wireless geolocation network**
- **Algorithms for position refinement in disturbed environments**
- **Open platform**

Our targets



Silos



Mines



Refineries



OffShore



Petrochemicals





- Hardware expertise and indoor localization
- Expertise in improvement of industrial practices, project management, Business Analysis and Planning.
- SPIN OFF of the ALTEO CONSULTING consulting group specialized in the industry



- Editor of the Web of Things enabled platform: Orisun IoT,
- Expertise Design and conception of critical IT systems;
- Expertise Benchmarking and hardware prototyping;
- Data management expertise, machine learning;

Long term partners

Since 2019, the geolocation solutions designed by Arenzi have been awarded the "Powered by Orisun" label.

The opportunity to work on a large-scale ATEX project accelerated the rapprochement of the structures.

In 2021, the two companies joined forces to market the ATiXE solution, whose originality is based on their respective technologies and IP.

Our key account customers (excluding ATiXE) are



Since October 2020, we have carried out several tests within the framework of a Proof of Technique with one of the companies of the petrochemical platform of Chalampé (Grand Est).

**Complete localization solution
paste & play installation
ATEX1 certified**



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