Streamlined and Secure IoT
Connectivity Lifecycle Management
from factory to field

THALES
Building a future we can all trust

" The number of licensed cellular IoT connections will reach 5.8 billion globally by 2030, up from 3.5 billion in 2023.
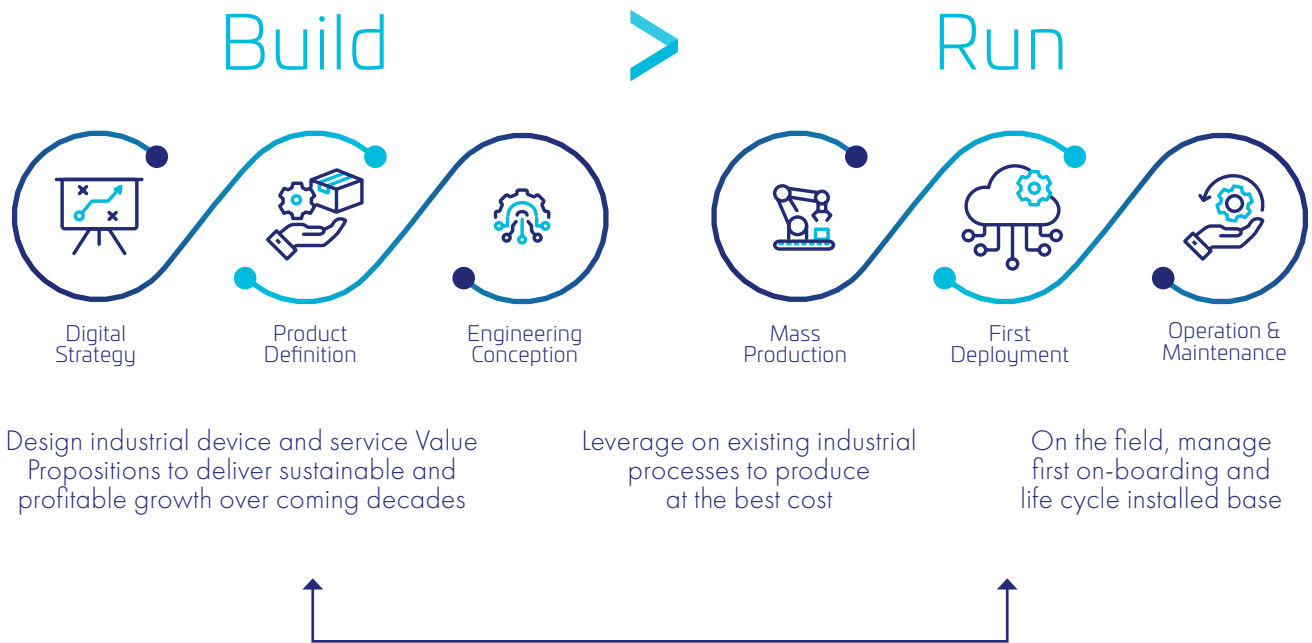(Source: GSMA Intelligence) **"**

" But connecting and managing a vast number of IoT devices securely over long periods presents both tremendous opportunities and significant challenges. "

Thales IoT framework: Build, Run, Protect

To address the challenges faced by enterprises in IoT deployments, Thales has developed a framework focusing on three key aspects: Build, Run, Protect. These offer a holistic approach to IoT, addressing connectivity management, logistics, and cybersecurity pain points.

Build   >   Run

| Digital Strategy | Product Definition | Engineering Conception | Mass Production | First Deployment | Operation & Maintenance |

Design industrial device and service Value Propositions to deliver sustainable and profitable growth over coming decades

Leverage on existing industrial processes to produce at the best cost

On the field, manage first on-boarding and life cycle installed base

Protect

Cyber protection

From design to use and from edge to cloud protect identity and data against cyber threats

Thales Solutions' Portfolio

Build upon the Build, Run, Protect framework, Thales' portfolio is a One-Stop-Shop set of solutions It offers comprehensive secure connectivity management solutions for IoT OEMs and IoT service providers, leveraging Thales eSIM technology.
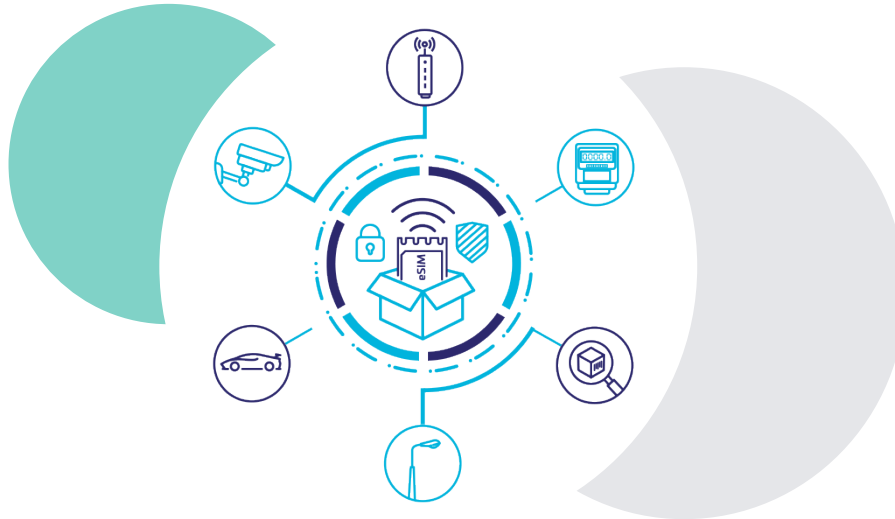
> **Initial connectivity:
> 2 approaches**

In-factory provisioning profile (IFPP):
Provisioning during device manufacturing.
- Extends device battery life, optimizing performance in the field

In-field initial provisioning:
no pre-loaded subscriptions needed for IoT devices.
- Global deployment with a single device version, increasing efficiency in the supply chain

> **Ongoing connectivity:
> Adaptive Connectivity Management**
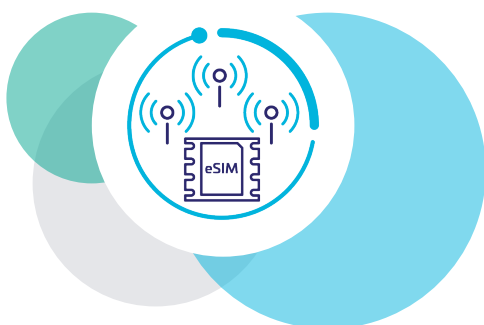
- Selects best local mobile network for each device
- Plug-and-play: simplifies IoT device deployment and management
- Ensures optimal and resilient connectivity
- Simplifies device deployment and management

Thales Cyber Security at Scale

Security is a top priority, and Thales embedded products which include eSIM, eSE (embedded Secure Element) deliver uncompromising protection through embedded hardware. This seamless integration simplifies device management and protection, providing several key benefits for IoT service providers.

Simplifies device management and protection

Authenticity and integrity of firmware updates

Safeguards device IDs and ensures data integrity

Security by design through eSIM eliminates complex integration

Additionally,
we offer comprehensive IoT consulting
services to meet cyber security requirements.
From assessments to certifications,
we help you comply with regulations like
the EU RED and Cyber Resilience Act.

We also provide a range of IoT operational
services, ensuring secure management
throughout the life cycle.

Why Thales

As your trusted partner for eSIM solutions, Thales offers a complete portfolio of certified products and extensive expertise.

Strong relationships with over 100 OEMs

We provide highly secure solutions and global support.

No. 1 provider of eSIM subscription management solutions

Our award-winning solutions have been adopted by numerous MNOs, MVNOs, and key industry players worldwide.

More than 360 projects

We are the industry leader in Remote SIM Provisioning platforms for both consumer and M2M/IoT environments.

A complete portfolio of field proven solutions

From hardware eSIMs, adapted to each type of device, to servers.

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