

# The changing shape of the Internet of Things ecosystem

Thanks to the Internet of Things (IoT), the spectrum of connected devices will soon become an integral part of our day-to-day lives.

# CONNECTIVITY

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This year, 120 million cellular IoT devices will be shipped. The research company Berg Insight also projects that this number will rise to almost 250 million per year in 2020. On the way to commercial success of IoT, two key aspects have to be considered: interoperability and security. Yves Portalier, Vice President and General Manager Telecom at Safran Identity & Security, explains the main steps to achieve this:

*The first step is to create **common standards** for eSIMs and remote SIM provisioning of M2M and consumer connected devices. Therefore, we are working actively on this within the GSMA. In the SIMalliance, we recently created an initial white paper on the **security requirements for 5G networks**, which will massively broaden the scope of connected objects in the Internet of Things. Furthermore, we are developing an **interoperability profile** within the SIMalliance organization, enabling new SIM profiles to be downloaded to eSIMs and thereby delivering optimized connectivity. The direct involvement into shaping the IoT ecosystem at an early stage enables us to ensure this knowledge is **built into our solutions** at the solution architecture and development phases.*

Commercial solutions implementing interoperability and security specifications will **need to be interconnected**. For this reason, Safran is working with many customers and solutions providers around the world. "To achieve commercial success with IoT, **close partnerships and cooperation with other industry players** are needed to address new and fast developing opportunities," Portalier said. "We are also working with Stream Technologies, the company behind IoT-X, a connectivity enablement, management and billing platform. The combined offer of Safran's remote SIM provisioning solution, MorphoFlex, and Stream's award-winning IoT-X management platform for global connectivity, creates a secure bridge and manages connectivity and subscriptions for the world of connected objects. When used in combination with eSIMs, Morpho Flex™ delivers a revolutionary new commercial mass market capability to enable the remote provisioning and change of localized cellular connectivity for globally deployed devices."

*This integration and deployment of capabilities from both Stream and Safran will revolutionize the complete delivery mechanism for global IoT connectivity. Mobile network operators, mobile virtual network operators and enterprises will be able to quickly and cost effectively streamline the entire management and logistics process required in the deployment of globally connected devices.*

Kevin McDowall, COO of Stream Technologies

To discover more about MorphoFlex™, Safran's remote SIM provisioning solution for connected objects, [click here](#), or to

ask a question or request further details please email us. For more information about Stream Technologies, [click here](#).