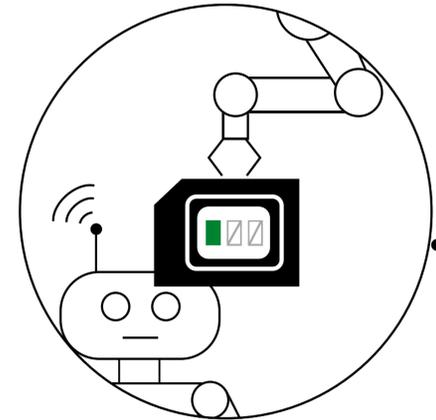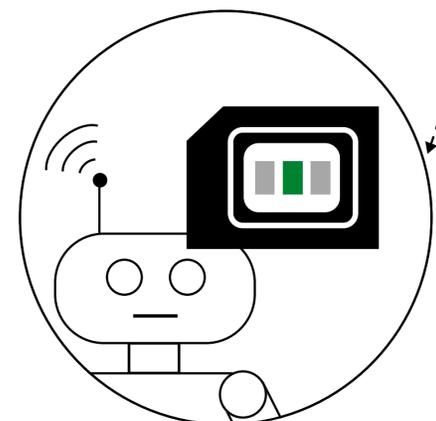# 7 Business Benefits of IoT eSIM

The advent of eSIM technology has unlocked exciting possibilities for global business IoT deployments. eSIM empowers organizations to harness the full potential of IoT on a global scale, enabling flexible device compatibility, real-time remote network switching, and paving the way for innovative applications and new business opportunities.

1. **Improved Security.** The use of eSIM technology helps improve IoT security by implementing secure authentication and encryption protocols that safeguard sensitive data. Moreover, eSIM profiles are stored securely in eUICC devices, minimizing the risk of SIM card tampering or theft.

2. **Cost Efficiency.** By implementing eSIM technology, businesses can lower the expenses linked to IoT deployments and inventory management. This also provides the flexibility to select the most efficient global connectivity options, thereby improving cost-effectiveness for IoT projects.

3. **Increased Scalability.** eSIM offers scalability advantages for global IoT deployments. As businesses expand their IoT projects into new regions, eSIM facilitates the provisioning of new network profiles remotely, eliminating the need for physical SIM cards or on-site visits for SIM card replacements. This flexibility allows for quick and efficient scaling of IoT deployments on a global scale.

4. **Simplified Global Connectivity.** eSIM enables easy and seamless connectivity across various countries and regions. With traditional physical SIM cards, managing multiple carrier connectivity creates production and supply chain overhead. eSIM simplifies this process by allowing remote provisioning and switching of network profiles, making it ideal for IoT devices deployed globally.

5. **Multi-Carrier Compatibility.** The integration of eSIM technology can be applied to a wide range of IoT devices such as sensors, trackers, wearables, and industrial equipment. Its remote SIM provisioning feature allows for compatibility with multiple carrier networks, giving businesses the ability to select the most suitable devices for their specific needs. This flexibility supports diverse IoT deployments and enhances overall performance.

6. **Real-Time Network Switching.** eSIM enables real-time network switching, which is particularly beneficial for IoT devices that require reliable connectivity. In case of network outages or weak signals, eSIM allows devices to automatically switch to an alternative network with better coverage, ensuring uninterrupted connectivity. This capability is crucial for critical IoT applications such as remote monitoring, asset tracking, and security systems, where consistent connectivity is essential.

7. **Simplified Lifecycle Management.** eSIM simplifies the lifecycle management of IoT devices. With eSIM, businesses can remotely update and modify network profiles, manage subscriptions, and provision new devices without physical access. This remote management capability reduces operational complexity, improves efficiency, and minimizes downtime for IoT deployments.
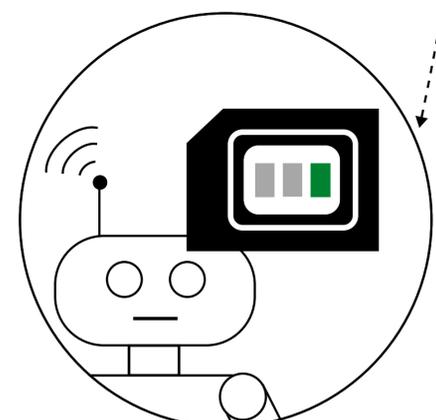
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