

DAKOTA IoT



Enabling secure cellular connectivity managed in an optimized way



As the number of connected devices and access to associated services increase, with an expected 3.1 billion cellular connections in 2025*, OEMs and service providers are looking for more digital, convenient and hassle-free solutions to manage device connectivity.

*GSMA

We are in the middle of the fourth Industrial Revolution: the Internet of Things (IoT). Billions of smart and connected devices are already around us. Within a number of market sectors, such as e-health, utility monitoring, security systems or automotive, there is a need for an end-to-end connectivity solution that simplifies logistics, enhances the lifecycle management of deployed devices and brings security.

Our offer

DAKOTA IoT is an eUICC (embedded Universal Integrated Circuit Card), a secure hardware and operating system that allows device makers to remotely download MNO subscriptions in the connected objects deployed in the field. IDEMIA is fully committed to the eUICC GSMA specification and the evolution of telecommunication standards towards 5G for both secure elements and management platforms.

DAKOTA is a fully interoperable solution, available in removable and embedded form factors. It is not just an eUICC, it is an enhanced secure element consisting of a dedicated space that securely stores confidential data like keys or certificates and can be used to authenticate connected equipment with external IoT servers.

Why IDEMIA?

With 25 years of know-how in SIM manufacturing, secure chip personalization, extensive expertise in cryptography and security certifications, IDEMIA has implemented state-of-the-art counter measures in its DAKOTA range to guarantee the security of both the OS and the hardware platform. Our products and solutions are field-proven and

trusted by mobile operators and device makers. IDEMIA has over 90 major wins in eSIM subscription management platforms. We have successfully deployed embedded connectivity into payment terminals and a wide range of automotive applications. We are trusted by MNOs and IoT connectivity providers.

Benefits



Flexibility

DAKOTA IoT is offered in several form factors and environmental grades, giving device makers the flexibility to select the hardware variant that is most appropriate for its application.



Long-lasting

As MNO profiles can be downloaded OTA and OS updates are supported, device lifetime can be extended and on-site visits eliminated.



End-to-end security

Using highly secure OS and built-in HW-based cryptography ensures the application data confidentiality.

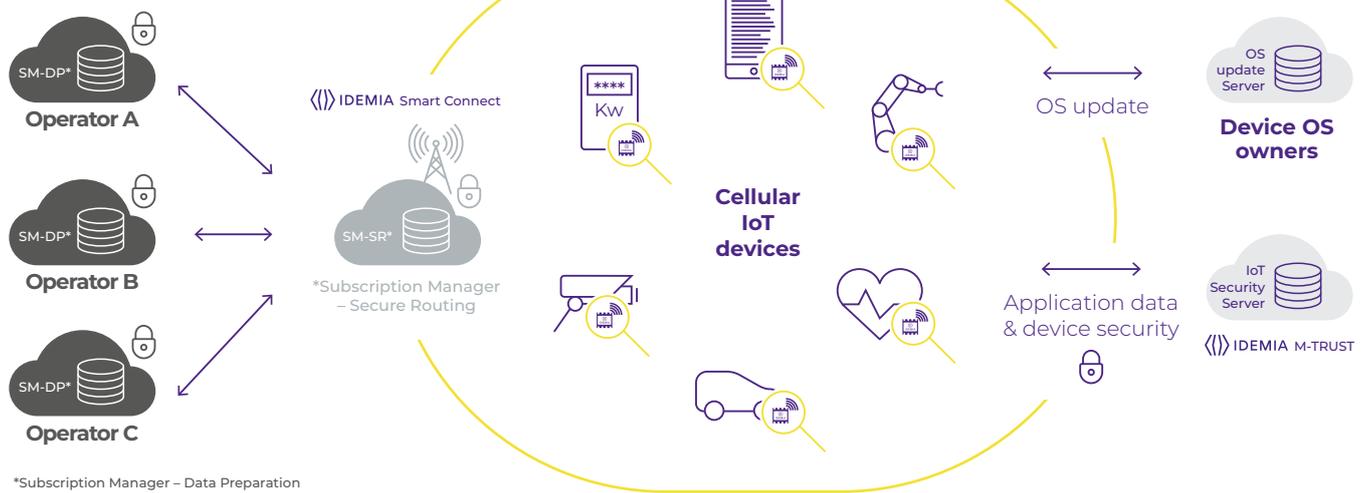
How it works?

DAKOTA IoT (soldered or removable formats) with preloaded profile(s), is integrated by the device manufacturer who selects a connectivity provider for its devices.

The initial subscription (so called bootstrap) can either be used for commercial services or to download an actual subscription, depending on the device location, customer contract terms or any other business rule. With its OS update solution, IDEMIA can guarantee properly functioning connectivity throughout the device's entire lifespan. This solution can easily be integrated into the existing server infrastructure of the device manufacturer or of the company performing the device's OS updates. Associated services like campaign manager, localisation, network quality monitoring provide a best in class solution for OEMs and connectivity providers.



IDEMIA Smart Connect



Cutting-edge technology

- › GSMA SGP.02 v3.x and SIMAlliance interoperable profile v2.x compliancy
- › Certified by the GSMA
- › Removable and embedded form factors available
- › Improved memory management to increase product lifetime
- › Secure OS update mechanism
- › EAL5+ certified and resistant hardware
- › Proven interoperability



And tomorrow?

- At IDEMIA, we are committed, more than ever, to the development and growth of the IoT market with emphasis on the security of all connected devices. Beyond enabling a secure connection, DAKOTA IoT will also,
- › Secure the communication over non-cellular networks (new 5G feature)
 - › Provide the Roots of Trust for IoT devices
 - › Be used as a secure storage for critical device configuration data (licensing, calibration)