Solution Brochure

AirOn360® – Best-in-class eSIM management

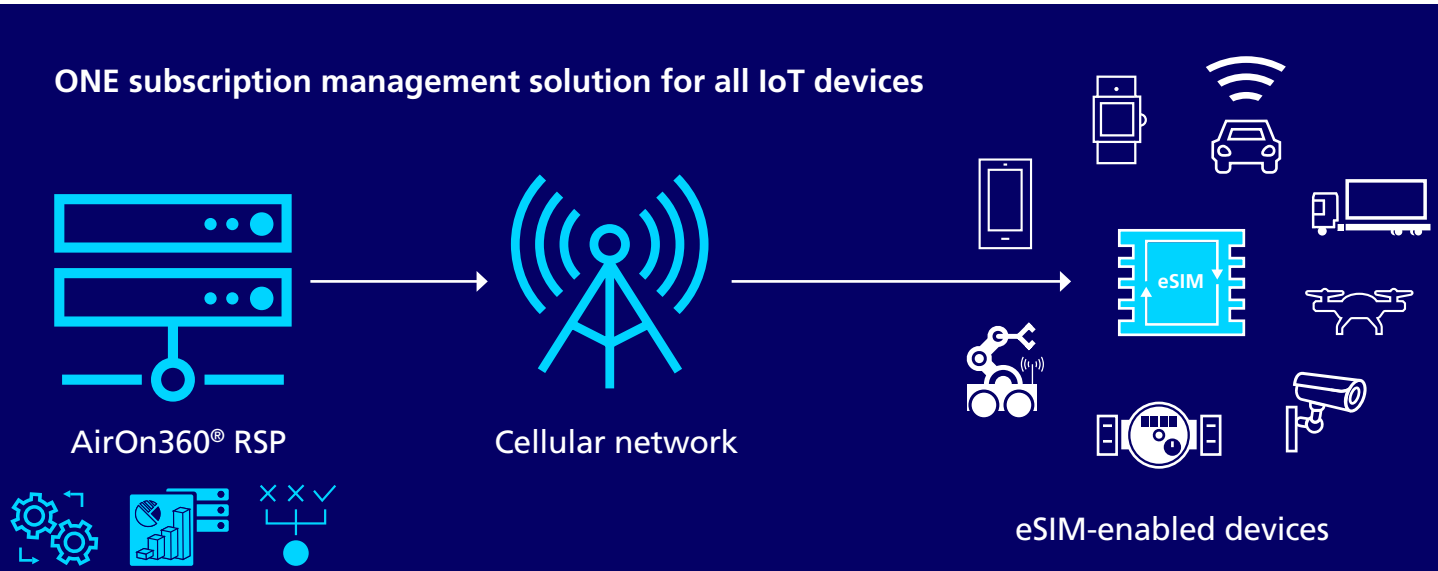
For MNOs, automotive OEMs, and IoT device OEMs

The AirOn360® remote SIM provisioning (RSP) platform provides a comprehensive server-based solution for over-the-air (OTA) management of embedded SIMs (eSIMs) and mobile subscriptions. The eSIM (eUICC) module itself is the hardware component that can be soldered onto the printed circuit board (PCB) of a device, including the secure SIM OS. G+D's AirOn360® eSIM management platform enables high-performance RSP of multiple mobile operator credentials (eSIM profiles) for all consumer, M2M, and IoT use cases.

As the market and thought leader in eSIM management, G+D developed the first commercial eSIM management platform in the world, which was deployed in 2012. In the interim, G+D has built on its products, services, and expertise in mobile security, SIM cards, applets, and the over-the-air (OTA) management of data on SIM cards. This was made possible by partnering with leading mobile operators and extensive participation in GSMA specification activities. Although many consumer devices used to be equipped with a SIM slot in parallel with an eSIM, this is now changing. More and more eSIM-only or dual-eSIM devices are coming onto the market.

Benefits with eSIM management

- Remote SIM provisioning
- Cost-efficiency
- Customer satisfaction
- New revenue streams
- End-to-end security
- Future proof
- Reduced logistics
- Scalability
- Sustainability



One solution for all devices and multiple use cases

While for consumer devices like cell phones, tablets, or smart watches the eSIM download process is typically user initiated, for M2M/IoT devices, which sometimes do not even have a display, the subscription download process is often centrally managed, e.g. by the device manufacturer (OEM – original equipment manufacturer), an IoT service provider, or by the owner of the devices.

The AirOn360® platform supports both consumer-oriented remote profile management (RPM) as defined by the GSMA SGP.22 specification and M2M/IoT use cases as defined by the SGP.02 and SGP.32 specification.

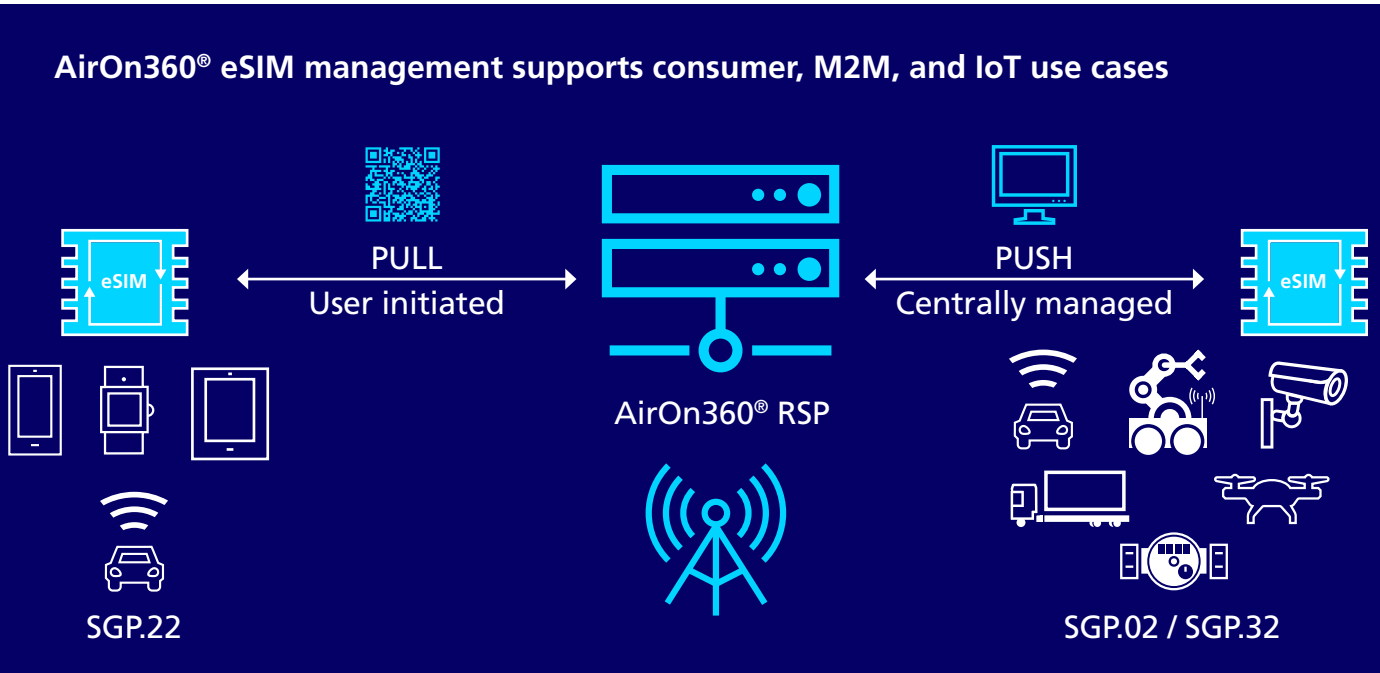
Downloads initiated by the end user typically start with a simple scan of a QR code or via a carrier app, which triggers the eSIM download of the selected MNO. In this case, each device has its own data plan and further connectivity lifecycle management is additionally driven by the user.

For M2M/IoT devices, central management allows device fleet management in the massive IoT, which means that, for instance, all devices of one type might get the subscription of one preselected M(V)NO. Or even a subscription depending on the region of use of the device.

Both cases are fully digital without any need for manual interaction.

To permit the initial download of a mobile subscription, the device needs connectivity to the internet, e.g. via Bluetooth, Wi-Fi or cellular with a bootstrap profile.

G+D's global bootstrap connectivity provides initial cellular connectivity built into the eSIM module and enables the final eSIM profile to be downloaded in the field via globally accessible mobile networks.



Benefits with the AirOn360® eSIM management platform

- **Extended functionality for various market segments and use cases:**
  The AirOn360® solution supports all published GSMA RSP specifications for consumer, M2M, and IoT use cases. It provides extended functionality, which has become invaluable in commercial deployments. It is also a proven way for customers to re-engineer the end-user experience, generate more revenue, lower costs, and distinguish themselves in the market.

- **Trusted partner to the industry:**
  G+D is a highly respected security company, trusted as a certified partner for data-generation for MNOs worldwide. Many IoT and automotive OEMs rely on this solution.

- **More than a GSMA specification-compliant solution:**
  Commercial deployment of eSIM management requires more than compliance with the GSMA specification. The additional features and functionality offered by the AirOn360® service enable the successful deployment of eSIM credentials for emerging industries, e.g. for in-factory profile provisioning of NB-IoT credentials.

- **Multi-eUICC vendor support is essential for eSIM management:**
  The AirOn360® eSIM management solution has supported the integration of an influential vendor's eUICCs from the very first commercial solution, prior to the development of any international specifications or standards.

- **Sustainable solution:**
  G+D's eSIM technology is a win for producers, consumers, and the environment. Thanks to its fully digital nature, this management technology saves money, resources, and CO_2 emissions.

- **Support of third party eSIMs:**
  Beside G+D's own high-end eSIMs the AirOn360® platform supports the management of other standard, compliant eSIMs.

- **Dual eSIM and multiple enabled profiles (MEPs):**
  The platform was the first to realize dual eSIM management scenarios in the market in 2021. MEP and eSIM-only solutions are also fully supported.

G+D leads the global eSIM enablement landscape

Source: Counterpoint, May 2022

eSIM excellence with AirOn360® service offers

- Service availability of up to 99.99%
- Global geo-redundancy
- High performance and support of high peak loads
- Full 5G-compliance and backward compatibility
- Empowerment of cellular private networks (5G, LTE, CBRS, etc.)
- Support of all GSMA-compliant eUICCs
- Functionality certified by GSMA, supporting all eSIM management use cases
- Enhanced functions and uses cases beyond the GSMA standards
- Fully scalable service, based on business needs
- Proven end-to-end security
- Data centers that are operated with sustainable energy, depending on the region and availability

G+D's AirOn360® platform is the basis for various services

In addition to eSIM management, G+D offers a broad portfolio of lifecycle management services, remote OTA management, and further solutions, e.g. mobile device management, mobile analytics, and roaming steering. Quality of service (QoS) solutions for measuring the network quality of the M(V)NO used or geofencing etc. are also available.

We connect the IoT and provide security for data and devices

About Giesecke+Devrient

Giesecke+Devrient (G+D) is a global security technology group headquartered in Munich. As a trusted partner to customers with the highest demands, G+D secures the essential values of the world with its solutions. The company develops technology with passion and precision in four major playing fields: payment, connectivity, identities and digital infrastructures.

G+D was founded in 1852. In the fiscal year 2022, the company generated a turnover of 2.53 billion euros with more than 12,600 employees. G+D is represented by 103 subsidiaries and joint ventures in 33 countries.

Further information: **www.gi-de.com**

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