

Unlocking agility and global reach with in-factory provisioning at a leading wearable brand



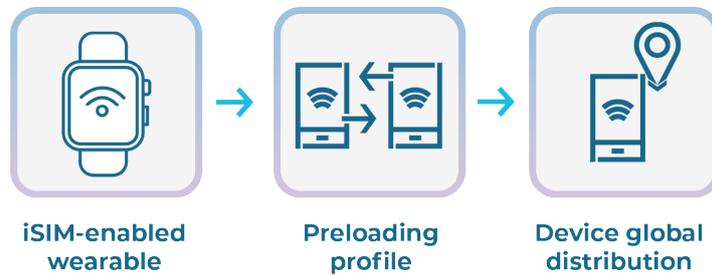
Case Study



the technology



the solution



building blocks of success



looking ahead

Kigen's technology enables



More scalable, secure solutions

Future proof IoT deployments

key benefits

✓ Single SKU management

✓ Reduced production costs

✓ SIM delivery in minutes

✓ Seamless Connectivity

The background

Greg leads global product operations at a premium wearable tech company known for precision, performance, and design. For Greg, quality isn't just tested at the end—it's built in at every stage. That mindset now extends beyond hardware, to how the product connects the moment a customer powers it on.

As the team prepares for the international launch of their next-generation connected device, Greg faces a familiar challenge: **how to deliver a consistent, flawless experience across dozens of countries—with guaranteed connectivity from the first power-on.**

Maintaining separate SKUs for each region no longer serves the mission. Subassembly variations add complexity, fragment testing, and tie up capital in stacked inventory. The further connectivity is pushed down the line, the more risk to that all-important first customer moment.

So Greg **designs for certainty early.**



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By integrating In-Factory Profile Provisioning (IFPP) with [Kigen's iSIM solution](#), Greg's team securely loads digital connectivity profiles during production – within minutes. Each wearable now can be pre-provisioned with a chosen terrestrial connectivity and satellite network profiles that span the globe right on the production line. No manual SIM handling. No regional SKU juggling. Just a single, globally compliant product build with connectivity assured from box to wrist.

One global SKU, pre-tested connectivity, and no surprises at launch.

This move doesn't just reduce lead times or inventory—it reinforces the brand promise. Greg's factory floor becomes a launchpad for flawless first impressions, with every device tested, certified, and ready for wherever in the world it lands.

For Greg, quality is no longer something to check—**it's something to architect.**



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The customer

A global leader in connected products, the customer manages a vertically-integrated business model, managing all stages of product development from concept to mass production of shelf-ready units to maintain a high level of quality. A top consumer brand, the customer is developing its next-generation Integrated SIM (iSIM)-connected wearable.



The challenge

Deploying IoT devices at scale presents logistical challenges, particularly in ensuring seamless, region-specific connectivity or “best-fit connectivity” with fallback options in case of disruptions. Traditional methods prevalent in physical SIMs add complexity and cost, and are not suited for soldered or integrated SIMs. Managing different SKUs for various regions further complicates logistics and increases the Total Cost of Ownership (TCO). Furthermore, the compact and resource-constrained wearables require out-of-the-box functionality delivered through Kigen iSIM to meet consumers’ high expectations.



“The coming ratification of GSMA specifications SGP.41 and SGP.42 will standardize an approach to IFPP, enabling streamlined cellular connectivity of a broader range of IoT devices.”
- *ABI Research*



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Building blocks of success

[Kigen's IFPP](#) has successfully provisioned iSIM-enabled wearables with digital profile delivery for a major U.S. operator, along with Skylo's Non-Terrestrial-Network (NTN) connectivity, offering satellite IoT connectivity as an alternative. With Kigen's IFPP automation the digital profile delivery takes only minutes, removing bottlenecks typically presented by provisioning and testing stages for cellular provisioned goods. The compound benefit of Bill of Materials (BOM) reduction, streamlined sourcing, and removal of the contractual access to traditional SIM supply saves weeks to months in product development timelines. Kigen iSIM Secure Package delivery also meets the stringent security assurances and requirements that support the manufacturer in expanding its footprint.

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The solution

[Kigen iSIM OS](#) and [Kigen iSIM Secure Package](#) bring the IFPP capability, allowing secure pre-loading of required profiles during manufacturing. This eliminates the need for physical SIMs and manual setup, streamlining production and reducing complexity. IFPP enables manufacturers to tailor devices for different regions without multiple SKUs, cutting logistical overhead. Although iSIM was demonstrated in this case, the same benefits and processes also apply when using eSIM, making it a flexible solution adaptable to various device architectures.



Key benefits

Adopting Kigen's IFPP reduces production costs and accelerates time to market. Pre-loading SIM profiles simplifies manufacturing, while remote provisioning allows seamless connectivity management across regions. Automated profile delivery enhances scalability, ensuring a cost-effective and agile IoT deployment approach.

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◀◀ About Kigen

Kigen is the forerunner in eSIM and iSIM security-enabled IoT solutions built for scale. An Arm-founded company, Kigen flexibly empowers OEMs with security on leading IoT chipsets and modules and with the world's leading IoT and LPWAN connectivity providers with over 200 networks. Our industry-leading SIM OS products enable over 2.5 billion SIMs and complement our GSMA SAS-accredited Remote SIM Provisioning secure service capabilities. Find out more at kigen.com or join our #FutureofSIM conversation on [LinkedIn](#).