



Deutsche Telekom IoT

IoT Embedded Connect— The Simple, Flexible Solution



Shipping products with built-in IoT connectivity is a great way for exploring new business models. But are the costs acceptable? And do international rollouts work, too? Yes, and yes—when you use our new plans and embedded nuSIMs. That's how we make IoT deployments simple and flexible to perfectly match the needs of your business.

Innovation the easy way

IoT Embedded Connect simplifies the development and production of IoT-ready products with an attractive bundle of hardware, SIMs, and connectivity. Our new Heartbeat plan provides basic connectivity and enables immediate access to relevant product information. This way, you can offer customers new services without having to immediately pay the full connectivity costs. If they decide to use premium digital services later, you simply upgrade their plan. It's the perfect way to adjust rates to reflect actual customer usage.

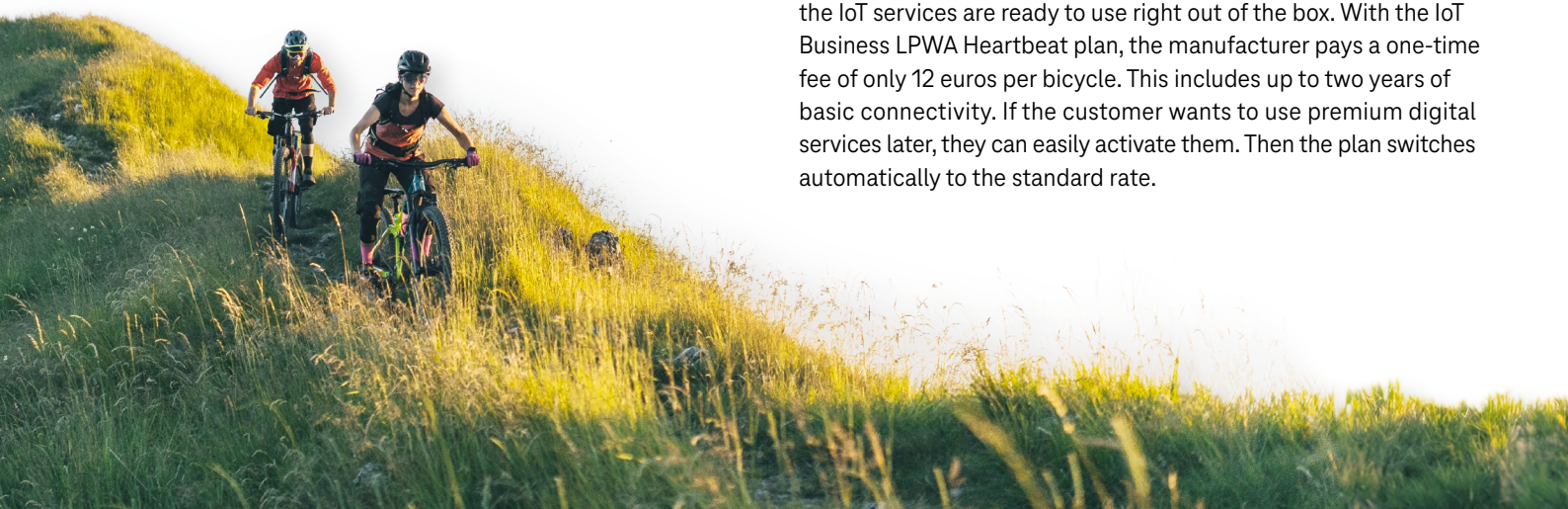
Use case: connected e-bikes

The challenge: Launch IoT services, minus the risk

Deploying connected products pays. A major international manufacturer of high-end bicycles with factories across Asia, North America, and Europe sees it that way, too. The company frequently takes advantage of innovations and would like to begin offering connectivity for location and map services. The manufacturer is not yet able to predict if customers will subscribe to their premium services, and if so, at what point. The question they faced was, how can we offer innovative digital services without paying the upfront costs for installing connectivity? And how can we make it as easy as possible to activate them?

The solution: ship products with built-in IoT

The bicycles are now equipped with IoT-ready cellular modules in the factory. An embedded nuSIM from Deutsche Telekom means the IoT services are ready to use right out of the box. With the IoT Business LPWA Heartbeat plan, the manufacturer pays a one-time fee of only 12 euros per bicycle. This includes up to two years of basic connectivity. If the customer wants to use premium digital services later, they can easily activate them. Then the plan switches automatically to the standard rate.



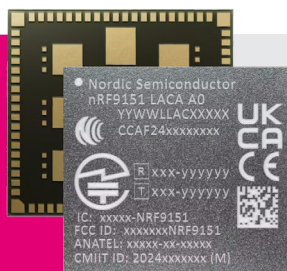
IoT has never been this easy

IoT Embedded Connect

- 1 Cellular module:** The module includes an integrated nuSIM and supports NB-IoT and LTE-M
- 2 nuSIM:** The SIM credentials are pre-installed on the cellular module and ready for use
- 3 Integrated basic connectivity:** Rate plan that covers end-of-line tests plus basic connectivity for up to 5 years
- 4 Data upgrade:** The plan can be changed manually or automatically at any time

The Nordic nRF9151 cellular module

- Modern multimode NB-IoT and LTE-M modem with DECT NR+ and GNSS support
- Read-to-use, integrated nuSIM
- Power Classes 5 (20 dBm) and 3 (23 dBm)



Two plans for maximum flexibility:

IoT Business LPWA Testing Plan

- Enables end-of-line device connectivity testing with subsequent inactive phase lasting up to 24 months
- Automatically switches to a specified IoT data plan as soon as the device establishes a connection

One-time charge per device € 10 *

IoT Business LPWA Heartbeat

- Max. 25 kB/month (EU/EU+) for up to 60 months; enables access to basic usage data
- Flexible upgrades to regular IoT plans for individual devices as needed (for instance when a customer chooses premium digital services)

One-time charge per device

€ 12 * for up to 24 months

Optional extension (one-time)

€ 1.30 * for up to 60 months

* VAT not included



Easy factory
IoT integration



Standard connectivity for up to 60 months



Flexible plan upgrade



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