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Nb iot tag

It is the technology that currently causes euphoria for everyone involved in tracking: Narrowband IoT (NB-IoT). Low Power Wide Area (LPWA) technology attracts low energy consumption, high building and solid penetration and reach. Narrowband IoT is a technology in the start-up blocks that offers undeniable advantages in the field of location-based services, especially for asset tracking in enclosed rooms. It could herald the end of beacons in logistics and revolutionise the location-based service sector. One reason for this is that the assets with NB-IoT tags can communicate directly with a server via eSIM and do not require a detour through a gateway. NB-IoT is based on an area-wide mobile network coverage. The promised building penetration also makes people listen attentively. This would make the combination of GPS and BLE - with which GPS is practically simulated indoors - superfluous: Thus, one would finally only have one tracking technology for both inside and outside. The installation of a special sensor infrastructure for enclosed rooms is therefore no longer necessary – even as a cost factor. For a technical overview please click here. Among other things, NB-IoT enables addressing up to 50,000 subscribers per radio cell and thus specifically meets the requirements of a rapidly growing internet of things. NB-IoT requires only 200kHz bandwidth and can therefore already run in parallel with existing LTE radio networks. NarrowBand IoT (NB-IoT) is now located in over 600 locations in Germany, including the metropolitan regions of Berlin/Potsdam, Cologne/Bonn, the Ruhr area, Mannheim/Heidelberg and Stuttgart. According to Telekom, more than 200 companies from different industries already use NB-IoT. Still, during a data storm of up to 50,000 subscribers per radio cell, the existing networks would collapse faster than a Republican senator under pressure from the NRA. The basis for the new offers is therefore the upcoming 5G radio standard. The transfer rate should then be about 10 times the LTE speed and improve the connectivity of machines and devices with delay times of less than one millisecond customers – with data rates of up to 50 Gbps. Location-based service providers currently primarily working in the unlicensed frequency spectrum (WLAN, BLE) have little time left to adapt their products to the new standards and, if necessary, develop completely new solutions. Deutsche Telekom has already made its first mobile phone master NB-IoT-enabled through a simple software update. By the end of 2018, a nationwide relationship will be established – as in the Netherlands. By 2020, the new 5G communication standard will be launched across the board. Favendo is already working on translating the new technology into solutions for its customers. Future-proof Asset Tracking Solutions Deploy with confidence knowing our GPS and IoT asset tracking devices will continue to connect far beyond the life span of 4G, such as NB-IoT and LTE-M continue to be developed as part of 5G specifications. Our 4G GPS trackers use GPS and GLONASS positioning systems used simultaneously with a 72-channel high sensitivity receiver (-167dBm) for improved accuracy and faster fixes. Versatile range of 4G GPS trackers for tracking both non-powered and powered equipment. Extremely low-power units with battery life up to 10 years with built-in battery life for monitoring usage and remaining life predictions. IP67-rated housing ensures that our 4G GPS trackers can withstand fine dust, high pressure spray, immersion for 30 minutes in 1m water, and extreme temperatures. Configure 4G GPS trackers to send updates based on set time intervals (1x, 3x, 5x a day, etc.) or when movement occurs. Desktop devices go into sleep mode, changing the refresh rate to only once a day until movement occurs to save battery life and optimize data usage. Switch to Recovery Mode in case of theft or loss to enable live tracking at 30-second intervals for asset retrieval. Capture running hours based on movement to understand and optimize asset utilization. Configure impact detection alerts when G forces are exceeded by a user-defined threshold. Set reminders based on travel time and driving time to reduce maintenance and repair costs. Create custom geofences and notifications if an asset enters or leaves specific locations. Geofences can also be downloaded directly to the device for enhanced location-based behaviors. Configure device parameters such as heartbeat speed, movement and accelerometer settings, and more to fit all tracking software. Our versatile range of GPS tracking devices is globally trusted to outperform with industry-leading reliability, powerful device management tools and flexible integration options. Comprehensive range of GPS and IoT devices for all Global Cellular tracking applications (2G, 4G LTE-M/NB-IoT), LoRaWAN® and Sigfox connectivity. Industry-leading performance with uncompromising technology – from R&D and prototypes to best-in-class components, homes and firmware. Secure and powerful device management and configuration tools with flexible integration options. Expert technical assistance with device activation, installation, configuration, integration, troubleshooting and a robust knowledge base. Set up, manage, and monitor Digital Matter devices remotely. Learn more Flexible integration options via Webhook, TCP or HTTP/HTTPS, Direct Integration or Data Splitting. Learn more Military-level AES-256 encryption to protect the privacy and confidentiality of your telematics data. Read more LPWA is specifically designed for connecting devices with low bandwidth requirements, with low power, while maintaining wider and deeper network coverage. Many millions of devices are predicted to be connected lpwa networks over the next few years. The potential for LPWA technology is enormous. Most devices can last ten years in the field without battery charge, connect as like 10km, it costs only \$10 each, with cell sites able to support 10,000 units. Strong coverage over large areas, even underground or deep within urban infrastructure Great power efficiency, devices can run on batteries for 10 years or more without a charge Massive scale, potentially connecting millions of devices in a single deployment Low cost communication hardware, allowing data collection devices to be built for less than \$10 Low bandwidth, many use cases require only a few bytes of data to be transmitted per unit per day NB-IoT is a specification developed by 3GPP, and was standardized as part of 3GPP Release 13 in June 2016. NB-IoT is an 'industrial quality' LPWA solution – it runs on licensed spectrum that guarantees quality of service and a future-proof capability It is a cellular technology related to LTE, supports two way communication and is designed specifically for LPWA applications It is designed to offer 20 dB coverage improvement versus GSM Low device cost, and compatibility with existing cellular network infrastructure, with the same level of security as LTE. Find out more details about the features of NB-IoT described in the 3GPP specificationRelease 13 from June 2016 50% of all wireless connections will be LPWA by 2025 Vodafone was 1st to announce the launch of live commercial NB-IoT networks in Spain (Jan 2017) Vodafone was 1st to complete NB-IoT pilots Spain Italy Ireland Netherlands Turkey Czech Republic South Africa South Africa Malta Greece Uk Portugal : -TDC -Maxis The power of our network, as well as our site as a founding member of the GSMA NB-IoT Forum, puts us firmly at the forefront of delivering this cutting-edge technology. Learn more about what we are doing to enable the Internet of Things with NB-IoT Street lighting Smart waste Smart transport Road traffic monitoring Smart parking Infrastructure sensors Pet tracking Fire safety Asset tracking Location security Smart measurement Stock monitoring Safety and safety Wear monitoring Animal monitoring Animal monitoring Animal monitoring Earth monitoring Warehouse monitoring Safety and safety Wear monitoring Smart laboratories Asset tracking Drug delivery Wearables for older Intelligent stores Smart connected cabinets Smart shelves A new tag from Samsung can track pets, children and personal effects indoors and out. Samsung has launched a new tracking tag it claims is the first in the world to use narrowband network technology (NB-IoT, Cat.M1). Called Connect Tag, the device will work with GPS, Wi-Fi-based positioning (WPS) and Cell ID. The company says the device can receive accurate location information both indoors and outdoors for location tracking. It offers smart location notifications based on an NB-IoT or Cat.M1 network, using the internet to identify location information. The tag can be cut to a backpack, pet collar or other items to Loss. It is IP68 water- and dust proof, and action measures square with a thickness of 1.19cm. The battery can last up to seven days on a single charge. Samsung Connect Tag (Credit: Samsung) Read more: Samsung debuts wearable technology for health and safety Location tracking If a user loses their car in a large outdoor parking lot, the on-demand feature will allow to request any Connect Tag location when desired, simply by pressing a button on the smartphone. The Send My Location feature allows a child to send their current location to a parent or guardian so they can be downloaded. Periodic location messages will show a tracking of a user's location record. Connect Tag will also be integrated with Samsung's SmartThings ecosystem. So if a user wants lights and TVs to be activated when you get home from a nighttime run, Connect Tag can trigger these products when the user enters a predefined zone. Similarly, they will receive a notification when a child enters the schoolyard or a dog jumps the backyard fence. Connect Tag will be on display at the Samsung Developer Conference 2017 in October in San Francisco. There will be buying starting in Korea before it expands to select countries in the coming months. There are no current details about pricing at the time of writing. Read more: Samsung invests \$300 million in online car fund fund

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