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Türkiye Grants First-Ever Authorization for LEO Satellite IoT Services

Plan-S, the manufacturer and operator of Türkiye's first and only Low Earth Orbit (LEO) satellite constellation, has been authorized through its subsidiary Connecta from the Information and Communication Technologies Authority (BTK) to provide satellite-based Internet of Things (IoT) communication services in Türkiye.

Connecta Communication Services Inc., a subsidiary of Plan-S, has been authorized by the Information and Communication Technologies Authority (BTK) to provide satellite-based services. These services will be delivered through **Connecta IoT Network**, which is designed and manufactured in-house, with over 90% of its sub-systems developed internally. These developments mark the first time a LEO satellite operator has been authorized in the country, underscoring both Plan-S's leadership and Türkiye's growing role in global space communications.

A Homegrown Constellation

Plan-S oversees every stage of its satellite development in-house, from design and production to testing and integration, and has launched 17 satellites since its founding in 2021. Its **Connecta IoT Network**, currently operating 12 satellites, will expand to 200 in the coming years. With the growing constellation, Plan-S will provide global coverage along with enhanced service capacity and quality. Under this new authorization, the company will deliver satellite-based IoT communication services in Türkiye via its **Connecta IoT Network** constellation.

Expanding IoT Services and Application Areas

This authorization paves the way for IoT services across industries such as agriculture, energy, logistics, mining, water management, and disaster responses, particularly in regions where terrestrial networks are limited or unavailable. Leveraging LoRaWAN-based technology for low-power connectivity, the Connecta IoT Network ensures scalable, energy efficient, cost-effective, interoperable, secure and reliable data transmission for both fixed and mobile applications. From the farthest reaches of the seas to rural communities and remote sites, IoT data can now flow seamlessly. Moreover, the company has incorporated 3GPP standard-based



NB-IoT technology into its roadmap to enable seamless coverage for networks built on 3GPP standards, with the first satellites supporting this technology scheduled for launch next year. This positions the company as the first satellite operator to deliver IoT services based on both NB-IoT and LoRaWAN, two of the most widely adopted technologies for IoT services in the terrestrial domain.

Global Market Access and Strategic Positioning

The company has already advanced its global market strategy with authorization in Australia. This new authorization from Türkiye now acts as a catalyst for further global expansion, reinforcing the Plan-S's position as a strategic player in satellite-based IoT communications.

Vision for the Future

In addition to IoT, Plan-S is developing its Observa constellation to deliver high-resolution Earth observation and advanced data analytics. By 2030, the company aims to operate more than 200 satellites, building a comprehensive and independent space infrastructure to serve industries worldwide.

Plan-S CEO Özdemir Gümüşay commented on the milestone: *"Being recognized as Türkiye's first authorized LEO satellite operator is a historic turning point, not only for our company, but also for our nation's space and satellite communications ecosystem,"* said **Özdemir Gümüşay, CEO of Plan-S**. *"At a time when the global satellite industry is undergoing profound transformation and countries are reshaping their strategies, this achievement marks an important step forward for Türkiye. Beyond enabling us to deliver IoT services at home, this authorization will significantly accelerate our investments in next-generation, strategic satellite communication technologies for international markets."*

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About Plan-S:

Plan-S is a technology company founded in Ankara in 2021 that develops next-generation satellite and space technologies. It meets its customers' satellite-based needs in the fields of IoT communication, earth



observation, remote sensing, and space solutions through constellations of satellites operating in low Earth orbit.

Plan-S's satellite-based IoT communication network, **Connecta IoT Network**, provides low-power, cost-effective, and reliable connectivity in areas where terrestrial infrastructure is insufficient. This system, which connects millions of devices in sectors such as energy, agriculture, infrastructure, and logistics, is currently in active use.

Plan-S also aims to provide accessible data solutions for environmental monitoring, disaster management, and decision support processes in agriculture with its Earth observation satellites, called **Observa**.

Plan-S develops its satellite platforms, payloads, and software with its own engineering team and manages global data communication through its ground stations in Ankara, Erzurum, and Sweden. Having successfully launched 17 satellites to date, the company aims to establish a large satellite constellation network consisting of hundreds of satellites by 2030.

Plan-S aims to contribute to a more connected and intelligent future by bringing Turkey's domestic and national space technologies together with globally competitive solutions.