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TrackNet Announces TrackCentral LoRaWAN Network Server

New TrackCentral network server delivers performance metrics that are important for a hybrid inside-out LoRa IoT Network deployment by cable operators and service providers.

Sunnyvale, Calif., June 14, 2017 – [TrackNet](http://TrackNet.com), Inc., a cutting-edge LoRaWAN Internet of Things (IoT) solutions provider for LoRaWAN, and developer of the all-in-one smart-home and monitoring solution “Tabs,” today announced its new “TrackCentral” LoRaWAN Network Server.

TrackCentral is optimized for hybrid “inside-out” LoRa Internet of Things (IoT) network deployments that need to track tens of millions of gateways and billions of sensors.

Hybrid Inside-Out LoRa Networks

Many LoRaWAN networks have been deployed on third-party tower infrastructure, which is optimal for achieving broad coverage. But, these networks are burdened with a high associated operational expense for the tower rental, making it prohibitive to achieve the low-cost network deployment that is needed to enable many IoT applications.

With the hybrid “inside-out” deployment model, which is being pursued by and is a natural fit for many cable operators and service providers, a network can include multiple different types of LoRa gateways including in-home and in-building gateways. The result is more complete coverage at a much lower network deployment cost. With this type of deployment model, scalability of the network server is key because each server must handle tens of millions of gateways and billions of devices compared to tens of thousands of gateways in a tower-based deployment model.

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TrackCentral Designed for Hybrid Inside-Out Networks

TrackCentral is TrackNet's new LoRaWAN network server specifically architected and developed to meet all the requirements of hybrid inside-out deployments that feature an extremely large number of gateways in the network. TrackCentral's multi-dimensional scale-out capabilities have been proven in TrackNet's own complex simulation environment and load generator.

"The hybrid inside-out deployment model can easily be leveraged by the cable MSOs and service providers to roll out networks quickly and with an optimal cost structure to ensure long term success in the IoT sector," said Hardy Schmidbauer, TrackNet co-founder and CEO.

TrackCentral is also developed and tested for in multi-tenancy, security, and flexibility, which, next to scalability, are essential features to be supported in the core network-server design. Multi-tenancy among network operators and application owners is key in separating the network operator of the network from the users of the network by not granting the operator access to any application-level plain data or application keys.

Furthermore, in a large-scale IoT LPWAN deployment, many different applications and network users must be accommodated. Certain applications will demand dedicated infrastructure with multiple points of redundancy, while other non-critical applications can easily run on shared infrastructure.

Adaptive data rates (ADR) are also a key feature of LoRaWAN, which enables scalability of the network capacity and long battery lifetime. In view of the potentially high diversity in applications and device populations, though, flexibility and modularity in core network server components such as ADR with potentially different algorithms for different applications, device types, or device populations is essential to ensure optimal performance of large-scale networks.

"We've utilized our deep knowledge of the LoRaWAN protocol to engineer TrackCentral to accommodate a wide variety of hubs and gateways," said Thorsten Kramp, CTO of TrackNet and co-author of the LoRaWAN specification. "We anticipate that inside-out networks will grow very quickly once they get started and TrackCentral offers seamless scale out for service providers."

Availability

TrackCentral has been in customer trials for several months and will be generally available as of July 2017. Contact sales@tracknet.io for more information about the server.

About TrackNet

TrackNet provides highly scalable LoRaWAN IoT solutions for consumers and industry, focusing on ease of use and multi-dimensional scalability to enable a new era of exponentially growing LPWAN deployments for a sustainable world. The company's first commercial consumer product is the all-in-one smart-home monitoring system "Tabs," which demonstrates TrackNet's ability to develop end-to-end solutions including sensors, gateways, network server and apps with optimized user experience. With the release of "TrackCentral," TrackNet increases significantly its footprint into the infrastructure of large-scale LoRaWAN deployments based on the hybrid inside-out model. The company is a contributing member of the LoRa Alliance and the TrackNet team has been instrumental in specifying, building, and establishing LoRaWAN and the LoRa Alliance for more than five years. TrackNet has offices in Switzerland and California, USA and is looking to build a talented, passionate team to realize IoT and LPWAN applications. More information is at www.tracknet.io.