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Comtain 5G Positioning Engine

5G Positioning Engine (Location Management Function, LMF)
for accurate network positioning in Private Networks

The Comtain 5G Positioning Engine is a location calculation engine that enables a 5G Location Management Function (LMF) in Druid Software's core 4G/5G platform Raemis targeted for Private Networks. The LMF is a cutting-edge solution for precise indoor and outdoor positioning. Utilizing the high-speed and low-latency capabilities of 5G networks, this function provides accurate location information in real-time, making it ideal for a wide range of applications.

The Comtain 5G Positioning Engine features:

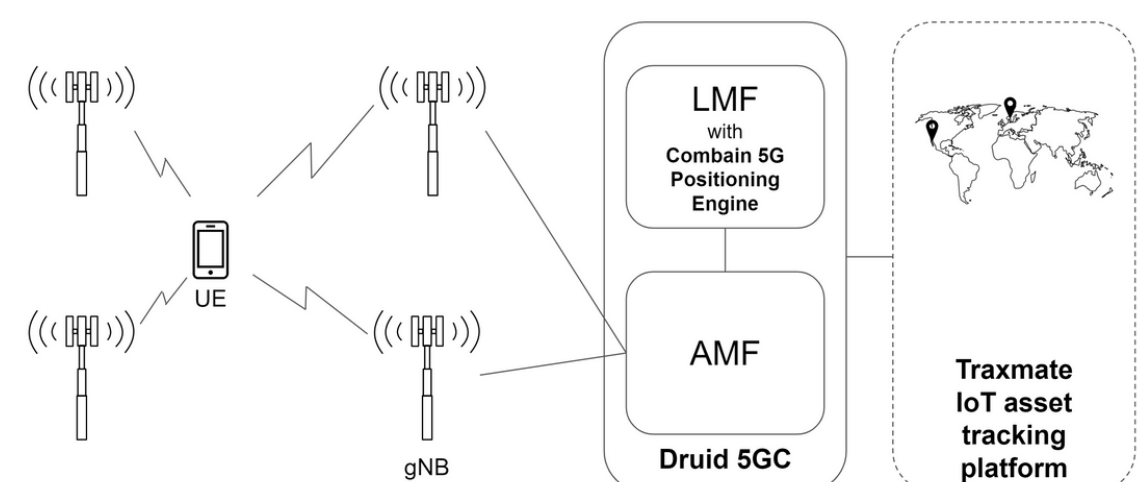
- **Precise Location:** The LMF provides accurate location information in real-time, with an average accuracy of less than 1 meter. This makes it suitable for use in indoor and outdoor environments, providing precise location tracking for people, vehicles, and assets.
- **Low Latency:** With 5G networks, the LMF provides real-time location information with extremely low latency, making it ideal for use in real-time applications such as vehicle tracking and safety alerts.
- **Increased Capacity:** The LMF has the ability to support a large number of devices and users, making it suitable for use in large-scale deployments such as smart cities, campus networks, and industrial parks.
- **Integration with Other Systems:** The LMF can, through Druid's Raemis platform, easily be integrated with other systems, such as inventory systems, existing location-based services, providing a seamless user experience. Comtain also offers an IoT asset tracking system, Traxmate, to create a complete asset tracking solution for Private Networks. Read more at www.traxmate.io.
- **Global Positioning Option:** If the devices are roaming outside the private network, the LMF can seamlessly track all the devices globally using Comtain's global positioning.

5G LMF

Private Network Location Applications:

- **Asset Tracking:** The LMF is ideal to track the location of assets such as containers, equipment, and inventory in real-time.
- **Industry 4.0:** The LMF can be used in industrial parks to track the location of vehicles and assets, improving efficiency.
- **Security & Emergency Services:** The LMF can be used by security personnel, to locate people and assets in real-time for improved safety.
- **Campus Networks:** The LMF can be used to create smart campuses, providing real-time location information for vehicles, people, and assets, and enabling the creation of new location-based services.

Overall, the LMF plays a crucial role in 5G networks, as it enables a variety of location-based services and supports the efficient management of a device's location. The 5G positioning engine will also support 4G positioning as part of the E-SMLC in Druid's Raemis 4G core platform. In 4G, the accuracy is in the 50m range.



Comtain 5G LMF
in partnership with

Druid