ENENSYS

Critical Communications at Scale

SubTitle

ENENSYS Critical Communications Solution, based on multicast technology, guarantees safety of life and maximum operational efficiency, allowing first responders and other critical users to communicate under any conditions.

ENENSYS

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Highlights

No Network in Case of Massive Use of The Service?

Your organization manages a critical communication network. Everything runs perfectly well as long as there is no major event. But what happens when a major issue occurs? Network saturation, denial of service, delays in safety group arrival? Human lives are at stake when using a unicast technology unable to handle a large number of simultaneous users in a group call.

To avoid catastrophic consequences, ENENSYS has easy-to-deploy solutions that allow you to support an unlimited number of users in the same group call without having to oversize your network.

Overpriced Ruggedized Smartphones?

Nowadays, any public organization has to focus on spending taxpayers' dollars in the most appropriate way. Equipping all First Responders with ruggedized business devices is extremely expensive.

By using ENENSYS CubeAgent™, you can equip only those First Responders requiring ruggedized terminals (firemen, police officers) and all the others with commercial smartphones (paramedics, nurses, logistics) and still offer the exact same level of critical communication services.

Out-of-Sync Messages?

Nowadays, even small incidents imply large groups of first responders: Police (on the road or in the air), Fire Departments, ambulances, and possibly gas or electricity suppliers, and more. But network dimensioning was agreed years ago. Today, the more people you have in the same group call, the greater the time lag between the first person to receive the voice message and the last. This lag creates unnecessary alerts, limiting the number of responders for other incidents, or requiring over-investment. ENENSYS CubeAgent™ helps to deliver critical messages simultaneously to all First Responders so they can provide just-in-time and right-size services.

## Hassle of Multiple Apps Validation on Different Phones?

Your critical service agents are equipped with a large array of phones, bought year after year, from different brands and generations. On top of this, they use a large variety of communication apps, that may not be interoperable with each other. How can you unify the service without resetting everything every 3 months?

Thanks to ENENSYS CubeAgent™, you can rely on a unique Middleware that allows you to use the same application on all your phones, whether they are Ruggedized Devices or commercial smartphones (e.g. Samsung S21, S22...).

Voice-only Group Calls, Without Photos or Videos?

Having the most accurate information as soon as possible is key in critical communications. We all know a picture is worth a thousand words, and a video perhaps a million. It can take fewer than a dozen people in a video group call to make the network become saturated or even collapse. How can you share valuable information (pictures, maps or videos) to improve service and citizen protection?

ENENSYS has solutions to optimize the network and use the bandwidth for messages enriched with pictures or even video, without any extra CAPEX in the network itself!
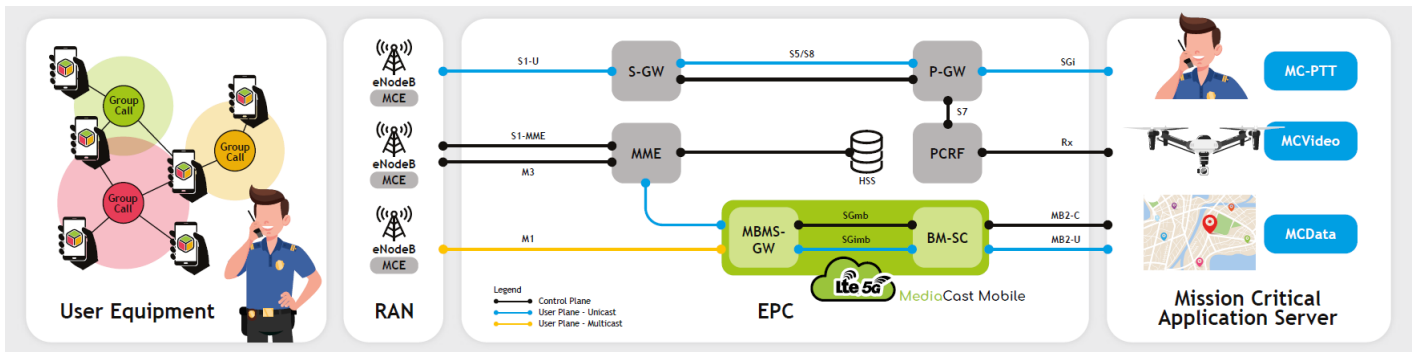
Architecture

Applications

Verticals

- Public Safety
- Transportation (Railways, Maritime, Logistics,...)
- Utilities (Electricity, Gas, Water,...)
- Extractive Industries (Mining, Oil & Gas,..)
- Private Networks (Industry, Enterprise,...)

Applications

- Mission Critical Push-To-Talk
- Mission Critical Data (File Download , Over the Air Updates)
- Mission Critical Video (Broadcast video quality to unlimited users)
- Real-time messaging
- Video Surveillance Camera broadcast to all devices

Technical features

- **Extreme Scalability**: eMBMS serves thousands of users in a dedicated area
- **Highly reliable and secure**: better quality of reception with eMBMS (vs unicast streams)
- **Synchronized Delivery**: all devices receive the same data at exactly the same time
- **Fast File Download**: eMBMS allows up to 2.5x faster file downloads in a semi-congested network
- **Improved Spectral Efficiency**: eMBMS is much more efficient than unicast even in the case of a small number of devices
- **Battery Saving**: MBMS reception consumes fewer resources, increasing battery lifetime
- **Future-Proof**: eMBMS can be implemented over commercial LTE or 5G networks