



Telia Smart Transport

VOIP: VOICE COMMUNICATION BETWEEN DRIVERS AND TRAFFIC MANAGEMENT



Improve communication between drivers and traffic management by adding VoIP voice communication to your vehicle. A screen, microphone and speaker are placed by the driver's seat, and the conversation can begin.

Call one or multiple drivers

Telia VoIP is an expanded messaging feature that helps traffic management communicate with drivers using voice.

In the Communication Central portal, traffic management can easily manage garages, filter posts, call buses or other contacts, and respond to incoming call requests from the drivers.

SOS with GPS

VOIP is ideally suited to be paired with the Driver's Alarm emergency alarm. The Driver's Alarm button indicates the GPS position of the vehicle while the driver is connected via the public telephone network to the alarm headquarters, which can listen in on the situation. Data from incoming alarms are then visible in the cloud-based portal.

KEY BENEFITS

- Improved communication between traffic management and drivers
- Quickly connect VoIP with an alarm button and GPS for increased security
- Remote software configuration
- User-friendly thanks to easy start-up and an intuitive portal

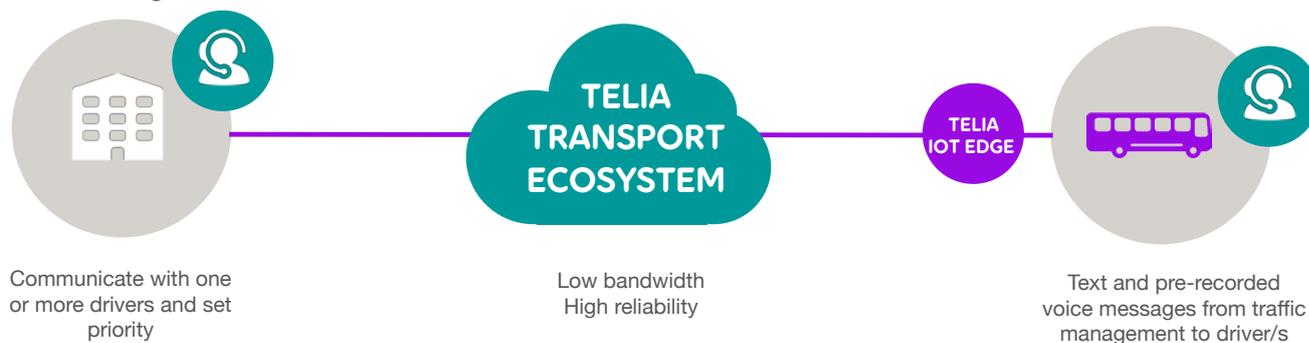


How does Telia VoIP work?

Voip is a service that runs on the Telia IoT platform and is connected via Telia IoT Edge; our powerful onboard edge processor and gateway. Telia IoT Edge delivers real-time data to drivers and to the cloud.

A Telia IoT Edge unit, touchscreen and communication equipment are installed in the vehicle. The robust 7" screen offers an advanced, user-friendly interface that enables interaction between drivers and traffic management. The driver can use the screen to respond to calls from the traffic management, or send a request for the traffic management to call the bus.

The Telia IoT Edge unit sends information over the mobile network via Telia's server, and the information then becomes accessible in your customer portal. The portal provides a good overview of garages, routes, vehicles, and call requests, etc. When a call request is received, traffic management may decide to call immediately or wait. Traffic management can call a vehicle directly or contact a specific trip and start a group call with multiple vehicles.



CONSOLIDATE YOUR IT SYSTEMS TO ONE OPEN PLATFORM

Telia IoT Edge is a powerful onboard edge processor and communication gateway. It is retrofittable and connects onboard systems and devices to the cloud. This makes it possible to download vehicle data, control, survey, update and configure IT-systems in the vehicle remotely. Telia IoT Edge combines robust, maintenance-free design with reliable and open software and application.

With an open platform, APIs and standards; you can easily integrate your own services – or add third party applications. So you can make the most of whatever the future brings.



TECHNICAL COMPONENTS

Onboard unit	Telia IoT Edge - MIIPS C
Touchscreen	MIIPS Android
Speaker	
Microphone	
Handset	
System	Call administered via VoIP PBX Asterisk (software-based switchboard)
Web interface	Communication central portal
Software:	CODEC for voice (enables Voice over IP)