

Securing the future of voice services in IoT

# Voice over LTE (VoLTE)

VoLTE stands for 'voice over LTE' and allows IoT devices to make voice calls over 4G (LTE) networks, rather than 2G or 3G. This is a crucial development, as 2G and 3G are in the process of sunseting, with some operators having already completed the shutting down of their 2G/3G networks. Through VoLTE, our customers can ensure that their devices and end-users will be able to continue using voice services. Another advantage of VoLTE is 4G-LTE's high-speed data connection, which can be used in parallel during voice calls.

With VoLTE, calls are transferred through mobile networks as data packets to an IMS (IP Multimedia Subsystem) platform. While it can handle pure VoLTE calls, it can also translate to 2G/3G voice calls that are sent over public phone networks to any phone number, e.g., to a call center.

## Use cases benefiting from VoLTE

VoLTE is relevant for any IoT customer with voice call needs. Established IoT use cases requiring voice services include:

- Home alarms
- Elderly alarms
- Connected car/fleet management
- Elevators
- Lone workers

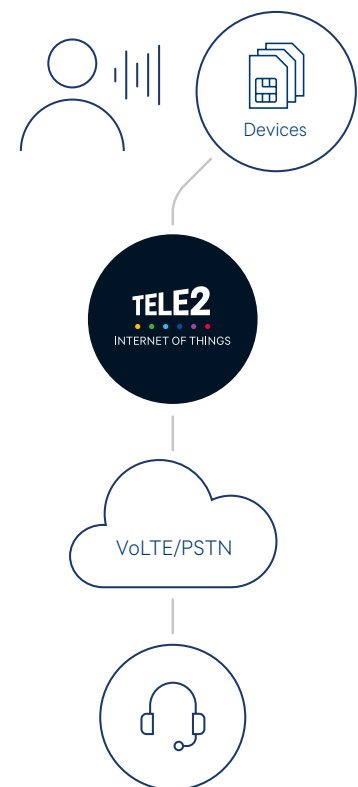
## VoLTE implementation at Tele2 IoT

VoLTE implementation will be done in two phases:

Phase 1 (2023):

- Available only for new SIM orders
- eUICC is used to migrate seamlessly to Phase 2
- eUICC device verification needs to be performed by Tele2 IoT
- Delivery only from Swedish MSISDNs
- VoLTE roaming in countries and operators according to Roaming Reach List
- Roaming restrictions cannot be configured through 2CONTROL (Cisco IoT Control Center)
- Fixed IP address not supported
- SMS to customer-specific short numbers not supported
- VoLTE-enabled SIMs will be provisioned in a separate 2CONTROL account
- VoLTE subscriptions deployed in Phase 1 solution will not contribute to any account level commitments that might be stipulated in the original FSA

## Solution Overview



## Benefits

Voice services without 2G or 3G networks

Better voice quality

No change in cost per minute

In Phase 2 (2024) the VoLTE solution will be expanded to include:

- Delivery of existing IoT SIMs with Swedish MSISDNs
- Fixed IP address
- SMS to customer-specific short-numbers
- Roaming restrictions configured through 2CONTROL (Cisco IoT Control Center)
- Single account in 2CONTROL (Cisco IoT Control Center)

#### **Availability and pricing**

Tele2 IoT offers VoLTE as an add-on service to all new SIM cards.

A specific virtual profile for VoLTE will be downloaded to the eUICC SIM card ordered. Your IoT device must go through eUICC device verification before deployment on a wide scale. The roaming reach of VoLTE will be continuously increased as new roaming partners are added.

**If you are interested in testing and evaluating our VoLTE service, please contact your sales representative or contact us at [info@tele2iot.com](mailto:info@tele2iot.com)**



Tele2 IoT



[www.tele2iot.com](http://www.tele2iot.com)