



NG112 Implementation

End to End Implementation Guidelines

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NG112 - Introduction

- What is NG112
- Why NG112
- Where are we now?

The perception of NG

Adding new capabilities to emergency **calls**, transforming them into **multimedia communications** (video, text, voice, geolocation, IoT, etc.)

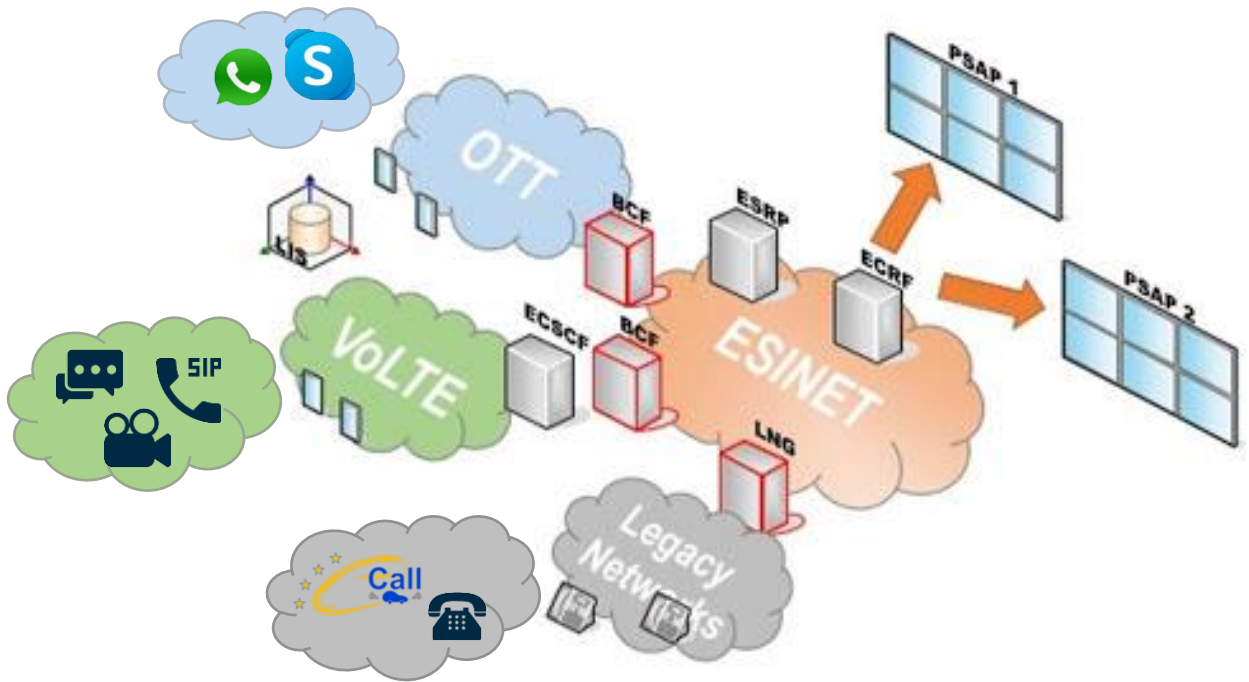
Provides new capabilities of intelligent routing for these new media types and intelligent delivery of them to the most appropriate destination(s)



NG112 as service enabler



Background



Citizens

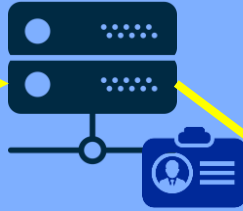
Carriers

Network routing

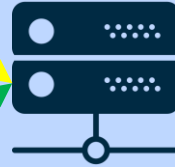
PSAPs



PSTN



GSM



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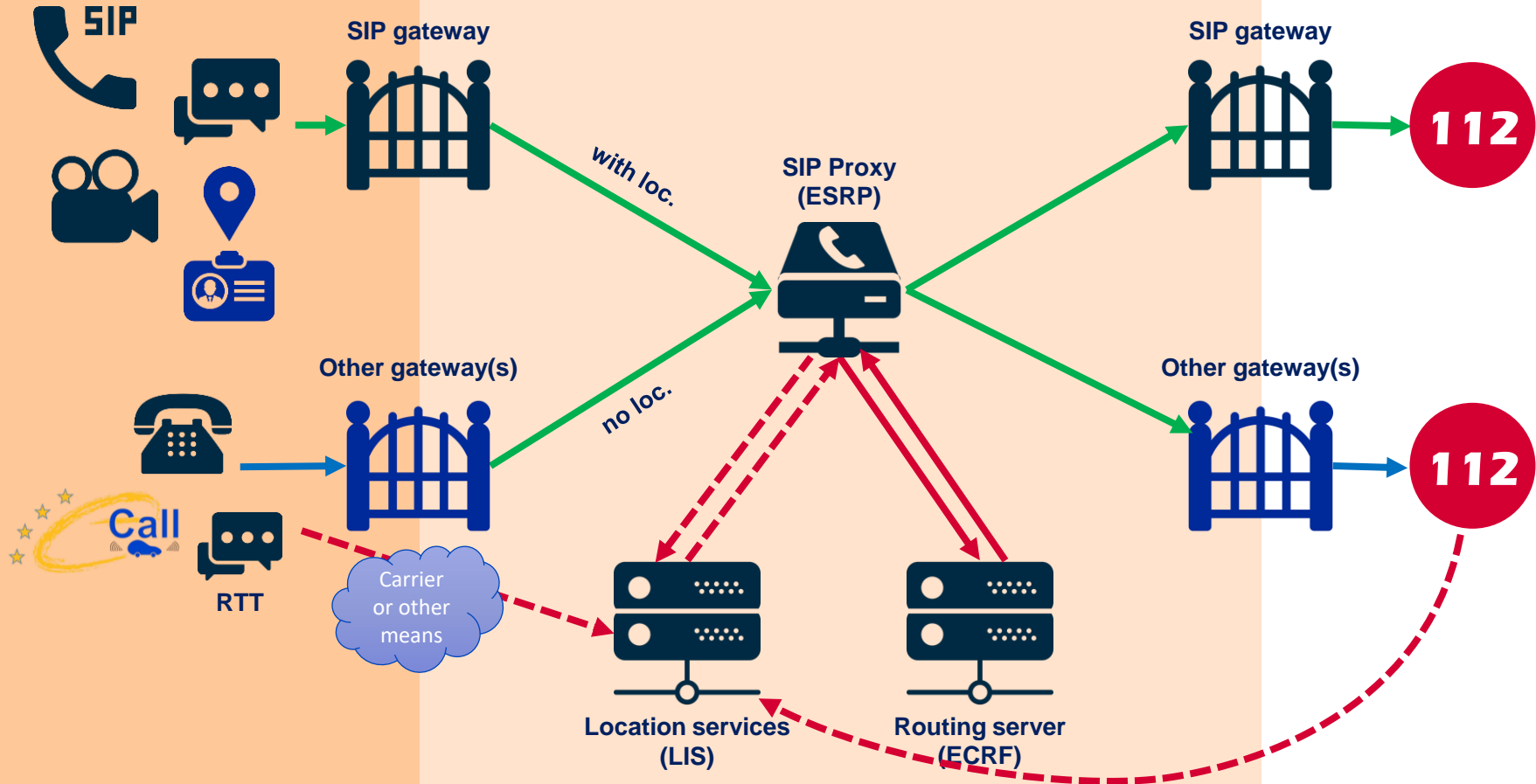


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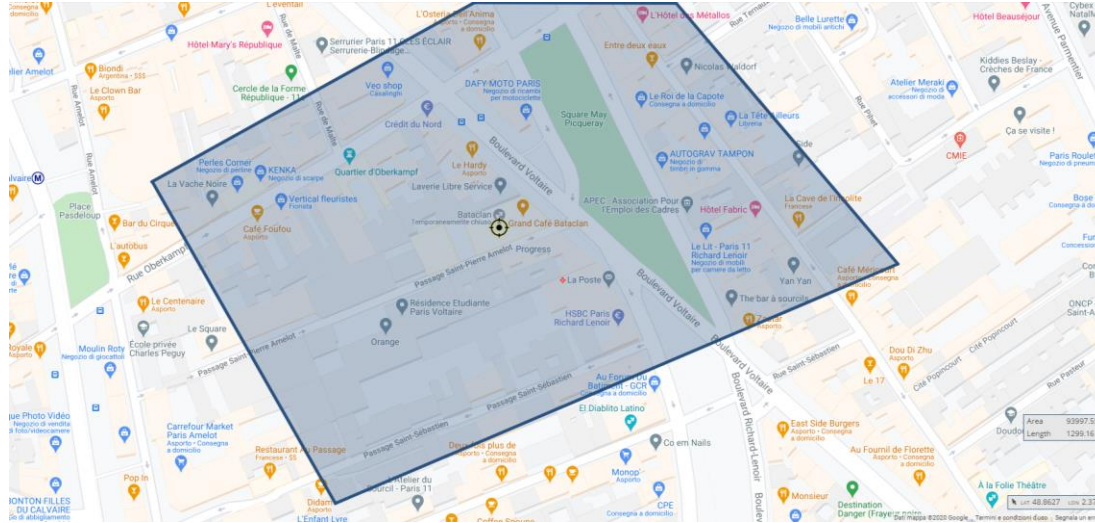
Citizens

ESInet

PSAPs



Examples of NG112 usage



Real-time definition of areas for call routing

emergency calls made inside the scene of a terrorist attack can be diverted to a temporary war room created for the occasion, **without overloading the regular 112 PSAP**

Examples of NG112 usage



TPS eCall provider and other private agencies

TPS eCall providers and other private agencies can send to PSAPs the true position of their customer, to be used for call routing, adding any metadata they possess and allow direct car recall for the 112 Agent.

TPS eCall

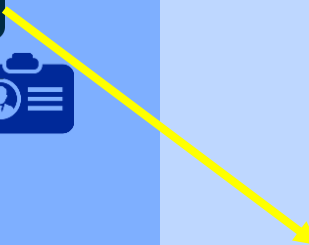
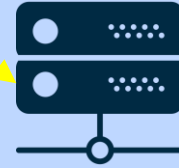
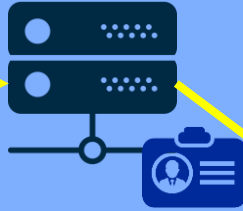
Carrier

Network routing

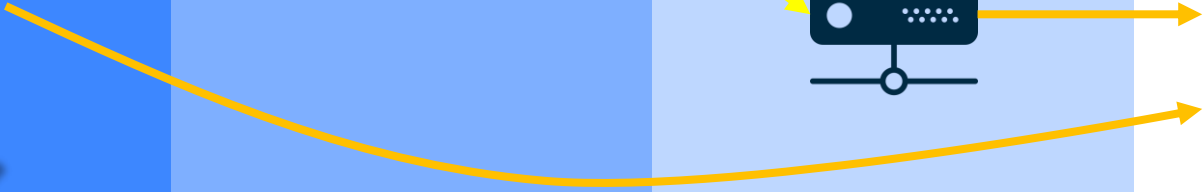
PSAPs



PSTN



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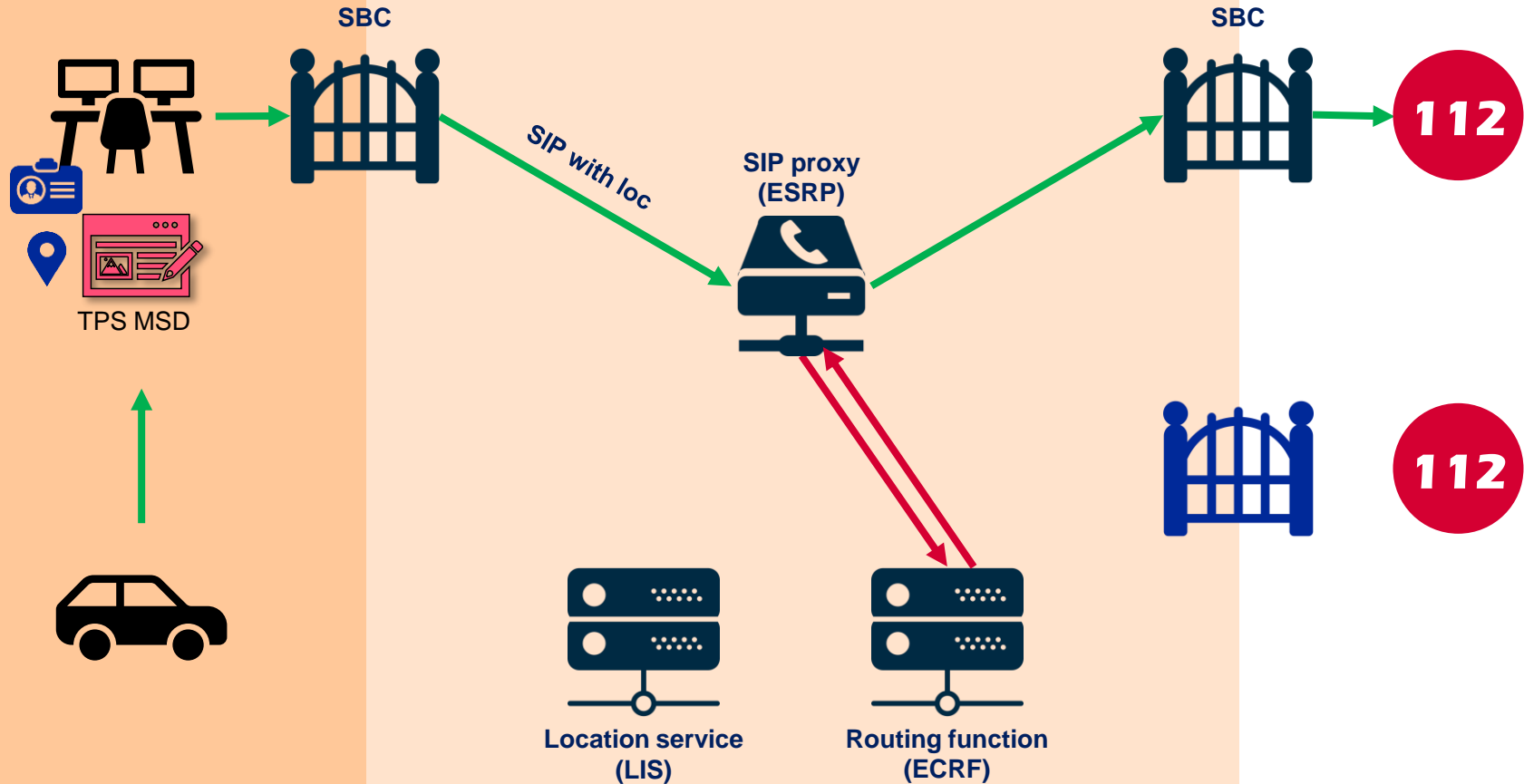
TPS MSD



TPS eCall

ESInet

PSAPs



Examples of NG112 usage



Real-time policy-based routing

Routing policies based on daytime, date of the year, geolocation, language, weather conditions, etc. **can be created/modified in real time**

Examples of NG112 usage



Detailed indoor geolocation

Companies adopting VoIP carriers could deliver **precise indoor geolocation** information, specifying where the emergency call is coming from

The situation of NG112 in Europe



- EENA publishes the Long-Term Definition document, based on the NENA i3 architecture.
- ETSI and EENA organize the first European plugtest event, with 15 industry participants and 5 observer entities.
- ETSI and EENA return for the second plugtest event. 15 industry participants, 2 observer agencies.
- Romania publishes a RFP for the renovation of the National 112, requesting an ESInet according to the EENA LTD document.
- The third plugtest event takes place at ETSI, with 12 industry participants.
- The French Digital Agency publishes a RFI for the definition of a nation-wide ESInet platform for the upgrade of the existing 112 service.
- ETSI publishes the standardization document TS 103 479 V1.1.1, which describes the ESInet components
- EENA publishes reports of three pilot projects involving an ESInet deployment, including cross-border IP multimedia scenarios.
- Republic of Northern Macedonia issues a RFP for the upgrade of the National 112 system, including a requirement for the delivery of NG112 components.