



# Emergency SOS via Satellite

BEREC Workshop on the Usage of Satellite Technologies in Mobile Communications, 22 May 2024

# Emergency SOS via Satellite iPhone 14 Announcement

- 7 September 2022 Apple Event announced new Emergency SOS via Satellite feature in iPhone 14
- Allows iPhone 14 and iPhone 15 to connect directly to a satellite, enabling messaging with emergency services when outside of cellular or Wi-Fi coverage.
- Also allows users to manually share their location over satellite with Find My when there is no cellular or Wi-Fi connection, providing a sense of security when hiking or camping off the grid.
- Service provided over Globalstar's NGSO MSS network
- Now available in 12 European countries



# Emergency SOS via Satellite Regulatory Status

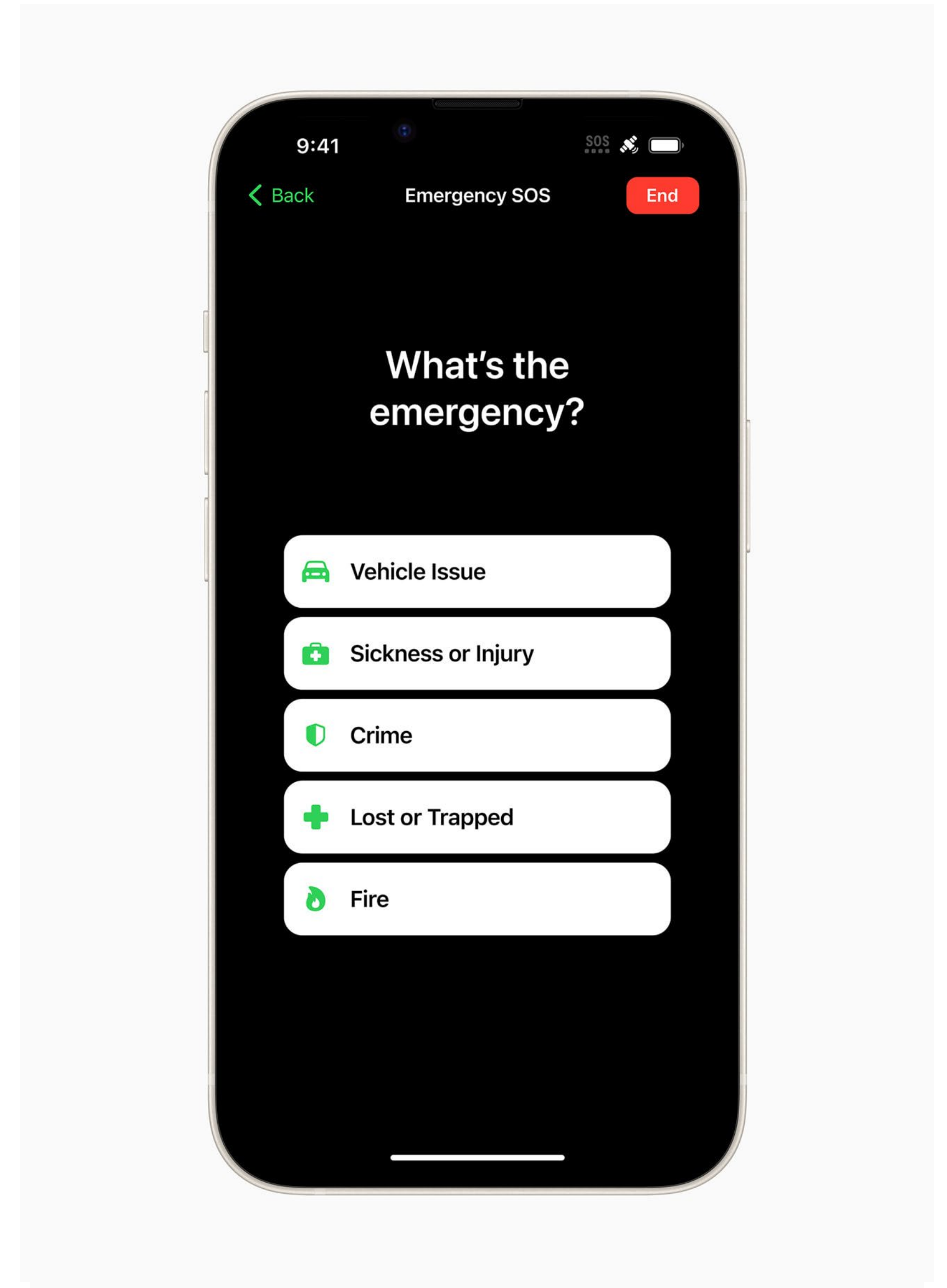
- Emergency SOS via Satellite service fully compliant with existing allocations and MSS licensing rules
- iPhone 14 and 15 are tested to all relevant MS and MSS standards
- Service operates in compliance with ECC/DEC(09)02 covering 1.6/2.4 GHz MSS terminals
- Feature will be disabled in countries where Globalstar service is not authorized

# Network diagram



# Emergency SOS via Satellite User Interface

- Emergency SOS via satellite includes a simple questionnaire to help quickly assess a user's situation and relay vital information directly to the PSAP where Text to emergency services is supported, or to ground stations staffed by Apple-trained specialists when it is not.
- Since every second counts, iPhone will show the user where to point their phone to connect to — and stay connected with — a satellite while they message with emergency services.



# Emergency SOS via Satellite iPhone 14 videos



<https://youtu.be/V35jHAkpUIk>



<https://youtu.be/41EdCXjotmo>

# Regulatory Challenges

## Satellite direct-to-device

1. Protecting existing terrestrial mobile networks is a priority for Apple as we explore complementary satellite usage
  2. Global roaming of iPhones – we need to ensure our customer can travel worldwide with their devices – in certain countries this is very challenging
  3. Transitioning from terrestrial to satellite networks smoothly with a high quality of service that our customers expect without causing interference
  4. Cross-border coordination and ensuring compliance with countries that do not authorize satellite usage
- We believe WRC-27 AI 1.13 is an opportunity to create a global framework for handsets that provides a platform to investigate solutions to these challenges

