Emergency SOS via Satellite
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

- iPhone
- Satellite (Globalstar)
- Ground station
- Relay center
- Emergency services
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

How to Use Emergency SOS via satellite on iPhone 14 and iPhone 14 Pro

https://youtu.be/V35jHAKpUIk

Introducing Emergency SOS via satellite

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