



US 20230232188A1

(19) **United States**

(12) **Patent Application Publication**  
**Pereira et al.**

(10) **Pub. No.: US 2023/0232188 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **TECHNIQUES FOR REGISTERING AN  
INTERNET PROTOCOL (IP) ENDPOINT FOR  
EMERGENCY SERVICES CALLING**

(52) **U.S. Cl.**

CPC ..... *H04W 4/029* (2018.02); *H04M 7/0075*  
(2013.01); *H04W 4/14* (2013.01); *H04W 4/20*  
(2013.01); *H04W 76/50* (2018.02)

(71) Applicant: **Bandwidth Inc.**, Raleigh, NC (US)

(57)

**ABSTRACT**

(72) Inventors: **Daniel Pereira**, Bolivia, NC (US);  
**Larry Reeder**, Denver, CO (US);  
**Lydia Runnels**, Cary, NC (US); **Adam  
Covati**, Durham, NC (US)

Techniques are described for obtaining current location data for a non-traditional telephony endpoint for emergency calling purposes. An emergency services (ES) provider receives, from a telephony server responding to a telecommunication session establishment request from a telephony endpoint, a location registration request, the location registration request including telephony endpoint identification information and a mobile device telephone number. The ES provider may send a short message service (SMS) message to the mobile device telephone number, the SMS message including an executable registration link that when executed on a mobile device receiving the SMS message causes the mobile device to retrieve location data of the mobile device. The ES provider may then receive the current location data from the mobile device and store it and the telephony endpoint identification information for subsequent use should a 911 call be made from that telephony endpoint. The ES provider may then send the telephony server an authorization acknowledgement for the telecommunication session establishment request.

(21) Appl. No.: **18/118,896**

(22) Filed: **Mar. 8, 2023**

**Related U.S. Application Data**

(63) Continuation of application No. 17/576,368, filed on Jan. 14, 2022, now Pat. No. 11,632,655.

**Publication Classification**

(51) **Int. Cl.**

*H04W 4/029* (2018.01)  
*H04M 7/00* (2006.01)  
*H04W 4/14* (2009.01)  
*H04W 4/20* (2018.01)  
*H04W 76/50* (2018.01)

