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(19) **United States**(12) **Patent Application Publication****Gundavelli et al.**(10) **Pub. No.: US 2023/0232216 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **ON-BOARDING 5G ROUTERS TO PRIVATE 5G NETWORK****H04W 12/06** (2006.01)**H04L 61/4511** (2006.01)(71) Applicant: **Cisco Technology, Inc.**, San Jose, CA (US)(52) **U.S. Cl.**CPC **H04W 8/265** (2013.01); **H04W 8/183** (2013.01); **H04W 12/06** (2013.01); **H04L 61/1511** (2013.01); **H04W 84/042** (2013.01)(72) Inventors: **Sri Gundavelli**, San Jose, CA (US); **Timothy P. Stammers**, Raleigh, NC (US); **Eren Kudsi Gonen**, Saratoga, CA (US); **Bobby Wayne Hoosang Richardson**, Torrance, CA (US)

(57)

ABSTRACT

Systems, methods, and computer-readable media are provided for on-boarding network devices onto a private 5G network. An example method can include discovering a first private 5G network upon the network device being turned on, authenticating, at the network device, the network device, downloading a second network profile from an SM-DP+ server of a second private 5G network, and on-boarding the network device to the second private 5G network.

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