



US 20230232204A1

(19) **United States**

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

(10) **Pub. No.: US 2023/0232204 A1**

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

(54) **SERVICE AUTHORIZATION**

**Publication Classification**

(71) Applicant: **Ofinno, LLC**, Reston, VA (US)

(51) **Int. Cl.**

**H04W 8/18** (2006.01)

**H04W 28/02** (2006.01)

**H04W 64/00** (2006.01)

(72) Inventors: **Jinsook Ryu**, Oakton, VA (US);  
**Esmael Hejazi Dinan**, McLean, VA  
(US); **Kyungmin Park**, Vienna, VA  
(US); **Peyman Talebi Fard**, Vienna, VA  
(US); **Taehun Kim**, Fairfax, VA (US);  
**Weihua Qiao**, Herndon, VA (US)

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

CPC ..... **H04W 8/18** (2013.01); **H04W 28/0236**  
(2013.01); **H04W 64/006** (2013.01)

(73) Assignee: **Ofinno, LLC**, Reston, VA (US)

(57)

**ABSTRACT**

(21) Appl. No.: **18/105,115**

(22) Filed: **Feb. 2, 2023**

**Related U.S. Application Data**

(63) Continuation of application No. PCT/US2021/  
044757, filed on Aug. 5, 2021.

(60) Provisional application No. 63/061,754, filed on Aug.  
5, 2020.

A control plane function receives subscription information indicating that a wireless device subscribes to a service. The control plane function receives, from an authorization server, an authorization for the service of the wireless device. The control plane function sends, to a base station, one or more messages indicating an activation of one or more radio access network functions related to the service of the wireless device, based on the subscription information indicating that the wireless device subscribes to the service and the service being authorized.

