

# (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2023/0232297 A1

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

## (54) CELLULAR TELECOMMUNICATIONS **NETWORK**

(71) Applicant: BRITISH

TELECOMMUNICATIONS PUBLIC LIMITED COMPANY, London (GB)

(72) Inventor: Richard MACKENZIE, London (GB)

(21) Appl. No.: 18/002,160

(22) PCT Filed: May 11, 2021

PCT/EP2021/062479 (86) PCT No.:

§ 371 (c)(1),

Dec. 16, 2022 (2) Date:

#### (30)Foreign Application Priority Data

Jun. 18, 2020 (GB) ...... 2009339.9

### **Publication Classification**

(51) **Int. Cl.** 

H04W 36/08 (2006.01)H04W 36/16 (2006.01)

# (52) U.S. Cl.

CPC ...... H04W 36/08 (2013.01); H04W 36/165 (2013.01)

#### (57)ABSTRACT

This disclosure provides a method in a cellular telecommunications network, wherein the cellular telecommunications network includes a first transceiver providing a first access connection in a first spectrum range, and a second transceiver providing a second access connection in a second spectrum range, the method including determining that a trigger condition for reconfiguring the second transceiver has been met; and, in response, evaluating a plurality of candidate transition options, wherein each transition option includes transferring users from the second spectrum range to the first access connection, and, following the transferring, reconfiguring the second transceiver, wherein the evaluation is based on a user impact of the transition; selecting a transition option based on the evaluation; causing the transfer of users from the second spectrum range according to the selected transition option; and causing the reconfiguration of the second transceiver according to the selected transition option.

