

Title (en)

TRAFFIC SHAPING AT THE DU/CU TO ARTIFICIALLY REDUCE THE TRAFFIC LOAD ON THE RADIO RECEIVER

Title (de)

VERKEHRSFORMUNG AN DU/CU ZUR KÜNSTLICHEN VERRINGERUNG DER VERKEHRSLAST AUF DEM FUNKEMPFÄNGER

Title (fr)

MISE EN FORME DE TRAFIC AU NIVEAU DU/CU POUR RÉDUIRE ARTIFICIELLEMENT LA CHARGE DE TRAFIC SUR LE RÉCEPTEUR RADIO

Publication

EP 4190068 A1 20230607 (EN)

Application

EP 21849883 A 20210629

Priority

- US 202016945131 A 20200731
- US 202016945196 A 20200731
- US 2021039580 W 20210629

Abstract (en)

[origin: WO2022026102A1] Systems and methods are provided for adaptive channel and traffic shaping management in a network including configuring an element management control unit comprising a set of distribution (DU) and central units (DU/CU) for monitoring power and channel traffic at a plurality of cell sites in a network; transmitting and receiving by a scheduler unit, data traffic data of user equipment (UE); receiving control data, by the scheduler unit, about congested network channels in Uplink (UL) and downlink (DL) transmissions from the UE; applying channel management solutions, by the scheduler unit, at a cell site to choke off congested channels via a schedule schema based on the control data about the traffic amounts on a channel; applying, by a control unit coupled to the scheduler unit to manage network traffic at the cell site, adaptive traffic management solutions to shape network data traffic on select channels based on the control data of traffic type on the channel; and iteratively applying, by the control unit, the channel and traffic management solutions at the cell site based on data received by the DU/CU of the power and channel traffic condition.

IPC 8 full level

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CPC (source: EP US)

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