Title (en)

COMPATIBLE CHANNEL FOR EFFICIENT COEXISTENCE OF VOICE AND DATA TRAFFIC

Title (de)

KOMPATIBLER KANAL FÜR EFFIZIENTE KOEXISTENZ VON SPRACH- UND DATENVERKEHR

Title (fr)

CANAL COMPATIBLE POUR COEXISTENCE EFFICACE DE TRAFIC VOIX ET DONNÉES

Publication

EP 2638765 A1 20130918 (EN)

Application

EP 11779301 A 20111024

Priority

- GB 201018935 A 20101109
- US 2011057443 W 20111024

Abstract (en)

[origin: GB2485355A] Speech and data packets are communicated during a timeslot of a quasi-circuit mode channel of a data physical channel. The timeslot may contain multiple calls, allowing simultaneous call monitoring. The quasi-circuit mode channel may have a periodicity in which the same timeslot in adjacent frames may not be occupied. Additional bandwidth may provide end-to-end encryption synchronisation, signaling, or data and may or may not be intended for receivers involved in any of the calls. A lower layer header, such as a MAC header, at the start of the time slot (prefix) identifies the timeslot as belonging to the channel, as being compatible with timeslots on a data channel and contains indicators to indicate information in the timeslot is intended for a device not taking in part in any call in the timeslot. Each call also contains a unique header that indicates call information for the call including whether data is contained in the timeslot. Uplink and downlink channels are allocated separately. When a call or speech item is terminated, the data physical channel is monitored for follow-on call-related signalling. Suitable for a TErrestrial Trunked RAdio (TETRA) environment.

IPC 8 full level

H04W 76/02 (2009.01)

CPC (source: EP GB)

H04W 72/044 (2013.01 - GB); **H04W 74/04** (2013.01 - GB); **H04W 76/15** (2018.02 - EP GB); H04W 72/121 (2013.01 - EP); H04W 84/08 (2013.01 - EP); H04W 88/06 (2013.01 - EP)

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