

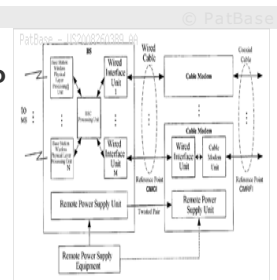
1) Family number: 34857787 (US2008260389 AA)

METHOD AND A SYSTEM FOR OPTIMIZING RADIO NETWORK LAYER TO IMPLEMENT THE NETWORK INTERCONNECTION, AND A METHOD FOR INTERCONNECTION BETWEEN THE RADIO NETWORK AND THE WIRED NETWORK

Abstract: Source: US2008260389 AA A method for optimizing a radio network layer to implement a network interconnection is provided. A radio network controller is divided into radio access network servers and wireless adapters configured in a base station. The wireless adapters are adapted to process related radio interface protocols, and are connected to an optical access network via an adaptation function. The radio access network servers and a core network are respectively connected to optical network units to implement the interconnection between an optical network and a radio communication network. Therefore, the single-point failure is effectively prevented, the flexibility and extensibility are improved, it is convenient for networking, and the network coverage is enlarged. It is suitable for the service development and radio access applications in the future, and facilitates the combination with the wired network.

Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Earliest Publication Date: 20070711



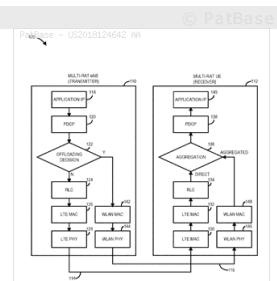
2) Family number: 64062594 (US2018124642 AA)

USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK

Abstract: Source: US2018124642 AA Briefly, in accordance with one or more embodiments, an apparatus of user equipment (UE) comprises circuitry to receive data transmissions as packet data convergence protocol (PDCP) packets from a radio bearer via two or more Radio Access Technologies (RATs). One or more PDCP packets are offloaded from a first RAT to a second RAT. The apparatus comprises circuitry to aggregate the received data PDCP packets, and report a status of the PDCP packets to the radio bearer.

Probable Assignee: INTEL CORP

Earliest Publication Date: 20161124



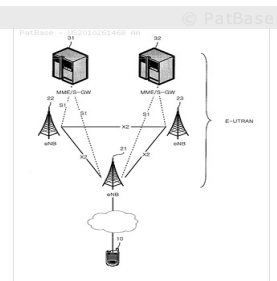
3) Family number: 46797774 (US2010261468 AA)

METHOD OF RECEIVING A POINT-TO-MULTIPOINT SERVICE IN A WIRELESS COMMUNICATION SYSTEM

Abstract: Source: US2010261468 AA The present invention relates to a wireless communication system and user equipment providing wireless communication services, and a method of transmitting and receiving data between a terminal and a base station in an evolved Universal Mobile Telecommunications System (UMTS) that has evolved from a Universal Mobile Telecommunications System (UMTS) or a Long Term Evolution (LTE) system, and more particularly, to a method of receiving a point-to-multipoint service data, and it may be an object of the present invention is to provide an improved method of receiving the point-to-multipoint service data in a wireless communication system in order to minimize a data loss by a reception entity.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20100707



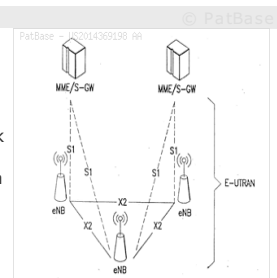
4) Family number: 53735751 (US2014369198 AA)

METHOD AND APPARATUS TO ROUTE PACKET FLOWS OVER TWO TRANSPORT RADIOS

Abstract: Source: US2014369198 AA A method includes receiving packets of a flow at a packet data convergence protocol layer; and based on at least one criterion, routing the flow to one or both of at least one cellular transport radio and a wireless local area network transport radio. Another method includes receiving at a packet data network gateway from an S 1 interface a dynamic host configuration protocol request for a station; one of creating an internet protocol configuration for the station or generating another dynamic host configuration protocol request to a dynamic host configuration protocol server to obtain the internet protocol configuration; and delivering the internet protocol configuration to the station. Apparatus for performing the methods are also disclosed, as are computer-readable program storage devices.

Probable Assignee: NOKIA TECHNOLOGIES OY

Earliest Publication Date: 20130516



5) Family number: 52536769 (US2014153390 AA)

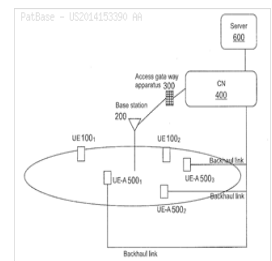
ENHANCED LOCAL ACCESS IN MOBILE COMMUNICATIONS

Abstract: Source: US2014153390 AA A hybrid user equipment and advanced user equipment data offloading architecture is provided. In this hybrid architecture, the advanced user equipment includes a backhaul link to a telecommunication network and/or the Internet. The user equipment can send and receive data through the advanced user equipment using the backhaul link.

Probable Assignee: NTT DOCOMO INC

Earliest Publication Date: 20121206





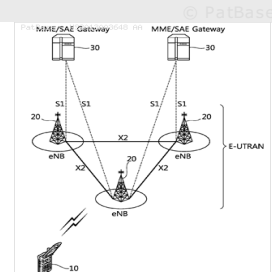
6) Family number: 49951905 (US2013003648 AA)

METHOD AND APPARATUS FOR PERFORMING HANDOVER PROCEDURE IN WIRELESS COMMUNICATION SYSTEM

Abstract: Source: US2013003648 AA A method and apparatus of performing a handover procedure in a wireless communication system is provided. The method includes receiving a handover request message from a relay node (RN), and determining whether a first X2 interface between the donor BS and a target BS is available or not.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20111117



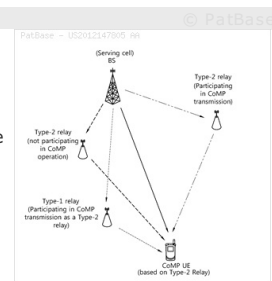
7) Family number: 46868161 (US2012147805 AA)

METHOD AND APPARATUS FOR MULTICELL COOPERATIVE COMMUNICATION

Abstract: Source: US2012147805 AA According to one aspect of the present invention, a method in which a relay performs multicell cooperative communication comprises the steps of: receiving scheduling information and data from a base station; receiving a bypass indicator from the base station; performing protocol layer processing on the scheduling information and data in accordance with the bypass indicator; and transmitting the processed data to a user equipment in accordance with the processed scheduling information, wherein said bypass indicator indicates that the protocol layer processing should be performed for only a portion of the protocol layer of the relay.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20100923



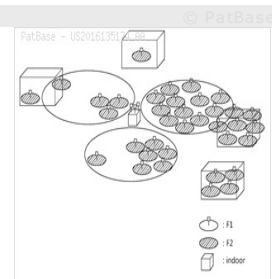
8) Family number: 58342655 (US2016135174 AA)

METHOD AND APPARATUS FOR MANAGING DATA RADIO BEARERS FOR DUAL CONNECTIVITY IN WIRELESS COMMUNICATION SYSTEM

Abstract: Source: US2016135174 AA A method and apparatus for establishing/modifying/releasing data radio bearers (DRBs) in a wireless communication system is provided. A master eNodeB (MeNB) in dual connectivity transmits a request message, which includes information on E-UTRAN radio access bearers (E-RABs) to be set up/modified/released, to a secondary eNB (SeNB) in dual connectivity through an X2 interface; and receives a response message, which includes radio resource control (RRC) connection reconfiguration related information based on the E-RABs to be set up/modified/released, as a response to the request message from the SeNB through the X2 interface.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20150122



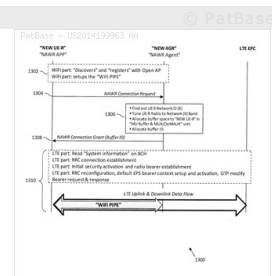
9) Family number: 56896398 (US2014199963 AA)

METHODS AND APPARATUS FOR A NETWORK-AGNOSTIC WIRELESS ROUTER

Abstract: Source: US2014199963 AA Apparatus and methods for a network-agnostic wireless router. In one embodiment, the network-agnostic wireless router is configured to provide an access tunnel (e.g., a so-called "Wi-Fi PIPE") via a first network (e.g., a Wi-Fi network), and convert the data payload for transfer over a second network (e.g., a LTE network). Since the wireless router provides an access tunnel and does not behave as a logical endpoint, the authentication, authorization, and accounting mechanisms are handled directly between the subscriber's identity module (e.g., SIM, USIM, CSIM, RUIM, etc.) and the network operator's authentication process (e.g., Authentication Center or AuC). The disclosed wireless router is free to support multiple different networks to provide access that is "agnostic" to the underlying subscriber device's network preferences.

Probable Assignee: NCORE COMMUNICATIONS INC

Earliest Publication Date: 20140717

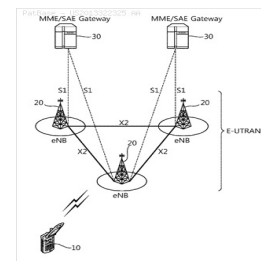


10) Family number: 52077731 (US2013322325 AA)

METHOD AND APPARATUS FOR PERFORMING HANDOVER PROCEDURE IN WIRELESS COMMUNICATION SYSTEM INCLUDING MOBILE RELAY NODE

Abstract: Source: US2013322325 AA A method and apparatus for performing a handover procedure in a wireless communication system including a mobile relay node is provided. A target evolved NodeB (eNB) receives a handover request message containing a list of a plurality of user equipments (UEs) on the mobile relay node or a group handover indication. The target eNB performs an admission control for the plurality of UEs; and transmits a handover request acknowledge message containing a list of admitted UEs for handover among the plurality of UEs.

Earliest Publication Date: 20121004



BEARER SIGNALLING MANAGEMENT

Earliest Publication Date: 20120713

A MOBILE NODEB (MNB)

Earliest Publication Date: 20140307

BASE STATION, RELAY STATION, AND BACKHAUL CONTROL COMMUNICATION METHODS THEREOF

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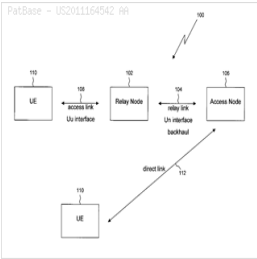
Earliest Publication Date: 20101223

CLOUD COMMUNICATION CENTER SYSTEM AND METHOD FOR PROCESSING DATA IN A CLOUD COMMUNICATION SYSTEM

Earliest Publication Date: 20120628

INTRA-DONOR CELL COORDINATED MULTI-POINT TRANSMISSION WITH TYPE 1 RELAY

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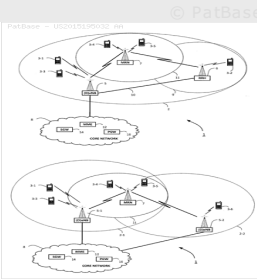
16) Family number: 51966776 (US2015195032 AA)

COMMUNICATION SYSTEM

Abstract: Source: US2015195032 AA The invention provides a relay node that can relay received data to one or more communications devices served by the relay node. The relay node has transceiver circuitry that transmits signals to and that receives signals from one or more remote transmission points and the one or more communications devices served by the relay node; and a communications control module for controlling the operation of the relay node such that in a first operating state the relay node is configured to receive data to be relayed, from a remote transmission point and such that in a second operating state the relay station is configured to receive data to be relayed, from a plurality of remote and separate transmission points.

Probable Assignee: NEC CORP

Earliest Publication Date: 20140115



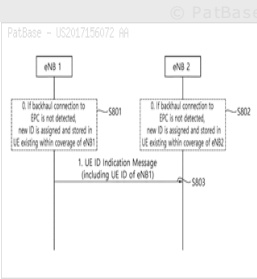
17) Family number: 61388721 (US2017156072 AA)

METHOD AND APPARATUS FOR DISPLAYING TERMINAL IN SINGLE BASE STATION IN WIRELESS COMMUNICATION SYSTEM

Abstract: Source: US2017156072 AA The present specification proposes a method of displaying a terminal involved in public disaster safety communication in a single base station that has a constraint on a normal backhaul connection. Even when the backhaul connection is disconnected, it is possible for a terminal to communicate by using an X2 connection between base stations, but there is a limitation in that it is difficult for a terminal to find the position of another terminal because a connection between the base station and an evolved packet core (EPC) is disconnected. Thus, there is a need for a method to solve this limitation. Whether there is a backhaul connection between a first base station and the EPC is detected, and when a backhaul connection is not detected, a first ID is allocated to a terminal in the service area of the first base station and the first ID allocated is transmitted to a second base station. When there is a backhaul connection between the first base station and the EPC, a globally unique temporary identifier (GUTI) of the terminal in the service area of the first base station is received from a mobility management entity (MME). Then, whether there is a backhaul connection between the first base station and the EPC is detected, and when a backhaul connection is not detected, the GUTI of the terminal in the service area of the first base station is transmitted to the second base station.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20160114



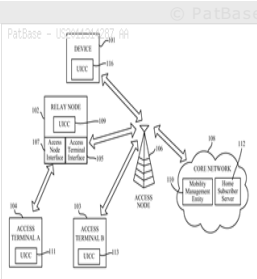
18) Family number: 50239673 (US2011314287 AA)

METHOD AND APPARATUS FOR BINDING SUBSCRIBER AUTHENTICATION AND DEVICE AUTHENTICATION IN COMMUNICATION SYSTEMS

Abstract: Source: US2011314287 AA An authentication method is provided between a device (e.g., a client device or access terminal) and a network entity. A removable storage device may be coupled to the device and stores a subscriber-specific key that may be used for subscriber authentication. A secure storage device may be coupled to the device and stores a device-specific key used for device authentication. Subscriber authentication may be performed between the device and a network entity. Device authentication may also be performed of the device with the network entity. A security key may then be generated that binds the subscriber authentication and the device authentication. The security key may be used to secure communications between the device and a serving network.

Probable Assignee: QUALCOMM INC

Earliest Publication Date: 20111222



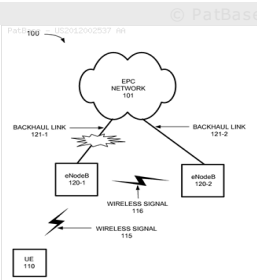
19) Family number: 50435505 (US2012002537 AA)

BASE STATION FAILOVER USING NEIGHBORING BASE STATIONS AS RELAYS

Abstract: Source: US2012002537 AA A method performed by a base station in a network, includes detecting a malfunction associated with a backhaul link to the network; identifying one or more neighboring base stations located within a transmission range of the base station; selecting at least one of the one or more neighboring base stations based on one or more parameters, associated with the one or more neighboring base stations, in response to detecting the malfunction; receiving, by a radio frequency (RF) transceiver associated with the base station, a signal from a user equipment; and transmitting, by an RF transceiver associated with the base station, the signal to the selected at least one of the one or more neighboring base stations.

Probable Assignee: VERIZON PATENT AND LICENSING INC

Earliest Publication Date: 20120105



20) Family number: 58404170 (US2016150577 AA)

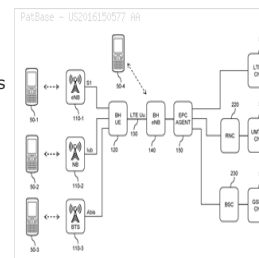
LTE BASED WIRELESS BACKHAUL CONNECTION TO CELLULAR NETWORK BASE STATION



Abstract: Source: US2016150577 AA A network node controls a first base station of the cellular network to establish a wireless backhaul connection to a further network node. The wireless backhaul connection is implemented by an LTE radio access technology. Further, the network node routes backhaul data between the wireless backhaul connection and at least one core network of the cellular network. The further network node routes the backhaul data between the wireless backhaul connection and at least one second base station which serves a cell of the cellular network.

Probable Assignee: TELEFONAKTIEBOLAGET L M ERICSSON PUBL

Earliest Publication Date: 20150129



21) Family number: 57219656 (US2014233453 AA)

COMMUNICATION UNITS AND METHODS FOR RELAY-ASSISTED UPLINK COMMUNICATION

Abstract: Source: US2014233453 AA A relay device is described for supporting communications between a terminal device and a base station, the relay device comprises: at least one receiver; and a control processor, operably coupled to the at least one receiver and arranged to: monitor a downlink communication from the base station to the terminal device; determine therefrom at least one uplink resource to be used by the terminal device; configure the at least one receiver to receive the at least one uplink resource; receive an uplink message on the at least one uplink resource; determine therefrom uplink control information used by the terminal device; modify the uplink message on the at least one uplink resource; and relay the uplink message to the base station.

Probable Assignee: GENERAL DYNAMICS ADVANCED INFORMATION SYSTEMS INC

Earliest Publication Date: 20140820

