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(54) Title: MANAGING WIRELESS LOCAL AREA NETWORK SERVICE TO A MULTI-MODE PORTABLE COMMUNICATION DEVICE IN A WLAN - WWAN NETWORK

(57) Abstract: A wireless access point manages wireless service to a multi-mode wireless communication device based on a wireless wide area network (WWAN) signal. The access point transmits a device proximity message to the WWAN based on the proximity of the multi-mode wireless communication device to the access point where the proximity is at least partially based on a WWAN signal. The device proximity message may indicate a request to perform an alternate network acquisition procedure to establish wireless service from an alternate network different than a current network providing service to the multi-mode wireless communication device. Where the current network is WWAN, and the WWAN signal is a WWAN reverse link signal transmitted by the communication device and received at the access point, the access point determines the proximity of the communication device to the access point at least partially based on the WWAN reverse link signal. The access point determines whether to provide WLAN service to the multi-mode wireless communication device at least partially on a characteristic of the WWAN signal such as, for example, a power level or signal quality. The alternate network acquisition procedure may include an instruction from the WWAN to the multi-mode wireless communication device to search for an alternate network, to search for the access point, and/or to acquire an alternate network.
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— as to the applicant’s entitlement to claim the priority of the earlier application (Rule 4.17(Ui))

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04Q7/38
ADD. H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>WO 2004/002051 A (THOMSON LICENSING SA [FR]; VERMA SHALLY [IN]; WANG CHARLES CHUANMING [], 31 December 2003 (2003-12-31) abstract page 2, line 5 - line 22 page 11, line 7 - line 10</td>
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Date of the actual completion of the international search
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Ruschmann, Frank
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