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[Continued on next page]

(54) Title: A SYSTEM AND METHOD TO REDUCE MEDIA ACCESS CONTROL (MAC) LAYER HANDOFF LATENCY

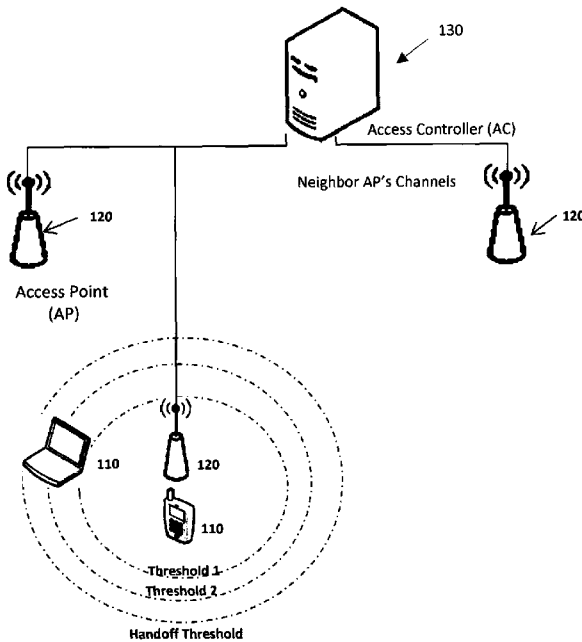
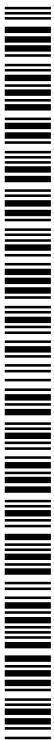


FIG. 1

(57) Abstract: The present invention relates to system and method for MAC layer handoff which comprises of multiple access points, a mobile device, and an access controller. It is used to minimize MAC layer handoff latency in centralized WLAN network and obviate scanning time during MAC layer handoff process. It is also used to reduce number of probed channels and waiting time for each channel response during probing phase. The system comprises at least one mobile device (110) connected to an access point (120), at least two access points (120), and an access controller connected to the at least two access point (120). The at least one mobile device (110) includes an AP Channel Receiver (111), the access controller (130) includes a Next AP Selector (140); and each access point (120) includes a Received Signal Strength Inspector (142).



MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
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ADD.
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)
H04W
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 practicable, search terms used)
EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7 480 264 B1 (DUO ZHUANGZHI [US] ET AL) 20 January 2009 (2009-01-20)	1
Y	column 1, line 10 - line 58 page 2, line 38 - page 3, line 25 column 4, line 46 - line 52 column 5, line 14 - column 7, line 58 column 9, line 1 - line 3 figure 1 ----- -/--	2-8

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

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- "E" earlier application or patent but published on or after the international filing date
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- "&" document member of the same patent family

Date of the actual completion of the international search 14 November 2014	Date of mailing of the international search report 24/11/2014
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Donnini, Carlo Luca

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SHIN M ET AL: "Improving the latency of 802.11 hand-offs using neighbor graphs", CONFERENCE PROCEEDINGS / MOBISYS 2004, THE SECOND INTERNATIONAL CONFERENCE ON MOBILE SYSTEMS, APPLICATIONS AND SERVICES ; BOSTON, MASSACHUSETTS, USA, JUNE 6 - 9, 2004; [INTERNATIONAL CONFERENCE ON MOBILE SYSTEMS, APPLICATIONS AND SERVICES], ASSOCIATI, vol. CONF. 2, 6 June 2004 (2004-06-06), pages 70-83, XP002463430, DOI: 10.1145/990064.990076 ISBN: 978-1-58113-793-4	2-8
A	Abstract 1. Introduction 2.2 Hand-offs 2.3 Probing in 802.11 3.1 Mobility Graph 3.2 Neighbors Graph -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7480264	B1	20-01-2009	NONE
