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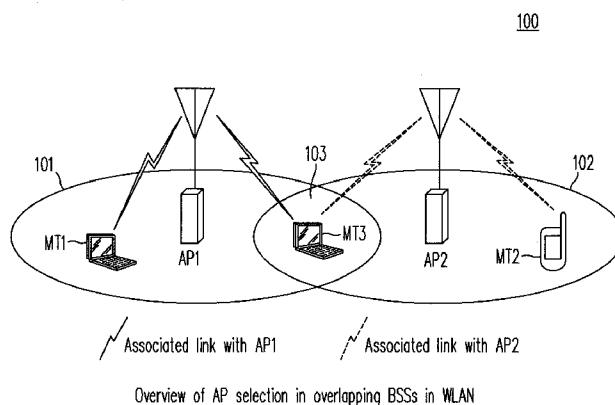
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(54) Title: METHOD AND APPARATUS FOR ACCESS POINT SELECTION IN WIRELESS LAN



(57) Abstract: A method and an apparatus select an access point (AP) in a wireless LAN to associate or reassociate, based on considerations that take into account the quality-of-service (QoS) status of the stations (STAs) and the potential hidden terminal effect. The method utilizes advertised or requested information obtained from an AP which includes the QoS status in each basic service set (BSS) and estimates the potential hidden terminal (HT) effect based on local channel sensing by the STA. The method selects the AP in a manner that reduces the possibility of collision from equal and higher priority HTs, thus providing greater transmission throughput and improving performance.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/82403

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04Q 7/00 (2008.01)

USPC - 370/329, 455/509

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)

USPC: 370/329, 455/509

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
US: 370/254, 329, 332; 455/509

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(PGPB, USPT, USOC, EPAB, JPAB); GOOGLE

Search Terms: access point, mobile station, channel, load, LAN, WLAN, metric, load near2 metric, ((measur\$6 or calculat\$3) near2 load), BSS, basic service set, judgment, decision

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0202141 A1 (Sinivaara et al.) 14 October 2004 (14.10.2004), entire document, especially; abstract, para. [0005], [0006], [0009], [0010], [0057], [0078], [0080], [0082], [0083]	1 - 3
A	US 6,522,881 B1 (Feder et al.) 18 February 2003 (18.02.2003), entire document	1 - 3

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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