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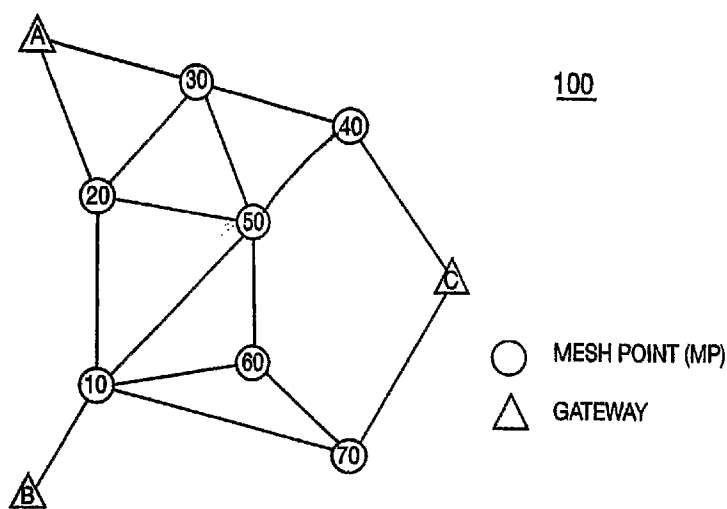
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(54) Title: TRAFFIC STREAM ADMISSION CONTROL IN A MESH NETWORK



(57) Abstract: A method and apparatus for implementing path-based traffic stream (TS) admission control in a wireless mesh network having a distributed and/or centralized admission control architecture is disclosed. When the wireless mesh utilizes distributed admission control architecture, a source mesh point (S.MP) transmits a request for TS admission requiring certain resources/quality of service (QoS). The request propagates through the wireless mesh network until the destination mesh point (D.MP) is reached and an admitted path is determined. If an intermediate mesh point (MP) is unable to meet the requested resources/QoS for the TS, the S.MP is notified. When the wireless mesh network utilizes centralized admission control architecture, a S.MP requests a route to the D.MP from a central controller. The central controller maintains a status of MPs in the wireless mesh network, and selects a best route to handle the TS to satisfy the requested resources/QoS.

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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC: 711/141 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 455/41.2; 370/230; 370/338 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (PGPB,USPT,EPAB,JPAB); DialogPRO (Engineering); Google Scholar. Search terms: internet, network, wireless mesh, mesh point, traffic stream, quality of service, QoS, admit, reject, channel occupancy, buffer occupancy, link conditions, admission control, centralized, distributed		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2003/0117954 A1 (De Neve et al.) 26 June 2003 (26.06.2003), entire document especially Abstract, para [0011]-[0012], [0015]-[0016], [0039]-[0042], [0064], [0089], [0091], [0095], FIG.1, FIG.5	1-2, 4, 8-11, 15-16, 19 ----- 3,5-7,12-14, 17-18, 20-21
Y	US 2004/0109428 A1 (Krishnamurthy) 10 June 2004 (10.06.2004), entire document especially para [0015], [0034], [0037]-[0043], [0050], FIG.1	3,5-7,12-14, 17-18, 20-21
A	Mahadevan, I; Sivalingam, KM. "Architecture and Experimental Framework for Supporting QoS in Wireless Networks Using Differentiated Services". In Mobile Networks and Applications, Vol. 6, Number 4, August 2001. [online] [retrieved on 2007-05-29] - Retrieved from the Internet: <URL: http://www.control.auc.dk/~03gr836/files/intserv/Architecture%20and%20experimental%20framework%20for%20supporting%20QoS.pdf >, entire document	1-21
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
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