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(54) Title: WIRELESS SERVICE POINTS HAVING UNIQUE IDENTIFIERS FOR SECURE COMMUNICATION

(57) Abstract: System, apparatus, and methods are disclosed whereby a group of independent wireless routing devices known as Service Points work cooperatively to form an ad hoc mesh communication network. The resulting Service Point Network is used to provide reliable address-directed communication services between devices attached by conventional means (wired or wireless) to respective Service Ports on any of the Service Points. Attached Utilizing Devices are not considered a part of the Service Point Network and need not contain any custom software or hardware related to the operations of the Service Point Network. Consequently, the networking technology used to form the Service Point Network is independent of the technology used for connecting devices to Service Points. Services for Utilizing Devices include both point-to-point as well as point-to-multi-point communication. To protect the security of network communications and the integrity of the network, the Service Points are assigned internal IP addresses and unique identifiers that need not be disclosed to the Utilizing Devices. The unique identifiers in turn are used to derive public and private encryption key pairs for each Service Point.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04I 9/00
US CL : 380/285

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)
U.S. : 380/285, 713/163

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, E	US-2004/0090943 A1, da Costa et al., 13 May 2004 (13.05.2004), paragraphs 1-177	1-14



Further documents are listed in the continuation of Box C.



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