Title: METHOD AND APPARATUS FOR AUTOMATIC CONFIGURATION OF WIRELESS NETWORKS

Abstract: A wireless network software access point (AP) integrated into a wireless device (120) allows a wireless network to be configured automatically and dynamically maintained with minimal user intervention. Such automatic configuration includes: whether to configure the Soft AP (103) enable device (120) to be an AP Node or a Station Node; specifics of wireless radio link configuration, routing or bridging relationships with other networking devices attached to the host-computing device (100); and firewall configuration. Such automatic configurations are based on the automatic detection of the network environment attached to the Soft AP (103) enable device. The automatic configurations may also be based on the intelligent interactions among different Soft AP (103) enabled devices (120, 130) in the wireless network, which often includes devices (120, 130) with and without Soft AP functionalities.
(88) Date of publication of the international search report:
4 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
## INTERNATIONAL SEARCH REPORT

### A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/16; H04B 7/204  
US CL : 709/227; 340/825.02  
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. : 709/227; 340/825.02

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 6,360,264 B1 (ROM) 19 March 2001, col. 6, lines 55-64, col. 6, lines 5-15, column 5, lines 55-58.</td>
<td>1, 2</td>
</tr>
<tr>
<td>X</td>
<td>US 5,455,569 A (SHERMAN et al.) 03 October 1995, column 2, lines 18-21, figs. 1 and 2.</td>
<td>12</td>
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</tbody>
</table>

☐ Further documents are listed in the continuation of Box C.  ☐ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search: 01 March 2006 (01.03.2006)

Date of mailing of the international search report: [Date]

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