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You can read the recommendations in the user guide, the technical guide or the installation guide for SAGEM FAST 1704. You'll find the answers to all your questions on the SAGEM FAST 1704 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual SAGEM FAST 1704**  
**User guide SAGEM FAST 1704**  
**Operating instructions SAGEM FAST 1704**  
**Instructions for use SAGEM FAST 1704**  
**Instruction manual SAGEM FAST 1704**

## **SAGEM F@st™ 1704**

Reference Manual



Edition of October 2009

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**Manual abstract:**

The only access level required (Administrator) is protected by a password and allows one to access these functions in read and write mode for all the user and network parameters (Login: admin; password: admin). Note Configuration of the router by HTTP is described in detail (cf. section 5). To ease legibility of the reference manual, the term "router" will be used throughout the document to designate SAGEM F@stTM 1704 equipment. Guide to symbols used in this manual Symbols Note Definition Gives you important information which you must take into account Important Warns you not to do an action, or commit a serious omission. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited

Page 0-1 How should the document be used? This reference manual is organised into sections and annexes. These sections and annexes cover the following subjects. Section 1 Section 2 Section 3 Section 4 Section 5 Section 6 Section 7 Section 8 Annex A Annex B Annex C Annex D Annex E Annex F Annex G

Presentation of SAGEM F@stTM 1704 equipment Description of SAGEM F@stTM 1704 equipment Installation of SAGEM F@stTM 1704 equipment Configuration of network parameters Configuration of the router by HTTP Description of Internet access service Description of TV over ADSL service Updating the application Troubleshooting CE compliance declaration Environment Technical Characteristics Default configuration Glossary Connection technology

Page 0-2 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Contents Pages Guide to symbols used in this manual How should the document be used? Contents List of figures 0-1 0-2 0-3 to 0-6 0-7 1. Introduction 1.1 1.2 1.3 Presentation Composition of router pack (Minimum) prerequisites 1-1 1-2 1-4 1-5 2. Description and connection of router 2. 1 Description 2.1.1 Connectors 2.1.2 LEDs 2. 2 Connecting the ports of your router 2-1 2-2 2-3 2-4 2-5 2-6 2-6 2-6 2-8 2-8 2-9 2-10 2-11 2.3 Installing your SAGEM F@stTM 1704 2.3.1 Powering up 2.3.2 Connecting the ADSL cable 2.3.3 Connecting to your computer 2.3.3. 1 Connecting the Ethernet interface of your router to your computer 2.3.3.2 Connecting the Wi-Fi interface of your router to your computer 2.3.4 Connecting the Ethernet interface of your router to your TV decoder 2.4 Installation safety instructions 3. Installing and configuring the SAGEM F@stTM 1704 router 4. Configuration of network parameters 4.1 4. 2 4.3 Configuring as a DHCP client Status of the DHCP server Data of the DHCP client 3-1 4-1 4-3 4-4 4-5 5. Information / Configuration 5.1 Accessing the welcome screen 5-1 5-2 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 0-3 5. 2 5.3 5.4 Recommendations ADSL connection status Display frame 5-4 5-5 5-5 5-6 5-6 5-7 5-8 5-8 5-9 5-10 5-11 5-13 5-14 5-15 5-16 5-17 5-18 5-19 5-21 5-22 5-23 5-28 5-33 5-35 5-40 5-44 5-46 5-47 5-47 5-50 5-53 5-54 5-54 5-58 5-60 5-62 5-64 5-68 5-68 5-69 5-71 5-73 5-74 5-76 5-76 5-77 5-79 5-82 5-83 5-84 5-87 5-88 5-88 5-91 5.5 Device Info 5.5. 1 Summary 5.5.2 WAN 5.5.3 Statistics 5.5.3.1 LAN 5.5.3. 2 WAN Service 5.5.3.3 xTM 5.5.3.4 xDSL 5.5.4 Route 5.5. 5 ARP 5.5.6 DHCP 5.6 Internet Connection 5.7 Advanced Setup 5. 7.1 Layer2 Interface 5.7.1.1 Add 5. 7.2 WAN Service 5.7.2.1 Add 5.7.2.2 Ethernet over ATM PPP over Ethernet (PPPoE) 5.7.2. 3 Ethernet over ATM IP over Ethernet (IPoE) 5.7.2.4 Ethernet over ATM Bridging 5.7.2.5 PPP over ATM (PPPoA) 5.7.2.6 IP over ATM (IPoA) 5. 7.3 LAN 5.7.4 IPv6 LAN Config 5.7. 5 NAT 5.7.5.1 Virtual Servers 5.7. 5.2 Port Triggering 5.7.5.3 DMZ Host 5.7.6 Security 5.7.6.1 IP Filtering 5. 7.7 Parental Control 5.7.8 Quality of Service 5.7.8.1 Queue Config 5.7.8.2 QoS Classification 5. 7.9 Routing 5.7.9.1 Default Gateway 5. 7.9.2 Static Route 5.7.9. 3 Policy Routing 5.7.9.4 RIP 5.7.9.5 IPv6 Static Route 5.7.10 DNS 5.7. 10.1 DNS Server 5.7.10.2 Dynamic DNS 5.7.11 DSL 5.7.12 Upnp 5.7. 13 DNS Proxy 5.7.14 Interface Grouping 5.7.15 LAN Ports 5. 7.16 Certificate 5.7.16.1 Local 5. 7.16.2 Trusted CA Page 0-4 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5.8 Wireless 5.8.1 Basic 5.8.1.1 Wireless Basic 5. 8.2 Security 5.8.2.1 Network Authentication 5.8.3 MAC Filter 5.8.4 Advanced 5.8. 5 Station Info 5.9 Diagnostics 5-93 5-93 5-94 5-95 5-97 5-106 5-108 5-111 5-112 5-113 5-113 5-114 5-115 5-116 5-117 5-117 5-118 5-120 5-121 5-122 5-122 5-123 5-124 5.10 Management 5.10.1 Settings 5. 10.1.1 Backup 5.10.1. 2 Update 5.10.1.3 Restore Default 5.10.2 System Log 5.10.2.1 View System Log 5.10. 2.2 Configure System Log 5.10.3 TR-069 Client 5.10.4 Internet Time 5.10.5 Access Control 5.10.5. 1 Passwords 5.10.6 Update Software 5.10.7 Reboot 6. Internet access service 7. TV over ADSL service 7.1 7.2 Introduction Access to the optional TV over ADSL service 6-1 7-1 7-2 7-2 8. Updating the firmware A. Annex A - Troubleshooting A.1 A.2 A.3 A.4 Checking the assignment of an IP address Front panel LEDs Supervising your router Diagnostics tool 8-1 A-1 A-2 A-3 A-4 A-5 A-7 A-7 A-7 A-7 A-8 A-8 A-9 A.5 Interpreting the LEDs A.5.1 The "ADSL" LED blinks slowly A.5.2 "Wi-Fi" LED off A. 5.3 All LEDs are off A.6 A.7 A.8 Restarting your router Resetting factory configuration Offline mode SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 0-5 B. Annex B - Warnings for safety B.1 Warnings for safety B.1.1 Safety levels in relation to the case B.

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1 - Overview of case.....

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Page 0-8 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 1.  
Introduction This section covers presentation of the SAGEM F@stTM 1704 router composition of the packaging required hardware and software § 1.



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I § 1.2 § 1.3 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 1-1 1 - Introduction 1.

I Presentation This reference manual is dedicated to the SAGEM F@stTM 1704 equipment. This equipment is a router which gives users, broadband Internet access from their computer or their games console by various Ethernet (10 or 100 BASE-T) or Wi-Fi (IEEE 802.11g) interfaces via an ADSL/ADSL2/ADSL2+ network. Using these interfaces, this router enables you both to surf the Internet and to watch television. It also lets you telephone over the Internet from an IP SIP telephone linked by Wi-Fi to your router. Important SAGEM F@stTM 1704 products adapt the ADSL function respectively for POTS (UIT G.992.1/3/5 - Annex A) and for ISDN (UIT G.992.1/3/5 - Annex B).

Figure 1.1 - Supervising your router Page 1-2 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 1 - Introduction Its principal characteristics and functions are as follows: High-performance secure Bridge/Router with ADSL/ADSL2/ADSL2+ interface User access: · · 4 x 10/100BT Ethernet ports, 1 Wi-Fi port (802.11b/g) by mini-PCI, DHCP Client/Server/Relay, DNS Server/Relay, Access control (FTP/TELNET/HTTP/SSH Client), NAT/PAT router - FTP Compatibility, IRC, Net2Phone, Netbios, DNS, Netmeeting, VPN passthrough (IPSec, IKE, PPTP, L2TP), CUSeeMe, RealAudio, Microsoft IM and others, Security, Firewall, Spanning tree, Multi-VC ATM and ATM Quality of service (CBR, UBR, VBR), UpnP, TR069, QoS, Upgrade Firmware (Local and Remote), Backup/Restore and Upgrade configuration file (Local and Remote). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 1-3 1 - Introduction 1.2 Composition of router pack The router is supplied in a pack the composition of which changes according to the pack content requested: Item 1 2 3 4 5 6 7 8 9 SAGEM F@stTM 1704 router Mains adapter Description ADSL RJ11/11 FDT line cable (length = 3 m) used to connect your router to your telephone line Ethernet RJ45/RJ45 cable (length = 1.75 m) used to connect your router to the Ethernet port of your computer Quick Installation Guide Installation CD-ROM Filter/Splitter used to connect one phone set and your router to your telephone line\* Microfilter used to connect another phone set to your telephone line\* 802.11g USB Wi-Fi key\* \* Option depending on pack content requested The CD-ROM contains: · · · the application for installing the USB interface. the Reference Manual (SAGEM F@stTM 1704) in PDF format file. the CE declaration of the router. Note Incomplete or damaged supply. If on its receipt the equipment is damaged or incomplete, contact your supplier. Page 1-4 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 1 - Introduction 1.

3 (Minimum) prerequisites Using a router requires a minimum of: a computer equipped with: · or · an Ethernet interface (10BASE-T or 10/100BASE-T), a WEB browser (Internet Explorer version 5 or higher recommended). The minimum configuration of your computer must be: for Windows: Pentium II, 400 MHz, RAM: 128 MB, for MacOS: Power PC G3, 233 MHz, RAM: 128 MB, a monitor of minimum resolution: 1024 x 768. If you wish to use the Wi-Fi function (standard IEEE 802.11b/g), you must have the Wi-Fi Standard pack (see annex G for use of Wi-Fi).

Note a Wi-Fi 802.11b/g interface, Before installing the router, we advise you to uninstall any modem or other router (for example, an ADSL router). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 1-5 1 - Introduction Page 1-6 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 2. Description and connection of router This section covers the description of your router connecting the ports of your router installing your router installation safety instructions § 2.1 § 2.2 § 2.3 § 2.4 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited Page 2-1 2 - Description and connection of router closure prohibited 2 - Description and connection of your router Figure 2.3 - ADSL line / Power Supply Connection SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 2-7 2 - Description and connection of router 2.3.3 Connecting to your computer Two connections may need to be made: · · Connection of the Ethernet interface of your router to your computer. Connection of the WLAN (Wi-Fi) interface to your computer. 2.3.3.1 Connecting the Ethernet interface of your router to your computer 1.

Connect the end of the yellow Ethernet cable (RJ45/RJ45) supplied in the pack to the Ethernet fixed connector (marked LAN1, LAN2, LAN3 or LAN4) of your router. 2. Connect the other end of the cable to your computer. Page 2-8 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 2 - Description and connection of your router 2.

3.3.2 Connecting the Wi-Fi interface of your router to your computer Wireless linking enables the router to be connected to your computer. To make this connection you must have a Wi-Fi pack (option). This pack comprises the following elements: · · 1 Wi-Fi 188470912 key (Dongle) in an anti-static plastic bag, 1 CD-ROM.

Inserting a USB Wi-Fi key in your computer This key should only be connected to your computer during installation of the Wi-Fi drivers (standard 802.11b/g)(see Quick Installation Guide). Note You can also use the Wi-Fi adapter incorporated in your computer. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 2-9 2 - Description and connection of router 2.3.4 Connecting the Ethernet interface of your router to your TV decoder 1. Connect the end of the yellow Ethernet cable (RJ45/RJ45) supplied in the pack to the Ethernet fixed connector (marked LAN1, LAN2, LAN3 or LAN4) of your router. 2. Connect the other end of the cable to a TV decoder.

Note For connection to the decoder, refer to the manufacturer's documentation. Page 2-10 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 2 - Description and connection of your router 2.4 Installation safety instructions Power supply source · · · · · Do not cover the router's mains adapter.



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The router comes with its own mains adapter. Do not use another adapter. This class II adapter does not need to be grounded (earthed). The connection to the electrical network should comply with the indications given on the label. Use a readily accessible mains outlet located near the router. The power supply cord is 2 m long.

Arrange the power supply cord in such a way as to avoid any accidental power cut to the router. The router is designed to be connected to a GG- (ground-to-ground) or GN- (ground-to-neutral) type power supply network. The router is not designed to be connected to an electrical installation with IT type diagram (neutral connected to earth through an impedance). Protection against short-circuits and leaks between the phase, neutral and earth should be provided by the building's electrical installation. The power supply circuit for this equipment should be fitted with 16 A overcurrent protection and differential protection. Connect the router to the mains via a readily accessible wall socket ensuring the electric cutting. Location conditions By choosing an appropriate location, you will preserve the longevity of the device. Ensure that the selected location has the following characteristics: . . . . . Install and use the router inside a building. The room temperature must not exceed 45°C. The router can be placed on a desktop or fixed vertically in its wall mounting.

Do not expose the router to strong sunlight or place it near a substantial source of heat. Do not place the router in an environment where it could be subjected to considerable steam condensation. Do not cover the router to splashes of water. Do not cover the router's casing. Do not use the router or its peripherals for outdoor transmissions. Maintenance . . Never open the casing. This must be done only by qualified personnel approved by your supplier. Do not use liquid or aerosol cleaning agents. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 2-11 2 - Description and connection of router Page 2-12 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited 3. Installing and configuring the SAGEM F@stTM 1704 router SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 3-1 3 - Installing and configuring the SAGEM F@stTM 1704 router For the installation of the SAGEM F@stTM 1704, please refer to the Quick Installation Guide of this product. Page 3-2 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 4. Configuration of network parameters This section covers configuring as a DHCP client reading status of the DHCP server reading data of the DHCP client Page 4-3 Page 4-4 Page 4-5 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 4-1 4 - Configuration of network parameters The aim of this section is: 1. to configure your computer so that it is able to communicate with your router. 2. to display the "Networks" parameters of your router.

Your router implements the DHCP (Dynamic Host Configuration Protocol) server, relay and client functions in accordance with RFC 2131 and RFC 3132, whereas the computer connected directly to the router or via a local network by its LAN interface implements only the DHCP client function. On receipt of a DHCP query from your computer (see your router, the latter responds by indicating: . . . . an address from the range defined in the configuration, the sub-network mask, the default gateway (address of your router), ), whether or not it is connected to the address of the gateway as DNS server. The "DNS Relay" function is activated automatically. Note The configured range of IP addresses must be the same in the sub-network as in the LAN interface. Important It is imperative that your computer is configured as a DHCP client or that it has a fixed IP address in the configuration range defined by the DHCP server.

Configuration as a DHCP client is the more commonly used solution. Page 4-2 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited. 4 - Configuration of network parameters 4.1 Configuring as a DHCP client In Windows XP 1.

Click on Start > Control Panel > Network Connections. 2. Right-click the appropriate network, and then select Properties. The Local Area Connection Properties appears. 3. Select the protocol TCP/IP of the network card, and then click the Properties button. The screen Internet Protocol (TCP/IP) Properties appears. 4. Select the General tab, then the case "Obtain an IP address automatically" and the case "Obtain the addresses of the DNS servers automatically". 5.

Click the OK button to confirm your choice. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 4-3 4 - Configuration of network parameters 4.2 Status of the DHCP server To obtain the status of the DHCP server: 1. Open your browser. 2. Enter the router's IP address (by default http://192.168.1.1) or enter the following URL http://myrouter 3.

In the login screen that appears, enter "admin" in the "User Name" field and "admin" in the "Password" field (see note). Note The User name and Password values depend on the level of security. This information is provided by your Internet Service Provider (ISP). 4. Click on the OK button to validate.

5. Select Advanced Setup menu, then select the LAN menu. The following screen appears: Field IP Address Subnet Mask Start IP Address Description Displays the sub-network address Displays the sub-network mask of the IP network. Displays the first address attributed by the DHCP server. Note : This IP address must belong to the same sub-network as that of the local network.

Display 192.168.1.1 255.255.255.0 192.168.1.2 End IP Address Displays the last address attributed by the DHCP server.

Note : This IP address must belong to the same sub-network as that of the local network. 192.168.1.254 Leased Time (hour) Displays the period (in hours) for obtaining an IP address for a terminal. 24 Page 4-4 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited. 4 - Configuration of network parameters 4.3 Data of the DHCP client To obtain this data: In Windows XP, 2000 and Me 1. Click on Start > Run, enter cmd and then click OK.

The command prompt screen appears. 2. Enter ipconfig /all (or ipconfig/all) then press Enter.



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SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 4-5 4 - Configuration of network parameters Page 4-6 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited. 5. Information / Configuration This section covers Accessing the welcome screen Recommendations for using the configuration screens The ADSL connection status Indications displayed on the display frame located in the HTTP configurator window The "Device Info" section The "Internet Connection" section The "Advanced Setup" section The "Wireless" section The "Diagnostics" section The "Management" section § 5.1 § 5.2 §.

5.3 § 5.4 § 5.5 § 5.6 § 5.7 § 5.8 § 5.9 § 5.10 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-1 5 - Information / Configuration 5.

1 Accessing the welcome screen Note To access this screen, you must have configured one of your computer's interfaces using the installation CD-ROM provided with your router (see section 3). If you are using your computer's Ethernet card to configure your router, connect it to an Ethernet port (LAN1 to LAN4). Your router is then configured using a simple Web browser (e.g. Internet Explorer). Note The router's DHCP server function is activated by default with an address range defined as indicated in subsection.5.7.3. To access the configurator, proceed as follows: 1. Click on Start > All Programs > SAGEM F@st 1704 > 2. In the login screen that appears, enter your identification information. By default, the identification information is: Username: Password: admin admin . Note The equipment's IP address (192.168.

1.1) appears in the header bar. 3. Click on OK to validate. Page 5-2 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited 5 - Information / Configuration 4. Your computer's Web browser opens and displays the welcome screen of the router's HTTP configuration tool. The configuration menus appear on the left panel. The HTTP configuration tool opens by default on the Device Info menu: the centre panel shows router's information and the current ADSL connection status (see subsection 5.3). the router's activity and status is always available at the top right corner, as a box which lets you know the status of the ADSL line, lets you refresh the data displayed and restart your router at any time (see subsection 5.4). the left, panel gives you access to the router's configuration menus and submenus (see subsection 5.5 to 5.9).

Important You can modify the password to access your router's configuration tool to optimise the safety of your network. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-3 5 - Information / Configuration 5.2

Recommendations The meaning of the main buttons most commonly present in all the configuration windows is provided in the table below. Button Description Click on this button to add a new window to fill in the fields used to add an object. Click on this button to return to the previous screen. Click on this button to close the active window and return to the main screen. Click on this button to display a new window to modify the fields that can be accessed for a previously selected object. Click on this button to display the next screen. Click on this button to remove a selected object from a list.

Note: You must check the "Remove" box to delete this object. Click on this button to save the entry in the router's non-volatile (flash) memory. Note: This value will only be taken into account when you restart your router. Click on this button to save the entry in the router's non-volatile (flash) memory. Note: This value will be taken into account immediately without you having to restart your router.

Click on this button to save the entry in the router's non-volatile (flash) memory then restart your computer. Basic principles 1. To make this guide easier to read and understand, it does not state that each time you enter information into a screen you must click on Save or Save/Apply or Save/Reboot (except, of course, if this is necessary). 2. When you select a section, the screen for the first menu in the section is displayed.

In the same way, when you select a menu, the screen for the first sub-menu is displayed. 3. All the fields in the different screens are explained in a table. Page 5-4 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.3 ADSL connection status Refer to subsection 5.5.1 Device Info/Summary. 5.4 Display frame The router's activity status is always visible at the top right corner of the HTTP configuration tool.

You can perform the following actions: · click on Refresh to update the data displayed click on Reboot to restart your router ADSL information The following table presents the possible states of the ADSL field: Status Green Yellow Red Meaning ADSL line synchronised ADSL line synchronising ADSL line not connected The Down field displays the nominal downlink bit rate. The Up field displays the nominal uplink bit rate. Internet information The following table presents the possible states of the Internet field: Status Status ADSL Down Off Not configured Router rebooting Green Yellow Red Connected Waiting for ISP Access denied Meaning ADSL line not connected or not activated The Internet account must be configured Router is rebooting The Internet account is configured ADSL line synchronising Incorrect Internet account SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-5 5 - Information / Configuration 5.5 Device Info Clicking on this heading displays the following menus: · · · · · Summary (see subsection 5.5.1) WAN (see subsection 5.5.2) Statistics (see subsection 5.5.3) Route (see subsection 5.5.4) ARP (see subsection 5.5.5) DHCP (see subsection 5.5.6)

5.6) 5.5.1 Summary Object: This menu lets you display the current status of your Internet connection. In the Device Info menu, select Summary. The following screen opens: Note This screen also appears in the welcome screen (see subsection 5.1). Page 5-6 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration The following table provides the meaning of the different fields which are displayed.



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Field Software Version Line Rate - Upstream (kbps) LAN IPv4 Address WAN IPv4 Address Default Gateway Primary DNS Server Secondary DNS Server LAN IPv6 Address Default IPv6 Gateway Date / Time Note Meaning Software version currently installed. Nominal up line rate Local network IPv4 address (LAN) Remote network IPv4 address (WAN) Default gateway address Primary DNS server address Secondary DNS server address Local network IPv6 address (LAN) Default IPv6 gateway address Date and Time (see Note) Line Rate - Downstream (kbps) Nominal down line rate The Date/Time field only appears if the "Automatically synchronize with Internet time servers" box is checked in the "Management / Internet Time" menu (see subsection 5.10.4). 5.5.

2 WAN Object: This menu is used to display all the parameters which concern the remote network. · In the Device Info menu, select WAN. The following screen opens: SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-7 5 - Information / Configuration 5.5.3 Statistics Object: This menu is used to display all the router's statistics. This menu contains the following four sub menus: · · · · LAN (see subsection 5.5.3.1), WAN Service (see subsection 5.

5.3.2), xTM (see subsection 5.5.3.3), xDSL (see subsection 5.5.3.4). 5.

5.3.1 LAN Object: This menu is used to display all the parameters which concern the local network (LAN). · In the Device Info menu, select Statistics then select LAN. The following screen opens: · Click on the Reset Statistics button to reset statistics. Page 5-8 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.5.3.2 WAN Service Object: This menu is used to display all the parameters which concern the remote network (WAN).

· In the Device Info menu, select Statistics then select WAN Service. The following screen opens: · Click on the Reset Statistics button to reset statistics. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-9 5 - Information / Configuration 5.5.3.3 xTM Object: This menu is used to display all the xTM statistics of the line. · In the Device Info menu, select Statistics then select xTM. The following screen opens: · Click on the Reset button to reset statistics. Page 5-10 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited 5 - Information / Configuration 5.5.3.4 xDSL Object: This menu is used to display all the xDSL statistics of the line. · In the Device Info menu, select Statistics then select xDSL.

The following screen opens: · Click on the Reset Statistics button to reset statistics. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-11 5 - Information / Configuration · Click on the xDSL BER Test button to display the following screen: · · · In the Tested Time (sec) field, select the test time from the scroll down list. Click on the Start button to run the test. Click on the Close button to close the window and return to the previous screen.

Page 5-12 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.5.4 Route Object: This menu is used to display all the information concerning your router's routing. · In the Device Info menu, select Route. The following screen opens: SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-13 5 - Information / Configuration 5.5.5 ARP Object: This menu is used to display all the information concerning address resolution (ARP: Address Resolution Protocol). This lets you find out the physical address of a computer's network card, corresponding to an IP address.

· In the Device Info menu, select ARP. The following screen opens: Page 5-14 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.5.6 DHCP Object: This menu is used to display all the computers which obtained an IP address from the router's DHCP server. · In the Device Info menu, select DHCP. The following screen opens: SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-15 5 - Information / Configuration 5.6 Internet Connection Object: This menu lets you enter your connection ID and your connection password. · Select the Internet Connection menu.

The following screen opens: Field PPP Username Enter your connection ID. Action Default value - This information is provided to you by your Internet Service Provider (ISP). PPP Password Enter your connection password. This information is provided to you by your Internet Service Provider (ISP). Important - If the message "There is no ppp connection" appears, this means that the remote network (WAN) parameters have not been filled in (see subsection 5.

7.2 - Advanced Setup > WAN Service). Disconnect When you click on the button Disconnect: · · · Page 5-16 Internet access is no longer possible. In the supervision box, the "Internet" indicator switches from green to yellow and the message "Connected" is replaced by "Waiting for ISP". On the front panel of the router, the indicator @ goes out.

SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.7 Advanced Setup Object: This menu is used to configure the specific parameters for your router. Important This menu must only be used by experienced users This section contains the following nine menus: · · · · · · · · · · Layer2 Interface (see subsection 5.7.1) WAN Service (see subsection 5.7.2) LAN (see subsection 5.7.3) IPv6 LAN Config (see subsection 5.

7.4) NAT (see subsection 5.7.5) Security (see subsection 5.7.6) Parental Control (see subsection 5.7.7) Quality of Service (see subsection 5.7.8)(see note) Routing (see subsection 5.

7.9) DNS (see subsection 5.7.10) DSL (see subsection 5.7.

11) Upnp (see subsection 5.7.12) DNS Proxy (see subsection 5.7.13) Interface Grouping (see subsection 5.

7.14) LAN ports (see subsection 5.7.15) Certificate (see subsection 5.7.16) Note The menu Quality of Service only appears if you checked the "Enable Quality Of Service" box in the WAN interface configuration screen (see Advanced Setup>WAN Service subsection 5.



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7.2>Add). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-17 5 - Information / Configuration 5.

7.1 Layer2 Interface Object: This menu is used to configure DSL ATM interfaces. · In the Advanced Setup menu, select Layer2 Interface. The following screen opens: Field Interface VPI VCI DSL Latency Category Connection Mode Qos Value of the VPI. Value of the VCI. DSL Latency. Meaning Name of the DSL ATM interface, allocated automatically. Type of service adapter to the traffic. Connection mode (Default mode, VLAN MUX Mode or MSC Mode). Status (Enabled or Disabled) of the Quality of Service function.

Page 5-18 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.7.1.1 · Add Click on the Add button to display the following screen: ATM PVC Configuration Field VPI VCI Select DSL Link Type Action Enter a VPI value between 0 and 255.

Enter a VPI value between 32 and 65535. Select the type of network protocol from the scroll down list: EoA PPPoA IPoA Note: Encapsulation mode : Ethernet over ATM : PPP over ATM : IP over ATM EoA is for PPPoE, IPoE and Bridge. LLC/SNAP BRIDGING UBR without PCR 1 Default value 0 35 EoA Select the encapsulation mode for the selected DSL link type. To provide more clarity, a summary table is presented below for each type of protocol. Service Category Select the type of service adapter to the traffic from the scroll down list: UBR without PCR UBR with PCR CBR Non Realtime VBR Realtime VBR : Unspecified Bit Rate : Unspecified Bit Rate : Constant Bit Rate : Variable Bit Rate : Variable Bit Rate 1 This value is delivered to you by your Internet Service Provider (ISP).

SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-19 5 - Information / Configuration Field Peak Cell Rate2 Sustainable Cell Rate3 Action Enter a maximum number of cells transmitted per second, between 1 and 2491. Enter an average number of cells transmitted per second. Note: Maximum Burst Size3 This number must be lower than the Peak Cell Rate (PCR). Default value - Enter the maximum number of cells emitted in burst (value between 1 and 1000 000). Encapsulation modes DSL Link type EoA (Ethernet over ATM) Action Select the encapsulation of your choice from the scroll down list. · · PPPoA (PPP over ATM) LLC/SNAP-BRIDGING, VC/MUX. VC/MUX Default value LLC/SNAPBRIDGING Select the encapsulation of your choice from the scroll down list. · · VC/MUX, LLC/ENCAPSULATION. IPoA (IP over ATM) Select the encapsulation of your choice from the scroll down list.

· · LLC/SNAP-ROUTING, VC/MUX. LLC/SNAPROUTING Select Connection Mode The Connection Mode selection only appears if you have selected the EoA DSL link type. Field Default mode VLAN MUX Mode MSC Mode Action Check this box to configure a single service over one connection. Check this box to configure Multiple Vlan service over one connection. Check this box to configure Multiple Service over one connection. Default value Checked Not checked Not checked Enable Quality Of Service Field Enable Quality Of Service Action Check the box to activate the quality of service. Default value Not checked 2 This field only appears when the "UBR with PCR", "CBR", "Non Realtime VBR" or "Realtime VBR" type of service is selected. 3 These fields only appear when the "Non Realtime VBR" or "Realtime VBR" type of service is selected. Page 5-20 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.

7.2 WAN Service Object: This menu is associated with the remote network. It is used to display the list of all the configured PVCs, and to add PVCs or remove them. · In the Advanced Setup menu, select WAN Service. The following screen opens: Field Interface Meaning Name, allocated automatically, associated with the service name (for example, ATM interface "ppp\_0\_35\_1" associated with the ATM service pppoe\_0\_35\_1).

Name of the ATM service. This name is made up as follows: Protocol\_VPI\_VCI\_Index For example: pppoe\_0\_35\_1. Data flow encapsulation mode. 4 4 Description Type Vlan8021p ConnID VlanMuxId Value of the 802.1P Priority.

Value of the 802.1Q VLAN ID. Connection Identification. This is used to identify the different PPP connections which belong to the same PVC. To do so, you need only increment the "VC number" in the "Service" field when adding a new "PVC". Status (Enabled or Disabled) of the IGMP function. (see Note). Status (Enabled or Disabled) of the NAT. Status (Enabled or Disabled) of the Firewall. Status (Enabled or Disabled) of the IPv6.

Status (Enabled or Disabled) of the MLD. IGMP NAT Firewall IPv6 MLD Note This function enables the distribution of Multicast datagrams over the local network (LAN) and interaction between the router and the local network hosts. 4 These values only appear if the WAN service is configured over a DSL ATM interface using VLAN MUX Mode. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-21 5 - Information / Configuration 5.7.2.1 Note Add You must have configured a DSL ATM interface (see section 5.7.1) to add a WAN service.

· Click on the Add button. · Select the DSL ATM interface for the WAN service. · Click on the Next button to continue configuring the WAN service. Depending on the type of network protocol configured for the selected DSL ATM interface (EoA, PPPoA or IPoA), the content of the following WAN interface configuration screens differs. Therefore, and for more clarity, each type of protocol will be dealt with separately (screens + associated summary tables) below.

Note Page 5-22 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.7.2.2 · Ethernet over ATM PPP over Ethernet (PPPoE) Select the WAN service type PPP over Ethernet (PPPoE).

Field Enter Service description Action Displays the name of the service being configured. This name, which is allocated automatically, is made up as follows: Protocol\_VPI\_Index\_VCI For example: pppoe\_0\_0\_35. Note: You may enter another service name. Default value pppoe\_0\_0\_35 Enter 802.1P Priority5 Enter 802.1Q VLAN ID5 Enable IPv6 for this service · Enter a value for the 802.1P Priority. This value is between 0 and 7. Enter a value for the 802.1QVLAN ID.

This value is between 0 and 4094. Check this box to enable IPv6 for this service. -1 -1 Not checked Click on the Next button to continue configuring the WAN service.



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5 These values only appear if the WAN service is configured over a DSL ATM interface using VLAN MUX Mode. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-23 5 - Information / Configuration Field PPP Username Action Enter your connection ID. This information is provided to you by your Internet Service Provider (ISP). Default value - PPP Password Enter your connection password. This information is provided to you by your Internet Service Provider (ISP). - PPPoE Service Name Authentication Method Enter the name of the PPPoE service.

This information is provided to you by your Internet Service Provider (ISP). Select the authentication method of your choice from the scroll down list: . . . . AUTO, PAP, CHAP, MSCHAP. - AUTO Dial on demand (with idle timeout timer) Inactivity Timeout (minutes) [1-4320]:6 Check the box to only connect to the Internet on "Traffic". Not checked Enter the inactivity time. This value (in minutes) is between 1 and 4320 (i.

e. 72 hours). If there is no traffic for a certain period of time, the PPPoE session is interrupted. 0 6 This field only appears when the "Dial on demand (with idle timeout timer)" field is activated (box checked). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-24 5 - Information / Configuration Field PPP retry on authentication error PPP retry period (seconds) PPP MTU (Bytes) Action Check the box, PPP can be retried again and again while authentication fails Enter if required a retry period. This value (in seconds) is by default set to 15 seconds. You can set another value from 3 to 65535. Enter an MTU (Maximum Transfer Unit) value. This value (in bytes) is between 38 and 1492. Note: The MTU specifies the maximum size of the data used (IP packets) expressed as a number of bytes. Not checked 0.0.0.0 Not checked 64 Not checked Default value Checked 15 1492 Use Static IPv4 Address IPv4 Address: IPv6 Address 7 8 Check the box to use the static IPv4 address.

Enter the static IPv4 address. Check the box to use the static IPv6 address. Enter the static IPv6 address. Enter the prefix length for the IPv6 address. Use Static IPv6 Address 9 IPv6 Address Prefix Length 9 Enable PPP Debug mode Check the box to use the PPP Debug mode. In the event of connection failure, this option will enable you to trace a possible problem in the SYSLOG file. Check the box to enable the router when Bridge PPPoE frames between WAN and Local bridging the frames between WAN and local Ethernet ports Ports Enable IGMP Multicast Proxy . . Check the box to activate the IGMP function. Not checked Not checked Click on the Next button to continue configuring the remote network (WAN) in PPPoE mode. Select a preferred wan interface as the system default gateway. 7 8 This field only appears when the "Use Static IPv4 Address" field is activated (box checked).

This field only appears when the "Enable IPv6 for this service" feature is activated (box checked). 9 These fields only appear when the "Use Static IPv6 Address" field is activated (box checked). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-25 5 - Information / Configuration . Click on the Next button to continue configuring the remote network (WAN) in PPPoE mode. Field Obtain DNS info from a WAN interface Use the following Static DNS IP address Primary DNS server Secondary DNS server Action Check the box to obtain DNS server addresses automatically, and select the desired interface in the list WAN Interface selected.

If you check this box, you must enter DNS server addresses. Enter a primary DNS server address. Enter a secondary DNS server address. Default value Checked Not checked - . Click on the Next button to continue configuring the remote network (WAN) in PPPoE mode. Page 5-26 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited 5 - Information / Configuration Field PORT / VPI / VCI Connection Type Service Name Service Category IP Address Service State NAT Firewall IGMP Multicast Quality of Service Action Displays the Port/VPI/VCI specific to the "PPPoE" connection Displays the "PPPoE" protocol Displays the name of the service: pppoe\_0\_0\_35. Displays the type of service adapted to the traffic required. Indicates that the IP address is allocated automatically: Automatically assigned Displays the status of the service: Enabled Displays the status of the NAT: Enabled Displays the status of the firewall: Enabled Displays the status of the IGMP function: Disabled Displays the status of the Quality of Service function: Enabled . Click on the Apply/Save button to confirm the new WAN service. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-27 5 - Information / Configuration 5.7.2.3 . Ethernet over ATM IP over Ethernet (IPoE) Select the WAN service type IP over Ethernet (IPoE). Field Enter Service description Action Displays the name of the service being configured. This name, which is allocated automatically, is made up as follows: Protocol\_VPI\_Index\_VCI For example: ipoe\_0\_0\_35.

Note: You may enter another service name. Default value ipoe\_0\_0\_35 Enter 802.IP Priority 10 Enter a value for the 802.IP Priority. This value is between 0 and 7. Enter a value for the 802.IQVLAN ID. This value is between 0 and 4094. Check this box to enable IPv6 for this service. -1 -1 Not checked Enter 802.

IQ VLAN ID 10 Enable IPv6 for this service . Click on the Next button to continue configuring the WAN service. 10 These values only appear if the WAN service is configured over a DSL ATM interface using VLAN MUX Mode. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-28 5 - Information / Configuration Field Obtain an IP address automatically Use the following Static IP address: WAN IP Address WAN Subnet Mask WAN gateway IP address Action Check the box to obtain an IP address automatically from your router's DHCP server. If you check this box, you must enter a static WAN IP address and the dedicated WAN subnet mask and WAN gateway IP address.

Enter the static IP address. Enter the subnet mask. Enter the gateway IP address. Default value Checked Not checked - SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-29 5 - Information / Configuration . Click on the Next button to continue configuring the remote network (WAN) in IPoE mode.



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**Field Enable IGMP Multicast** · Action Check the box to activate the IGMP function. Default value Not checked Select a preferred wan interface as the system default gateway. · Click on the Next button to continue configuring the remote network (WAN) in IPoE mode. Page 5-30 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration Field Obtain DNS info from a WAN interface Use the following Static DNS IP address: Primary DNS server Secondary DNS server Action Check the box to obtain DNS server addresses automatically, and select the desired interface in the list WAN Interface selected. If you check this box, you must enter DNS server addresses. Enter a primary DNS server address. Enter a secondary DNS server address. Default value Checked Not checked - · Click on the Next button to continue configuring the remote network (WAN) in IPoE mode. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited Page 5-31 5 - Information / Configuration Field PORT / VPI / VCI Connection Type Service Name Service Category IP Address Service State NAT Firewall IGMP Multicast Quality Of Service · Displays the "IPoE" protocol Action Displays the Port/VPI/VCI specific to the "IPoE" connection. Displays the name of the service: ipoe\_0\_0\_35. Displays the type of service adapted to the traffic required. Indicates that the IP address is allocated automatically: Automatically Assigned Displays the status of the service: Enabled Displays the status of the NAT: Enabled Displays the status of the firewall: Enabled Displays the status of the IGMP function: Disabled Displays the status of the Quality Of Service function: Enabled Click on the Apply/Save button to confirm the new WAN service. Page 5-32 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document.

Reproduction and disclosure prohibited 5 - Information / Configuration 5.7.2.4 · Ethernet over ATM Bridging Select the WAN service type Bridging. Field Enter Service description Action Displays the name of the service being configured.

This name, which is allocated automatically, is made up as follows: Protocol\_VPI\_Index\_VCI For example: br\_0\_0\_35. Note: You may enter another service name. Default value br\_0\_0\_35 Enter 802.IP Priority11 Enter 802.1Q VLAN ID11 Enable IPv6 for this service · Enter a value for the 802.

IP Priority. This value is between 0 and 7. Enter a value for the 802.1QVLAN ID. This value is between 0 and 4094.

Check this box to enable IPv6 for this service. -1 -1 Not checked Click on the Next button to continue configuring the remote network (WAN) in Bridge mode. 11 These values only appear if the WAN service is configured over a DSL ATM interface using VLAN MUX Mode. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-33 5 - Information / Configuration Field PORT / VPI /

VCI Connection Type Service Name Service Category IP Address Service State NAT Firewall IGMP Multicast Quality Of Service · Action Displays the Port/VPI/VCI specific to the "Bridge" connection. Displays the "Bridge" protocol Displays the name of the service: br\_0\_0\_35. Displays the type of service adapted to the traffic required. In the "Bridge" connection, this field is: Not Applicable Displays the status of the service: Enabled Displays the status of the NAT: Disabled Displays the status of the firewall: Disabled In the "Bridge" connection, this field is: Not Applicable Displays the status of the Quality Of Service function: Enabled Click on the Apply/Save button to confirm the new WAN service. Page 5-34 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration 5.

7.2.5 PPP over ATM (PPPoA) Field Enter Service description Action Displays the name of the service being configured. This name, which is allocated automatically, is made up as follows: Protocol\_VPI\_Index\_VCI For example: pppoa\_0\_0\_35. Note: You may enter another service name. Default value pppoa\_0\_0\_35 · Click on the Next button to continue configuring the WAN service. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-35 5 - Information / Configuration Field PPP Username Action Enter your connection ID. This information is provided to you by your Internet Service Provider (ISP). Default value - PPP Password Enter your connection password. This information is provided to you by your Internet Service Provider (ISP). - Authentication Method Select the authentication method of your choice from the scroll down list: · · · · AUTO, PAP, CHAP, MSCHAP. AUTO Dial on demand (with idle timeout timer) Check the box to only connect to the Internet on "Traffic". Not checked Inactivity Timeout Enter the inactivity time. This value (in minutes) is (minutes) [1-4320]:12 between 1 and 4320 (i. e. 72 hours). 0 12 This field only appears when the "Dial on demand (with idle timeout timer)" field is activated (box checked). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-36 5 - Information / Configuration Field PPP retry on authentication error PPP retry period (seconds) PPP MTU (Bytes) Action Check the box, PPP can be retried again and again while authentication fails Enter if required a retry period.

This value (in seconds) is by default set to 15 seconds. You can set another value from 3 to 65535. Enter an MTU (Maximum Transfer Unit) value. This value (in bytes) is between 46 and 1500. Note: The MTU specifies the maximum size of the data used (IP packets) expressed as a number of bytes. Not checked 0.0.0.0 Not checked Default value Checked 15 1500 Use Static IPv4 Address IPv4 Address: 13 Check the box to use the static IPv4 address. Enter the static IPv4 address.

In the event of connection failure, this option will enable you to trace a possible problem in the SYSLOG file. Enable PPP Debug mode Check the box to use the PPP Debug mode. Enable IGMP Multicast Proxy · · Check the box to activate the IGMP function. Not checked Click on the Next button to continue configuring the remote network (WAN) in PPPoA mode. Select a preferred wan interface as the system default gateway. · Click on the Next button to continue configuring the remote network (WAN) in PPPoA mode. 13 This field only appears when the "Use Static IPv4 Address" field is activated (box checked).



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SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-37 5 - Information / Configuration Field Obtain DNS info from a WAN interface Use the following Static DNS IP address Primary DNS server Secondary DNS server Action Check the box to obtain DNS server addresses automatically, and select the desired interface in the list WAN Interface selected. If you check this box, you must enter DNS server addresses.

Enter a primary DNS server address. Enter a secondary DNS server address. Default value Checked Not checked - · Click on the Next button to continue configuring the remote network (WAN) in PPPoA mode. Page 5-38 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration Field PORT / VPI / VCI Connection Type Service Name Service Category IP Address Service State NAT Firewall IGMP Multicast Quality of Service · Action Displays the Port/VPI/VCI specific to the "PPPoA" connection.

Displays the "PPPoA" protocol. Displays the name of the service: pppoa\_0\_0\_35. Displays the type of service adapted to the traffic required. Indicates that the IP address is allocated automatically: Automatically Assigned. Displays the status of the service: Enabled.

Displays the status of the NAT: Enabled. Displays the status of the firewall: Enabled. Displays the status of the IGMP function: Disabled. Displays the status of the Quality of Service function: Disabled. Click on the Apply/Save button to confirm the new WAN service. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-39 5 - Information / Configuration 5.7.2.6 IP over ATM (IPoA) Field Enter Service description Action Displays the name of the service being configured.

This name, which is allocated automatically, is made up as follows: Protocol\_VPI\_Index\_VCI For example: ipoa\_0\_0\_35. Note: You may enter another service name. Default value ipoa\_0\_0\_35 · Click on the Next button to continue configuring the WAN service. Page 5-40 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration Field WAN IP Address WAN Subnet Mask · Action Enter the static IP address. Enter a subnet mask. Default value 0.0.0.0 0.

0.0.0 Click on the Next button to continue configuring the remote network (WAN) in IPoA mode. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-41 5 - Information / Configuration Field Enable IGMP Multicast · · Action Check the box to activate the IGMP function.

Default value Not checked Click on the Next button to continue configuring the remote network (WAN) in IPoA mode. Select a preferred wan interface as the system default gateway. · Click on the Next button to continue configuring the remote network (WAN) in IPoA mode. Page 5-42 SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited 5 - Information / Configuration Field Obtain DNS info from a WAN interface Use the following Static DNS IP address Primary DNS server Secondary DNS server Action Check the box to obtain DNS server addresses automatically, and select the desired interface in the list WAN Interface selected.

If you check this box, you must enter DNS server addresses. Enter a primary DNS server address. Enter a secondary DNS server address. Default value Checked Not checked - · Click on the Next button to continue configuring the remote network (WAN) in IPoA mode. Field PORT / VPI / VCI Connection Type Service Name Service Category IP Address Service State NAT Firewall IGMP Multicast Quality of Service · Displays the "IPoA" protocol. Action Displays the Port/VPI/VCI specific to the "IPoA" connection. Displays the name of the service: ipoa\_0\_0\_35. Displays the type of service adapted to the traffic required. Indicates the IP address entered. Displays the status of the service: Enabled.

Displays the status of the NAT: Enabled. Displays the status of the firewall: Enabled. Displays the status of the IGMP function: Disabled. Displays the status of the Quality of Service function: Disabled. Click on the Apply/Save button to confirm the new WAN service. SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-43 5 - Information / Configuration 5.7.3 LAN Object: This is used to configure the IP parameters for the local network (LAN). · In the Advanced Setup menu, select LAN.

The following screen opens: Field Groupname IP Address Subnet Mask Action Select the required group. Enter the address of your local network. Default value Default 192.168.1.

1 255.255.255.0 Not checked Enter your network's subnet mask. Enable IGMP Snooping Check this box to activate the IGMP (Internet Group Management Protocol) protocol.

This lets you manage the declarations of belonging to one or more groups with Multicast routers. 14 Check the box if you wish the IGMP snooping Standard Mode runs in normal mode (transparency with IGMP frames). 14 Check the box if you wish the IGMP snooping Blocking Mode runs in blocking mode (interception and removal of IGMP frames). Enable LAN side firewall Check the box to activate the LAN side firewall. Checked Not checked 14 These fields only appear when the "Enable IGMP Snooping" field is activated (box checked). SAGEM F@stTM 1704 Reference Manual - 253272861-A Sagem Communications SAS document. Reproduction and disclosure prohibited Page 5-44 5 - Information / Configuration Field Disable DHCP Server Action Check this box to deactivate your router's DHCP server. Note: You must configure your computer with the parameters appropriate to your local network (IP address, subnet mask and default gateway) as well as enter the primary and secondary DNS server addresses. Default value Not checked Enable DHCP Check this box to activate your router's DHCP server. Note: You must configure your computer as DHCP client and DNS client (or enter the primary and secondary DNS server addresses).

Checked Start IP Address End IP Address Leased Time (hour) Static IP Lease List Configure the second IP Address and Subnet Mask for LAN interface IP Address15 Subnet Mask15 Enter the first address attributed by your router's DHCP server. Enter the last address attributed by your router's DHCP server. Enter an unavailability time (in hours) for each attributed address. Enter if required the list of static IP Lease. Check the box to configure the IP parameters (IP address, subnet mask) of a second address for the local network (LAN).



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