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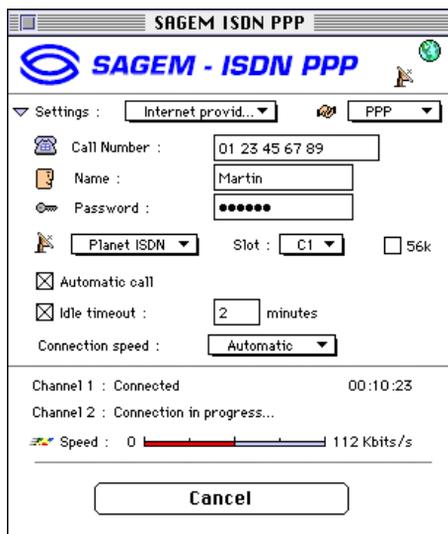
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SAGEM - ISDN PPP

User's Guide



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Introduction

SAGEM ISDN PPP allows you to connect a stand-alone Macintosh to a remote TCP/IP or AppleTalk network through ISDN lines with Point-to-Point Protocol (64Kbps) or Multilink Point-to-Point Protocol (128Kbps). It's the ideal tool to connect to Internet!

***Important:** SAGEM-ISDN PPP was designed to be used only with SAGEM products, such as Planet-ISDN and Meet-Me cards, ISDN GeoPort Adapter and TheWave software.*

Required configuration

SAGEM ISDN PPP version 1.0.8 runs on any Macintosh with:

- System 7.5 or higher (except 7.5.2) with MacTCP 2.06 (or later) or OpenTransport 1.1, 1.1.1, 1.1.2 installed
- System 7.5.2 with MacTCP 2.06 (by de-activating OpenTransport 1.08), but it is mostly recommended to upgrade your system in 7.5.3 or higher.

Installation of SAGEM-ISDN PPP

- Step 1** Insert the “Planet Goodies” diskette in your Macintosh, and double-click on the “Installer” icon, which will proceed with automatic installation of the software.
- Step 2** Follow the instructions appearing on screen.
Once installation is completed, restart your Macintosh.

How to proceed

This guide describes how to manage the configuration settings in order to connect to Internet with SAGEM-ISDN PPP via TCP/IP. The 3 main steps to follow are:

- Configuration of TCP/IP
- Configuration of SAGEM-ISDN PPP
- Connection with SAGEM-ISDN PPP

***Note:** for detailed user information and further options, please refer to your Planet-ISDN hardware User's guide (July 1997 Edition and subsequent issues).*

Configuration of TCP/IP (Open Transport)

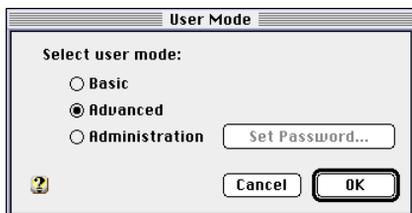
This section explains how to configure the TCP/IP network options, in order to make connections with SAGEM-ISDN PPP. If you are using MacTCP, you should refer to appendix 1.

Before proceeding, please make sure:

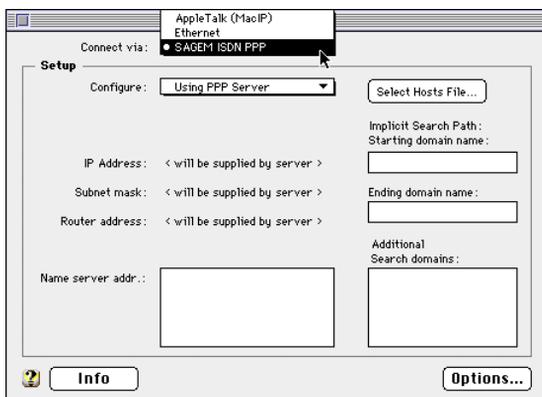
- Open Transport version 1.1 or higher is installed on your Macintosh
- you have in hands all information given to you by your Internet Service Provider when you subscribed to his server.

Step 1 In the Apple menu (🍏), select **Control panels**, then **TCP/IP**.

Step 2 In the **Edit** menu, choose **User Mode**.
Click on the **Advanced** radio button.
Click **OK**.



Step 3 In the TCP/IP window, choose **SAGEM ISDN PPP** in the **Connect via:** pull-down menu as shown below. If this item does not appear, restart your Macintosh once more.



Step 4 Select **Using PPP server** in the **Configuration** menu.
Since the connection settings are automatically managed by your provider's server, the IPAddress, Subnet mask and Router address fields will mention "will be supplied by server".

Then, simply enter the information you obtain from your provider:

- the **Name Server IP address**,
- the **Domain Name Server (DNS)** in the "Additional Search domains" field.

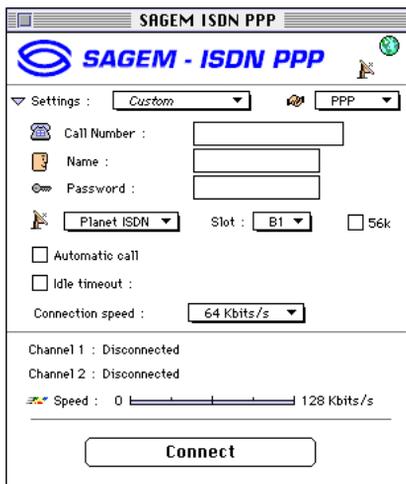
Step 5 Save your settings and close this window.

Important: *if the connection settings are not automatically managed by your provider's server, choose "Configure manually" in the "Configure:" pull-down menu. Then fill in the relevant fields with the information given to you by your Internet provider after subscription, or by your network administrator.*

Configuration of SAGEM-ISDN PPP

This section explains how to configure the various PPP options, including identification parameters given to you by your provider. Make sure you enter the correct settings in order to be able to connect to Internet with SAGEM-ISDN PPP.

Step 1 In the Apple menu (🍏), select **Control panels**, then **SAGEM-ISDN PPP**. The following window appears:



Step 2 Enter the **Call Number** of the remote site, your **Name** and **Password**. This information is given to you by your provider.

Note: If your internet provider does not support the PPP protocol, you can select RAW IP in the pull-down menu located in the upper right corner of this window.

Step 3 Select your underlying hardware in the relevant pull-down menu: “Planet ISDN” for a Planet card, “ISDN GeoPort” for a GeoPort Adapter, “MeetMe” for a Meet-Me card. Choosing TheWave will open a configuration dialog. Please refer to TheWave User’s Guide if using TheWave software.

If several cards are installed in your Macintosh, select the relevant slot.

If you are connecting to a 56 Kbps ISDN network (e.g. USA, Japan), check the **56k** rate adaptation box.

Step 4 Check **Automatic call** if you want SAGEM-ISDN PPP to connect automatically upon network traffic, e.g. when launching a TCP/IP application such as Netscape.

Check the **Idle time-out** box and type in a specific value if you want SAGEM-ISDN PPP to hang up after an idle period of time. Connection will be automatically re-opened later on, according to automatic call flag.

Step 5 Select the default connection speed: 64 Kbps (1 B channel) or 128 Kbps (2 B channels). If you checked the “56k” box, the 56 Kbps and 112 Kbps options will replace 64 and 128 Kbps, respectively.
If you select “Automatic”, only one B channel will connect, the second B channel being connected or disconnected automatically, depending on the bandwidth used.

Step 6 SAGEM-ISDN PPP enables you to have a list of different **Settings**, and to save the parameters related to different sites or Internet providers. Once you entered the connection settings relating to a specific site, save your settings by selecting **Add settings...** in the **Settings** pull-down menu, and name them. They will then appear in the menu.

Note: any change to the current settings will reset the name to “Custom”. Just save the settings again with the same name to save changes.

Choose **Remove settings...** in the **Settings** menu to remove the selected name in the settings menu.

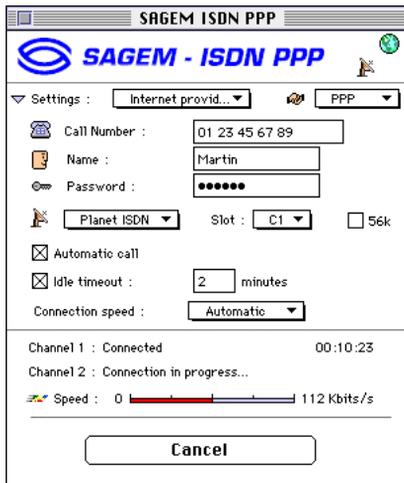
Connection with SAGEM-ISDN PPP

When launching your Internet Browser, FTP or E-Mail (automatic)

- Step 1** In the SAGEM-ISDN PPP Control panel, make sure you have checked the “Automatic call” box if you want the connection to take place automatically.
- Step 2** The “Idle Timeout” box should also be checked, and a specific value typed in, for SAGEM-ISDN PPP to hang up after an idle period of time. Connection will be automatically re-opened later on, according to automatic call flag.
- Step 3** Close the Control panel window, and launch your usual Internet Browser. The connection will take place automatically, according to the settings defined in the SAGEM ISDN PPP Control panel, and concerning the last site selected in the “Settings” pull-down menu.

Via the Control panel (manual)

- Step 1** From the Apple menu, select **Control panels**, then **SAGEM-ISDN PPP**.



- Step 2** Click on the **Connect** button in the bottom part of the window. **Channel 1** and **Channel 2** show the current status of the lines: the line is available for traffic when Channel 1 indicates “IP Opened”. The “Connect” button changes to “Cancel”.
- Step 3** Launch your internet browser, FTP or E-Mail.

If you selected 64 kbps in the “Connection speed” menu, and if the router supports Point-to-Point Multilink protocol, you can connect and disconnect the second B channel dynamically during connection, in the pull-down menu.

If you selected “Automatic”, the second B channel will connect automatically, depending on the bandwidth used, as show on the figure below.

Note: in automatic mode, over 90% of the bandwidth of the first B channel must be used during several seconds for the second B channel to connect automatically.

Different messages show the intermediate PPP states and can help you detect specific connection problems.

Via the Control strip

When running system 7.6 or higher, you can also work with SAGEM-ISDN PPP in the Control strip, in which the PPP module was installed.



Step 1 In the Apple menu (🍏), select **Control panels**, then **Control strip**. In the window appearing, click on the “Show Control strip” radio button, then close the window.

Step 2 Once the Control strip appears on screen, click on the “PPP” module, then select the option you wish to use:

- “Open TCP/IP” opens the main window of the corresponding Control panel,
- “Open SAGEM ISDN PPP” opens the SAGEM ISDN PPP Control panel,
- “Connect” launches automatically the connection, according to the settings defined in the SAGEM ISDN PPP Control panel, and concerning the last site selected in the “Settings” pull-down menu.

Appendix 1 - Configuration of MacTCP 2.0.6

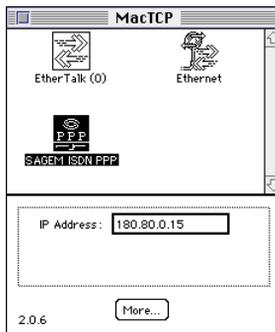
This section explains how to configure the MacTCP network options, in order to make connections with SAGEM-ISDN PPP.

Before proceeding, please make sure:

- MacTCP version 2.0.6 is installed on your Macintosh
- you have in hands all information given to you by your Internet Service Provider when you subscribed to his server.

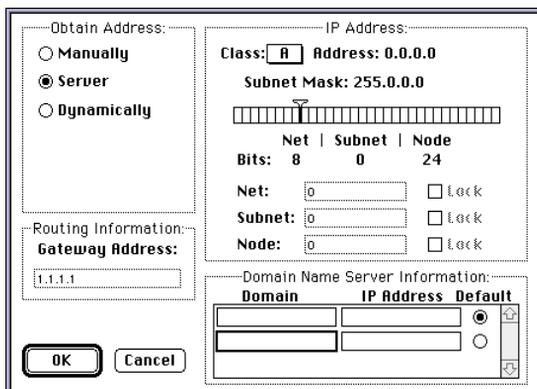
Step 1 In the Apple menu (🍏), select **Control panels**, then **MacTCP**.

Step 2 Select **SAGEM ISDN PPP** from the icons listed in this window:



***Note:** when more than 3 icons are displayed, MacTCP sometimes highlights several icons at a time. If you are not sure whether the driver is actually selected, just click on the first one in the list, close MacTCP, then open it again and choose SAGEM ISDN PPP. Such problem can also occur when upgrading your PPP software. Apply the previous hint in that case as well.*

Step 3 Click on the **More...** button. The following window will appear:



Step 4 If the connection parameters are automatically managed by your provider's server, click on the **Server** button in the **Obtain Address** area.

Then enter the information given to you by your provider:

- Under the **IP Address** field, select A, B ou C in the **Class:** pull-down menu.
- In the zone called **Domaine Name Server Information**, enter the information concerning the Domain and IP address
- Click on the **Default** radio button.
- Click **OK**.

Step 5 Close the Control panel, and then restart your Macintosh.

Important: *if the connection settings are not automatically managed by your provider's server, click on the "Manually" button in the "Obtain address" area. Then fill in the relevant fields with the information given to you by your Internet provider after subscription, or by your network administrator.*

Appendix 2 - AppleTalk configuration

SAGEM-ISDN PPP also allows you to access services on an AppleTalk network via TCP/IP. To do so, please proceed as follows:

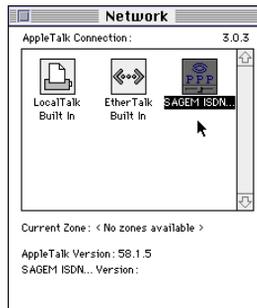
Using TCP/IP (Open Transport)

- Step 1** From the Apple menu, select Control panels, then AppleTalk.
- Step 2** From the connect via: pull-down menu, select **SAGEM ISDN PPP**, then close the window.



Using MacTCP

- Step 1** From the Apple menu, select Control panels, then Network.
- Step 2** Click on the **SAGEM ISDN PPP** icon to select SAGEM ISDN PPP, then close the window.



In both case, as soon as you select SAGEM ISDN PPP in the Control panel, and each time you restart with SAGEM ISDN PPP selected, AppleTalk will generate traffic on the network and try to get information about its current zone.

If the option “Automatic call” is checked in the SAGEM-ISDN PPP Control panel, it will try to connect. This is the reason why we recommend you to use carefully the option “Automatic call” when AppleTalk over SAGEM ISDN PPP is active.

Appendix 3 - Log file

To help you solve connection problems, SAGEM ISDN PPP tracks the exchanges taking place on the network between your Macintosh and your internet provider's server.

To generate a log file, please proceed as follows:

- Step 1** Press the **Option** key ("Alt" on the keyboard) before connecting, and click on the "Connect and trace" button replacing the "Connect" button.
Wait until the "Channel 1" field mentions that the connection failed.
- Step 2** In the "Preferences" folder of your System Folder, open the file called "SAGEM ISDN PPP log", in which you will find the information concerning the connection failures. You can send this log file to your local support group, so they may better resolve the connection problems.

SAGEM ISDN PPP always places this information in the same file, that you can simply put in the trash if you wish to delete it. In fact, another file will be created in the same folder if you renew such operation.