

## Appendix F LocalMenu

### GENERAL

Before you connect your BitSURFR Pro to your ISDN line, you must configure your BitSURFR Pro to match the ISDN line configuration and any application requirements. The following explains how to configure the BitSURFR Pro for use with the ISDN network using *LocalMenu*.

LocalMenu is a user-friendly, built-in firmware application that does not require the use of AT commands. Its use is recommended if you operate from a "dumb" (null) terminal or if you use a PC that is not running Windows. (You must have a VT100-compatible terminal or VT100-compatibility in your communications package.)

To configure your BitSURFR Pro, you will need the information provided by your ISDN service provider when your ISDN line was configured.

Configuration consists of entering the switch type, SPID and DN numbers provided to you by the telephone company, as well as entering any options specific to your application. Once you have configured your BitSURFR Pro, you should not have to do so again unless you change your line configuration or your application. Chapter 4 of the *User's Guide* gives detailed information on configuration options, as do the chapters on specific features and protocols.

If you ordered your ISDN service using the ISDN Ordering Codes (Form #1 in Appendix B of the *User's Guide*), use Table F-1 as a guide for setting the BitSURFR Pro switch options. If you ordered your ISDN service using the alternate method (Form #2 in Appendix B of the *User's Guide*) then use Table F-2 as a guide for setting the BitSURFR Pro switch options.

#### **Note**

*Always set Switch Type first. When the Switch Type is changed, the Switch Version, SPIDs, and DNs reset to default values. If your line is configured for both voice ports, one port must be configured with the same SPID and DN as the data port.*

**Table F-1. Switch Configuration According to Ordering Codes**

<b>ISDN Ordering Code</b>	<b>Provider Supplied Information</b>	<b>BitSURFR Pro Switch Options</b>
CAPABILITY P	1 SPID 1 DN	1) Set Switch Type to National ISDN-1 2) Set Data SPID and DN to provider supplied SPID and DN 3) Set Voice 1 SPID and DN to provider supplied SPID and DN 4) Set Voice 2 SPID and DN to provider supplied SPID and DN
Motorola Access 3 CAPABILITY P CAPABILITY S	2 SPIDs 2 DNs	1) Set Switch Type to National ISDN-1 2) Set Data SPID and DN to provider supplied Data/Voice 2 SPID and DN 3) Set Voice 1 SPID and DN to provider supplied Voice 1 SPID and DN 4) Set Voice 2 SPID and DN to provider supplied Data/Voice 2 SPID and DN

**Table F-2. Switch Configuration According to Switch Type**

<b>Provider Switch Type</b>	<b>Provider Supplied Information</b>	<b>BitSURFR Pro Switch Options</b>
AT&T Multi-Point	1 SPID 1 DN	1) Set Switch Type to AT&T 2) Set Switch Version to AT&T Multi-Point 3) Set Data SPID and DN to provider supplied SPID and DN 4) Set Voice 1 SPID and DN to provider supplied SPID and DN 5) Set Voice 2 SPID and DN to provider supplied SPID and DN
AT&T Multi-Point	2 SPIDs 2 DNs	1) Set Switch Type to AT&T 2) Set Switch Version to AT&T Multi-Point 3) Set Data SPID and DN to provider supplied Data/Voice 2 SPID and DN 4) Set Voice 1 SPID and DN to provider supplied Voice 1 SPID and DN 5) Set Voice 2 SPID and DN to provider supplied Data/Voice 2 SPID and DN

**Table F-2. Switch Configuration According to Switch Type (Continued)**

<b>Provider Switch Type</b>	<b>Provider Supplied Information</b>	<b>BitSURFR Pro Switch Options</b>
AT&T Point-to-Point	1 DN	1) Set Switch Type to AT&T 2) Set Switch Version to AT&T Point-to-Point 3) Set Data DN to provider supplied DN
Northern Telecom DMS100 PVC IC-0 DMS100 PVC IC1 (simultaneous voice and data)	2 SPIDs 2 DNs	1) Set Switch Type to Northern Telecom DMS100 2) Set Switch Version to PVC IC-0 or PVC IC-1 (depending on information supplied to you) 3) Set Data SPID and DN to provider supplied Data/Voice 2 SPID and DN 4) Set Voice 1 SPID and DN to provider supplied Voice 1 SPID and DN 5) Set Voice 2 SPID and DN to provider supplied Data/Voice 2 SPID and DN
Northern Telecom DMS100 PVC IC-0 DMS100 PVC IC-1 (voice or data, not simultaneous)	1 SPID 1 DN	1) Set Switch Type to Northern Telecom DMS100 2) Set Switch Version to PVC IC-0 or PVC IC-1 (depending on information supplied to you) 3) Set Data SPID and DN to provider supplied SPID and DN 4) Set Voice 1 SPID and DN to provider supplied SPID and DN 5) Set Voice 2 SPID and DN to provider supplied SPID and DN
National ISDN	-----	Same as Table F-1

**LOCALMENU**

To access LocalMenu, you must use a VT100 terminal or your PC's communication program must be in VT100 terminal emulation mode.

**Note**

*The mouse cannot be used to communicate with the BitSURFR Pro using LocalMenu. Use the spacebar to*

*select between the Menu and Option regions. Use the arrow keys to move the cursor from item to item within a region. Press the **Return/Enter** key to select/edit an item within the selected region.*

To configure your BitSURFR Pro using LocalMenu:

- 1. Make sure you are in AT command mode. If unsure, type **AT** and press ENTER. If your screen responds with OK, you are in AT command mode.
- 2. Type **AT@MENU** and press ENTER. This starts LocalMenu and displays the LocalMenu screen. (To return to AT command mode, simply exit LocalMenu.)



**Note**  
*When you enter AT@MENU, the BitSURFR Pro "polls" your PC or terminal to verify that it is VT100 compatible. If it is not compatible, LocalMenu will not run and the BitSURFR Pro will remain in AT command mode.*

LocalMenu Copyright 1994 - 1995 Motorola, Inc.	Device: ISDN Terminal Adapter Revision: H
LOCALMENU HELP	
LocalMenu Display Option <b>GRAPHICS</b> (Change Display Option to ASCII if lines are displayed as characters.)  If using a Windows communications package, set the Arrow, Function, and Control keys to "pass through" to the application.  Use the Spacebar to move the cursor from Region to Region. Use the Arrow keys to move the cursor from item to item within a region. Use the Enter key to select/edit an item within the selected region.	
MENUS	
RESET MENU EXIT MENU	HELP NET SWITCH
CALL SETUP DATA OPTS	CMDS/MSGS PROTOCOLS
STORED NOS LOAD/SAVE	SECURITY <More>

GRAPHICS should appear highlighted at the top of the screen. This initial screen provides instructions on moving from region to region and within a region, and on selecting and editing an item within a region.

**Note**

*If you are using Windows terminal emulation software on a PC, the arrow keys might not function with LocalMenu unless you configure them to act as terminal keys instead of Windows accelerator keys. Change the preferences in your terminal settings to use the function keys for DEC VT-100 (ANSI) terminal emulation.*

3. To enter Switch Type, SPID number, and Directory Number (DN), press the spacebar to go to the **MENUS** region, then use the down arrow key to move to the **NET SWITCH** option as illustrated in the following screen. When **NET SWITCH** highlights, press **Return**.

LocalMenu Copyright 1994 - 1995 Motorola, Inc.	Device: ISDN Terminal Adapter Revision: H												
LOCALMENU HELP													
LocalMenu Display Option GRAPHICS (Change Display Option to ASCII if lines are displayed as characters.)  If using a Windows communications package, set the Arrow, Function, and Control keys to "pass through" to the application.  Use the Spacebar to move the cursor from Region to Region. Use the Arrow keys to move the cursor from item to item within a region. Use the Enter key to select/edit an item within the selected region.													
<div style="text-align: center;"><b>MENUS</b></div> <table border="0"> <tr> <td>RESET MENU</td> <td>HELP</td> <td>CALL SETUP</td> <td>CMDS/MSGS</td> <td>STORED NOS</td> <td>SECURITY</td> </tr> <tr> <td>EXIT MENU</td> <td><b>NET SWITCH</b></td> <td>DATA OPTS</td> <td>PROTOCOLS</td> <td>LOAD/SAVE</td> <td>&lt;More&gt;</td> </tr> </table>		RESET MENU	HELP	CALL SETUP	CMDS/MSGS	STORED NOS	SECURITY	EXIT MENU	<b>NET SWITCH</b>	DATA OPTS	PROTOCOLS	LOAD/SAVE	<More>
RESET MENU	HELP	CALL SETUP	CMDS/MSGS	STORED NOS	SECURITY								
EXIT MENU	<b>NET SWITCH</b>	DATA OPTS	PROTOCOLS	LOAD/SAVE	<More>								

**Note**

*When you order your ISDN line, the telephone company will provide Switch Type information. Always set Switch Type first. When the Switch Type is changed, the Switch Version, SPIDs, and DNs reset to default values. If your line is configured for both voice ports, one port must be configured with the same SPID and DN as the data port. No matter*

which method you use, configuration consists of entering the Switch Type, SPID number, and DN provided to you by the telephone company, as well as entering any options specific to your application. Once you have configured your BitSURFR Pro and saved the configuration, you should not have to do so again unless you change your line configuration or your application.

- 4. If your Switch Type is not highlighted in the **Network Switch Type** field (as illustrated in the following screen), press **Return** to select the **Network Switch Type** field. The **Network Switch Type** region will appear at the bottom of the screen.

LocalMenu Copyright 1994 - 1995 Motorola, Inc.		Device: ISDN Terminal Adapter Revision: H	
NATIONAL ISDN MENU			
Network Switch Type	NI-1	Network Switch Version	NI-1
DROP Feature Value	062	CONFERENCE Feature Value	060
TRANSFER Feature Value	061	MSG WAITING Feature Value	063
Save Switch/Globl Profile (EXECUTE)		Restart Network Link	(EXECUTE)
Port To Configure	DATA		
TEI	AUTO		
SPID			
Directory Number			
MENUS			
RESET MENU	HELP	CALL SETUP	CMDS/MSGS
EXIT MENU	NET SWITCH	DATA OPTS	PROTOCOLS
			STORED NOS
			LOAD/SAVE
			SECURITY
			<More>

- 5. In the **Network Switch Type** field, use the arrow keys to move to the Switch Type supplied by your service provider. Press **Return** to select your Switch Type.
- 6. Use the right arrow key to move to the **Network Switch Version** field. The **Network Switch Version** field highlights. Press **Return**. The **Network Switch Version** parameter region appears at the bottom of the screen.

7. Use the arrow key to highlight your switch version, then press **Return**.

Next, you will enter the SPID number and DN for the Data port, Voice 1 port, and Voice 2 port configurations. Refer to the Switch Configuration tables in this section to guide you.

8. Arrow down to the **Port To Configure - DATA** field and press **Return**. When the **Port To Configure** region appears at the bottom of the screen, press **Return** to accept the highlighted **DATA** option.
9. Now that you have selected the **Data** port option, use the down arrow key to move to the **SPID** field and press **Return**. In the **SPID** field below, key in the Data SPID number supplied by your service provider, and press **Return**. The Data and Voice 2 SPID are normally the same. Voice 1 is the other or "Main" SPID.
10. To enter the DN for the Data port, use the down arrow key to move to the **Directory Number** field and press **Return**. In the **Directory Number** field below, key in DN number supplied by your service provider, and press **Return**. The Data and Voice 2 DN are normally the same. Voice 1 is the other or "Main" DN.
11. To enter the Voice 1 port number, arrow down to the **Port To Configure - DATA** field and press **Return**. When the **Port To Configure** region appears at the bottom of the screen, arrow down to **Voice 1** and press **Return** to accept the **Voice 1** highlighted option.
12. Now that you selected the **Voice 1** option, use the down arrow key to move to the **SPID** field and press **Return**. In the **SPID** field below, key in the Voice 1 SPID number supplied by your service provider, and press **Return**.

- 13. To enter the DN for the Voice 1 port, use the down arrow key to move to the **Directory Number** field and press **Return**. In the **Directory Number** field below, key in DN number supplied by your service provider, and press **Return**.
- 14. To enter the Voice 2 port number, simply repeat steps 10-12, but this time select **Voice 2** and enter the service provider supplied Voice 2 SPID number and DN.
- 15. To save the Switch, Data, Voice1, and Voice 2 port configurations, use the arrow keys to move to **Save Switch/Globl Profile (EXECUTE)** field. When the **Save Switch/Globl Profile (EXECUTE)** option highlights, press **Return**.

LocalMenu Copyright 1994 - 1995 Motorola, Inc.	Device: ISDN Terminal Adapter Revision: H
<b>NATIONAL ISDN MENU</b>	
Network Switch Type	NI-1
DROP Feature Value	062
TRANSFER Feature Value	061
Save Switch/Globl Profile	<b>(EXECUTE)</b>
Port To Configure	DATA
TEI	AUTO
SPID	
Directory Number	
MENUS	
RESET MENU	HELP
EXIT MENU	NET SWITCH
CALL SETUP	DATA OPTS
CMDS/MSGS	PROTOCOLS
STORED NOS	LOAD/SAVE
SECURITY	<More>

- 16. When the **Save Switch/Globl Profile** region appears at the bottom of the screen, press **Return** to save **PROFILE 0**. The **Save Switch/Globl Profile** option saves your port configurations.  
  
After you press **Return**, the cursor will re-highlight the **Save Switch/Globl Profile (EXECUTE)** field.



LocalMenu Copyright 1994 - 1995 Motorola, Inc.	Device: ISDN Terminal Adapter Revision: H		
<b>NATIONAL ISDN MENU</b>			
Network Switch Type	NI-1	Network Switch Version	NI-1
DROP Feature Value	062	CONFERENCE Feature Value	060
TRANSFER Feature Value	061	MSG WAITING Feature Value	063
Save Switch/Globl Profile	(EXECUTE)	Restart Network Link	(EXECUTE)
Port To Configure	DATA		
TEI	AUTO		
SPID			
Directory Number			
<b>Save Switch/Globl Profile</b>			
<b>PROFILE 0</b>			
— MENUS —			
RESET MENU	HELP	CALL SETUP	CMD5/MSG5
EXIT MENU	NET SWITCH	DATA OPT5	PROTOCOL5
		STORED NOS	SECURITY
		LOAD/SAVE	<More>

17. To initiate communication of the new information with the ISDN line, use the right arrow key to move to **Restart Network Link (EXECUTE)** field. Press **Return**.

LocalMenu Copyright 1994 - 1995 Motorola, Inc.	Device: ISDN Terminal Adapter Revision: H		
<b>NATIONAL ISDN MENU</b>			
Network Switch Type	NI-1	Network Switch Version	NI-1
DROP Feature Value	062	CONFERENCE Feature Value	060
TRANSFER Feature Value	061	MSG WAITING Feature Value	063
Save Switch/Globl Profile	(EXECUTE)	Restart Network Link	(EXECUTE)
Port To Configure	DATA		
TEI	AUTO		
SPID			
Directory Number			
— MENUS —			
RESET MENU	HELP	CALL SETUP	CMD5/MSG5
EXIT MENU	NET SWITCH	DATA OPT5	PROTOCOL5
		STORED NOS	SECURITY
		LOAD/SAVE	<More>

18. To exit LocalMenu, press the spacebar once to go to the **MENUS** region at the bottom of the screen, then use the arrow keys to move to **EXIT MENU**. When **EXIT MENU** highlights, press **Return**.

### **Incoming Data Calls While Using LocalMenu**

The BitSURFR Pro will not answer an incoming data call while you are using LocalMenu, even if the Auto Answer option is enabled (S0 is not set to 0). This prevents you from unexpectedly being put in data mode and losing your LocalMenu session. However, the BitSURFR Pro will flash the DTE LED to notify you of the incoming call. When this happens, you may answer the data call by exiting LocalMenu. If the Auto Answer option is enabled, the call will then be answered immediately. If the Auto Answer option is disabled (S0=0), the BitSURFR Pro will return to AT command mode and you may answer the call by typing ATA. When the call connects, a connect message will be displayed and the DTE LED will be green.