

IT*Script*Net[®]

Version 2.1

Create Powerful Data Collection
Solutions - Simply and Easily

Using the Dolphin[®] 7200



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Using the Dolphin 7200

ITScriptNet supports the Dolphin 7200 terminal from Hand Held Products. This DOS-based terminal has an 8 x 20 character LCD display, an Alphanumeric or Numeric keypad, and a barcode scanner. The 7200 is available with a laser scanner or image reader (7200 2D). Be sure you know which type of terminal you have and design your program for the correct terminal type.

Barcode Scanner Support

ITScriptNet supports both the Laser barcode scanner, which is capable of scanning 1-D (Linear) barcodes only, and the Imager, which is capable of scanning 2-D symbols and capturing images. If you select the Dolphin 7200 Laser as the Terminal Type in the **ITScriptNet** Program Generator, the features and functions associated with support for 2-D symbologies and Image Capture will not be enabled. If you select the Dolphin 7200 2-D they will be enabled.

Unsupported Features

The Dolphin 7200 terminal does not support all features of **ITScriptNet**. The following list describes features that are not supported on this device.

- Multi-Prompt is not supported. All prompts must be Single-Prompt.
- Hot Keys are not supported.
- Global Scripts are not supported.
- The GoToPrompt and ExitProgram functions are not supported.
- The SaveCollectedData function is not supported.
- Manual connection to the Auto Download server is not supported.
- Continuous Connection Mode.

Keypads

The Dolphin 7200 can have either an Alphanumeric or Numeric keypad. Entering data is slightly different with each keypad. The status line on the Dolphin 7200 display indicates the entry mode the terminal is using.

Alpha-Numeric Keypad

The Dolphin Alpha-Numeric keypad has keys for all letters, along with four Function/Arrow keys, SHIFT, ENTER, BKSP and SCAN.

Entering Letters

Enter letters using the appropriate letter key while in alphabetic mode. When entering letters, the terminal status line displays an **'ABC'** icon.

Entering Numbers

Using SHIFT or NUM LOCK plus the appropriate letter key enters a number. These are printed on the terminal keypad. When entering numbers, the terminal status line displays a '**123**' icon. Additionally, if SHIFT is pressed, a '**SHIFT**' icon is displayed in the status line.

Escape

Escape is entered by pressing SHIFT + BKSP. The terminal status line displays a '**123**' icon plus a '**SHIFT**' icon.

Function/Arrow Keys

In *ITScript Net*, the function/arrow keys are treated as arrows. These are used primarily on menus and the configuration screen. During data entry, the arrow keys are active.

Numeric Keypad

The Dolphin Numeric keypad has keys for all numbers, along with four Function/Arrow keys, SHIFT, ENTER, BACKSPACE and SCAN.

Entering Letters

Pressing SHIFT places the terminal in Alphabetic mode, indicated by an '**ABC**' icon on the status line. While in Alphabetic mode, the number keys cycle through the letters assigned to that key. For example, in Alphabetic mode, pressing '7' once displays 'A', pressing it again displays 'B', pressing it a third time displays 'C', and pressing it a fourth time returns to displaying 'A'. When you pause for one second, the letter displayed will be accepted.

Entering Numbers

Pressing SHIFT a second time places the terminal in Numeric mode, indicated by a '**123**' icon in the status line. While in Numeric mode, pressing a number key enters that number.

Escape

Escape is entered by pressing BKSP while in Alphabetic mode, indicated by an '**ABC**' icon plus an '**ESC**' icon in the status line.

Function/Arrow Keys

In *ITScript Net*, the function/arrow keys are treated as arrows. Arrow keys are effective while in Numeric Mode, indicated by a '**123**' icon and a '**FN**' icon in the status line.

Communications

Hardware, Cabling and Baud Rates

Homebase

The Dolphin 7200 terminal communicates with the PC using the Dolphin HomeBase. The HomeBase uses a standard straight serial cable. **IT.ScriptNet** always uses the default 57600 baud rate. Do not change the HomeBase settings from this default.

Communications Cable

IT.ScriptNet also supports use of the communications cable with Dolphin 7200 models that support a direct cable connection. No baud rate selection is required. You must configure the Dolphin 7200 to use the cable by making the selection on the *Edit Settings* screen.

Ports

The communication ports on the Dolphin 7200 are as shown in the table.

Com1	IR
Com2	Serial cable, if equipped

Reinitializing the Terminal

Reinitializing loads the **IT.ScriptNet** Client on the Dolphin 7200. When reinitializing the terminal, you will need to exit from the **IT.ScriptNet** terminal program in order to load the new software. To do this, select the *Utilities* menu option on the terminal, then *HHP Utilities*. This loads the Hand Held Products configuration utility. For Laser-based 7200 devices, Select **F4** (System Utilities), then **F3** (Exit to DOS). For 2D devices, press Escape to exit to DOS. The **IT.ScriptNet** program generator will prompt you to type **YFF** (or **YFF /C2** if using a Serial Cable) on the terminal to start the loading process. Once the initial transfer has completed, the **IT.ScriptNet** program generator will prompt you to type **L** on the terminal to load the remainder of the software. Finally, the **IT.ScriptNet** program generator will prompt you to reboot the terminal to complete the process. Reboot the terminal by pressing SHIFT, BKSP, and ON simultaneously.

You can choose to have your Data, Program and Validation files loaded to the Dolphin 7200 D: drive instead of the C: drive by checking this box on the Send program to terminal screen on the PC. This option would only be used if you have a Dolphin 7200 with extended memory, or on older Dolphin 7200 with a C: and D: drive.

Loading a Program

When loading a new program into the terminal without reinitializing, you need only select the *Receive Program* menu option on the terminal. The **IT.ScriptNet** program generator will send the program and any lookup files. There is no need to reboot the terminal after this.

Operation

When the terminal is running **ITScriptNet**, the main menu will appear as shown:

```
+----ITScriptNet----+
| Collect Data      |
| Send Data To PC   |
| Delete Data       |
| Receive Program   |
| Delete Program    |
| Utilities         |
+-----+-----+
```

Collect Data

Selecting this menu puts the terminal into data entry mode.

Select Program

If more than one program has been loaded, the terminal will prompt the operator for the program to run, as shown:

```
+---Collect Data---+
| Movement Program  |
| Phys Inventory    |
| Shipping Program  |
+-----+-----+
```

Highlight the program you want, and press ENTER.

Data Entry

While in data entry mode, the terminal will display the prompts you designed and save the collected data in the terminal's memory.

Pressing ESCAPE at any prompt returns the operator to the prompt designated as the Escape Prompt. Pressing ESCAPE from the first prompt exits the data entry mode and returns the operator to the *Select Program* screen.

Image Capture

If you have a Dolphin 7200 equipped with an imager, you can create data collection programs that capture images. You capture an image just like scanning a barcode. Press and hold the ON/SCAN key, and a preview of the image will be displayed in black-and-white on the terminal display. When the image you want is on the display, release the ON/SCAN key, and the terminal will take the final image. Hold the terminal still for one second to allow the terminal to stabilize the image. You may press ON/SCAN to retake the image, if necessary. Then, you can either press ENTER to save the image and continue, or press ESCAPE to exit without saving.

Send Data To PC

This option is used to send the collected data from the terminal to the PC. The Dolphin 7200 uses a HomeBase or Serial Cable to communicate with the PC. See your HomeBase documentation for information on the setup and configuration of the HomeBase.

Connect the HomeBase to the PC via a serial port, and place the Dolphin 7200 in the HomeBase. On the PC, select the *Receive a File from Terminal* option, and select the program you want to download. Press **Start Receive** to prepare the PC. On the Dolphin 7200, select the *Send Data To PC* option. If you have more than one program loaded into the terminal, you will be prompted to select the program whose data should be downloaded, as shown:

```
+-----Send Data-----+
| Movement Program      |
| Phys Inventory        |
| Shipping Program      |
+-----+-----+
|                         |
+-----+-----+
```

Highlight the program whose data you want to download, and press ENTER. The data will be transferred to the PC and placed in the data file selected when you designed the program (i.e. Access, Excel, ODBC).

After the data file is transferred, the terminal will prompt you to delete the collected data file. You should verify that the data was successfully transferred to the PC and, if so, you may delete the data from the terminal. If there was a problem transferring the data, this gives you the option to NOT delete the data, and try to send it again.

Delete Data

This option is used to delete a downloaded data file. If you have more than one program loaded into the terminal, you will be prompted to select the data file to delete. You will be prompted to confirm that you want to delete the data file:

```
+-----Delete Data-----+
| +Confirm Delete+      |
| Are You Sure?         |
| <No> <Yes>            |
+-----+-----+
|                         |
+-----+-----+
```

If you select Yes, and if you defined a password for Delete Data on the *Program Settings* screen, you will be prompted to enter that password before the file will be deleted:

```
Please Enter the
Data File
Password:
```

If you enter the correct password, the data file will be deleted.

Receive Program

This option is used to load a new or revised program into the terminal from the PC. The Dolphin 7200 uses a HomeBase to communicate with the PC. See your HomeBase documentation for information on the setup and configuration of the HomeBase.

Connect the HomeBase to the PC via a serial port, and place the Dolphin 7200 in the HomeBase. On the PC, select the *Send Program to Terminal* option. On the Dolphin 7200, select the *Receive Program* option. On the PC, press START to send the program.

Delete Program

This option is used to delete a program from the terminal. Validation files associated with the program are NOT deleted, and must be deleted manually from a DOS prompt. If you have loaded more than one program into the terminal, you will be prompted to select the program to delete, as shown:

Highlight the program you want to delete, and press ENTER. You will be prompted to confirm that you want to delete the program:

If you defined a Delete password on the *Program Settings* screen, you will be prompted for the password:

Please Enter the
Password:

If the correct password is entered, the program will be deleted.

```
+--Delete Program--+
|
| Movement Program
| Phys Inventory
| Shipping Program
|
+-----+
+--Delete Program--+
+Confirm Delete+
|
| Are You Sure?
|
| <No> <Yes>
|
+-----+
```

Utilities

The *Utilities* screen is used to control the terminal configuration or to exit completely out of the **ITScriptNet** program. If you have configured a password to control access to the *Utilities* menu, you will be prompted to enter it. If the correct password is entered, you will see the *Utilities* menu.

```
+-----Utilities-----+
|
| Edit Settings
| Delete Val Files
| HHP Utilities
|
+-----+
```

Edit Settings

The *Edit Settings* screen is used to control terminal settings. In the Dolphin 7200, you can change the Terminal Alias, Utilities Password, Power Down Timer, Port, toggle Auto-Download, and Host IP Address (**OMNI** only).

```
+-- Configuration +--
|Alias: D7200
|Paswd:
|PwrDn: 60
|Port: I
|Auto: N
|IP: 192.168.0.1
+-Esc-Exit V1.2c6 R+
```

Terminal Alias

This field sets the Terminal Alias. This field is placed in the collected data file and is used to identify the terminal that collected the data. This allows you to distinguish between multiple terminals in your organization. The data will be placed into the field named in the *Configure Receive* screen in the PC software. If you leave this field blank, the Dolphin 7200 will default it to the terminal's serial number.

Password

This password is used to control access to the *Utilities* screens. If no password is specified, these menus can be accessed by anyone.

Power Down Timer

This option sets how many seconds of inactivity will cause the Dolphin 7200 to turn itself off.

Port

This option selects the port on the 7200 to be used for communications. The choices are:

- 'I' to use the IR port for use with the Homebase
- 'S' to use the serial port for use with the communications cable.
- 'R' to upload / download over RF.
- 'O' to use the OMNI Server to upload / download.

The ports available on the Dolphin 7200 depend on the options ordered.

Auto

This option enables Auto-Download on the 7200. The choices are:

- 'N' to disable Auto-Download.
- 'Y' to enable Auto-Download.

Auto-download will use the serial port specified in the Port option above.

IP

This is where you set the IP Address of the Host PC running the OMNI Server.

Saving Changes

Pressing ESCAPE on the *Configuration* screen will display a prompt asking you if you want to save your changes. Select YES or NO using the arrow keys, and press ENTER.

```

+-- Configuration --+
+---Save Changes?---+
| Save your changes?|
|                   |
|   <Yes>   <No>   |
|-----+
+----- Esc-Exit -----+

```

Delete Val Files

This option allows you to delete a lookup file from the terminal. Selecting this option will display a list of validation files.

Select the file you want to delete, and press enter. You will be prompted to confirm that you want to delete the file.

```

+-Delete Val Files--+
| Part.txt           |
|                   |
|-----+
| +-Delete Val Files--+
| | +Confirm Delete+  |
| | Are You Sure?    |
| |                 |
| |   <No>  <Yes>    |
| |-----+
|-----+

```

HHP Utilities

Running the HHP utilities gives you access to the utilities and setup programs provided by Hand Held Products. Once you exit to this mode, you must reboot the terminal to return to **ITScript Net**.

Text Effects

The Dolphin 7200 terminal supports Reverse video text, but not Bold. The following chart lists the text effects that are supported.

\N Normal	Yes
\R Reverse	Yes
\B Bold	No
\V Bold Reverse	No

Command Line Options

The **IT.ScriptNet Plus** and **OMNI** editions include support for client command line options that allow you to integrate data collection into your custom application. By using the command line options, you can call portions of the **IT.ScriptNet** client from your custom Dolphin 7200 application.

In order to use the command line options, you will need to know the actual client program file name. The table shows the Dolphin 7200 client program file names.

IT.ScriptNet Plus Dolphin 7200 Laser	D72Plus.EXE
IT.ScriptNet Plus Dolphin 7200 Imager	D72PI2D.EXE
IT.ScriptNet OMNI Dolphin 7200 Laser	D72Omni.EXE
IT.ScriptNet OMNI Dolphin 7200 Imager	D72Om2D.EXE

Collect

To collect data for a particular program, use the syntax:

D72xxxx /C <filename.itb>

Where D72xxxx is the client program name for the Dolphin terminal you are using (see the list of Dolphin 7200 client program names to determine the name for your client), and <filename.itb> is the ITB file you want to use for data collection. This immediately loads the program file specified and begins data collection. Once the operator exits the data collection loop, the Dolphin 7200 client exits.

Download

To download collected data for a particular program, use the syntax:

D72xxxx /D <filename.itb>

Where D72xxxx is the client program name for the Dolphin terminal you are using (see the list of Dolphin 7200 client program names to determine the name for your client), and <filename.itb> is the ITB file whose collected data you want to download. This immediately begins the download process for the program file specified. Once the download completes, the Dolphin 7200 client exits.

Upload

To upload a program and associated files for a particular program, use the syntax:

D72xxxx /U

Where D72xxxx is the client program name for the Dolphin terminal you are using (see the list of Dolphin 7200 client program names to determine the name for your client). This immediately starts the upload procedure. Once the upload completes, the Dolphin 7200 client exits.

OMNI Communications

This section applies only to the **ITScript Net OMNI** edition. The Dolphin 7200 fully supports communications with the OMNI Server, with the following exceptions:

- Background downloads in Hybrid mode are not supported. If the data can not be immediately downloaded to the OMNI Server when it is collected, it will be accumulated on the terminal until the next record is collected, or until manually downloaded.
- Query Data Placeholders ({ } parameters) must match the name of a validation file field.
- ITB Program filenames must be short names – that is, they must conform to the DOS file naming convention of 8 characters with a 3 character extension. If your program file name is longer than 8 characters or contains a character (such as space) that is not valid in DOS, the filename will be translated by the PC into a short filename. This will cause the filename on the Dolphin to not match the filename configured in the Omni Server.
- Continuous Connection mode is not supported.

Terminal ID

The Terminal IDs for the Dolphin 7200 terminals, used for the Upload and Download ActiveX controls and the PC Client ActiveX control, are given in the following chart.

Dolphin 7200 Laser	3
Dolphin 7200 2D	6

Rebooting the Terminal

The Dolphin 7200 can be rebooted by pressing SHIFT + BKSP + ON simultaneously.