
Client Pro

User's Manual



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Vers.: 1.1
Ed.: 06/01

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1 INTRODUCTION

The **Client Pro** package is a stand alone software offering a visual tool to be used by the developer while working with an application developed for DL TN-Link. This tool allows creating, modifying and managing the application masks in a very simple way, avoiding the managing of the masks through a text editor.

The masks, sent by the DL TN-Link to the terminals, are a series of values specifying both the strings to be displayed and the different terminal parameters. For each mask it is possible to set the barcode characteristics, the font dimension (double height and width) and properties (blink/reverse), the input mode (keyboard/scanner, numeric/alphanumeric), and the sound modulation.

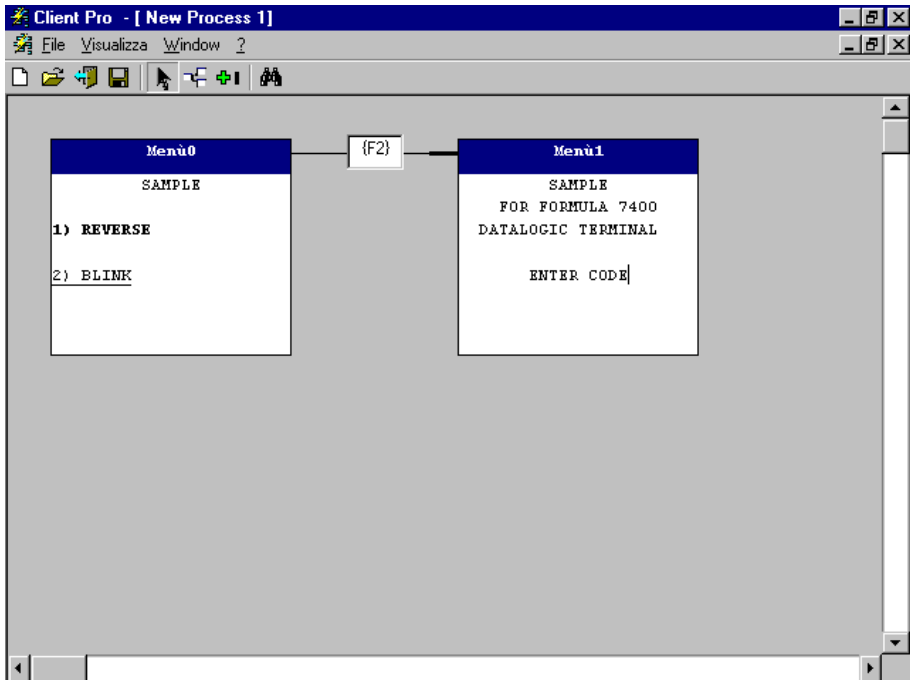
Client Pro creates automatic links among the masks. For example, while working with a defined mask it is possible to choose the order of the following ones according to the user's inputs. The management of these automatic links within the DL TN-Link occurs in a hidden way, so it cannot be modified by the developer.

It is possible to run the Client Pro program in different ways:

- Press the Windows Start button, in this case the command position can change according to the installation.
- Create a linking icon on the desktop to be double-clicked in order to run the program.
- If Microsoft Active Desktop is installed, create a link in the application bar of the system. This is probably the fastest way to start the program, since the button in the application bar looks like a desktop icon, but its selection does not require the reduction of the open dialog boxes to icons.

2 GRAPHIC INTERFACE

Client Pro is a MDI application (Multiple Document Interface). It allows opening and modifying several documents within the same application and resizing both the main window and its document windows through the same procedure.



2.1 MENU

In this section you will find the description of the main commands of each menu, through which it is possible to activate the desired function.

- The **File** menu corresponds to the typical one present in other MDI application programs. Its commands allow creating (*New*), opening (*Open*), closing (*Close*), saving (*Save* and *Save as*) the file and closing the application (*Exit*).
- The **View** menu allows the activation and deactivation of the toolbar and the zoom. The zoom can be very useful while working with several masks which cannot be displayed together in the same window. Through the "zoom in" command it is possible to minimize the masks, while by selecting the "zoom out" they can be enlarged.
- The **Window** menu corresponds to the typical one present in other MDI application programs. Through its commands it is possible to arrange tiled or cascaded windows. A list of the opened windows is also available which allows switching from one file to another.
- The **?** menu provides information about the program.

2.2 TOOLBAR

The Client Pro program provides a standard Toolbar containing standard commands such as *New*, *Open*, *Save* and *Save as*. This bar also allows management of the masks created. If you desire to know the meaning of a particular icon on the bar, just position the mouse on it and, after a few seconds, a tooltip box will appear showing a short description of its function.

The Toolbar can be displayed by selecting the Toolbar command from the View menu.

3 USE AND FUNCTIONING

Client Pro is a stand alone program providing a simple and intuitive graphic interface for the creation and management of the masks to use in a DL TN-Link application. Client Pro offers a series of tools which simplify and quicken the creation of new masks and their transactions.

3.1 CREATING THE FIRST FILE

Client Pro allows creating a complete and practical file in a very easy way. Each file contains the masks to be used in an application developed for DL TN-Link.

Once the program is started, it is necessary to select an existing file through the Open command of the File menu; otherwise, it is possible to open a new file through the New command of the same menu. You can also create or open a file by using the corresponding buttons on the Toolbar.

3.2 ADDING MASKS

Once a file has been created, it is possible to add the masks by pressing the Add button on the Toolbar. By clicking it, an input mask requiring the mask name should appear (for example Menu0). Then, a new object, the mask, should appear. It is formed by a blue bar containing its name and a number of lines corresponding to the number of strings to be sent to the terminal display.

The default number of the lines is 8 (where each line string is a number identifying the line number), while the default properties of the mask correspond to those of the Datalogic 7400 terminal. The default settings can always be modified (see par. 3.3 "Mask Property Settings" for further details).

It is possible to move the mask by simply positioning the mouse on the blue bar, left-clicking and dragging it within the window. When the mouse is released the mask position will be changed.

3.3 MASK PROPERTY SETTINGS

The mask contains the strings to be displayed on the terminal and the properties to be set on the terminal through an RF system. It is possible to modify the string in the mask lines containing them. Each line also provides the Copy, Cut, Paste, Undo, blink and reverse commands. All these functions can be selected in a popup menu appearing by right-clicking the mouse (the cursor must be positioned on the line to be modified). By modifying the blink and reverse function the string display mode is modified, too. In particular, a string in reverse mode will be displayed with bold characters, while a string in blink mode is displayed with underlined ones.

The terminal properties can be selected by positioning the cursor on the blue bar and right-clicking. A popup menu appears providing the Properties, Delete and Set As Default functions. The Properties function opens a form allowing the parameter setting; the Delete function deletes the process and the automatic transactions; the Set As Default function allows the creation of masks using the properties and the strings of the current one.

3.4 PROPERTIES

The terminal properties can be easily modified thanks to the Properties command. Once it is selected, a form appears showing all the parameters divided according to the group they belong to.

The terminal groups are: Terminal Attribute, Process Attribute, Video Attribute, Alarm Control, Display Control, Barcode Control Parameters.

The screenshot shows the 'Properties' dialog box with the following sections and values:

- Terminal Attribute:** Terminal Type: Formula 7400; Input Mode: Scan And Key; Input Validation: Characters between 0x20 and 0x7F.
- Process Attribute:** Process Name: PROCESS0; X Cursor Position: 1; Y Cursor Position: 1; Proprietary Command: .
- Video Attribute:** Double Wide: ; Double High: .
- Alarm Control:** Alarm Duration: 150; Alarm Frequency: 0; Scan Duration: 300; Scan Frequency: 300.
- Display Control:** (Section header visible).
- Bar Code Control Parameters:**

	State	Min len	Max Len	Depend
Codabar Control	<input checked="" type="checkbox"/>	1	54	0
Code 11 Control	<input checked="" type="checkbox"/>	4	54	0
Code 128	<input checked="" type="checkbox"/>	1	54	0
Code 39	<input checked="" type="checkbox"/>	1	54	0
Code 49	<input checked="" type="checkbox"/>	0	0	0
Code 93	<input checked="" type="checkbox"/>	1	54	0
D 2 of 5	<input checked="" type="checkbox"/>	1	54	0
Interleaved 2 of 5	<input checked="" type="checkbox"/>	1	54	0
Ean - 13	<input checked="" type="checkbox"/>	0	0	0
Ean - 8	<input checked="" type="checkbox"/>	0	0	0
Plessey/Msi	<input checked="" type="checkbox"/>	4	54	0
Upc - A	<input checked="" type="checkbox"/>	0	0	0
Upc - E0	<input checked="" type="checkbox"/>	0	0	0
Upc - E1	<input checked="" type="checkbox"/>	0	0	0

3.4.1 Terminal Attribute

This group provides the general terminal properties: *Terminal Type*, *Input Mode* and *Input Invalidation*. Modifying these values is very simple, since a list of all the possible values is available.

The **Input Mode** defines the input peripherals enabled by the user (keyboard/scanner), the possible values are:

- **0 Scanner and Keyboard** (default): data initially accepted from either the keyboard or scanner. Scanning, allowed on a partially keyed field, causes the keyed data to be discarded and the scanned data to be accepted.
- **1 Scanner or Keyboard**: data initially accepted from either the keyboard or scanner. Scanning is not allowed on a partially keyed field. If the operator clears the field then scanning is again allowed.
- **2 Only Scanner**: only the scanner is enabled.
- **Only Keyboard**: only the keyboard is enabled.

The **Input Validation** defines the mode to be used to validate the user's input, the possible values are:

- **0** (default): only characters between 0x20 and 0x7F are accepted.
- **1** only alphabetic character are accepted.
- **2** only numeric characters are accepted.
- **3** only alphanumeric characters are accepted.

3.4.2 Process Attribute

This group provides the general mask properties: *Process Name*, *X Cursor Position*, *Y Cursor Position* and *Proprietary Command*. The X Cursor Position and Y Cursor Position functions only accept numeric values, while the Proprietary Command function forces DL TN-Link not to send Datalogic proprietary commands, rather only VT100 standard commands.

3.4.3 Video Attribute

This group provides the *Double Wide* and *Double Height* properties. In this case (different from the blink and reverse properties), it is not possible to modify the settings for a single character or a group of characters, but only for the whole display.

3.4.4 Alarm Control

This group provides the general alarm properties: *Alarm Duration*, *Alarm Frequency*, *Scan Duration* and *Scan Frequency*. All these properties only accept numeric values. The Alarm Duration and Scan Duration values can differ from those inserted, because the terminal values are managed in blocks of 55 ms. In this way, every value to be inserted is approximated to the next multiple of 55 ms. Alarm Frequency and Scan Frequency values have no block limits. The value 0 (default value) allows the terminal to choose its best working frequency.

3.4.5 Display Control

This group provides the general terminal display properties: *Row Number*, *Col Number*. The correct value of these two parameters allows DL TN-Link to send the mask correctly and Client Pro to display them with the correct dimensions.

3.4.6 Barcode Control Parameters

This group provides the features owned by the terminal for each barcode symbology. The State property enables a particular barcode and if this command is "true" the terminal accepts the barcode symbology selected, otherwise it is not accepted. The MinLen and MaxLen properties indicate the minimum and the maximum length of the barcode to be read by the terminal. The Depend property varies according to the barcode and it gets a significant value only for Code11 Control, Code39, MSI/Plessey (see DL TN-Link help for further details). The DisableAllBarcode property disables the reading of all the barcodes. It is usually used to verify the barcodes you really need to read.

3.5 ADDING AUTOMATIC TRANSACTIONS

Once the masks have been created, it is possible to set a series of transactions between them in the DL TN-Link which occur automatically as answers to particular user's input.

This operation can be useful while working with a mask representing a selection menu. In this case, it is possible to send the appropriate mask without processing the answer. You can create an automatic transaction by positioning the cursor on the Transaction button of the Toolbar and left-clicking. Then, the cursor shape should change. After that, it is necessary to click on the blue bar of the mask, drag the cursor up to the other mask and release it. Now, a new window should appear showing the starting mask (From) and the ending one (To).

To end the operation correctly, it is necessary to insert the transaction input value and press the OK button. You can cancel the operation at anytime by pressing the Cancel button. It is possible to choose a function key as input value, but in this case it is requested to enable the Enable Function Key function and choose the desired function key from the list (the function key is displayed between two braces).

If you need to identify a transaction among the overlapping masks click on the starting mask , and the transaction box became highlighted; then with the right click you can delete or modify the transaction properties. Once you have identified the desired transaction, to delete or modify the properties, you must position the cursor on the transaction value and right-click. Then, a popup window showing the Delete and Properties command should appear.