The "Custom Labels" module allows you to define labels relating to products and then print them on thermal printers.

It allows:

- to design any number of labels that may contain information relating to a product (code, description, supplier, lot, ...), defined at the time of printing or derived from other archives (product data, third parties, …)
- to print the labels extemporaneously when necessary
- to automatically print the labels at the time of issuing the delivery note or the customer's order. In this case, a copy of the label will be printed for each individual product of the document

It assumes the ability to generate labels in the various languages[1] in which labels can be programmed. For this purpose, printer suppliers provide programs (eg ZDesigner for Zebra printers) that can generate labels in a simple and intuitive way.

In this manual, the description of everything that follows the operating norms of Dolibarr is omitted, focusing only on the specific functions of the module itself.

1) Module configuration

The phase of configuration and definition of the label structure is the one that requires more attention and a minimum of competence.

1.1) Settings

The following information must be entered:

Label Printer Name or IP Address

Contains:

- the name of the "Print Type" in the case of using the "*Webapp Hardware Bridge*" (see later)
- the network name or IP address assigned to the printer.

---

1   (ZPL, EPL, FGL, ESC/POS, EPCL, ….)

- if the value is instead left blank (this is the case in which the PHP Socket extension has not been enabled or printers cannot be reached with an IP address), the printing of each label is preceded by a printer selection window; it is understandable how having to confirm this page slows down the functionality of the module considerably, in this situation the correct functioning of the module is also not guaranteed with all thermal printers on the market.

It is therefore recommended, for optimal operation of the module, to connect the thermal printer via the IP port and activate the PHP Socket extension.

Label used in … (Expeditions/receptions/Orders)

For each of the documents for which labels can be generated, it allows you to define which, among the various defined labels, is used at the time of issuing the delivery note or order.

If one of the existing labels is selected, a button is added to the module installation, in the tab of these two documents, to allow the printing of the labels.

Note that at the bottom right there is the button for carrying out the connectivity test with the printer.

Using the Webapp Hardware Bridge connector

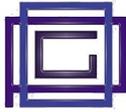This application can be downloaded and installed on all clients using the module.
Its use, through a simple configuration procedure, allows to considerably simplify the addressing phase of the printers, and does not require any technical skills.
If you opt for this option, it will be sufficient to associate a "*Printer Type*" to the label printer in the connector and then indicate this value in the following field "*Label Printer Name or IP Address*" (in the two images the **RETE** value)

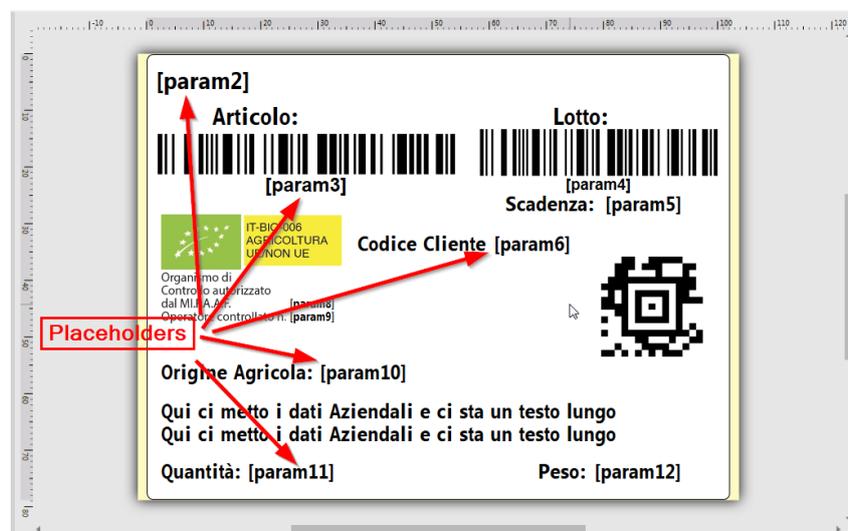## 1.2) Custom labels definition (label structure)

As mentioned it is necessary, for each of the labels to be defined, to generate a text file in one of the standard languages used by thermal printers (ZPL, EPL, FGL, ESC / POS, EPCL, ...), for this purpose the hardware manufacturers generally make label design programs available, in the absence of these it is necessary to manually define the label using the syntax of the specific language.

It is important in this phase to define the "*placeholders*" where you want the values taken from the database to be entered, when the labels are printed.

These placeholders are identified by inserting the strings [param1], [param2], ... [paramn] in the text of the label, these strings will be associated with the database fields when defining the label fields, an operation described in the following paragraph .

The figure illustrates a placeholder label generated by the ZDesigner program for Zebra printers.
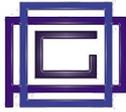

As regards the generation of the file with the ZDesigner, to obtain the necessary text file, follow the path File>>Print, turn on the "Print to File" checkbox and press the [Print] button. The obtained file (.prn) must be sent to the module.

Attention! Not all fonts are converted into text by Zdesigner, some are transformed into images and therefore the module is not able to replace the content. It is therefore advisable to open the .prn file with a text editor and check the presence of the text of all the placeholders ([param1], [param2], ...). If the strings are not present, you need to change the font of the placeholders.

1.3) Custom labels definition (label's fields)

The second phase required for the definition of the label is that which, as shown in the figure, allows you to:

• associate the previously defined text file to the label
• associate each of the previously defined placeholders with a label field.

For this purpose, the following information must be filled in for each label:

Title   Indicate here the title you want to assign to the specific label

Type   Allows you to define the type of label to be printed, there are three types of labels:

                Third Parties To print, from the tools menu, information relating to a third party

                Products   To print, from the tools menu, information relating to a product

                Advanced   To print labels from various documents (offers, orders, invoices, …)

Content of the label   The previously generated text file of the label must be loaded (see previous paragraph)
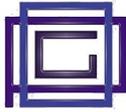

For each placeholder the following information must be defined:

🔲 Custom label

Position	1
Label	Product Code
Type	Product code ▲

Text
Number
Date
Product code
Product description
Product Barcode
Supplier code
Lot
Batch expiration date
Third Party
Custom fields

SAVE   CANCEL

Position	It is the position that identifies the placeholder number as defined in the label text. For example, by entering the value 2 here, the text [param2] of the label will be replaced with the value of the database field identified by the "Type" parameter (described below) itto)
Label	Contains a description of the field
Type	Allows you to define the specific database value that will be used to replace the placeholder. The associated list allows you to report one of the following values:

Text	When the label is printed, it allows you to manually enter a text string that will be printed on the label. This field, together with the two that follow, makes no sense if the label must be automatically printed at the time of the order or DDT
Number	When the label is printed, it allows you to manually enter a numerical value that will be printed on the label.
Date	When the label is printed, it allows you to manually enter a date that will be printed on the label.
Product Code	On the label, instead of the placeholder, the code of the selected product will be printed.
Product Description	The product description will be printed instead of the placeholder.
Product Barcode	The product barcode is printed.
Third Party Code	The third party code is printed.
Batch	The batch of the product is printed.
Batch expiration date	The expiration date for the batchis printed.
Third Party	The company name of the third party is printed
Quantity	Contains the quantity of products indicated in the document. If this particular type is present on the label, only one label will be

printed showing the quantity, otherwise n (n = quantity of the document products) different labels will be printed

Custom fields	It allows you to manage the printing of other fields, these fields are defined through functions that can be created in the "customlabels / lib / customlabels.lib.php" file. This file contains examples for creating functions

For example, having defined the placeholder [param2] in the text of the label (see figure on page 2) and having defined a label item as shown in the following figure, this placeholder will be, when the label is printed, with the description of the product

Custom label

Position	2
Label	Product Label
Type	Product description

SAVE CANCEL

2) Using the module

2.1) Manual printing of labels

To obtain manual printing, select the Tools item in the main menu and then the "Custom labels" item, the list of available labels is shown,

Upon selecting the desired label, a page will allow you to enter the necessary data and define the number of labels you want to print.

📊 Label: Customer label

Product Code	1577788991 - Il mio viaggio a New York. I... ▾
Product Label	Il mio viaggio a New York. I luoghi più insoliti e nascosti della città più visitata del mondo
Prodcuct Barcode	
Batch	⌄
Batch Expiration Date	
Third Party	Bianco giuseppe ▾
Product QRCode	No custom fields have been defined
Control Organism	
Control Operator	
Origin	
Quantity	
Weight	
LabelToPrint	1

2.2) Printing of labels from Orders and Shipments

If, during the setup phase, the label to be used in orders and shipments was selected, a new button will be proposed that will allow you to print the labels relating to the document itself.

PRINT LABEL   **RE-OPEN**   **SEND EM**

Depending on the setting of the other parameter "Request for label date in DDT / Orders", the page that allows you to modify or complete the label data before printing them will be displayed or not.