

Oracle® Retail MICROS Stores2
Functional Document
CE User Guide
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Stores2

Stores2CE - User manual - 1.20.01.0

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Note: The rebranding for the latest version of this documentation set is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this existing documentation set.

1 Introduction

This manual contains all the information for installing, configuring and using Stores2CE.

The complete languages available are:

- Italian
- English
- French
- Spanish

The incomplete languages are:

- Czech
- Slovakian
- Hungarian
- Japanese

You need to have the language you want to use in Stores2CE installed on the portable scanner. To check just look at the available languages in the portable scanner regional settings. If you are using a language not present on the PDA, Stores2CE is run in English.

2 Stores2CE server

Stores2CE server takes care of integration with Stores2 and communication with the portable scanners. The configuration of the server part is also used for the settings of Stores2CE client, installed on the portable scanners. Stores2CE server does not have a user interface or special functionalities, aside from the configuration part.

2.1 Requirements

The server must have the following software installed:

- Stores2 in a version compatible with Stores2CE (1.17 and later)
- Microsoft .NET Framework 2.0
- SQL 2005

The operating systems and hardware requirements for Stores2 are also valid here.

2.2 Installation

Stores2CE Server installation is via a specific update packet very similar to Stores2 updates (it is also a kpk). The acquisition is performed by Stores2 just like for its own update packets. The procedure creates a Stores2CE folder under the Stores2 folder; this folder contains the Stores2CE Server executable: Stores2CESApp.exe.

The kpk file also contains the Stores2CE Client updates: these are CAB files whose name contains the version, identical to that indicated in the kpk file. These CAB are automatically copied in the Stores2\Stores2CE\Updates folder. The following paragraphs explain the installation/update procedure for Stores2CE client on the portable scanner.

The kpk files are distributed by Stores2 starting from the head office towards all the nodes for which at least one Stores2 user is configured with the "utenteCE" flag enabled.

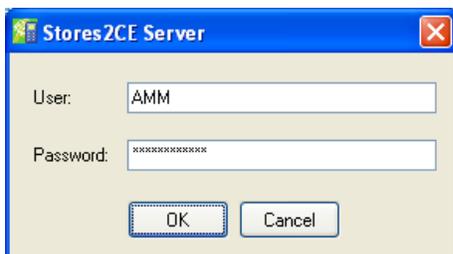
Like Stores2, it is necessary to initially install the packet related to a service pack.

2.3 Updating

The updating procedure is identical to the installation procedure. The generated kpk files always contain the entire application, both the server and client part.

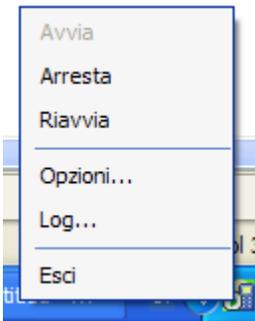
2.4 Configuration

Stores2CE Server uses the Store2.ini file present in the Stores2 folder. If you want to have a separate configuration, you just need a Store2.ini file in the Stores2CE folder.



After launching the "Stores2CESApp.exe" executable and having performed the login (initials and password, both case sensitive), the program is ready to be configured for communication with the portable scanner (PS). When first started up, the configuration is automatically displayed for the user to complete.

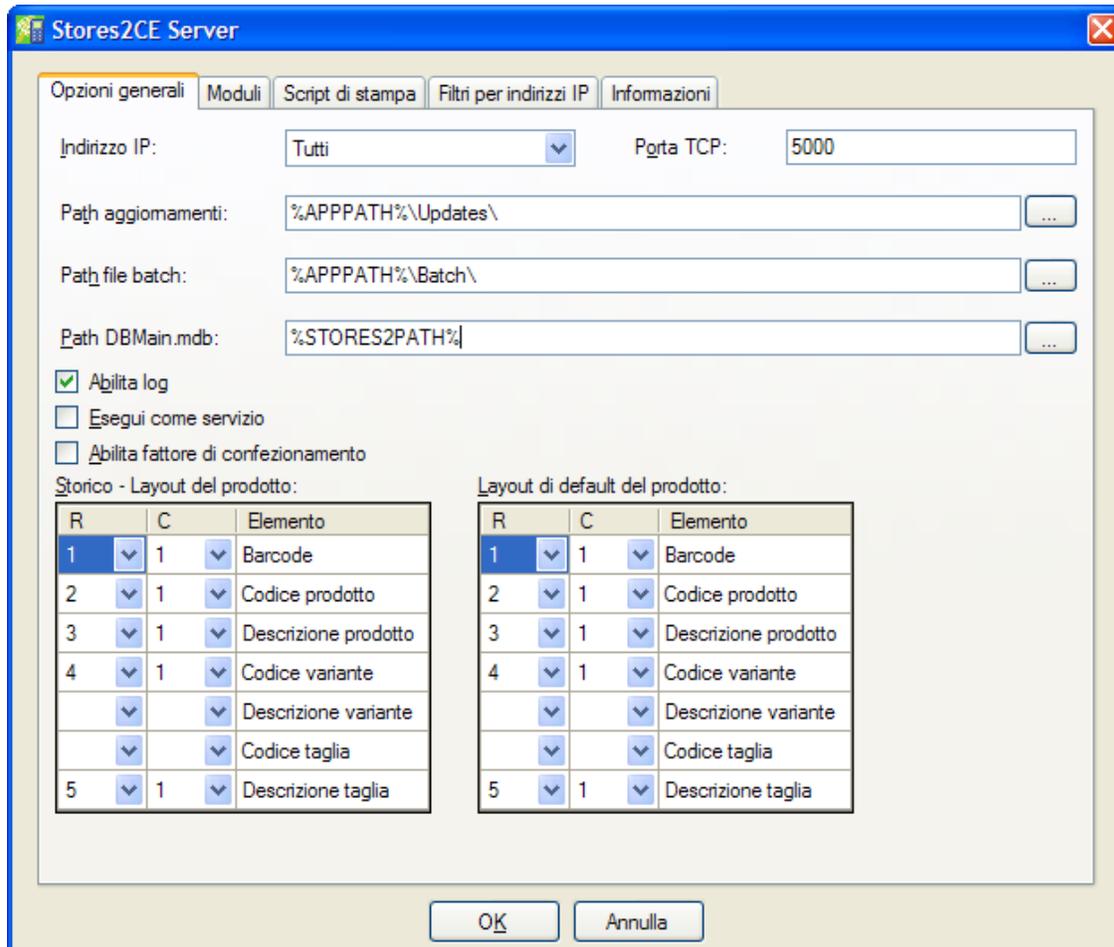
The Stores2CE icon appears on the Windows traybar (near the clock), by clicking on it with the right mouse key a menu will appear with the following items:



- Start: starts Stores2CE server, in order to communicate with the portable scanners
- Stop: stops Stores2CE server, it is no longer possible to connect with the portable scanners
- Restart: restarts Stores2CE server
- Options: opens the configuration window
- Log: opens a screen for the application server log
- Exit: exits the program.

By clicking on options the server side configuration screen will open, divided into four tabs. When restarting with the menu item, the entire configuration will be reloaded, except the information contained in the Store2.ini file. For this you need to restart the program.

2.4.1 General options



- IP address: server ip address which can be reached by the PSs; each ip address corresponds to a network form, by selecting the item "All" all of the forms are enabled to receive requests from the portable scanners
- TCP Port: is the port used for communication (it is set to 5000 by default);
- Update path: path where the CAB files are copied for client updates, the default is the Stores2\Stores2CE\Updates folder
- Path file batch: path where the files are saved generated by registering PS batches;

- DBMain.mdb path: path where the DBMain file is located for checking if Stores2 is in the receipt creation phase (a lock is managed on this file for retrieving the receipt number)
- Enable log: enables log writing in the Stores2 database S2CE_Log table
- Execute as service: used to register Stores2CE as a system service and make it available when the pc is started. The service executable is Stores2CEsvc.exe; in this case Stores2CEApp.exe only manages the configuration.
- Log – Product layout: indicates what product information needs to be displayed on the portable scanner on the reading log screen (it represents the list of beeped barcodes); with the new software version it is possible to configure on which line to display the information (column R) and in what sequence the various information needs to be displayed if it belongs to the same line (column C).
- Product default layout: indicates what product information needs to be displayed on the portable scanner if it is not overwritten by the specific form configuration.

Where you need to indicate the paths, it is possible to use the following variables:

- %APPPATH% : indicates the Stores2CE folder
- %STORES2PATH% : indicates the Stores2 folder

NOTE: if Stores2CE is installed as a service, the mapped disks may not be available.

2.4.2 Forms

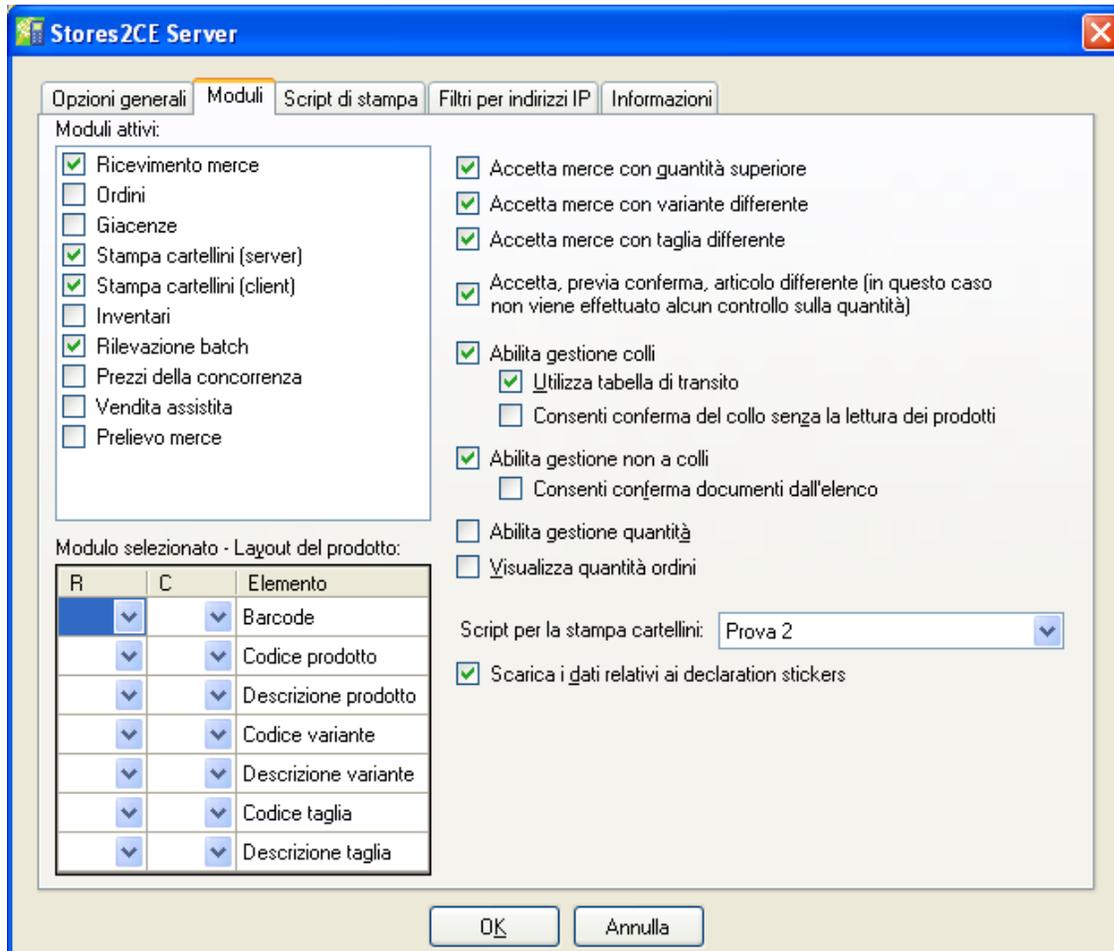
This tab is used to select the functions to enable on the portable scanners. The currently developed forms are:

- Goods receiving: compares the goods with the movements present in Stores2
- Orders: manages orders to supplier
- Stock: displays the stock information related to a read product
- Label printing (server): prints the labels using the reports created in Stores2
- Label printing (client): makes it possible to print the barcodes read on a Bluetooth printer connected to the portable scanner
- Inventories: creates count documents for inventories opened by Stores2

- Batch registration: generates text files to acquire with standard Stores2 procedures
- Competitor prices: detects the product prices at other distributors in order to make comparisons via Stores2
- Assisted sale: used to send requests for immediate delivery of products to leave for customers to try in the store. If enabled by the server, it is also possible to directly complete the sale: in this case Stores2CE creates a suspended receipt which can be confirmed by Stores2.
- Goods pickup: used to receive requests for immediate delivery of products to leave for customers to try in the store. It is also possible to reallocate unsold goods after the customer tries them.
- Identification of mass parcel receiving: used to enable parcel identification management on the portable scanner. No configuration parameters are required.
- Mass receiving: enables mass receiving management.

Not all forms require configuration, just those listed below. The "Selected form – product layout" parameter indicates which product information needs to be displayed on the portable scanner for the selected form screen; if not specified the general options default layout is used. The parameter is present on the goods receiving, orders, server label printing, inventories, assisted sale and goods pickup forms.

2.4.2.1 Goods receiving



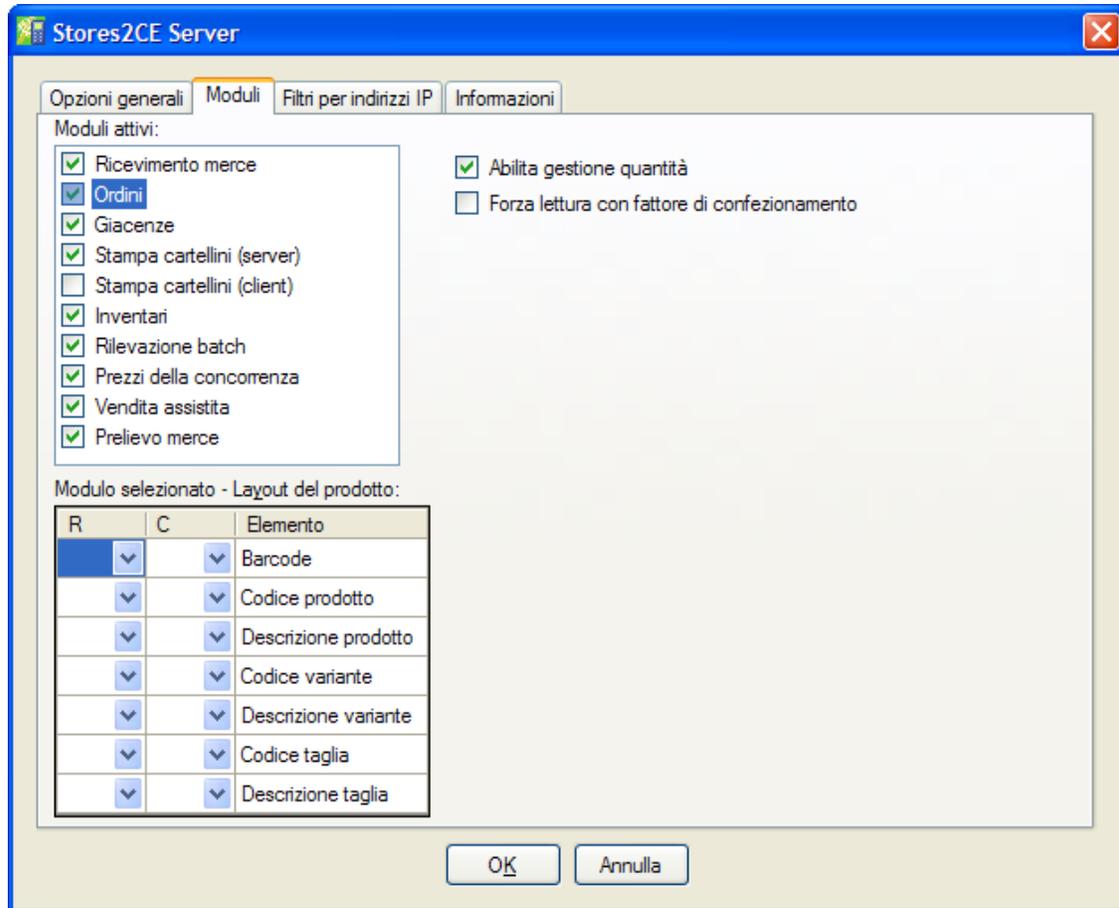
- Accepts goods with quantity greater than: for a product, used to accept a quantity greater than that planned
- Accept goods with different variant: used to read a product with a variant different from the planned products, but whose product code must be among those present in the movement
- Accept goods with different size: used to read a product with a size different from the planned products, but whose product code must be among those present in the movement

- Accept different item, after confirmation: used to read products not present in the movement, not even in terms of the product code part
- Enable parcel management: manages goods receiving by parcels, without the possibility to select a movement but considering all the parcels not yet counted of all still suspended movements
 - Uses the transit tables: indicates that documents/adjustments are not generated in goods receiving but the sent data are saved in the MovimentiTerminalino table. Document generation is then managed by Stores2.
 - Allow parcel confirmation without product reading: this function enables storage warehouse management
- Confirm original document: parcel receiving mode, it supplies the MovimentiTerminalino table and only creates an adjustment
- Allow parcel confirmation without product reading: used to directly confirm an entire parcel, without having to read all the products in it
- Enable non-parcel management: enables goods receiving with the classic adjustments, by opening one movement at a time; if this management is enabled together with parcel management, the portable scanner user will be asked which mode to use to receive the goods
- Enable quantity management: during the portable scanner reading phase, this is used to specify a quantity different from the packaging factor and from 1
- Display order quantity: on the non-parcel goods receiving screen, it also displays the quantity information for the order connected to the goods load.
- Script for label printing: used to select a label printing layout for the client printer
- Unloads the data related to declaration stickers: enables download of treatments and materials on the portable scanner.

If the two parameters "Accept goods with different variant" and "Accept goods with different size" are selected the planned product quantity will be the sum of items with the same product code and different size/variant (based on the selected check box). Entry of a quantity greater than planned is still tied to the value of the "Accept goods with greater quantity" parameter. The "Accept different item, after confirmation" check box simply influences the addition of

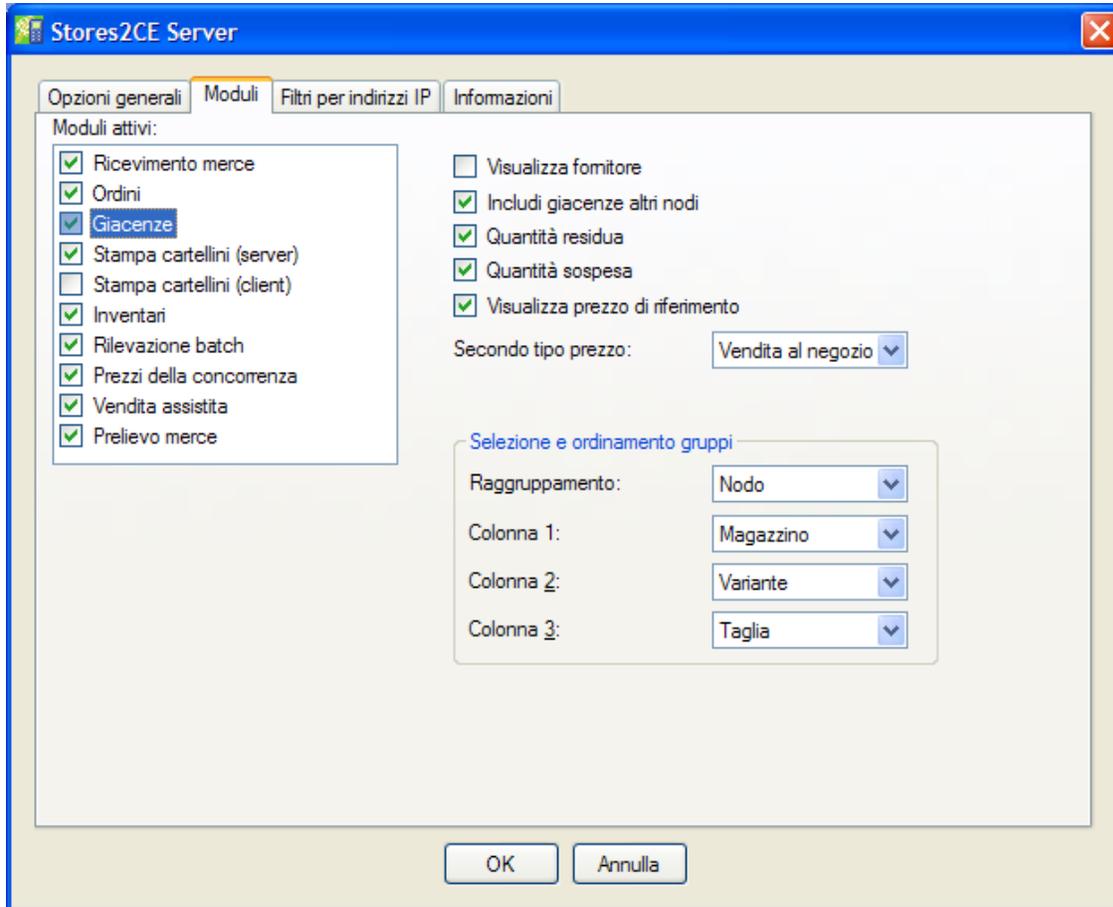
unplanned products: in this case if the user confirms the entry, any quantity can be added for the read product.

2.4.2.2 Orders



- Enable quantity management: during the portable scanner reading phase, this is used to specify a quantity different from the packaging factor and from 1
- Force reading with packaging factor: re-enables the addition of products with quantity equal to a packaging factor for the next readings if the user has specified a quantity manually.

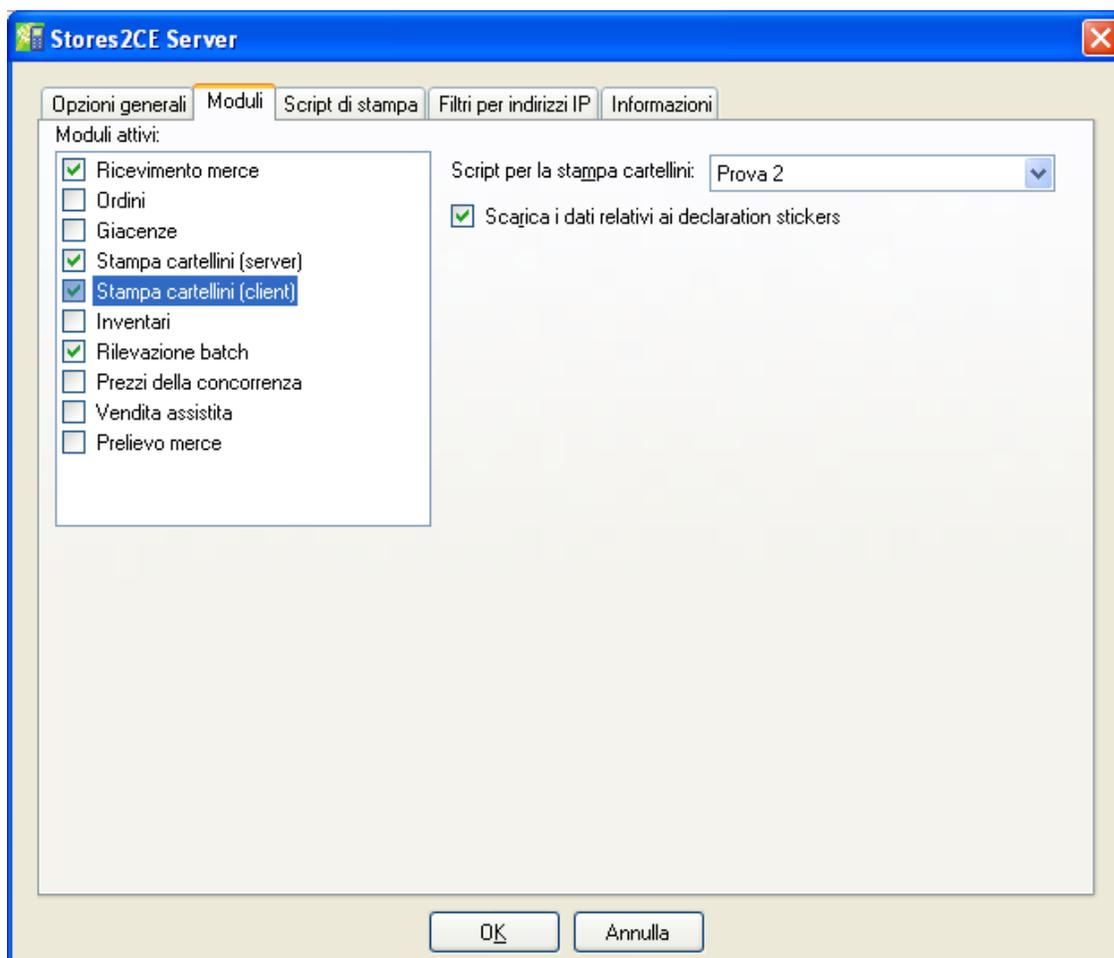
2.4.2.3 Stock



- Display supplier: information related to the supplier is shown to the user
- Include other node stock: in addition to the installation node stock, the product stock of all the other nodes present in the Giacenze table is displayed
- Remaining quantity: displays order remaining quantity information
- Suspended quantity: displays order suspended quantity information
- Display reference price: displays the reference price information in the line just after the net price

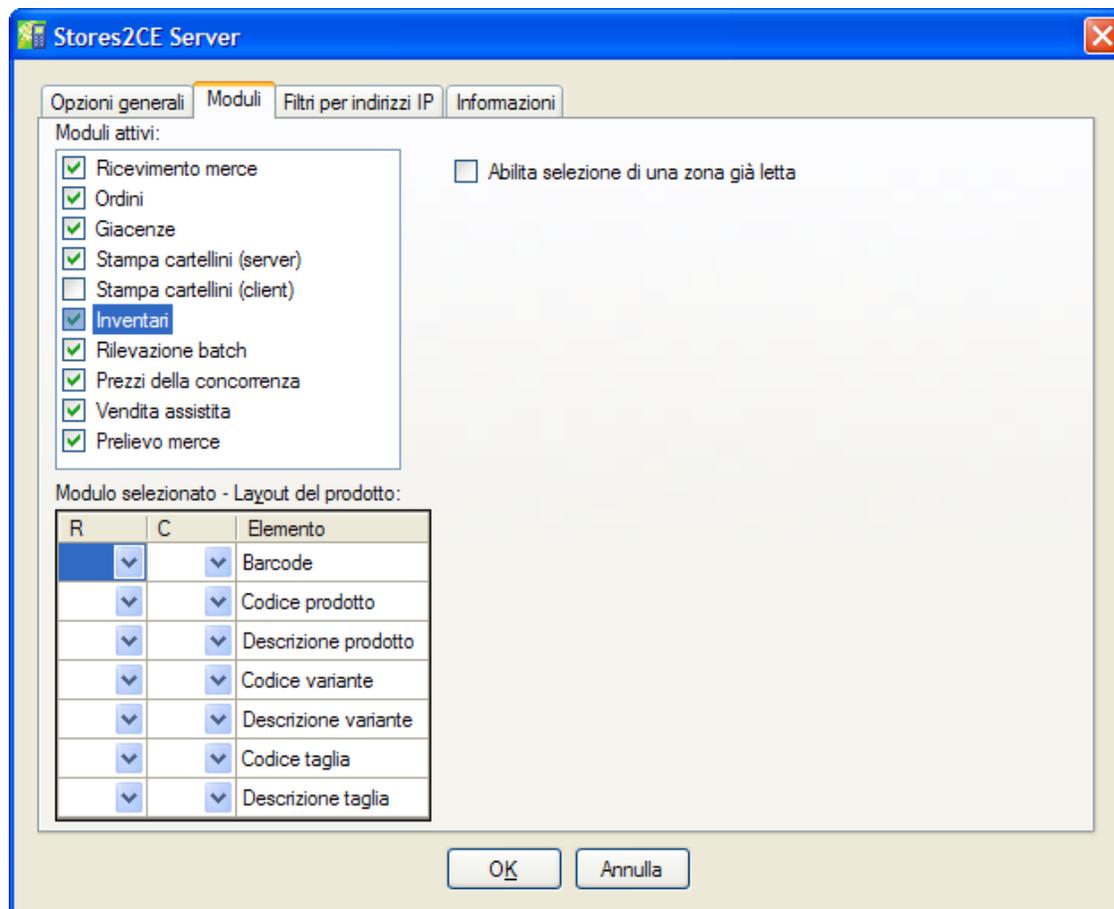
- Second price type: this is composed of a list of all the price types excluding the sales one. If a price type is indicated, the stock window on the portable scanner displays the related net price; the corresponding reference price is only displayed if the "Display reference price" flag is also set. Both of these pieces of information are entered in the lines under the sales prices.
- Group selection and ordering: used to configure which stock information to display and how to group it. The fields Nodo, Magazzino, Variante and Taglia can be used.
- Grouping: indicates which field is used to assign a value to the stock screen combobox, used as an additional stock filter
- Columns 1, 2, 3: indicate which fields to view in displaying stock data

2.4.2.4 Label printing (Client)



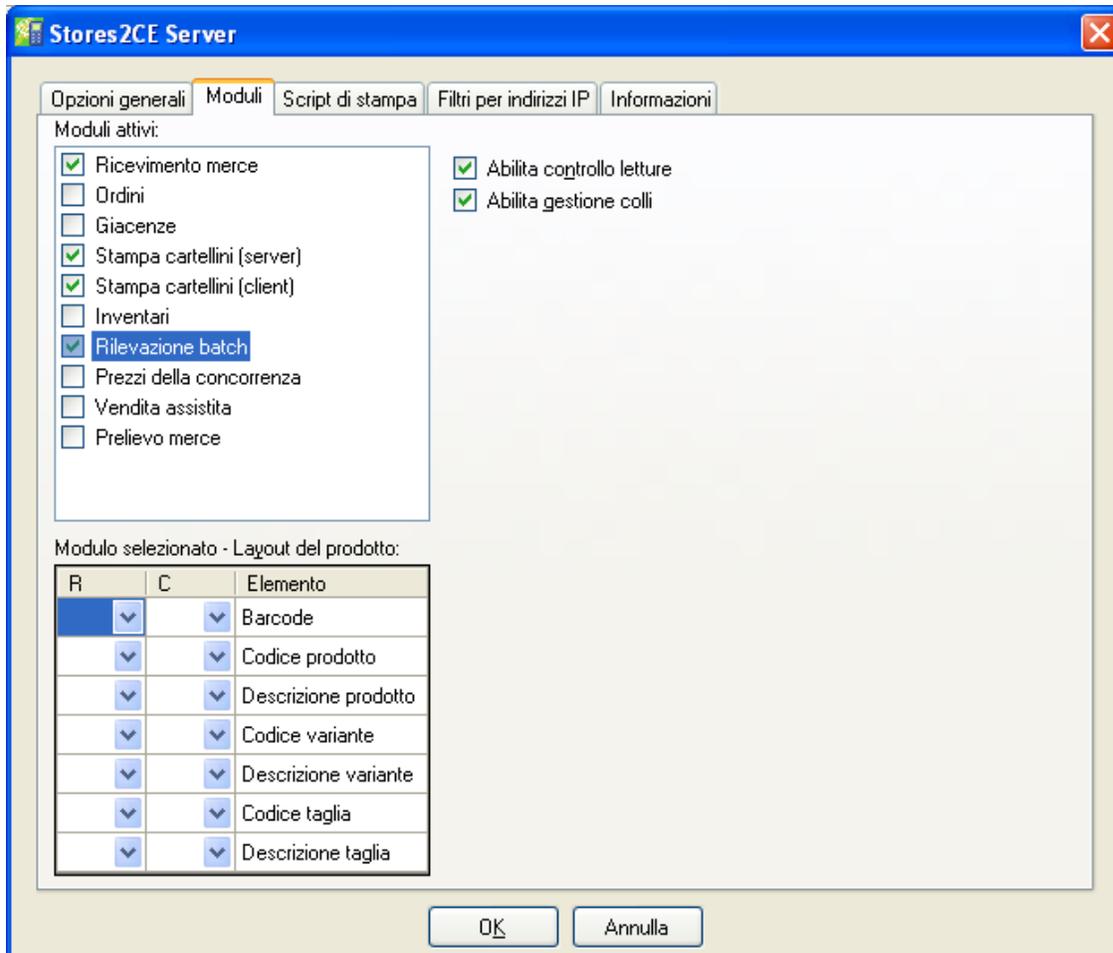
- Script for label printing: used to select a label printing layout for the client printer
- Unloads the data related to declaration stickers: enables download of treatments and materials on the portable scanner.

2.4.2.5 Inventories



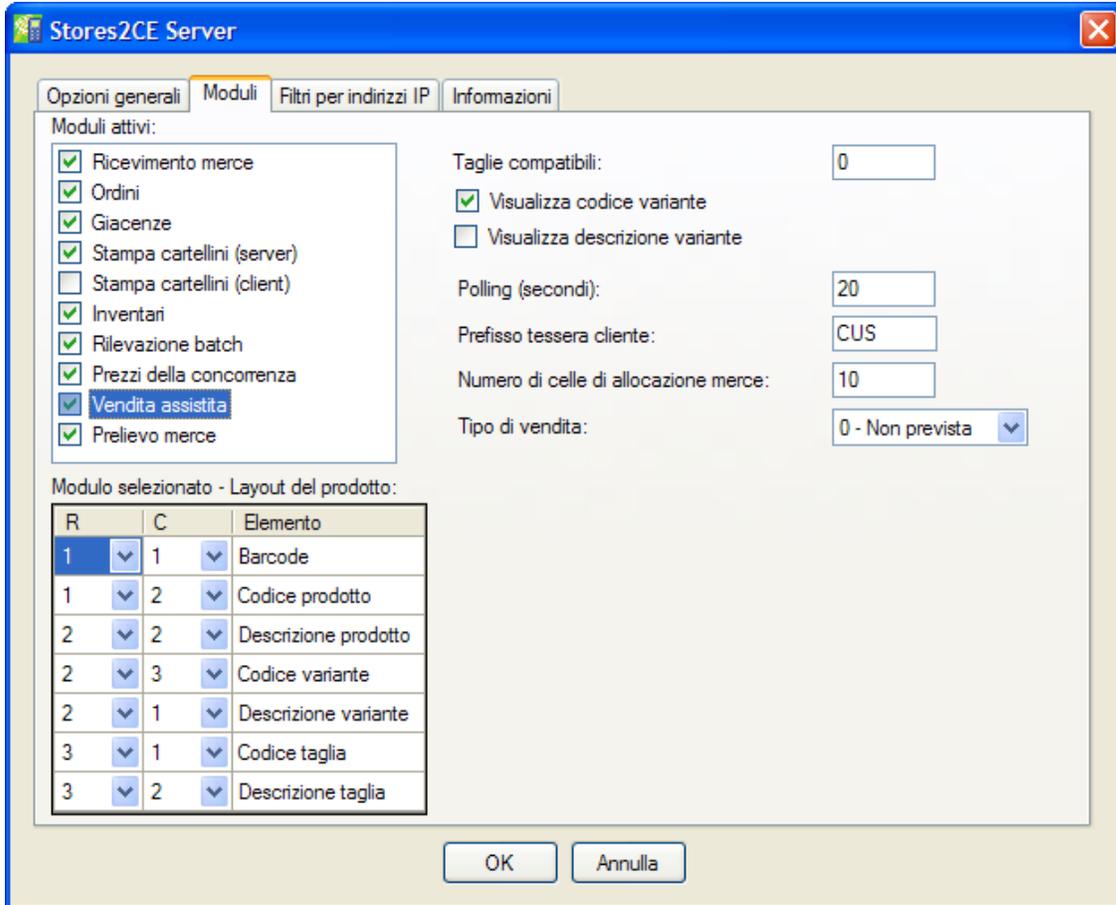
- Enables selection of an already read zone: for zone inventories, it is used to change already counted zones

2.4.2.6 Batch registration



- Enable reading control: enables downloading of product master data to perform decoding of read barcodes.
- Enable parcel management: used to perform a control on the type of barcode read. This way it is possible to prepare the files consistent with parcel operation (First a barcode and then the products).

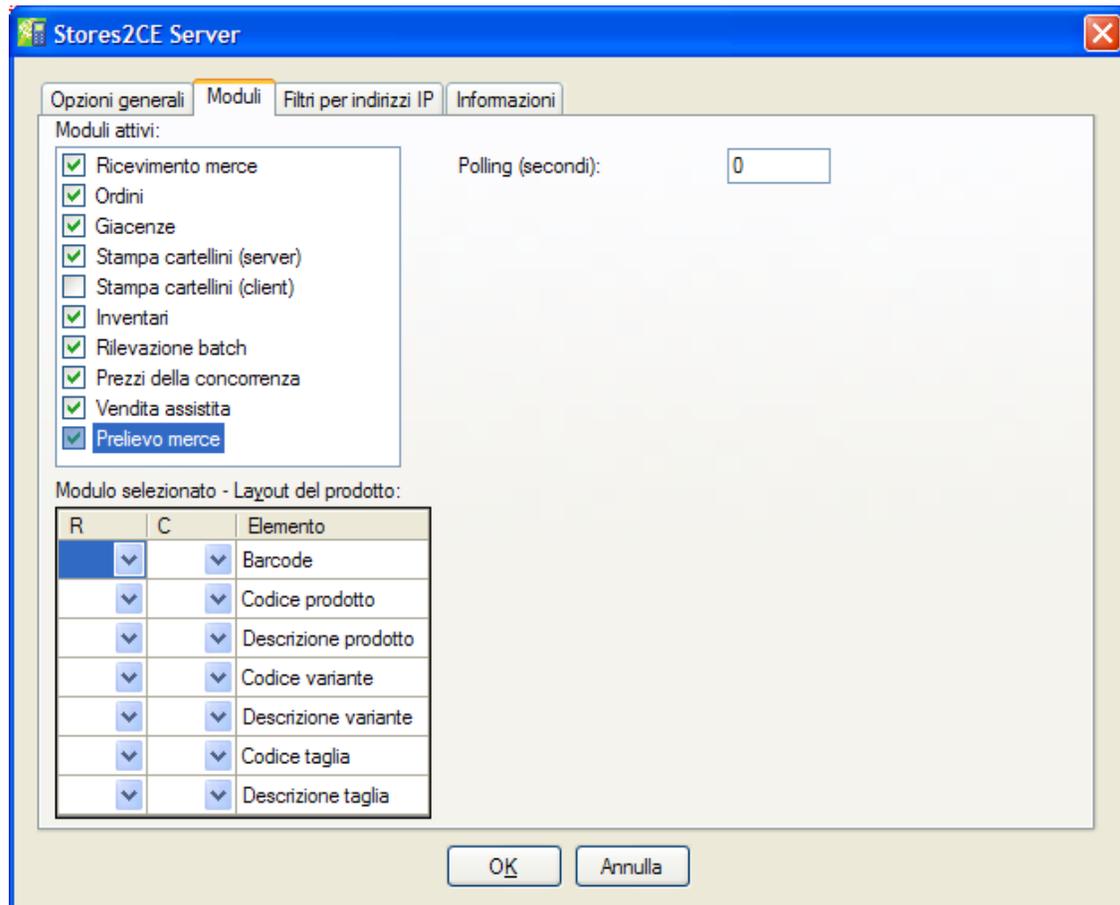
2.4.2.7 Assisted sale



- Compatible sizes: indicates the number of previous and subsequent sizes (values from 0 to 99 allowed) to include compared to the selected size; the value 99 (default) indicates that all the sizes need to be displayed.
- Display variant code: displays the variant code in the product size selection grid.
- Display variant description: displays the variant description; the information will be displayed on the same line as the variant code.
- Polling (seconds): number of seconds for automatic updating of the list; the value 0 disables automatic refresh, only manual refresh is possible.

- Customer card prefix: prefix associated to the customer card (an alphanumeric string of 3 characters which must be complete; only letters and numbers allowed)
- Number of goods allocation cells: number of goods allocation cells for assisted sales receipts (a number between 1 and 255: it cannot be left at zero)
- Sales type: indicates the sales type to the program:
 - "0": not included; it will not be possible to pass from the request phase to the sales phase
 - "1": automatic included; the cards will be used to generate suspended receipts

2.4.2.8 Goods pickup



- Polling (seconds): number of seconds for automatic updating of the list; the value 0 disables automatic refresh, only manual refresh is possible.

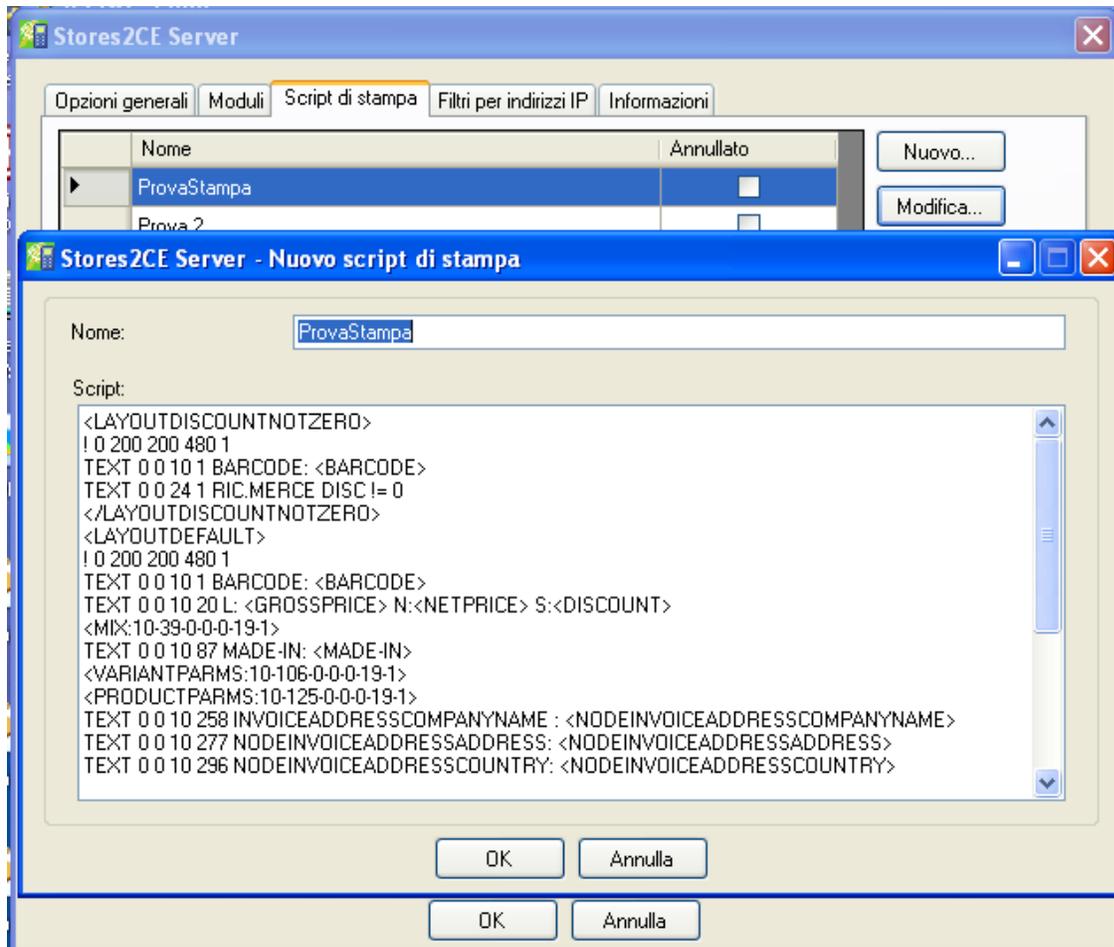
Identification of mass parcel receiving

No configuration parameters are required.

2.4.2.9 Mass receiving

- Enable quantity management: during the portable scanner reading phase, this is used to specify a quantity different from the packaging factor and from 1

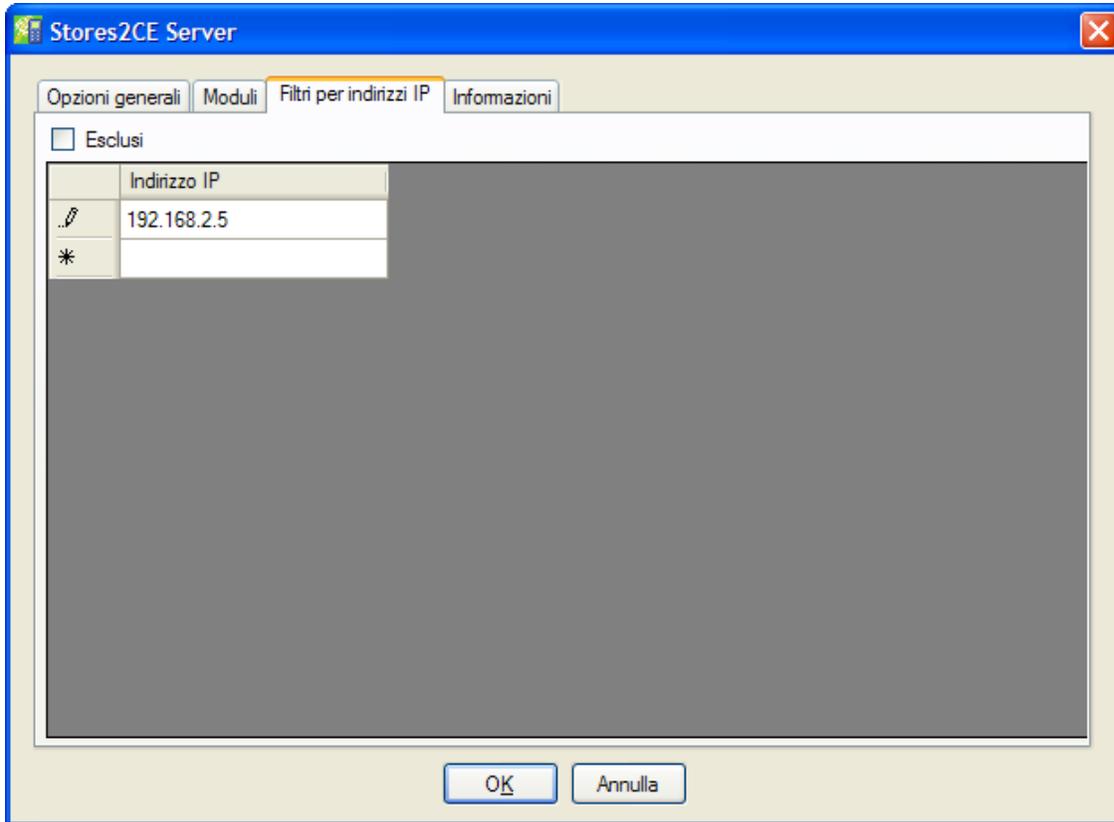
2.4.3 Printing script



In the printing script section it will be possible to define one or more layouts for label printing from the client device.

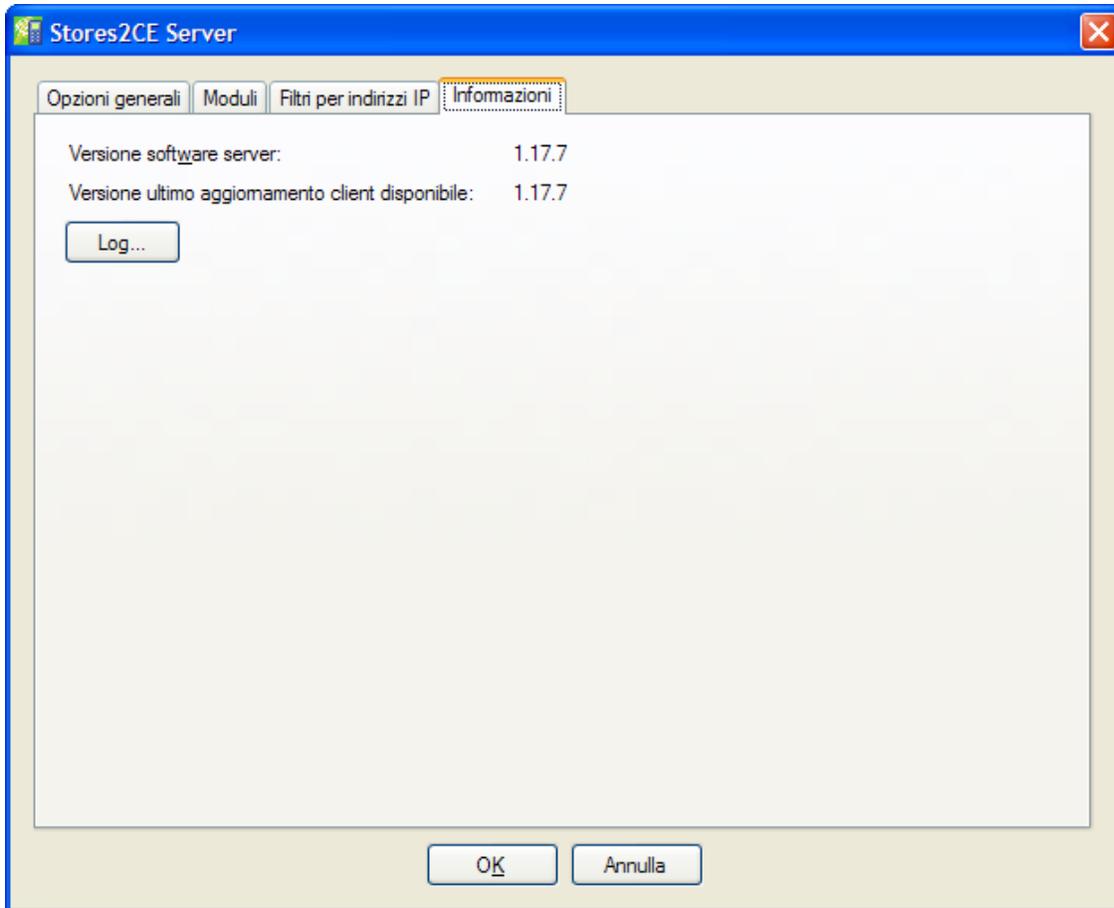
The language used will be given by the type of printer used (e.g. CPCL for Zebra printer). It is necessary to refer to the latest version of the document "DOC.08.0417.1.FG - Stores2CE Stampa lato client (creazione script con linguaggio CPCL).doc" to obtain information on the supported TAGs and text/image formatting procedures.

2.4.4 Filters for IP addresses



Indicates if and which ip addresses to enable or disable for communication with Stores2CE server. This is used to provide a software level with additional security if it is not managed via an access point.

2.4.5 Information



This is a summary screen where the updated version of the server and the latest available version for client update is shown (this refers to the CAB files in the Updates folder).

From here it is possible to access the application server log.

2.4.6 Log

Data	Indirizzo IP	Nome utente	Nome modulo	Nome funzione	Tipo	Messaggio
21/03/2008 11.29	0.0.0.0		Stores2CE.Serve...	start		Server started
21/03/2008 11.29	0.0.0.0		Stores2CE.Comm...	startListen		Start listening
21/03/2008 11.29	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.29	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.29	0.0.0.0		Stores2CE.Serve...	getS2General		FS2_GeneralWra...
21/03/2008 11.29	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.29	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.29	0.0.0.0		Stores2CE.Serve...	getS2General		new FS2_Genera...
21/03/2008 11.28	0.0.0.0		Stores2CE.Serve...	stop		Server stopped
21/03/2008 11.27	0.0.0.0		Stores2CE.Serve...	start		Server started
21/03/2008 11.27	0.0.0.0		Stores2CE.Comm...	startListen		Start listening
21/03/2008 11.27	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.27	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.27	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.27	0.0.0.0		Stores2CE.Serve...	getS2General		FS2_GeneralWra...
21/03/2008 11.27	0.0.0.0		Fortech.Stores2.1...	init		FS2_GeneralWra...
21/03/2008 11.27	0.0.0.0		Stores2CE.Serve...	getS2General		new FS2_Genera...
21/03/2008 11.24	0.0.0.0		Stores2CE.Serve...	stop		Server stopoed

In this screen it is possible to perform searches by date and ip address (of the portable scanner, or 0.0.0.0 if referred to activities/errors not connected to connections with hand-held sets) in logs recorded by Stores2CE server. The log is saved in the Stores2 database S2CE_log table.

2.4.7 Server configuration distribution

A button has been added to the option screen for Stores2CE to export configuration data, enabled only by the head office. It is used to configure Stores2CE in a single node and distribute this configuration to all the workstations which will use the application. The functionality requires the selection of addressees to whom the information will be sent. Thus the export function proposes a wizard which asks the user for the following data:

- the node parameter type

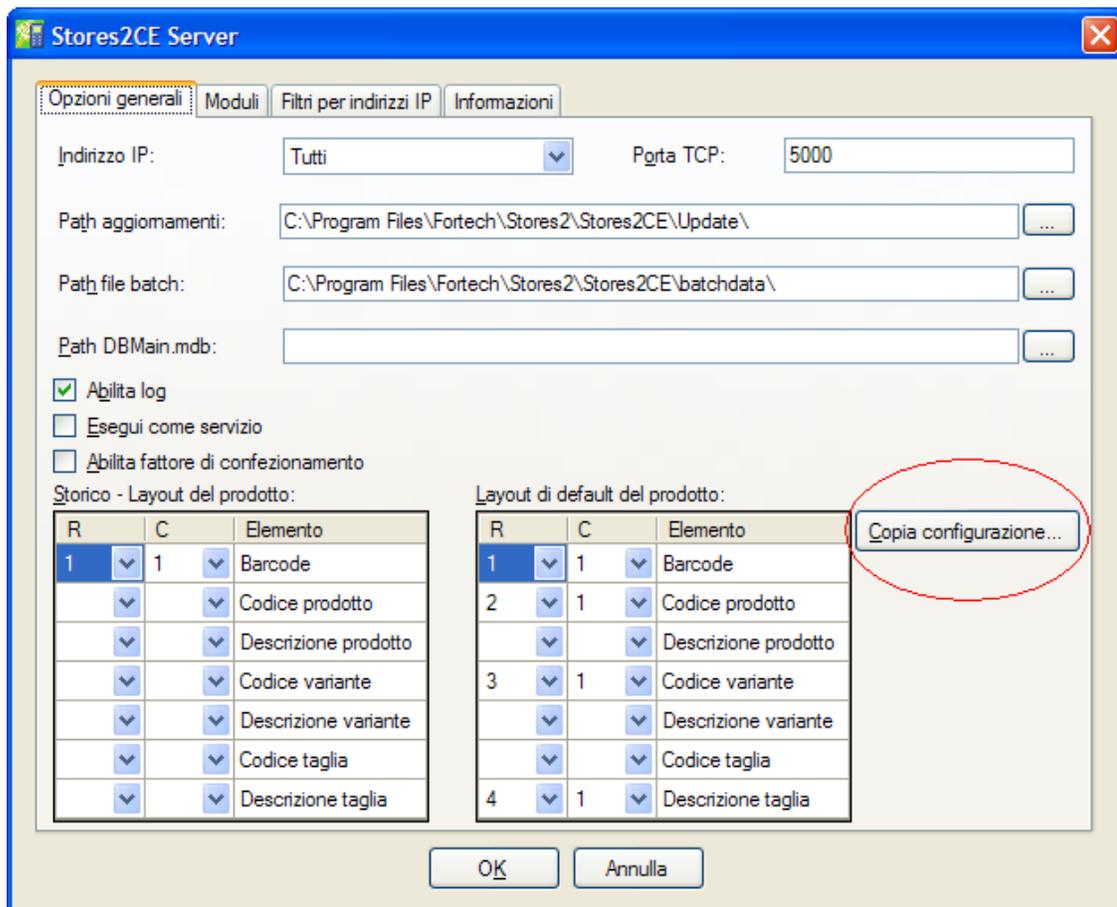
- the node parameter code connected to the parameter type of the previous step.

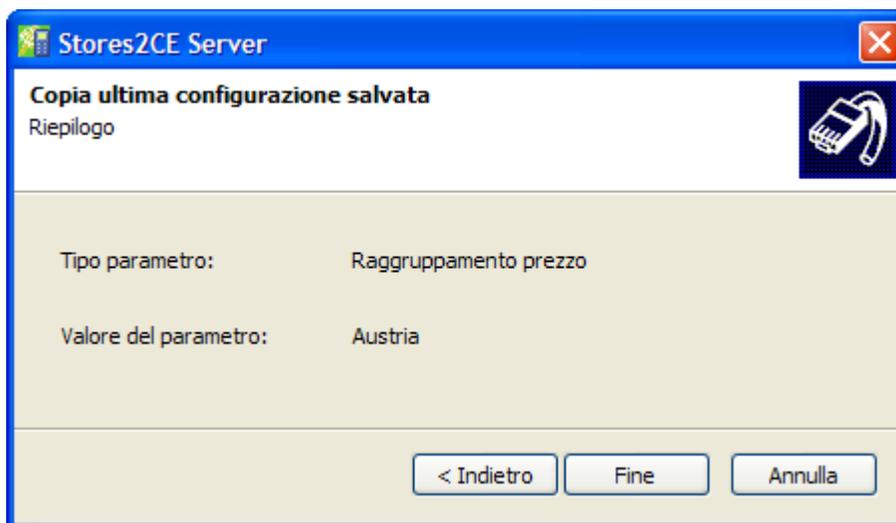
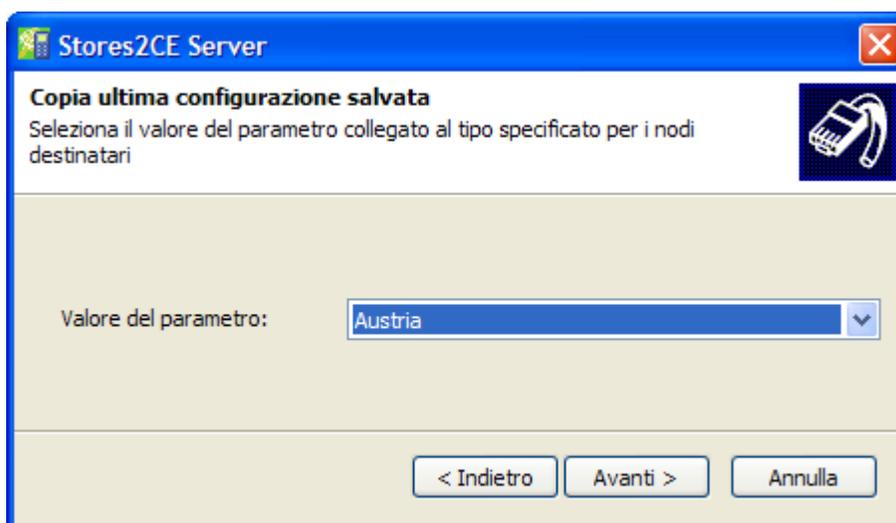
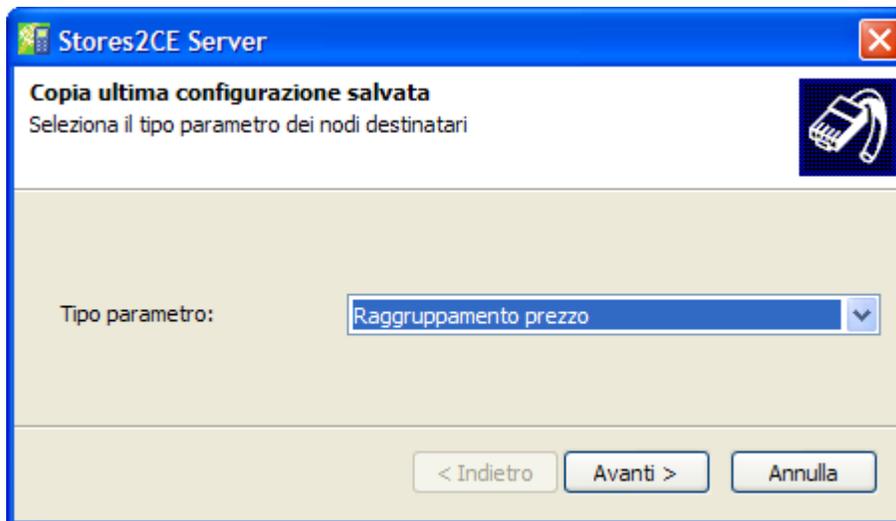
Based on the selections the addressee nodes are retrieved; the duplicated configuration records are entered in the database for each node. The current Stores2 data export procedures will take care of distributing the new records.

The addressee workstations receive the new information. Stores2CE Server monitors these records and when no clients are connected it automatically restarts initializing with the new configuration.

The only configuration parameter not distributed is the execution as service: this decision is due to the fact that in this mode it is possible to use Stores2CE Server without having to provide a username and password and this could violate company security regulations. It is also possible that some operating system or network users do not have enough rights for installing/managing Windows services: in this case the Stores2CE service mode would not work.

The wizard screens are shown below.





3 Stores2CE client

The client side part of Stores2CE is the one that uses the end user for performing all the operations with the PS.

3.1 Requirements

The client must have Windows CE 5.0 or Windows Mobile 5.0 or 6.0 operating system and the following software installed:

- Microsoft .NET Compact Framework 2.0 SP2
- SQL Server Compact Edition 3.0

For Windows Mobile it is also necessary to install an SSL certificate supplied by Fortech for authorization to execute the application.

30 free MB are also recommended to use as storage memory (also bearing in mind the software requirement installations) and 25 free MB to use as program memory.

Minimum video resolution is 240x320.

Network connection is possible via wireless or Bluetooth.

3.2 Installation

The first packet that needs to be installed is the one related to the compact framework 2.0 SP2: the packet is different for WinCE and WinMobile. For the former the "NETCFv2.wce5.armv4i.cab" file needs to be installed, while for Windows Mobile the "NETCFv2.wm.armv4i.cab" file needs to be used. After installation of the framework Windows Mobile will request restarting the portable scanner.

Once the CF installation is finished, SQL Server Mobile 3.0 needs to be installed: the packets are the same for WinCE and WinMobile. The following packets need to be installed in the specified order: "sqlce30.wce5.armv4i.CAB", "sqlce30.repl.wce5.armv4i.CAB", "sqlce30.dev.ENU.wce5.armv4i.CAB".

On WinMobile it is also necessary to install the certificate created by Fortech (WARNING: only on Windows Mobile!) distributed in the "S2CEMobile.cab" file.

Now it is possible to start installing the Stores2CE client part: just copy the latest version of the

CAB contained in the "Stores2\Stores2CE\Updates" server folder and run it. For the mobile part it is necessary to copy the file with the "_M.CAB" suffix which contains the Fortech certification. During the installation (ONLY on WinMobile) you will be asked for an additional confirmation (not necessary during later updates). During installation on WinCE or WinMobile it will be possible to select the installation path if SD Card/CF is present: there are no contraindications except for the selection of the specific checks for the WinMobile version explained in the section "[Options](#)".

The first time Stores2CE client is executed the configuration is requested.

3.3 Updating

The portable scanner update is done with an automatic procedure. When the server part is updated, a CAB is copied in the server folder Stores2\Stores2CE\Updates with the corresponding version of the client update (with suffix "_M.CAB" for Windows Mobile installations). After the next login, the portable scanner will compare its version with that available on the server: if its own version is older, it downloads the new file and at the next execution automatically installs the downloaded CAB, making a local copy of the previous version.

After executing the backup copy the client will display a standby message to the user. When the update is finished the user needs to restart the program. If the update has been executed correctly the new program version will be displayed in the titlebar.

If the update was not successful the client will try to acquire it again; if another error occurs the previous version of the program will be refreshed.

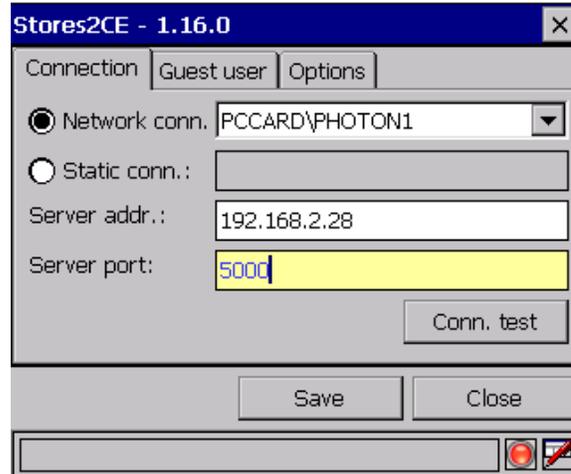
3.4 Program start-up

At start-up the program will perform a series of operations to align the data. The images will be copied related to the treatments and all the data present in the [\\ToClient\Rx](#) server side Stores2CE installation folder. All of the data will be copied in the client side Stores2CE installation folder root.

3.5 Options

When first executed Stores2CE proposes program options for configuring a series of parameters. The options are divided into four tabs.

3.5.1 Connection

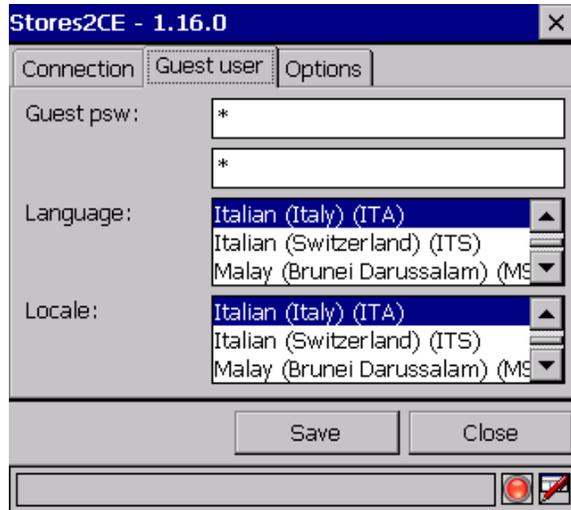


These are the parameters for the connection with Stores2CE server.

- Network connection: indicates which network form to use for the connection to the server; the application retrieves the local ip address from the form
- Static ip address: instead of selecting a network form, if the portable scanner has a static ip address you can indicate it in this parameter
- Server address: this is the name or ip address of the Stores2CE server
- Server port: this is the tcp port where the server is on standby for portable scanner connections (by default it is 5000)

it is possible to use the key "Conn. Test" to check the connection.

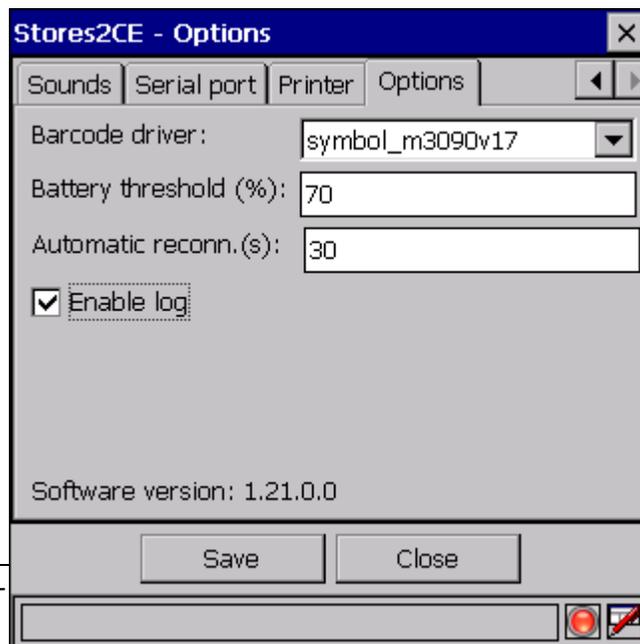
3.5.2 Guest user



The guest user can mainly be used when there is no connection with the server and is used to access the functions of [Rilevazione batch](#), [Rilevazione prezzi](#) and [Opzioni](#):

- Guest psw: is the password of the guest user, with related confirmation
- Language: indicates the language to use for the translations when you have logged in with the guest user
- Local: indicates the regional settings to use when you have logged in with the guest user

3.5.3 Options



- Enable log: enables writing the log file in the Stores2CE\Log portable scanner folder. The log enables the writing of ALL the executed queries: these are saved in the file with the name "S2CEPerformanceCounter.txt" while the program logs are written in the "S2CEFileLogger.txt" file.
- Battery threshold (%): minimum level of battery charge at which a user message will be displayed in the status bar. The bar will turn red with a white font to inform the user of the current battery charge.
- Automatic reconnection (s): used to specify how many seconds should elapse before performing a reconnection attempt to the server if the connection drops. If set to zero the reconnection activity is disabled. The minimum number of seconds that can be set is fifteen.
- Secure Digital/Compact Flash present: indicates to the program that an SD/CF form is present in the portable scanner and that the update will ask the user for the new installation path. OPTION VISIBLE ONLY ON WINDOWS MOBILE
- Request CAB with certificate: indicates to the program if the downloaded update files need to be certified. **OPTION VISIBLE ONLY ON WINDOWS MOBILE 5**. The program performs a control on the O.S. version and automatically sets to true the request if the operating system is windows mobile 6 or higher.
- Barcode driver: indicates the barcode reader driver; the paragraphs below indicate the drivers currently developed and tested.

3.5.3.1 Barcode reader driver

The barcode reader drivers for already developed devices are listed below:

- Denso_bht400 : tested on models BHT400 and BHT710-BWB, from documentation it should be compatible with other Denso models;

- Symbol_m3090 : tested on model M3090, from documentation it should be compatible with other Symbol models;
- Unitech_pa600 : tested on models PA600, PA500, PA960 and HT660, from documentation it should be compatible with other Unitech models;
- Datalogic_memor: tested on model Memor and Blackjet, from documentation it should be compatible with other Datalogic models;
- HHP_Dolphin7600: tested on the model HandHeld Products Dolphin7600. The documentation does not specify if the driver can be used with other HHP models;
- Opticon_H19: tested on model Opticon H19 , and should also be compatible with model H16. The driver is still incomplete and unstable due to problems in the driver supplied by the manufacturer;
- Metrologic_Optimus: tested on the model Metrologic Optimus SP5700. The documentation does not specify if the driver can be used with other Metrologic models;
- Nulldriver: this is a test driver, it does not interface with the barcode reader; it is only used for the test phases.

For other brands or models of these brands, other tests are definitely necessary and possibly the development of a new driver.

3.5.4 Sounds



- Informational: sound reproduced when an informational message is displayed
- Warning: sound reproduced when a warning message is displayed
- Error: sound reproduced when an error message is displayed
- Battery warning: sound reproduced when the battery charge level is equal to or less than the limit set using the "Battery threshold" field on the "Options" tab. If not set the system beep will be carried out.
- Enable vibration: enables vibration when a message is displayed (if the portable scanner supports it)
- Enable sound notification and vibration in assisted selling: enables the sounds described above and vibration in assisted sales functions

3.5.5 Serial port



The information regarding the serial port is used to put the client printer in communication with the CE terminal.

The "Ritardo stampa (ms)" field is used to configure the number of milliseconds between sending each script command to the serial. If a timeout error is displayed during printing this value needs to be increased.

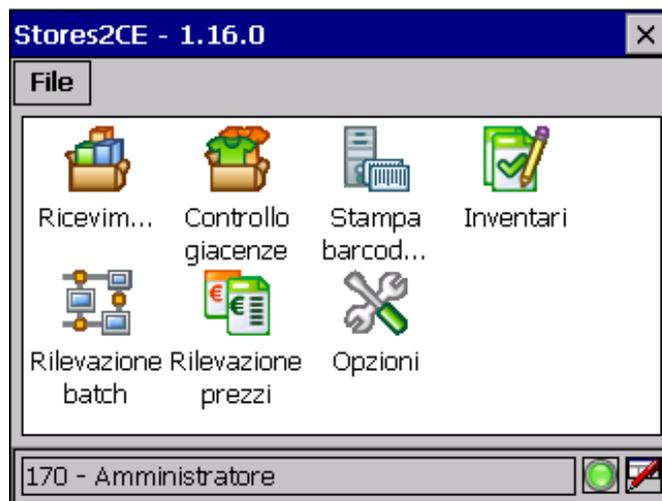
The "Ritardo copia file (ms)" field specifies the number of delay milliseconds between the copy of each file which must be sent to the printer. The file copy operation is performed when the program is started right after login.

3.6 User login



With the first start-up of the Stores2CE client, the option screen is directly opened. The program needs to be restarted and then, if the connection with the database is enabled, the CE users of Stores2 are recognized. Thus it is possible to login with one of these users or via the guest user: this user only allows offline operations, with the batch registration, registration of competitor prices and changing of the configuration options.

Once logged in, you have the program main menu available which you can use to access the various functions or disconnect the user.



The statusbar always shows the node code, user, connection status indicator (red if the connection with the server is disabled, orange during the connection phase and green if the connection is successful) and the keyboard activation function. If the connection is disconnected, just click on the connection status indicator: the connection and login are automatically reperformed.

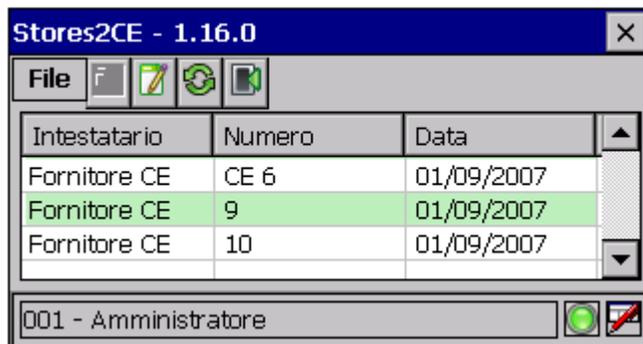
All of the functions support restoration of temporary data if the application is closed unexpectedly.

Where it is possible to read a barcode, it is also possible to enter it manually using a specific menu item.

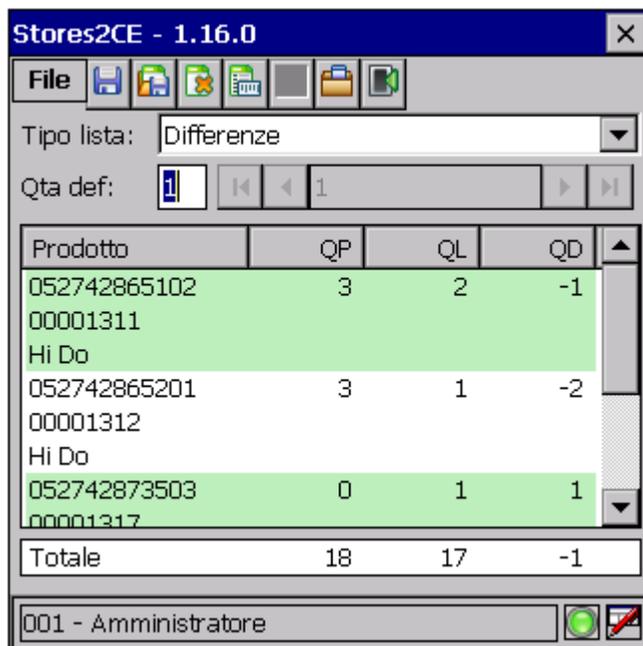
3.7 Goods receiving

From the main menu you can access this function using the "Goods receiving" key used to confirm the documents still suspended in Stores2. If you cannot open the serial port (if it has been configured in the options) a warning message will be displayed to the user to inform him/her that it is not possible to print during barcode reading.

3.7.1 Non-parcel management



The initial screen shows the list of all the movements which are still suspended, displaying the heading, number and date of the document. From this list you can enter [modifica](#) and start/continue the comparison of the selected document.



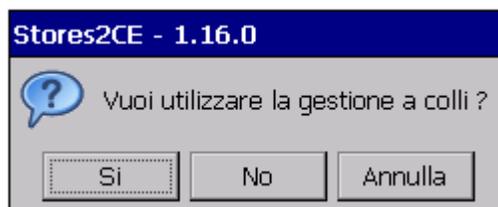
The following screen contains the list of all the products contained in the documents, with the following quantity columns:

- Planned quantity (PQ): the quantity indicated in the original document;
- Read quantity (RQ): quantity read with the PS;
- Different quantity (DQ): the difference between the read quantity and planned quantity;
- Quantity in order (QO): enabled only if the server parameter "Display order quantity" is enabled, it indicates the remaining quantity of the product present in the order connected to the load movement
- Different quantity compared to order (DQO): enabled only if the server parameter "Display order quantity" is enabled, it indicates the difference between the remaining quantity of the product present in the order connected to the load movement and the read quantity

From this screen it is possible to read the products which compose the movement, [salvare](#) the document confirming it or [salvarlo lasciandolo sospeso](#). Saving it entails sending the read data to Stores2CE server which takes care of generating the related adjustment document or confirming the original document.

3.7.2 Parcel management

If enabled it manages the parcels and if necessary also the non-parcel management, after having enabled the goods receiving function the following message is displayed:

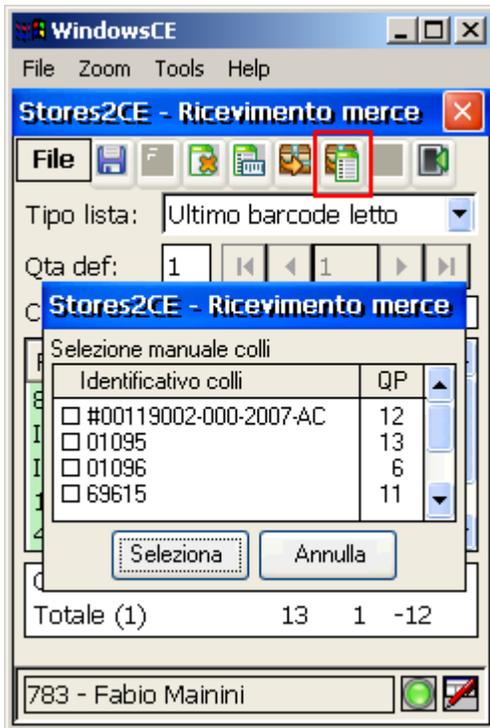


By clicking on "No" you enter in non-parcel management, while by clicking on "Yes" the parcel management barcode reading screen opens.



From this screen you can read the parcel barcode and then all the products contained in it, or only read the parcel barcode confirming that the contained pieces are the same indicated in the original document (only if the "Allow parcel confirmation without product reading" option is enabled).

Since it is not possible to read a barcode on the case of products without parcel, the operator can select it from a list which can be called with a specific tool (highlighted in the image):



The program will display a list of parcels received from the server and not yet processed by the portable scanner with the planned quantity. The operator can select one and the program will select it as if its barcode was read.

The user will also have the possibility (if enabled from the server with the "Enable quantity management" parameter) to use the packaging factor functionality without first changing each Qty reading.

The user can click on the "parcel summary" button at any time to check the reading status and possibly confirm the document from the screen.

When saving, the data are sent to Stores2CE server which takes care of creating adjustment documents or confirming the original ones based on any portable scanner reading differences. The application remains in the parcel management screen to be able to perform additional readings.

3.8 Stock control

The stock control screen is used to obtain the following information:

- Available quantity (Qty): the quantity present in the warehouse;
- Remaining quantity (RQ): the quantity ordered but not yet paid (quantity in order)
- Suspended quantity (SQ): the quantity present in still suspended warehouse movements;

Mag.	T	Qta	QR	QS
Mag.1	37	10	2	6
Mag.1	38	10	0	10
Mag.1	39	8	5	5
Mag.2	37	4	0	2
Mag.2	38	3	6	1

In the example, the screen shows a situation where two warehouses are present, plus variants and plus sizes. The read product line is highlighted in light blue. All of the size information is present and it is possible to change the variant using the combo box to see the stock of that product for a different variant.

3.9 Barcode printing

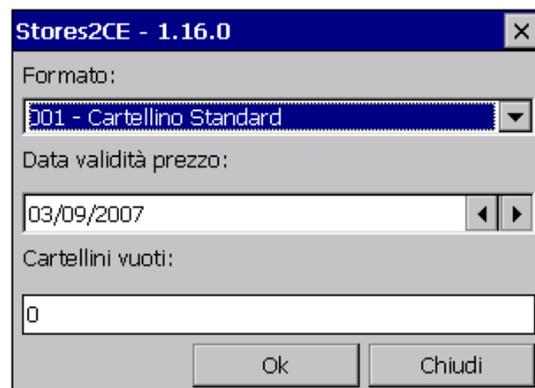
Barcode printing is used to relabel read barcodes, printing them directly on a portable printer connected to the client or on the server default printer.

3.9.1 Barcode printing (server):

From the main menu you can access this function using the "Barcode printing (server)" key. This opens a screen where you can read the various products.



At the end of the reading, using the "Print" key, you select the print format and then the data are transmitted to the server which sends the report to the pc default printer.



It is possible to keep the readings to be able to print them later.

NOTE: if Stores2CE is installed as service, there may be problems if the default printer is a network printer. This is due to the fact that the service is in execution with the SYSTEM user, a user who did not create mapping with the network printer. Just change the user in the service properties, for example assigning him or her the same user used to log on to the PC.

3.9.2 Barcode printing (client):

The functionality will only be available if the serial port has been correctly configured and a valid printing script has been configured on the server.

The module is used to print read barcodes on a printer. The program simply displays a label containing the value of the last barcode read.

3.10 Supplier orders



The screenshot shows a window titled "Stores2CE - 1.16.0" with a menu bar containing "File" and several icons. Below the menu bar is a table with the following data:

Intestat...	TO	Num doc	Q
Hill's	Acquisto...	53	243
Hill's	Acquisto...	54	171
Hill's	Acquisto...	55	3
Hill's	Acquisto...	56	8
Hill's	Acquisto...	58	4
Fornitore...	Ordine CE	1	4

At the bottom of the window, there is a status bar showing "001 - Amministratore" and two icons.

From the main menu, using the "Manual order" you access the order creation and editing management. The first screen is that of the list of already presented orders. From this screen it is possible to [Modificare](#) or [Creare](#) a new order: in the latter case the supplier and order type are required.

From the next screen, after having read the elements that will compose the order, you can [Salvare](#) the document or [sospenderlo](#). The data are sent to the server which will take care of creating/editing the supplier order in the Stores2 platform.

Stores2CE - Ordine manuale

File

Tipo lista: Tutte le righe

Qta def: 1

Prodotto	QG	QS	QR	QL
9788841204... 00006283 Dv Terrario ...	-1	0	0	2
9788841204...				4
9788841204... 00004012	1	0	0	6
Totale				142

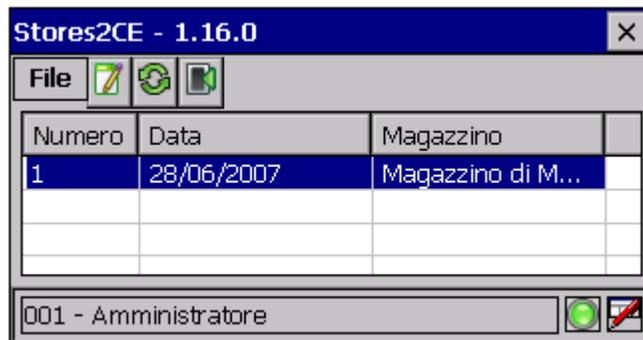
004 - Store Manager

The quantities displayed on the order screen are:

- Stock quantity (SQ): the product stock quantity
- Suspended quantity (SQ): the quantity present in still suspended warehouse movements
- Remaining quantity (RQ): the quantity ordered but not yet paid (quantity in order)
- Read quantity (RQ): is the quantity currently read in the order.

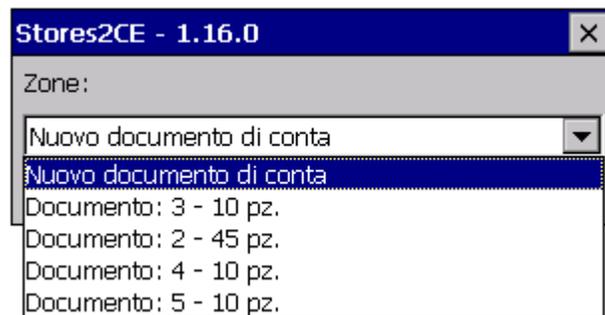
3.11 Inventories

Inventory management, like in Stores2, can manage count or zone documents. The inventories which can be used in Stores2CE must be opened and closed by Stores2, Stores2CE only manages documents/zones.



From the main menu, using the "Inventories" key, you access the open inventories. From this screen it is only possible to enter changes.

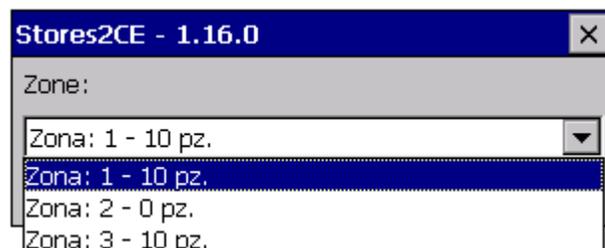
3.11.1 Count document management



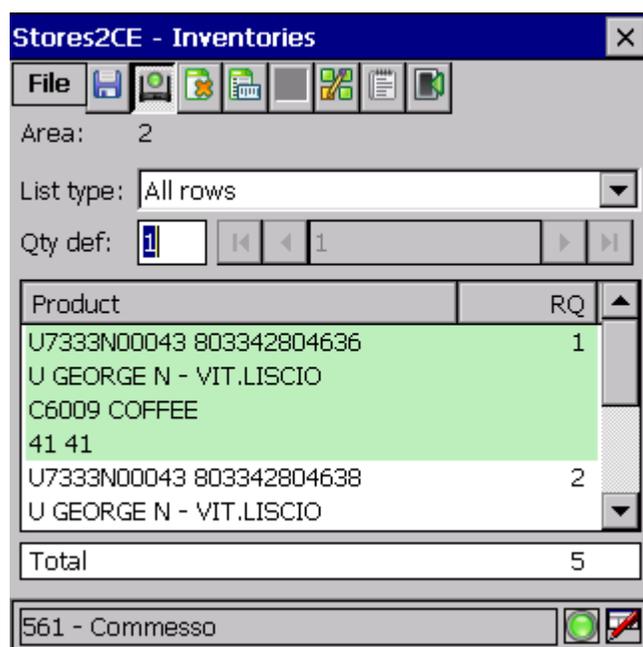
With count document management, by entering in inventory editing the program presents a screen where it is possible to select whether to edit an already present count document or create a new one.

After the selection, the proposed screen is identical to the one displayed for orders. When saving, the data are sent to the server which takes care of registering the document.

3.11.2 Zone management

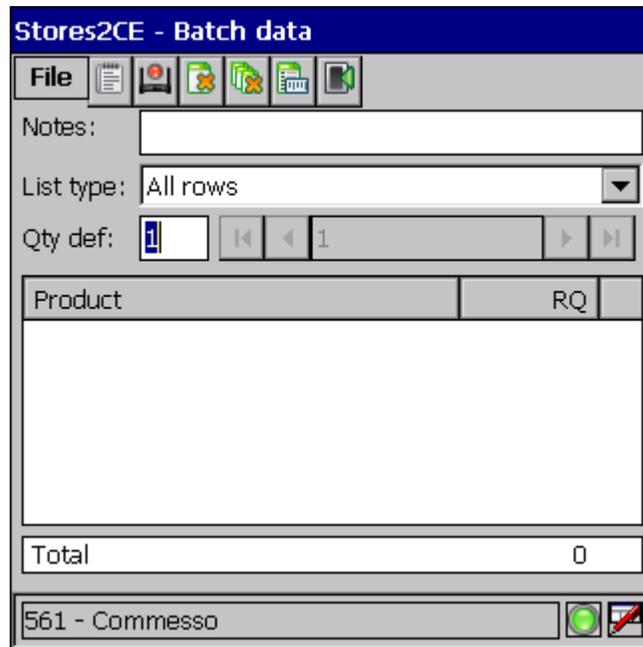


Unlike the previous management, zone management cannot be used to create new documents, but only to select already present ones. The functionalities are the same as those described in count document management, but with the additional possibility of changing the zone by selecting from those not yet counted.



A new button has been added which allows the user to work in offline mode: initially it will be disabled, but the selection made by the user will remain saved in the database and proposed again the next time an inventory is opened. If enabled the user will be able to enter barcodes without performing any decoding if he or she does not have the product master data locally. After having read all of the products of the inventory the portable scanner needs to return to any area covered by signal or it will not be possible to save the performed readings. If the products which are not decoded are not valid the program will display a list of detected errors to the user and ask whether to save the inventory without the displayed products. If the user answers no the application will remain on the reading screen and the user can continue to read new barcodes or remove the incorrect ones. To help the user a new key will be added to the toolbar (and in the "File" menu) which can be used to display a reading of invalid barcodes.

3.12 Batch registration



The batch registration function is used to read barcodes and save them on the server in the form of a text file, in the folder indicated in the "Path file batch" server option.

From the main menu, using the "Batch registration" key, you access the barcode reading screen. If the connection with the server is enabled and the "Enable reading control" server parameter is enable the product data will be downloaded. If the connection is not enabled or the "Enable reading control" parameter has not been enabled, batch registration will continue to display the barcodes without performing decoding on the readings.

A new tool will be added to the main screen to enable/suspend the online operation: if enabled and a product not present in the downloaded master data is read, it will be requested from the server part. Its enabled state will be saved in the database and will be proposed again the next time batch registration is opened. If the "Enable online work mode" parameter has not been enabled the tool will be disabled.

After having read all the products, using the "Send batch data" key, the readings are

transmitted to the server which creates a text file with the name "S2CE_BATCH_IpAddress(Es. 192_168_1_2).sixfiguresequentialnumber.NOTES.txt.

The file will contain the read barcodes and quantities:

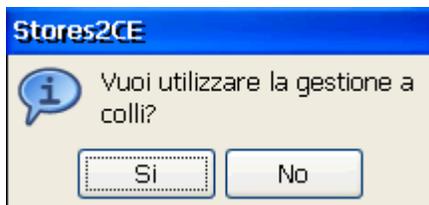
052742873909;1
052742874007;1
052742874208;1

The data can also just be saved locally to be taken later and sent just once. Batch registration is a function which can also be used offline and with the guest user.

Based on the configuration selected on the server side, it will be possible to include a barcode validity control, i.e. allow the user to only read barcodes loaded on the device (the option can be disabled with the specific tool)



and a consistency control for parcel management enableable only by starting up the function.



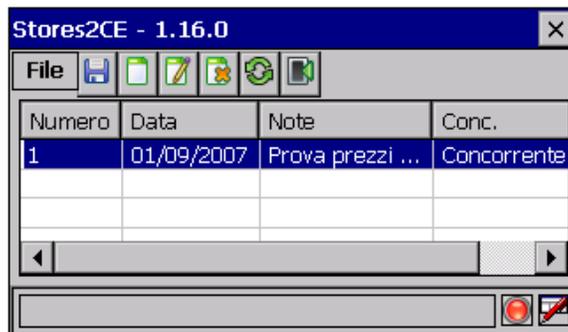
The program will force the user to read a parcel barcode before products

3.13 Price registration

The main aim of the price registration function is to acquire the barcodes of some products from an external store, called competitor, enter their prices and then perform a comparison with the prices of the store where Stores2CE is installed. It is mainly carried out offline, thus via the guest user. It only requires connection with the server when the data is sent.

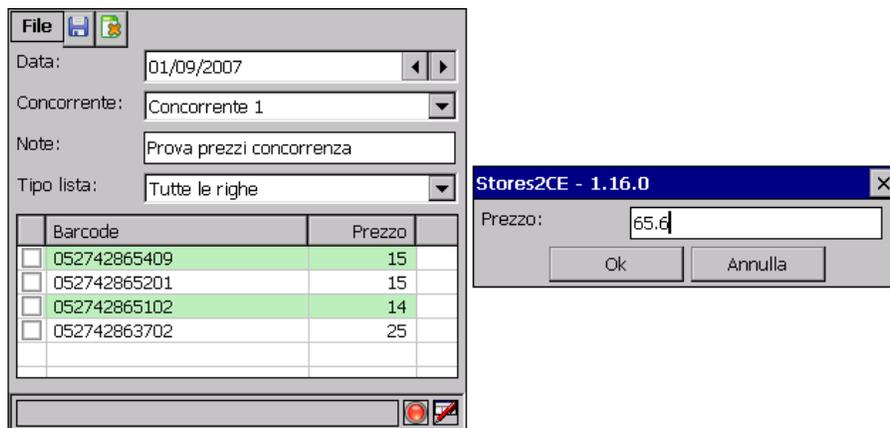
An example of the procedure for this management is shown below:

1. Since the first part of this operation is done without using communication with the server, you log in as "Guest" user.
2. From the menu access the price registration function.
- 3.



At this point a screen appears containing the reading list log. The list is formed by a numeric identification, the date the document was saved, notes and the competitor. From this screen you can create a new price list by competitor using the [Nuovo](#) key, or change an existing one by selecting it and using the [Modifica](#) key.

- 4.



The screen which appears shows the list of barcodes possibly already read and the competitor's price, with the possibility of reading new ones, changing the price or deleting it. Entry of the price is requested with each reading.

5. Once the PS is reconnected with the server, from the screen containing the list of prices by competitor it is possible to use the [Salva](#) key and send the information to the server.
6. Using a specific Stores2 function you display the list of differences between prices read and those in the database.

Riga	Codice prodotto	Descrizione prodotto	Prezzo concorrenza	Prezzo nodo
4	00001187	Bottone	0,83	0,83
3	00001193	Pantalone	36,25	24,61
5	00001198	Cravatta	1,35	1,35
1	00001202	Giacca	55,80	55,80
6	00001206	Maglietta	29,03	32,78
2	00001323	Camicia	15,35	17,39

3.14 Assisted sale

3.14.1 Introduction

To better understand the function it is necessary to present the operating scenario.

It is assumed that the store has a goods display area and a storage/warehouse area. Each of the two areas has different figures (we'll call them "Clerk" and "Warehouse Assistant", respectively). It is assumed that both areas have an adequate wireless coverage.

When a consumer has selected one of the products on display, most likely (the opposite case is an exception which, we won't consider for now, but it can be managed, as described later in the document) he or she won't find the selected size or color on the shelf (due to reasons of space, only samples of a certain color and a certain size are on display).

At this point the clerk reads the barcode of the product selected by the consumer and asks the warehouse assistant to send one or more items in the various color and size combinations (only one for each combination), also selecting the consumer's size.

The warehouse assistant receives the send goods request, gets the goods and sends them to the clerk (for example via elevator).

The clerk is informed of the fact that the warehouse assistant has sent the requested goods and brings them to the consumer to try.

This concludes the first phase of an assisted sale.

The second phase starts with the customer's decision to buy one or more products. At this point the clerk reads the code of the product the customer wants to buy and adds it to a suspended receipt. Then he or she takes the goods to the cash register. The consumer can also go directly to the cash register or continue looking in the store to possibly buy other products and perform another cycle of trying and sales.

There is another part which is the return of unsold products to the warehouse assistant. This activity is handled by a person who may be the same clerk or another figure. However, this figure is not required to perform any activity on the portable scanner. It is the job of the warehouse assistant to declare acceptance the returned products.

3.14.2 Goods request

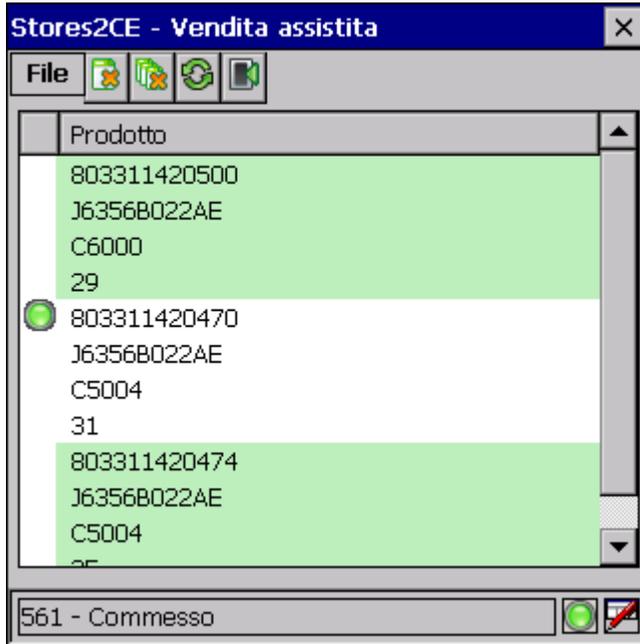
After having selected the function, the program shows the list of clerks present in the node. If only one clerk is present the window is not displayed otherwise a window is used just like the login one.



The program checks that the selected clerk is not already enabled. If positive it warns the operator of an abnormal condition, but nevertheless allows work to continue.

The clerk can be selected by reading the corresponding barcode.

After having selected the clerk, the program presents the list of requests of items to try, both open and closed (if the warehouse assistant has sent the product to the clerk, the green indicator is displayed), attributed to the clerk who started the operation.



At this point the operator is ready to accept requests for goods to send to the warehouse assistants.

It is sufficient to read the barcode of the product compatible with that desired by the consumer.

After having read the barcode the available stock of the selected product is displayed (on a grid where the variants are on the lines and sizes in the columns), of all the color variants, size corresponding to the read barcode and closest sizes, based on the set parameter, if the size compatibility parameter is equal to "99", all the sizes are displayed.



The size combobox shows all the sizes configured for the product and is positioned on the size corresponding to the read barcode. By changing the combobox selection, the grid is updated and any selections are lost.

The available quantity is displayed for each variant and size combination. This is the result of the physical stock value (taken directly from the "Giacenze.Qta" field) minus the value of the suspended quantity related just to receipts (thus it will not be possible to use the "Giacenze.QtaSospesa" field which also includes suspended warehouse movements, but the value of the suspended quantity will be extracted directly from warehouse documents.).

The foreground color of the quantity is black if the available quantity is greater than the quantity being tried, while it is red if the available quantity is less (it should never be like this) or equal to the quantity being tried. The quantity being tried is the list of requests closed by the shop clerks.

If the quantity is red, the request cannot be performed.

Instead available quantities (black) can be requested. Once a combination is selected, the background of the cell becomes light green; an additional selection cancels the request.

When the operator confirms the request using the specific confirmation tool, the number of requests added is the same as the number of selected combinations.

The control remains on the current screen with the possibility of reading other barcodes.

As the warehouse assistant sends the requested products this list is updated by adding a green signal (like a traffic light) next to the elements which have been sent.

The list updates automatically at every interval of n seconds indicated in the general parameters, by querying the main database to check the status of the requests. A specific tool can be used for manual list updating. In both cases, receiving of new information or which is different from the previous information, causes an acoustic signal to be emitted as well as updating the list.

The goods request phase ends here.

It is possible to delete a single line or all the lines associated to the currently connected user. Deletion is allowed regardless of the fact that the line has been delivered or not.

3.14.3Sale

The procedure requires that each clerk have a set of cards. Each card has a prefix the same as that indicated in the parameters for identification of assisted sales and an unequivocal sequential number.

To pass to the sales phase the clerk assigns one of the cards to the customer (or reads the one that the customer has received from another clerk):

- he or she reads the card barcode: this way the program enables the sales function displaying a window with the list of products already assigned to that card; products assigned to that customer by other clerks will also be displayed;
- he or she then reads the products the customer has decided to buy; the products are physically delivered to the cash register and placed in one of the alveolar cells which will be physically positioned near the cash register; the association between the card and cell number will take place at the time when the first product barcode is read associated to the card; in fact at that time the information corresponding to a suspended receipt will be generated in the transfer tables; obviously, the clerk can read more than one product; the sale of a product results in elimination of the corresponding request record

in order to correctly display the product availability; the deleted requests are first those of the current clerk, but, if missing, even requests of other clerks; the number assigned to the card will be the first one available starting from 1 and up to the number of configured cells and will be clearly visible in the window;

- the operation ends with a specific "Back" button which returns the control to the good request window;
- the card is delivered by the clerk directly to the cashier if the customer has finished his or her purchases; otherwise the card is delivered to the customer who, in turn, will deliver it to the next clerk in the event of an additional purchase.



The sales price is also displayed in addition to the purchased products.

When the customer goes to the cash register, he or she delivers the card assigned by the clerk to the cashier. The cashier enables the suspended receipt search function. The card code and cell number where the products are assigned will be displayed in the list of suspended receipts. The cashier selects the receipt and closes it with the normal procedures.

However, the sales phase must not be mandatory: the operator may accompany the customer to the cash register with the selected product and generate the receipt manually; in this case the problem is that the request is not eliminated and the product is classified as still in the

trying area while it has already been sold and is thus no longer available; it is up to the operator to manually cancel the single request or all the suspended requests;

The sale of a product already on display does not entail any operating differences. The only eventuality that needs to be managed is the absence of a request record. However, bear in mind that the program still performs the search phase for the request from those of the current clerk and then those of the other clerks. If the search has a positive outcome the request is deleted; if negative no operation is performed on the requests while the sale is processed normally.

There are also two tools for deleting the single line or the entire receipt. Deletion of lines associated to other clerks is also allowed.

3.15 Goods pickup

This form is connected to the goods request described above

After having selected the function, the program shows a tab where the first element is for handling the clerks' requests (we'll call it "Pickups") and the second to indicate redelivery of products (we'll call it "Returns"). "Pickups" initially displays the list of open requests.



The requests are listed in FIFO order and for matching products: i.e. the product (neutral) requested before is identified and, for that, all the colors and sizes, even of any other requests received later, are picked up.

For each product the information selected in the configuration phase and remaining quantity to pick up is shown.

When a code is read the program checks if the corresponding product is present in the list of items to pick up; if not it sends an error message to the operator and the reading is rejected; if positive, the read quantity is subtracted from that requested and, if the remaining quantity is zeroed out, the line is removed from the list.

In addition to updating the list from the client side, the server updates the status of the request table indicating that the requested product has been picked up (and thus will be shortly available). In the event of various requests for the same read barcode at the same time, the program updates the oldest lines.

Once the product barcode is read, implicitly notifying the clerk of the availability of the requested product, the warehouse assistant's activity is concluded in terms of Stores2CE. The actual positioning of the products on the elevator does not have to be managed.

In terms of the clerk, with the product availability notification, the goods request phase is concluded.

3.16 Goods reallocation

This function is used to manage the operations which require that someone physically collects the goods sent by the warehouse assistant to the trying area and unsold and returns them to the warehouse assistant.

After having selected the function, the operator just needs to read the product barcodes as he or she puts them back on the shelves (the program does not display a list). When a record is read the program subtracts a piece from those on the list. If a product is not registered on the list the program will ignore the operation without any warning message. The window only displays the read product information.



4 Parcel identification

After having enabled this function the program will check if there is a mass receiving present enabled by the PC for the installation node (in this case, consistent with what occurs for normal goods receiving, it is not possible to use nodes other than the current one, like the nodes from which the warehouse is managed).

Thus a simple list of "receivable" parcels will be extracted: this list will be sent to the CE terminal which can read and then send the list of read parcels to the server.

5 Mass receiving

By enabling the function on the portable scanner, the server downloads the list of zones still to be read on the portable scanner (the same operation as for inventories) and the list of products connected to parcels/documents to receive (not only those declared as object of the goods receiving). As a precaution, all of the colors and sizes of the selected products will be extracted in order to manage any color and size differences.

If there are other zones to read, once the user enters in the reading screen he/she can change the current zone by clicking on the "Change zone" tool, similar to what occurs with inventories.

At the end of the reading operation the portable scanner sends the data for each zone to the server. The server certifies that there is not overlapping of zone reading and will update the receiving situation. After saving if there are other zones to read they are proposed to the user: after confirmation the saved document will be removed and it will be possible to read the products to associate to the selected new zone. If the user clicks on "Cancel" he/she will return to the main program page.

The subsequent zone data reading will optimize the data download function from the PC which will not be repeated as long as you do not exit the function. However, the list of zones to read will always be updated.

6 Common functions

This chapter summarizes the functions which are present in various screens.

6.1.1 Reposition

A "Reposition" function is present in the file menu on all the screens used to center the screen if it has been moved.

6.1.2 New



The "New" function is used to create a new document related to the screen where the function is launched.

6.1.3 Edit



The "Edit" function is used to edit the selected element of a list.

6.1.4 Update



The "Update" function is used reload elements present on a list.

6.1.5 Save



The "Save" function is used to save the data edited on the screen.

6.1.6 Suspend



The "Suspend" function is used to save a document keeping it suspended, thus making it possible to change it at a later time.

6.1.7 Delete line



The "Delete line" function is used to delete the selected line from the list.

6.1.8 Reading log



The "Reading log" function is used to display the list of the last readings taken with PS in a document, order, etc.

6.1.9 Manual quantity – Packaging factor



The "Manual quantity – Packaging factor" function (there are two statuses which this function can assume) is used, if the packaging factor is used, to enter the number of pieces in unit quantity and then manually specify the entered value, or take the packaging factor value as reference.

6.1.10 Exit



The "Exit" function is used to exit the screen you are on.

6.1.11 List type



The "List type" function is used to display the read products, all the products, or only the last read in the list of read products or (this option is only present in the good receiving phase) is used to see all the differences between the original document and the one you are reading.