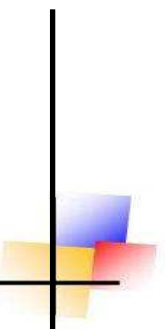


# Web software application for Spare Parts dealers



## Web software application for Spare Parts dealers



## The system

This software application has been designed for companies that sale Spare parts.

The system allows spare parts dealers to

- ✓ schedule
- ✓ purchase
- ✓ store
- ✓ sell
- ✓ manage
- ✓ check

spare parts.

This is a leading-edge application both in terms of software design than communication technologies. It is completely compatible with our “ERP” (Enterprise Resource Planning) system called “E.G.G.s.web” (Enterprise Governance Global solution.web) which is:

- ✓ *new*: it has been designed with Java “web” technology so it can be used both in the “internet” than in the “intranet”. The company can communicate in real time with all authorized users, working both inside (employees) than outside of the company (agents, resellers, customers, suppliers, third parties and so on)
- ✓ *simple*: it has been designed to be user-friendly, intuitive and it is supplied with an online manual.
- ✓ *safe*: it has been designed to allow different security policies so that information can be safely transferred also using the “internet”
- ✓ *modular*: the system is composed by different modules, linked with each others but autonomous and that can be progressively implemented in time
- ✓ *flexible*: it has been designed with a “scalar” technology: the system can follow the corporate growth and adapt itself to new corporate needs in the future
- ✓ *parametric*: the system has been designed to be easily updated: operators can change by themselves functional features in the system structure with no need of a programmer
- ✓ *conservative*: it has been designed to use the most common operating systems than databases. The company can use its own hardware devices and data.



## Web software application for Spare Parts dealers



- ✓ *multi-company, multi-store, multi-department*: the system has been designed to communicate with the outside. Operators can work with different companies, languages and currencies at the same time.

Fundamental components of this structure are

- ✓ barcode tag (item identifier)
- ✓ barcode reader (handheld terminal)

Tags can be stitched on items, on their boxes or even on the shelf where they are stored and they identify univocally the physical object (the item) and the "electronic" one (its code). This link between "item-code" is the core part of the system and it allows the company to achieve the fundamental benefits of this application

- ✓ reduce operator errors
- ✓ reduce the operational time needed for data collection
- ✓ display the real-time "status" of the warehouse

The barcode tag stitched on the item is read when materials come into the warehouse and so they are automatically loaded in the construction site warehouse. After that, barcode tags are read just when materials must be picked up for their use and automatically unloaded from the warehouse.

Operators have not to be IT experts: your current software structure is completely saved and this system can be "attached" to it so that operators can start to use the system very quickly and easily.



The system takes advantage of a series of handheld terminals, equipped with an optical reader and connected in radiofrequency. Operators use them to be informed about activities to perform and they can at the same time communicate in real time the progress of their activities.



## Web software application for Spare Parts dealers



## Instruments

This software application takes advantage of the following instruments considering both corporate targets than problems

- ✓ item identifiers:



(bar code)



(tag)

they display codes assigned to "real" items in the warehouse. In this way codes are not manually inserted (but they are "read" by specific instruments) and that avoids both wastes of time than errors

- ✓ "bar code" printers:



they print barcode tags in case they are missing on items. Operators can print tags also in case the original one is damaged or has been removed

- ✓ "bar code" readers:



they read barcode tags on items and they allow the automatic management of the warehouse. Operators can take the stock very easily, moving through all different shelves, reading the different barcodes and digiting quantities in stock

- ✓ radiofrequency "bar code" readers:



they are different from the previous one since they are connected in radiofrequency in real-time to the central system. For this reason they allow operators to issue delivery notes directly from the warehouse, to take the stock as well as display electronic stocks and so on.

- ✓ "bar code" readers connected to the cash register: they read barcode tags on goods when they come out of the warehouse. Since they are connected to the cash register, operators can issue receipts too.



## Web software application for Spare Parts dealers



### Benefits

This software application improves the daily activities of spare parts dealers and that allows them to achieve the following benefits

- ✓ *no need of "data rewriting"*: information are electronically collected on handheld terminals supplied to operators so they are that are no more written on a piece of paper but that are transferred directly to the "central system" with no need of a further data rewriting by people in the head office
- ✓ *no errors*: the fact that information do not need to be copied by different people avoids errors. Moreover needed information are suggested by the handheld terminal and this limits strongly final errors. Handheld terminals and barcodes allow operators to check constantly their activities.
- ✓ *no wastes of time*: the fact that information do not need to be copied by different people avoids wastes of time. Moreover information are suggested by handheld terminals and that limits strongly wastes of time. Automatism in the information system such as contracts, interventions, availability,.... avoid both manual searches than unuseful wastes of time.
- ✓ *avoid additional costs for employees*: the fact that data do not need to be copied in the head office, avoids the need of people involved in such an activity
- ✓ *no manual checks*: handheld terminals allow prompt checks on information collected by agents. Further checks can be performed in the head office as well.
- ✓ *check operator activities*: checks on operator activities allow the company to monitor their effectiveness
- ✓ *minimize time needed to take the stock*: operators can take a complete or partial stock of the warehouse whenever they want since they can display the stock on their handheld terminals and change it in function of the real one.
- ✓ *minimize time needed for material request*: usually operators evaluate by sight what needs to be ordered. With barcode readers, they can identify items, digit their requested quantity and then automatically issue material requests
- ✓ *minimize time needed to issue shipping documents*: operators collect the requested items passing through the different shelves, they identify them and digit the requested quantity in case it is higher than one. The system automatically issues the delivery note.



## Web software application for Spare Parts dealers



- ✓ *minimize retail sale times*: operators or customers collect the requested items passing through the shelves and once at the desk they identify them, digitizing their quantity if it is higher than one. The system issues automatically the receipt
- ✓ *reduce costs*: the system helps the company to avoid errors and wastes of time as well as to reduce costs since all wastes can be recorded by the system and so corrected by the company.
- ✓ *trace and backtrace*: data collection for materials handling is the base to trace and backtrace materials
- ✓ *consult information using the Internet*: operators, customers and suppliers can consult in real time all information they need using the Internet if they are authorized to.

For these reasons, the system allows the company to

- increase operator speed, and improve checks and information
- improve the corporate service
  - reduce costs



## Web software application for Spare Parts dealers



### features

Principles followed in the design and implementation of this software application are

- it must be suitable for different corporate realities
- it must be user friendly
- information must be consistent

For this reason it has the following modules:

- ✓ *security*: the system can be completely configured by the company in terms of administration of access policies. The system administrator can define and manage operator groups and operators, defining information and structures they can display and the default settings for every operator or group
- ✓ *integration with the management software*: this structure can be integrated to "EGGs.web" with tax accounting, management check, "business intelligence", quality system, traceability, and so on
- ✓ *multi-company and multi-warehouse*: this software is multi-corporate and multi-warehouse in order to manage different corporate realities
- ✓ *alternative, not original items, different tags for the same item, technical features, supplier and/or customer code and description and so on*: this instrument manages all different exceptions for the item
- ✓ *internal tags for different suppliers and customers*: the system clearly manages different tags for the same item
- ✓ *markup from purchase list to sale list*: the system manages algorithms that calculate automatically the sale list considering changes in the purchase list and not changing the gross contribution margin
- ✓ *fixed purchase terms when the list changes*: this instrument manages fixed terms in function of the dynamic trend of the list
- ✓ *fixed sale terms when the list changes*: this instrument manages static terms in function of the dynamic trend of the list
- ✓ *different lists and terms of sale in function of business logics*: this instrument manages different types both of lists than terms in function of different business logics

## Web software application for Spare Parts dealers

### configuration

- ✓ platform
  - operating system : Windows, Unix, Solaris, Linux
  - development language : Java
  - DBMS : My Sql/Sql Server/Oracle

