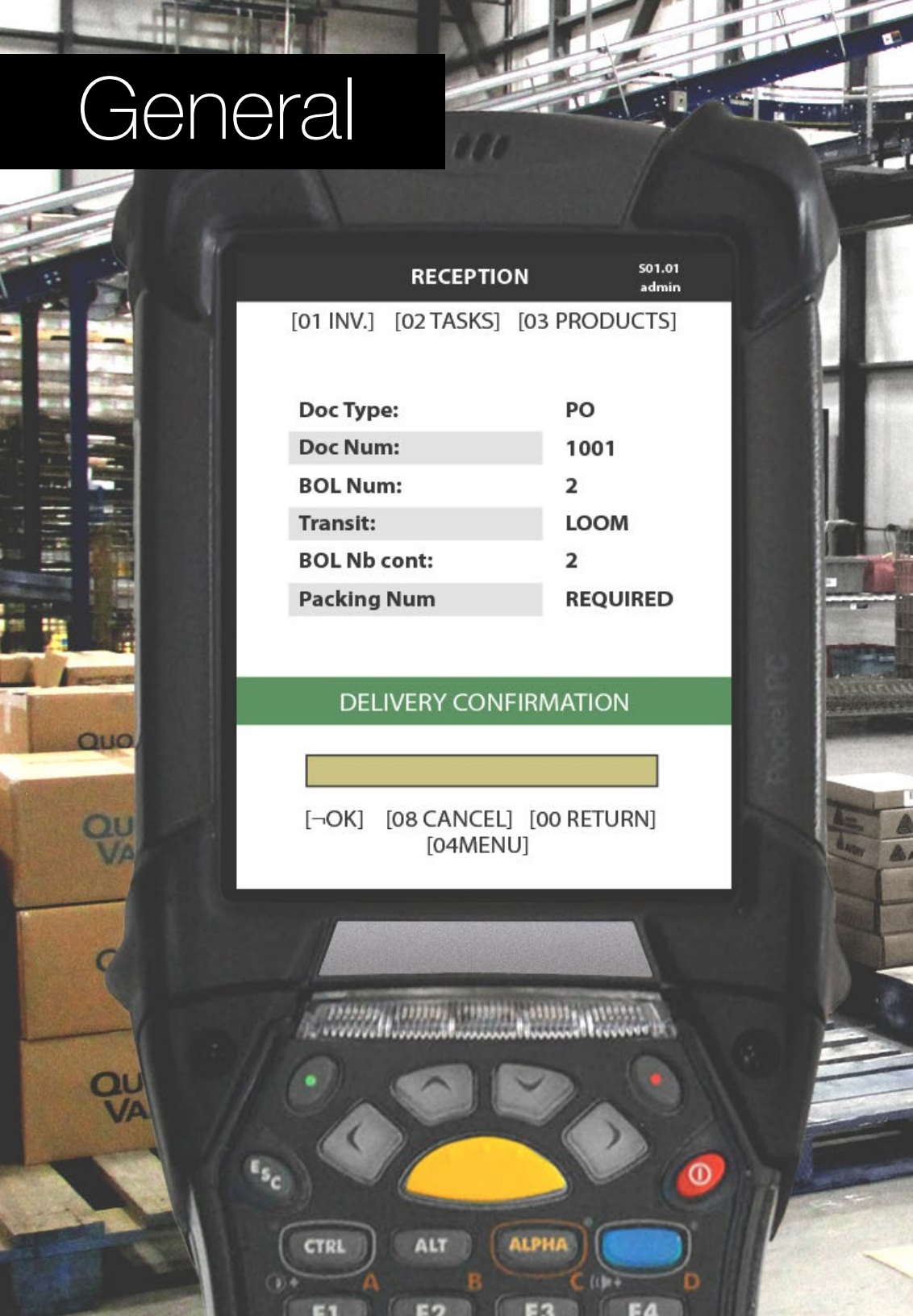




General

Login and authentication

- Capacity to set user names, password, role, site and language
- Capacity to define roles that limit the functional access to specific screens and transactions
- Capacity to define sites that limit the scope of data visible by a user (limited to his site)
- Capacity to login on desktop browsers. Login sequence sets user role, current site and language
- Capacity to login on mobile devices. Login sequence sets user role, current site and language
- Capacity for users to change password at any time
- Capacity to force users to change their password after a certain number of days.



General

Network, sites, locations and container management

- Capacity to manage multi-sites (vendors, customers, plants, warehouses etc...) and trading partner relationships (those defining the logistics network)
- Capacity to maintain any number of ship-to sites for customer/bill-to sites
- Capacity to maintain ERP reference name and number, address and contact information for each site
- Capacity to create zones and locations within each site for receiving, QA, quarantine, storage, consolidation, staging, shipping, yard, parking, transit, etc.
- Capacity to create reusable and disposable containers for receiving, put away, moving or picking consolidation
- Capacity to create location masters for each different size/shape of location in the distribution centers
- Capacity to create specific location-bins based on a location master to maintain a distribution center or plant locations, bins and bays
- Capacity to maintain volume parameters (height-width-depth) for each location type
- Capacity to have a location name with a specific location naming convention, alias and check digit
- Capacity to setup fixed picked location
- Capacity to setup storage floating location
- Capacity to setup replenishment Container (Cart)
- Capacity to assign more than one SKU per bin (multiple confloc)
- Capacity to manage bin volumetry
- Capacity to manage staging production zone



Material Management



Product master record (Material Master - MM)

- Capacity to maintain product description, number
- Capacity to maintain site level information on each product and to capture customer or vendor specific information such as product number, min-max and label format
- Capacity to maintain various inbound, outbound, warehousing and manufacturing parameters to determine for each product the management of lot no, serial no, quality assurance, expiry date, production date, country of origin, ABC classification for each product
- Capacity to manage multiple units of issues (e.g.: Each, case, pallet, kg, etc...) with a base unit of issue and a qty of base for subsequent units of issue
- Capacity to manage multiple units of measure
- Capacity to manage volume and weight parameters, a pick method along with multiple storage and picking locations for each unit of issue or SKU
- Capacity to maintain product bill of material and where used
- Capacity to manage FIFO at the item level (material master)

Inventory management

- Capacity to have a real time and very granular view of the inventory by quantity, status and condition
- Capacity to view the inventory by site, by zone, by location, by lot number
- Capacity to view serial number or lot number location
- Capacity to export inventory management report to excel
- Capacity to have a detailed view of events that occurred on a specific product entity (MI)

Inbound



Receiving

- Perform 100% of the process on a handheld/mobile computer using Soloterm
- Perform a hybrid receiving using both the desktop and a mobile computer (see INB-DP-01)
- Receive against a purchase order (PO) from a supplier
- Receive against a transfer order (TO) from a sister company/site
- Receive against a return authorization (RA) from a customer
- Receive against a shipment notice (ASN) from a supplier, customer or sister company/site
- Perform an unplanned receipt from a vendor or a customer
- Enter shipment information such as bill of lading, number of containers, packing slips, carriers etc..
- Configure each product to prompt for lot no, expiry date, manufacturing date, country of origin, serial numbers, etc...
- Configure each receiving dock/door independently from one another to go to the process steps in a different manner
- Receive products on the dock with no labelling
- Receive products on the dock with individual labelling (license plate) and/or information label

Inbound



Receiving (continued)

- Consolidate products in containers for each put away zone with or without license plates on the products
- Put away the product immediately during the receiving process
- Set a QA frequency and quantity to trigger quarantine of products (QA on Hold)
- Set defective product condition to QA on Hold or Unserviceable
- Advise the user when a new product is missing volumetry or weight information
- Advise the user of special receiving instructions entered at the line level on the receiving document
- Have the user enter a reason code (from a configurable list) and a comment when a discrepancy or quality issue occurs
- Show the inventory locations for a product if needed to make receiving decisions
- Capacity to assign a unique Licence Plate (LP)
- Capacity to print LP Label by quantity, status and condition

Inbound



Returns

- Capacity to create RMA directly in SOLOCHAIN
- Capacity to receive against a RMA
- Capacity to print LP label for items being received
- Capacity to change condition

Unloading

- Capacity to unload a trailer using its license plates coming from another site
- Capacity to identify missing and extra pallets once a trailer is completely unloaded

Inspection

- Capacity to review products that are QAonHold in the entire warehouse or in a specific quarantine area
- Capacity for inspectors to release products from QAonHold to Serviceable after inspection using the inventory screen (for changes by groups)
- Capacity for inspectors to release products from QAonHold to Serviceable after inspection using or the mobile “change condition” process license plate by license plate

Inbound



Put away

- Capacity to receive putaway instructions (mobile process)
- Capacity to direct to putaway location based on predetermined rules
 - *Fixed pick location bin*
 - *Storage bin with same product if enough space*
 - *Near by storage bin with appropriate space*
- Capacity to scan a license plate and receive directed put away instructions to store the product in the warehouse.
- Capacity to recommend a put away location based on product number, available space and proximity of same product in inventory
- Capacity to drop a received item or pallet in a drop location for a subsequent user to continue the putaway (in a mezzanine or using a different forklift equipment)
- Capacity to enter the location where the item is ultimately put-away (security can be disable if the user may override the recommended location)
- Capacity to putaway first in fixed pick bin first for top up and than storage location (partial putaway)
- Capacity to manage receiving dock to ensure proper and expedite dock to stock movement

Warehousing



General Functions

- Capacity to move products from one location to another one by one or in bulk
- Capacity to do directed move and directed put away
- Capacity to perform replenishment, planned or directed by the system
- Capacity to do kitting

Inventory moves

- Capacity to perform planned or ad-hoc inventory moves
- Capacity to perform multiple planned moves simultaneously

Stock count

- Capacity to perform cycle stock counts based on locations
- Capacity to perform cycle stock counts based on products
- Capacity to define several cycle counting parameters both for product cycle counts and for location cycle counts.
- Capacity to report discrepancies and adjustments to the ERP-Host system
- Capacity to do cycle count or physical (100% - wall to wall) counts
- Capacity to do blind or non-blind counts
- Capacity to report serial number and lot number discrepancies

Traceability



Traceability

- Lot Number management (raw materials, components, finished goods)
- Expiry Date management (shelf life)
- Inbound expiry date tolerance validation
 - Global outbound expiry date tolerance validation
 - Customer outbound expiry date tolerance validation
- Inventory aging reports
- Production Date management
- Ingredient to Finished Good traceability reporting (Item, Lot Number)
- Finished Good to Ingredient traceability reporting (Item, Lot Number)
- On hand mass Condition (i.e. QA On Hold) update functionality
- Product Recall reporting
- Work Order Ingredient and Finished Good tracking
- GS1-128 barcode scanning and creation (i.e. GTIN, Lot/Batch, Expiry Date)

Manufacturing



Traceability

- Capacity to perform and capture total traceability
- Capacity to report list of finished goods from raw material / Raw ingredient
- Capacity to report list of ingredients from finished good

Production Management

- Capacity to import a bill of material or recipe from the ERP
- Capacity to define bill of materials or recipes
- Capacity to define manufacturing processes with multiple steps
- Capacity to import a manufacturing process from the ERP
- Capacity to define electronic checklists that must be followed at every step of the process and filled in by the operators.
- Capacity to define production routes through work centers

Order Management

- Capacity to import transfer order for ingredients / components from ERP
- Capacity to import a work order from the ERP
- Capacity to generate a transfer order for ingredients / components, from a bill of material
- Capacity to create rush order for immediate production replenishment
- Capacity to consolidate pick lines per cart / per production line
- Capacity to create transfer orders for Kanban items

Manufacturing



Moving Ingredients to Production Work Center

- Capacity to manage cart position based on production location requirement
- Capacity to validate that items are put on the right cart based on production line destination

Inventory Consumption

- Capacity to consume goods ad-hoc
- Capacity to consume goods against a work order, during receiving
- Capacity to consume goods against a transfer order, during receiving
- Capacity to consume ingredients against a bill of material, during receiving
- Capacity to consume goods against a work order, during production
- Capacity to consume goods against a transfer order, during production
- Capacity to consume ingredients against a bill of material, during production
- Capacity to receive end of line production confirmation from ERP in order to back flush inventory in production line staging area
- Capacity to manage inventory in production line staging area (aging report)

Manufacturing



Finished Goods (FG) Inventory Creation and Putaway

- Capacity to receive FG inventory confirmation from ERP at end of line
- Capacity to move item from production conveyor to FG inventory bay location
- Capacity to produce finished goods or WIP ad-hoc without a work order
- Capacity to produce one finished good from one ingredient, using a transfer order (reclassify)
- Capacity to produce one finished good from one ingredient, using a bill of material (reclassify)
- Capacity to produce multiple finished goods from one ingredient, without a bill of material (split material)
- Capacity to produce multiple finished goods from one ingredient, using a bill of material (split material)
- Capacity to produce finished goods or WIP from a work order
- Capacity to produce finished goods from a Bill of Material (BOM)
- Capacity to produce finished goods from a Process, including multiple steps
- Capacity to suggest putaway location based on consolidation rules (by order, by item)
- Capacity to create lot number based on customised rules

Outbound



Picking

- Capacity to create waves for picking
- Capacity to create loads for picking
- Capacity to completely automate the picking cycle from order importation (from the ERP) down to task assignment to a user-picker
- Capacity to assign many pickers to one order
- Capacity to assign many orders to one picker
- Capacity to perform zone, batch or cluster picking
- Capacity to pick with paper, desktop, mobile terminal or voice
- Capacity to present ERP picking and shipping information to the user on paper or on the terminal
- Capacity to assign various units of issue/measure to different zones in the warehouse

Consolidation and staging

- Capacity to direct picker to a specific consolidation or staging area after picking
- Capacity to pick to labels (shipping or other) and skip consolidation process if required

Outbound



Shipping - General

- Capacity to create manual request/release
- Capacity to plan load and shipments prior to beginning picking
- Capacity to direct user to shipping door or consolidation area after picking
- Capacity to assign releases to doors for loading to direct loading after picking
- Capacity to pick electronically against a release received from the ERP or created manually
- Capacity to confirm that a release is completely picked and a confirmation message has been sent to this effect
- Capacity to assign trailers to doors
- Capacity to scan products into trucks during loading (by scanning the door to which the trailer is assigned)
- Shipping Customers Orders - Load Planning
- Capacity to receive release orders from ERP
- Capacity to view all releases and organize them by load with load drop sequence
- Capacity to assign load and resources to task queue
- Capacity to overwrite pre-selected transport/carrier

Outbound



Shipping Customers Orders - Loading Execution

- Capacity to dispatch load instruction directly to forklift
- Capacity to assign trailer to a specific loading door
- Capacity to receive pick location instructions
- Capacity to confirm that right items are picked
- Capacity to confirm loading door
- Capacity to print packing slip
- Capacity to print Bill Of Lading (BOL)
- Capacity to confirm load delivery

Shipping Carrier - Integration

- Capacity to connect with UPS
- Capacity to connect to FEDEX
- Capacity to print compliant shipping label (Solochain)
- Capacity to return transportation cost to ERP
- Customers Pick-up and commercial counter
- Capacity to rapidly locate orders staged for customer pick up
- Capacity to create new pick order for immediate picking for commercial counter
- Capacity to manage staged customer orders

Utilities



General Functions

- Capacity to view site performance in the performance dashboard by plotting events by hour, day, week or month over a certain period of time for all users or for a subset of users
- Capacity to generate generic application reports
- Capacity to export all search results to excel
- Capacity to produce custom reports with i-report
- Capacity to monitor stock counting activities in the stock count dashboard
- Capacity to manage application security
- Capacity to manage application configuration
- Capacity to manage users, roles and their access to functions and data



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