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**Missing:**

* **Pricing**
* **2d Gun quote**

# General

This document is a detailed design for the Shop Floor Data Capture system for GSM PRIMOGRAPHIC.

It describes the solution introduced by Emerge IT while emphasising GSM PRIMOGRAPHIC’s unique workflows.

This document was written based on details as introduced by the key personnel of GSM PRIMOGRAPHIC who participated in the design meetings.

This document does not detail every capability of the system but rather concentrates on main processes and outlines the required modifications to the standard system.

**All items in the design document that require modification are signed with a (\*).**

GSM PRIMOGRAPHIC **is a leading supplier of labels, nameplates, fascia’s, trims, die cut adhesive parts and sub-assemblies into the automotive, domestic appliance, consumer electronics and industrial markets.**

## Glossary

Below you will find explanation for terminology, which will be used in this document:

* **Form** – Most of the work in the system is done by using forms. In them, data is inserted into the system and retrieved for observation and update. Procedures and reports can be generated and documents can be printed or emailed from the forms. Every **record** on a given form is made of **columns** (**fields**).
* Sub level – The sublevel forms provide additional information about the record in the upper level form. For example, the "customers" form, which displays the names of the customers, their addresses and phone numbers, has one sub level that shows the key personnel of the customer and another that lists the different sites (shipment addresses) of it.



* **Choose-list –** A list of values is available on a field to show the optional values for this field, accessed by pressing ‘F2’on the Handheld Device..
* **Error message –** This is a message that pops up while inserting data and does not allow the user to continue until he changes the value, which caused the message to pop up.
* **Warning message -** This is amessage that pops up while inserting data, that allows the user to choose whether he wants to continue or go back and revise the data.
* **Barcode** – All entities where a Barcode is mentioned will refer to a Standard 1D EAN13 Barcode.

## Privileges Management

~~The management of privileges in the SFDC Software is done via the~~ **~~privileges explorer~~** ~~within Priority.~~

~~The privileges are granted to a group so that every user in that group will have the same privileges.~~

~~For every entity on the system (menus, forms), different privileges can be granted for every company / group of users (block access, read only or full access).~~

~~In addition, warning messages can be converted into errors.~~ No. We said there would be two permission groups, user and manager. Admin functions will only be displayed to users with admin status. This requires a choose field on the user form in Priority.

The following transactions will only be permitted by managers

* Issue to Kit
* Stock Status change

Privileges in Priority are created and maintained by GSM PRIMOGRAPHIC.

# Purchasing

The following section will outline any changes required by the Purchasing department. It will be split into two distinct sections, SFDC for the handheld software and Priority for any server / terminal changes.

## SFDC

* ~~The use of the current SFDC system for Goods Receipts will not require any modification.~~
* A new warehouse transfer “put-away from GRV holding” transaction is required that defaults the source location for the transfer to the GRV holding location to be determined. The GRV transaction will be modified to default the receiving location to the same GRV Holding Location.
* The module need to be amended such that each part/scan increments a new “label count” field, used when determining how many labels to print for a given part. The “label count“ field should be unique to the box quantity, i.e. we record x boxes of y and z boxes of q.

## Priority

* The Priority interfaces will need to be modified in order to trigger the automatic printing of Bar-coded Labels for each received goods line from the GRV. The Goods receipt label will hold the following information: Part Number, Quantity, Date, PO and Received on.
* A report will also be created to show the anticipated deliveries for each day based on the Due date entered on the Purchase Order. This report will contain both the PO Barcode and the Part Barcode. This report will be printed each morning and left at goods inwards, such that un-bar-coded deliveries may be received.
* All receipted stock will be received into a designated “holding area” and then transferred out when quality checks have been performed.
* Purchase order printout will be Bar-coded when sent to supplier. Barcodes will be present for PO number and each part listed.

# Shop Floor / Production

The following section will outline any changes required by the Shop Floor / Production department. It will be split into two distinct sections, SFDC for the handheld software and Priority for any server / terminal changes.

## SFDC

The following modifications will need to be made to the existing SFDC setup:

* A new module ~~The system~~ will prompt the user to scan all parts before the Work order is started.
* When reporting production, any rejected parts will need to have a reason defined against them, when rejecting multiple items, the ability to select different reasons will be required. These will be held on separate lines within the sub level , when completing the line above a new line will be inserted.

## Priority

* On issue to kit, two labels will need to be automatically printed:
  + First label to hold details of the remaining stock – exactly the same as the receipt label but with a reduced quantity.
  + Second kit-issue label will hold the part number, quantity, and works order number that it has been issued for.
* ~~A number of~~ Extra pseudo operations will added, ~~the “setup” operation will incorporate~~ for “1st off check” ~~and a new operation of~~ and “last off check” ~~to allow the recording of the checks having been performed~~. Submission of the operations with a value of 1 will not create a production report, but will record the user/time in the new SERIAL table Fields ZGSM\_FOUSER, ZGSM\_FODATE14, ZGSM\_LOUSER and ZGSM\_LODATE14
* When a Works Order is completed, stock will be moved to an Interim Warehouse by the last report and then packed and labelled.
* The Finished Goods label will hold details of the part number, packed quantity, lot number (Batch / Work Order), and Label ID number. ~~- eg. 1 of 10.~~ This label ID be a sequential number used to ensure that each individual label can be scanned only once during picking. ~~ensuring all produced quantity is traceable.~~

# Dispatch

The following section will outline any changes required by the Dispatch department. It will be split into two distinct sections, SFDC for the handheld software and Priority for any server / terminal changes.

## SFDC

* Packing slips will be automatically selected based on a priority ordering specified within Priority by the Office staff (see 4.2).
* Packing slip screen to show the required ‘KLT’ packaging per Part number. This information is already specified within the existing GSM part catalogue – as per Geoff.
* A new warehouse transfer “put-away finished goods” transaction is required that defaults the source location for the transfer to the default W/O last report location (to be determined).

## Priority

* A ‘Pick manager’ will be designed within Priority to enable the team in the office to specify a priority in which picks are processed on the hand held’s.
* A Direct activation will be created in order to split a large pick down into number of smaller picks to allow large picks to be carried out by multiple staff.
* Packing slips will gain a flag that will only be accessible by office staff to allow for partial shipment if not all parts are available.
* Packing slips will be scanned onto shipping documents with a barcode wedge scanner.
* Both Packing Slip and Dispatch Note printouts will display the required KLT packaging.

# Optional Module

The below is an optional module requested by the Quality Department. It has been separated from the above as requested. The purpose of this module will be to allow a user to confirm and pair up the packed parts and their corresponding labels with the correct Odette label to be affixed to the outside of the KLT. This information will be held within a Priority Table but accessible via the Handheld units.

## SFDC

* Creation of a new form in order for the user to scan the Odette label barcode on the upper level with it producing a list on the lower level of all the parts that are associated with that Odette label.
* The user will then be instructed to scan all part barcodes (part number, Lot and quantity) within the KLT in order to approve and match them to the list on screen (automatic approval on all matched details line by line). Once all parts have been correctly matched to the on-screen display, user will be instructed to attach Odette label to KLT.

## Priority

* Within Priority, a new table and form will be created to hold the details of the Odette label, the parts associated with it, the user who specified the pairing and the user who approved the pairing (done via the handheld) and the associated dates and times.
* A new report will be created to display the Sales Order, Packing Slip, Dispatch and Odette Label Number along with packaged parts and the user who packed the KLT.

# Analysis Approval

## Development Time:

Days Development required:

Days off-site, days on site.

## Optional Module Additional Development Time:

Days Development required:

Days off-site, days on site.

**Signatures**

**Approved by \_\_\_\_\_\_\_\_\_\_\_\_ (GSM PRIMOGRAPHIC) Date\_\_\_\_\_\_\_\_\_\_\_\_**

**Approved by \_\_\_\_\_\_\_\_\_\_\_\_ (eMerge) Date\_\_\_\_\_\_\_\_\_\_\_\_**