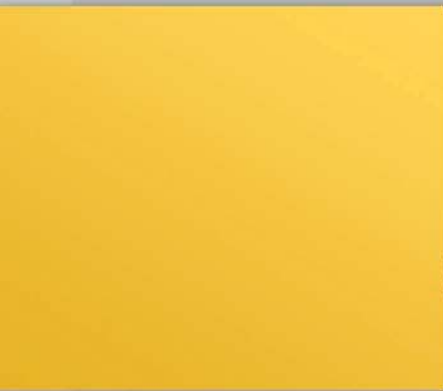


v7.1 & v7.3

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Enhancements to glovia.com
version 7.1 and version 7.3



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V7.1 & V7.3

Foreword

The purpose of this document is to explain the Release 7 development process that has taken place and all of the major enhancements to the glovia.com product.

The first General Release of Version 7 was 7.1 which has been continually enhanced as is detailed in this document.

Internally Glovia was in the process of some major product development and enhancements which resulted in the creation of two development teams. The second team took a copy of glovia.com Version 7.1 in October of 2004 based on Service Pack 8 and used this as a base to go forward and added the software as detailed in this document.

Both releases these being Version 7.1 and Version 7.3 are to be merged at 7.3 Service Pack 3 which will then become the official General Release going forward.

Users of Version 7.1 will have the opportunity to migrate to Version 7.3 Service Pack 3 should they wish. It is not mandatory to move from Version 7.1 to Version 7.3, but no new functionality will be added to Version 7.1 nor will any of the additional functionality developed in Version 7.3 be reversed engineered into Version 7.1 ONLY maintenance fixes will be applied to that Release.

7.1 and 7.3 Enhancement Summary

Product Management

Reversible ECNs v7.3

Changes to Engineering BOMs resulting from material ECNs can be reversed. After the reversal a user can select a new effective date for the ECN, then update the ECN again. Reversals can be performed repeatedly.

System Configuration v7.1

A configured system is a group of source configured items configured at the same time using the web-based Configurator application. Configured systems populate and manage multiple source configured items within a sales order. The configuration of each source configured item in a sales order can be maintained separately or as a member of the configured system.

Effective Dates in EGBOMS v7.1

Effective Dates in EGBOMS allows the user to only display the current components, without this the user needs to open the More button on all components.

Manufacturing

Consigned Inventory In v7.3

Consigned inventory in allows the management of supplier owned inventory at the manufacturing site.

All location types within a master location can be defined as consigned inventory locations by checking the Cons checkbox in the Location Table in Inventory. During the receiving process glovia.com checks if a consigned location exists in the PO Line Additional Information window. If it does, the receipt location and bin defaults to the consigned location.

An item is consumed and therefore recorded as being liable for payment when an item is transferred out of a consigned location into a non-consigned location.

Electronic Kanban v7.3

Electronic Kanban defines a target location with a minimum quantity, a maximum quantity, and an order quantity multiple. When the inventory reaches the minimum amount, a pull ticket is generated.

In 7.1 Electronic Kanban could:

- Move inventory within a master location.

In 7.3 Electronic Kanban can also:

- Move inventory within a master location.
- Create a transfer order from another CCN or master location.
- Create a purchase order.
- Update a blanket purchase order line in an existing blanket order line.
- Create a sales order delivery line in an existing sales order. These can also be created automatically.
- Create a work order line in an existing work order.
- Create or change an item schedule in an existing repetitive schedule.

V7.1 & V7.3

Removal of MRE Planning Restrictions v7.3

MPS and MRP plan items defined as entity items by workcenter rather than by master location. Previous to release 7.3 SP3, assemblies using entity components were required to be entity assemblies. This restriction has been removed. Assemblies of entity components can be either entity assemblies or non-entity assemblies.

Mass CPO Conversion v7.3

MPS and MRP provide a single function for the conversion of MPS and MRP planned work orders, purchase orders and purchase requisitions.

Pegged Demand and Supply in MPS/MRP v7.1

If a supply order is pegged to demand, current MPS/MRP functionality ignores the demand quantity and the supply quantity in the netting process. This potentially leads to a situation where:

A WO is raised for 100 and an item on the BOM has a requirement for 100. A PO is raised for 100 and pegged to the BOM item. MPS/MRP now ignores the demand and supply but as they are in balance this has no impact. The WO is now increased to a quantity of 200. No one is aware that there will be a shortage of components.

In the case of a reduced order quantity or date changes, the existing pegging exception is sufficient. If an increase occurs the system generates a new CPO, available for conversion. This new feature is optional so that customers using the pegging functionality today are not affected.

Planning Transfer Orders by Master Location v7.1

The MPS, MRP and MRE planning applications can plan transfer orders between a single demand CCN/master location and one or more supply CCN/master locations.

- Netting logic is allocated proportionally across multiple supply CCN/master locations
- On-hand inventory is based on general stock in the demand master location
- Transfer order CPOs are not consolidated with non-transfer order type CPOs. Transfer order CPOs are only consolidated if they share the same target CCN/master location.

Manufacturing Lot Size v7.1

An optimal batch size for production can improve efficiency dramatically. The maximum CPO quantity policy defines the maximum CPO quantity that can be generated for make items. Additional CPOs are generated as necessary to meet the total demand. The calculation is performed by dividing the total manufacturing quantity required by the maximum CPO quantity to generate CPOs.

Production Buckets for Buy Items v7.1

MPS/MRP has been extended so that purchased Items and purchase supplies are included in production bucket planning and purchase requisitions and purchase orders have the production bucket attached to them or entered manually.

The work at this stage does not include:

- Contract orders
- Supplier releasing
- Non-stock or non-standard items

Financials

AP/AR Management Reports v7.1

AP/AR Management Reports have been enhanced to support reconciliation between the reports and base financial applications.

- The AP/AR Management Reports no longer converts amounts from one currency to another. Instead it uses the same reporting currencies as the base financial applications.
- In addition structural differences have changed to ensure AP/AR Management Reports display documents the same way base financial applications display documents.
- Detailed changes have been made to each report. See the AP/AR Management Reports User Guide for more information.

Residuals Amounts and Full Payment Settlement v7.1

Residual amounts occur when a payment in one currency adds up to full payment, but the rounded amounts add up to more or less than the balance outstanding in another currency. During payment creation or cash receipts, the residual amount is recorded and added to an exchange variance account. The payment and cash receipts transactions flag the ICN as 'full payment' and displays the residual amount being added to the exchange variance and write-off columns in the respective transactions..

AP Apply Credits v7.1

This process applies credit memo balances against invoices without generating a 'cash' payment amount or credit to the Cash Disbursement account. Allows the application of partial credit amounts. Replaces the standalone Apply Credits function with a combined Apply Credits and Manual Payments function.

AP Apply Vendor Refund v7.1

Enhances the vendor refund process by facilitating the recording of cash receipts from vendors and the application of cash receipts to vendor credit memos. Provides better visibility of vendor refunds in standard inquiries and reports.

Audit Management Inquiry v7.1

The Audit Management Inquiry was enhanced to provide filters in the header area similar to other inquiries.

Turn on Reporting Currencies v7.1

A General Ledger utility to turn on Glovia's reporting currency feature. It creates all historic information required to support reporting currency balances in Accounts Payable and Accounts Receivable.

V7.1 & V7.3

Customer Management

Auto Supply Order v7.3

Auto supply enables a transfer order to be automatically generated and linked to a sales order delivery line as soon as the sales order delivery line is created. Receipt of the transfer order line can be followed up by sales order delivery processing using either pick, pack ship or shipping instructions.

The transfer order can optionally drop ship inventory to the shipping location defined for the sales order line. If the drop ship option is used, delivery is processed as a shipping instruction.

If XML collaboration is implemented between the transfer order and sales order, shipment of the transfer order can trigger the sending of an XML message to the master location processing the drop ship shipping instruction. Receipt of the drop shipment is processed automatically and the sales order delivery line forwarded to billing.

Consigned Inventory Out v7.3

Consigned inventory out enables the management of consigned quantities at the customer site. Because the customer has not yet accepted ownership of the packlist quantity, ship confirm moves consigned packlist quantities to a consigned inventory location.

Customers can report inventory receipt and inventory consumption using the Customer Portal web based Inventory application or XML collaboration. Customers can report inventory consumption using Ownership Transfer in Sales Order.

Instead of billing the customer immediately for each quantity reported consumed, a periodic billing schedule can be defined.

Supplier Management

Supplier Portal v7.3

Supplier Portal is a web based application that manages the collaboration between suppliers and buyers. Supplier Portal provides immediate access to buyer information, enabling suppliers to respond quickly to fast changing purchasing requirements. Suppliers can login to Supplier Portal to check the status of deliveries, confirm delivery date changes, split deliveries, read alerts messages, and generate Supplier Portal pack slips for delivery.

Batch PO to PR Conversion v7.3

Purchase Orders provides a single function for the batch conversion of purchase requisitions into purchase orders. Batch conversion can include PRP, MPS, MRP planned or manually created purchase requisitions.

Projects

Auto Append to PRP Queue v7.3

PRP planned sales order lines can be automatically appended to PRP planning queues as they are added to sales orders.

Supply Chain Management

Scheduling of Operations Based on Set-Up Parameter Codes v7.1

Set-Up parameter codes are user-defined routing attributes that allow additional calculations for machine setup times in an operation. These are linked to fields in routing records which are then used for scheduling by the Factory Planning application. This is used when Factory Planning plans MRP/MPS/PRP items using the Setup Optimization option.

Several types of routings use the Setup Optimization logic - Item, WO, FPO, and RP. FP can determine the time required to set up a machine when changing the production process from one setup code to another - for example, changing from blue color to black. FP compares the calculated setup times from the routings to the user-defined setup times and depending on the requirements the user has defined in glovia.com, FP uses the specified setup times for optimum scheduling.

Finished Goods Items are differentiated on CTP reports v7.1

The Capable-To-Promise (CTP) functionality does not test for items tagged as Finished Goods but such items are shown as shortages in the reports. The finished goods items are differentiated from the real shortages in the CTP reports.

A Filter for Finished Goods Items is added to the Inventory Pane v7.1

There is an additional option to display items tagged as Finished Goods in the Inventory pane. This filter supports CTP and Sales Department Availability visibility.

A Filter for Used Machines is added to the Workload and Planning Board Panes v7.1

The Workload and Planning Board panes now have an option to display only "Used Machines" to filter out the machines without load.

The filters 'All Machines', 'Machines with Overload Capacity', and 'Machines with flag overloaded' that currently exist in the Workload pane have also been added to the Planning Board Pane.

Planner Board holds its displayed information similar to the Order Pane v7.1

When the user drills into the Planning Board and collFPeS /expands on specific information, that view is now saved. The same view is re-displayed with updated information on re-painting the Planning Board.

V7.1 & V7.3

Tools & Technologies

Security Manager v7.1

The glovia.com Security Manager application provides you with the tools to control security access. The tools included with this application allow you to:

- Define a operator ID, either directly or by copying.
- Define security access roles for groups of operator IDs.
- Define security access by exception to functions, by operator ID.
- Maintain security access to CCNs and master locations by operator ID.
- Require users to change logon passwords.
- Halts selected users from logging on.
- Security Manager can be retrofitted to earlier releases.

SFDC User ID v7.1

Instead of using a generic TSK /TSK operator ID and password, SFDC has been enhanced to allow the user to logon via a remote device using his or her own operator ID and password. The system provides the same recording of transactions by the operator ID that would be available if the entire process were taking place using the client.

Machine Time Entry in SFDC v7.1

The enhancement provides a new transaction in SFDC to allow machine time entry to a work order. See the Shop Floor Data Collection User Guide for more information.

Visual ARMS

Connectivity & Business Intelligence

XML Support for Purchase Order Cancel v7.1

Handles the changes related to cancellation of Sales Order through OrderCancel and OrderChange messages, and also the inclusion of cancellation data in the OrderResponse

XML Purge Implementation v7.1

Provides a tool to purge XML transactions based on a date range, GAPI name, GAPI direction, BB Message ID, and Framework status. See the Collaboration User Guide for more information.

Visual ARMS Integration v7.3

Visual-ARMS® software from Bar Code Solutions, Inc. is a leading shipping control system for automotive suppliers for handling shipping requirements that comply with all major automotive OEM manufacturer specifications including bar code labels, associated shipping documents and creating Advanced Shipment Notices (ASNs) from the original ship schedule.

- All EDI shipment requirements from automotive manufacturers are passed to glovia.com's Customer Releasing or Sales Orders modules via Visual-ARMS to create demands in Glovia. The demand data is then used by any of planning mechanisms offered in Glovia to create manufacturing schedules.
- At the completion of the manufacturing process in Work Orders or Repetitive Manufacturing modules, glovia.com passes back inventory information,

including the container serial numbers to Visual-ARMS providing visibility of containers that have been completed by the manufacturing process and are ready to be shipped to the OEM manufacturer. This information is also used to print sets of container bar code ship labels on demand. In addition, the container serial numbers passed back to Visual-ARMS are used in their Shipper module to tie containers to a shipment, which is eventually used in the ASN (856 EDI) transmission to the OEM manufacturer.

- During the manufacturing completion phase, the Glovia user has the option to Serial Trace parts that are placed in a container. Glovia.com ties the parts to the container serial number generated by glovia.com when parts are packed in the container. At this point in time, the user scans the serial numbers of the parts and associates them to the container's serial number. Since Visual-ARMS associates the container serial numbers with an ASN number, it is possible to trace a part that was manufactured using glovia.com with the ASN number generated by Visual-ARMS.
- Once the ASN is successfully transmitted and accepted by the OEM manufacturer, a Shipment Advice is sent from Visual-ARMS to the Customer Releasing module in glovia.com, giving it the visibility of the shipped containers. This allows glovia.com to adjust its inventory and perform the Forward-To-Bill transaction. In addition, Glovia associates the ASN number sent to the OEM with the containers that have been shipped during the inventory adjustment process.

See the Automotive Releasing with Visual-ARMS Integration user guide for more information.

Factory Planning 4.6 to 5.0.1 Enhancements

Factory Planning Version 4.6 to 5.0.1 Enhancements.

Note: The following enhancements have been added to the Factory Planning (APS) application since October 2004.

Version 4.6

- In FP, generate Workload based on original schedule dates in milliseconds instead of minutes so that now there is no difference between scheduling Start / End dates and Workload.
- In FP, allow the option to display the Throughput values as fractions or whole numbers by modifying the xps.properties file. For example, if Throughput is 5.3 for a machine workload on a given day, it can also be displayed as 5, with 0.3 added to the next day for rounding again.

Version 4.6.8

The enhancements are for FP and Supply Chain Planning applications.

Separate system events have been established for FP and Supply Chain Planning applications for initiating processes from external systems. When both applications are running, each application reads its own system events and starts the related process in the engine.

Version 4.7 to 4.9

The minor enhancements for APS are bug fixes that affect the display.

Version 5.0.1

- Any "problems" in FP that have not been successfully handled or detected by the scheduling process because of too many interdependencies and/or complicated rules for an automatic solution, can be visualized in two ways:
 - By icons in the Orders Gantt charts.
 - FPSPLIT table fields for further evaluation with external systems.
- The Capable To Promise (CTP) feature has been enhanced in FP with these functions:
 - Extending Scheduling Units with specific CTP parameters and features.
 - New Dialogs to handle CTP Requests and Results.
 - New lists that display and print inventory situation.
 - New parameter in Properties to allow fixing of CTP WO or CTP operations.
 - Importing data from flat files and displaying the data in CTP dialogs.
 - Exporting data entered with a CTP dialog to a flat file.
 - Saving CTP results to statistical data tables and glovia.com planning tables.

Notes

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