System Overview



Inventory Management Orders & Purchases Processing OperationsTracking Remote Data Input



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1. SYSTEM DESCRIPTION & SPECIFICATIONS

Industriale is application software developed to provide flexibility and execution of the various functions necessary for management and administration of the production, stocking and sales processes of an industry while simultaneously addressing factors unique to the local industrial environment that existing system currently in use have been unable to, which has resulted into lack of seamless flow of information, unavailability of data critical to decision making and execution and general inefficiency.

Industriale was developed to perform the following main tasks:

- 1. Process incoming customers orders
- 2. Track the processed orders for a customer including payments and balances
- 3. Manage the stocking process by way of indexing and categorization of all products
- 4. Manage the movement of stock batches into the main warehouse from factories and other sources, and out of the main warehouse by way of, stock transfers to depots and sales.
- 5. Manage purchases of raw and other materials required for the various production process and other areas of an industry.
- 6. Provide a simplified (user friendly) yet comprehensive analyzing and reporting of all these processes i.e. sales, stock, customer activity, purchases and payments, products movement by customers and zones.
- 7. Provide facilities for performing accounting tasks i.es invoicing, producing statements, credit notes, debit notes, purchases orders, profit loss accounts, balance sheets etc.
- 8. To (eventually) provide for seamless remote input or updating of stock levels directly from the factory via internet into the main system and also coordination and authorization of sales activity from remote depots via internet into the main system.

Industriale has completed its first phase of development and is now fully functional and may be used as the main system while existing systems take a backup role and eventually phased out as the users becomes fully confident and completely at ease with the new system.

Industriale has been developed using Microsoft Visual Studio .NET Software development tools and technology using Visual Basic Language. It utilizes Microsoft SQL Server 7 technology for data storage using MS Access 2007 as an administrative client for database backup, repair and restoration.

Following is a summary overview of the developed systems' features and functions.

2. STATIC INFORMATION/ REFERENCES

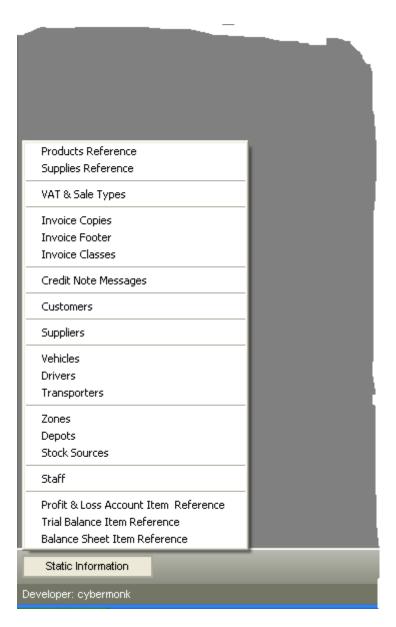
This portion of the system deals with all the reference information required by all processes and functions of the system.

This is regular information stored on the system databases that is used all the time by system users by way of selecting data items from a list instead of typing it in repeatedly which might later on compromise integrity of the data and also result in erroneous reporting and analysis results. This also promotes the user friendliness of the system.

These are as follows:

- 1. Products (goods) reference (a reference, indexing and packaging of all products that diamond industries deals with)
- 2. Supplies (purchases) references
- 3. VAT and Sale Types (i.e. standard, export, exempt and their values)
- 4. Invoice Copies (Number of invoice copies that are normally printed)
- 5. Invoice footer
- 6. Invoice classes
- 7. Credit Note messages
- 8. Customers (Customer database)
- 9. Suppliers (Supplier database)
- 10. Vehicles (vehicle database i.e. vehicle type and registration no.)
- 11. Drivers (driver database i.e. driver name, and contact information)
- 12. Transporters (transporter database i.e. name and contact information)
- 13.Zone references (Customer zones)

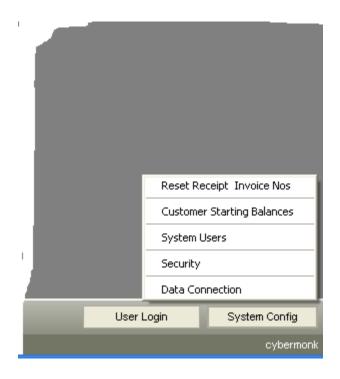
- 14.Depots
- 15. Stock sources (sources of stock i.e. factories, stores and importation)
- 16. Staff (staff database, name, job description and contact information)
- 17. Profit and Loss account item reference (Profit and Loss items, values and categorization)
- 18. Trial Balance items reference (Trial Balance items, values and categorization)
- 19. Balance sheet item reference (Balance sheet items, values and categorization)



3. SYSTEM CONFIGURATION FACILITIES

These are as follows:

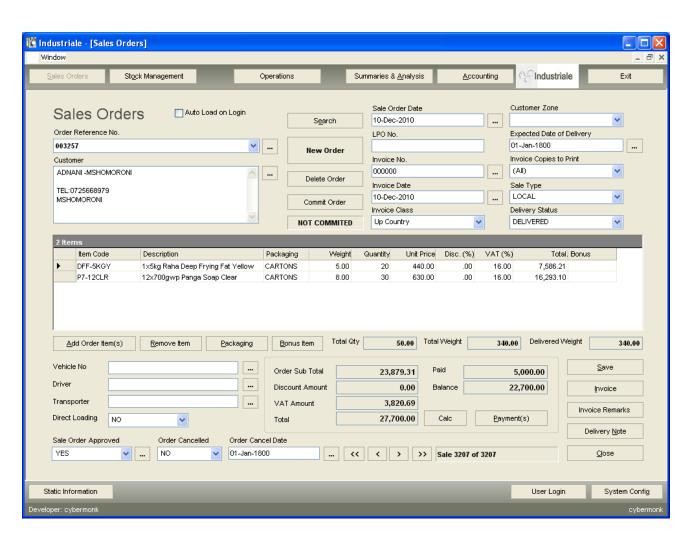
- 1. Reset of Receipt, Invoice, Delivery note, Credit/Debit note numbers (i.e. a facility for setting the starting numbers of these documents)
- 2. Customer starting balances (a facility for setting the customer balances from the other existing systems in use to provide continuity in the new system)
- 3. Systems users (system users, permissions and login passwords)
- 4. Security (for setting external system security to prevent unauthorized personnel from running the system)
- 5. Data connection (for setting connectivity parameters to the system databases)

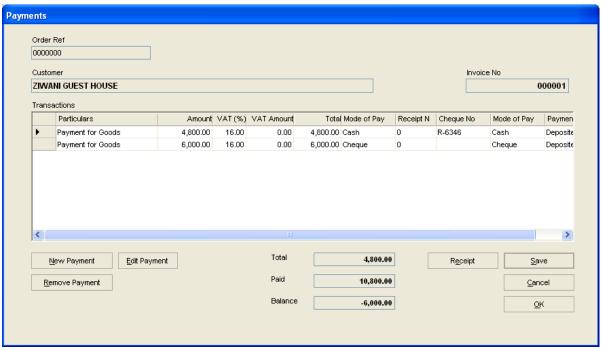


4. SALES ORDERS

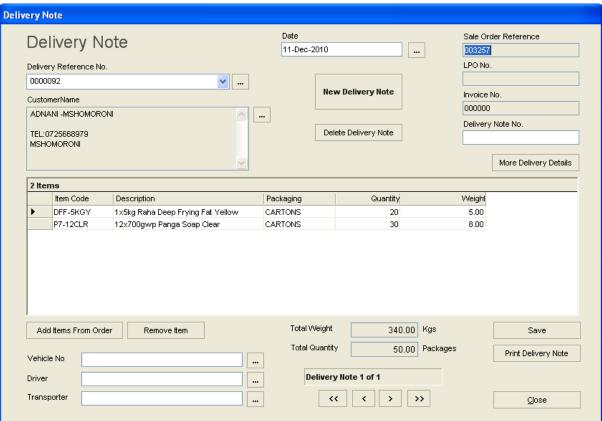
This is the facility of the system for processing sale orders from customers. Here a user is able to do the following;

- 1. Create new order or modify an existing order
- 2. Set the products for the order from stock
- 3. Set bonus items and discounts
- 4. Automatically calculate the Order Sub-Total Amount, Discount Amount VAT Amount & Order Total Amount
- 5. Make payments for the order
- 6. Produce a receipt for the payment
- 7. Deduct ordered products quantities from stock
- 8. Create an invoice for the order
- 9. Create a delivery note of the order
- 10.Set various parameters of the order e.g. delivery status, customer zone, invoice class and type of sale.





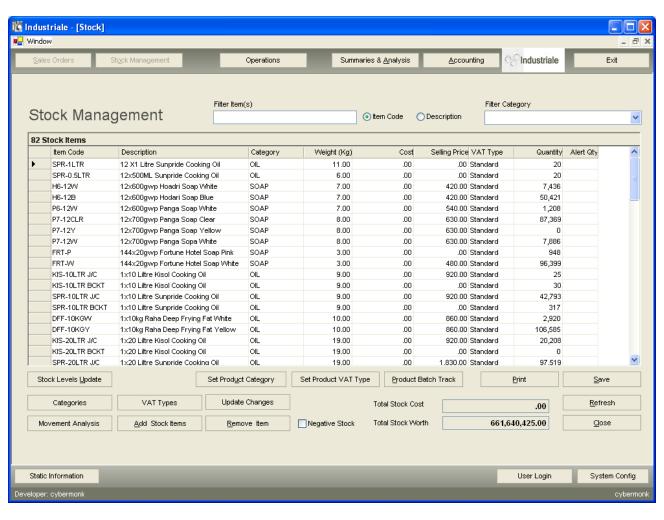


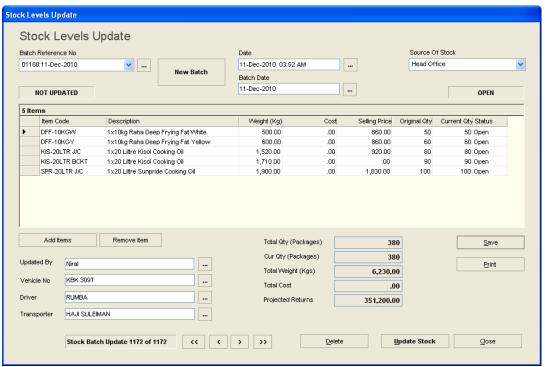


5. STOCK MANAGEMENT

This portion of the system deals with the product stocking functions and processes as follows:

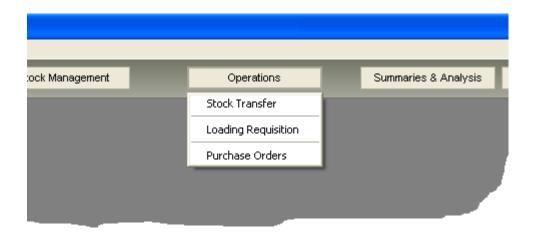
- 1. Allows for inclusion removal of products as part of stock
- 2. Addition (updating) of product batches from factories and other sources of to increase stock current quantities.
- 3. Printing of stocked items and their current quantities.
- 4. Setting of VAT types and values for stocked products.
- 5. Setting of low stock alert levels
- 6. Categorization of stocked products
- 7. Filtering and searching of stocked products, product categories, zero and negative stocks.
- 8. Automatic reconciliation of negative stock levels resulting of back ordering.
- 9. System wide reconciliation of product VAT types, and product descriptions.





6. OPERATIONS

This is a group of facilities & functions for the following day to day operations at Diamond Industries:



1. STOCK TRANSFER

This facility enables the user to transfer stock from the main warehouse to other depots and provides for deduction of the transferred product quantities from stock, and generation of a delivery note to the depot.

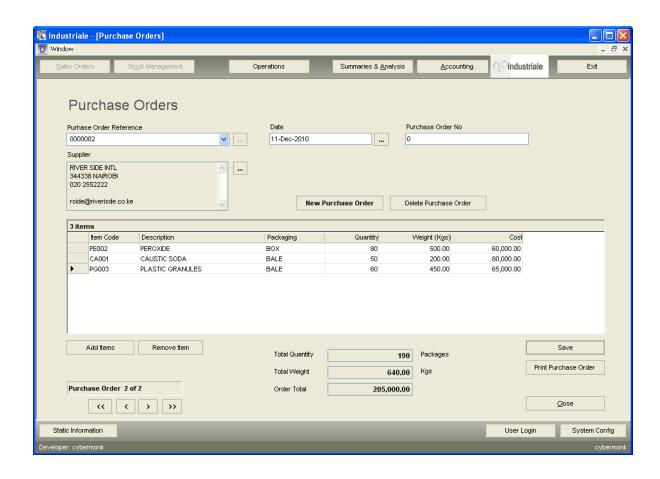
There are also provisions for input of information about the driver, vehicle used and the transporter of the goods. It also keeps records of all stock transfers for further analysis.

2. LOADING REQUISITION

This facility enables easy creation of loading requisitions at the head office required at the factory. There are also provisions for input of information about the driver, vehicle used and the transporter of the goods. It also keeps records of all loading requisitions for further analysis.

3. PURCHASE ORDERS

This facility enables easy creation of purchase orders by the user. It provides for easy selection of suppliers from the supplier database and automatic calculation of purchase order amounts. It also keeps records of all purchases for further analysis and accounting functions.



NOTE: All Items on Industriale in the various facilities are picked from reference databases which eliminates the need for retyping.

7. SUMMARIES & ANALYSIS

This is a group of facilities/ features that enables the user to perform analysis, to produce summaries and other reports on the various processes, tasks and functions performed by users on Industriale for purposes of comparisons, forecasting, decision making and execution by the management.

These are as follows:

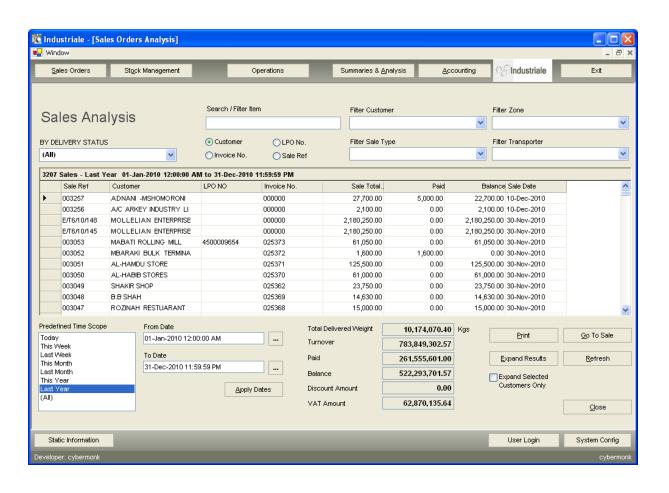
1. SALES ANALYSIS (SUMMARY)

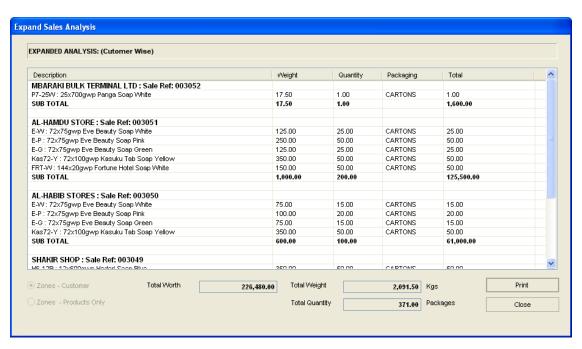
This facility enables the user to perform analysis of sales orders on a day to day basis or any given time span to automatically produce the Total Sales Amount, VAT Amount, Discounts, and Total Payments of goods and Total Balances for that given period.

It enables filtering of a customer, a transporter, customer zone, delivery status of goods, and sale types for the same given period.

There is also a provision for an expansion of filtered results to show the products of the orders customer wise or zone wise and the corresponding sub totals.

All analyzed results are printable.





2. PRODUCT SALE ANALYSIS

This facility enables the user to perform analysis of product sales volumes for any given time span. It automatically produces the Total Quantities, Total Weight, Total Bonuses and Total Sales for that given period.

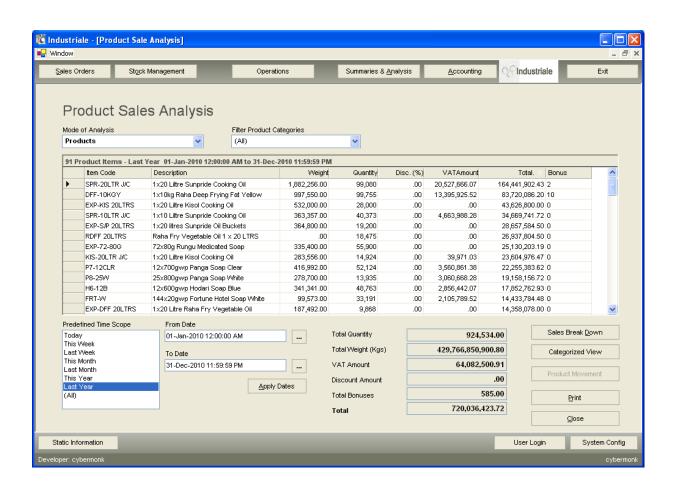
The analysis is done in the following modes:

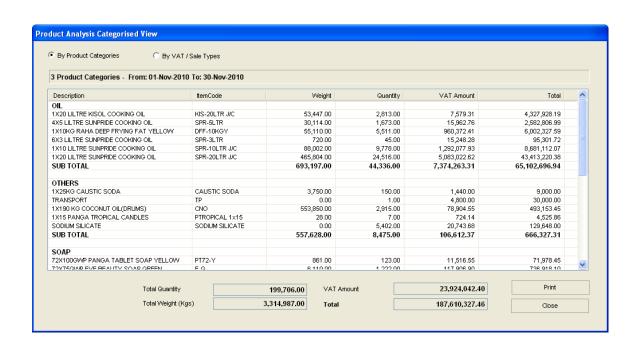
- a. By Each Individual Product type
- b. By product categories
- c. By VAT / Sale Types, i.e. **Standard, Exports or Exempt**
- d. By products Given as Bonuses

There is a provision that enables the user view the results in a **categorized** form displayed products are grouped in **Product Categories** or **Sale /VAT type categories** to shows the sub totals of the Quantities, Weight, Vat amount and Totals Sales for each group.

There is also a provision for breakdown of the sales for a selected product to show the customers who ordered bought the product and the respective quantities and weights they ordered for the given period.

Analyzed results can be filtered by product categories and are printable.





3. CUSTOMER PAYMENTS

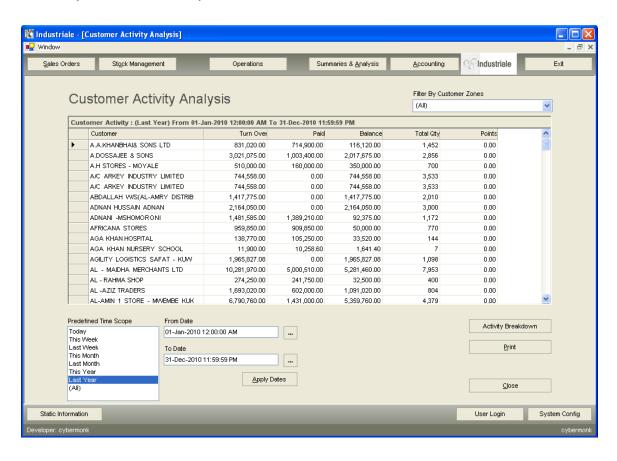
This facility enables the user to produce a summary of customer payments for orders for any given time span to show the total sum payments. The summary also includes cheque nos. the cheque dates and banks where the cheques are drawn from.

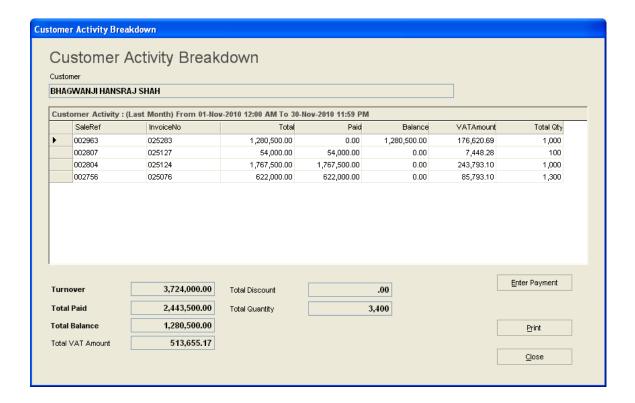
4. CUSTOMER ACTIVITY SUMMARY

This facility enables the user to analyze customer activity for any given time span to see the most active customer in terms of volume of orders, turnover, payment and balances. The results may be sorted from highest to lowest in by any of these mentioned criteria as desired.

This facility also provides for breakdown of the results per customer to show the individual orders and dates when the transactions took place in the specified time span.

All analyzed results are printable.





5. CREDIT / DEBIT NOTES SUMMARY

This facility of Industriale enables the user to produce a summary report of credit notes and debit notes issued to customer for any given time span. It allows for filtering of a customer to see that customer's credit /debit notes issued in that time.

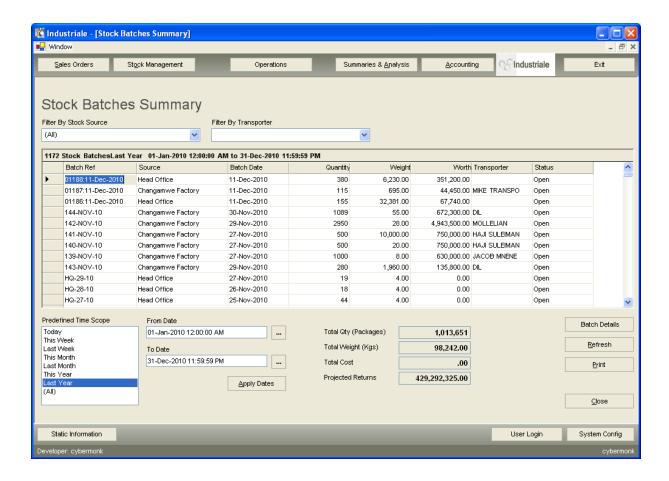
The results are printable.

6. STOCK BATCHES SUMMARY

This facility enables the user to produce a summary report of stock batches delivered and updated into the system for any given time span. the report shows the batch reference, source of the stock, quantities, weight, worth, transporter and dates of the batches delivered and updated in that time span.

It also automatically computes the totals of these values.

The results are printable



7. STOCK MOVEMENT ANALYSIS

This facility enables the user to analyze the movement of stock for each and every product in and out of the main warehouse by way of stock batch updates, sales and stock transfer so that for any given time span, the user can know;

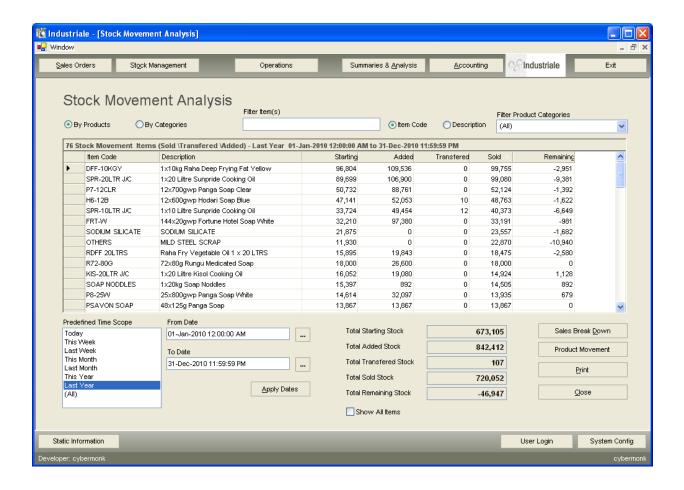
- a. the quantities of stock they started with
- b. how much was added
- c. how much was transferred and
- d. how much was sold
- e. how much was left

These results may be filtered by product category.

The analysis may also be done category by mode as opposed to product mode.

Totals for the above fields are automatically computed.

The analyzed results are printable.



8. STOCK TRANSFERS / DELIVERIES SUMMARY

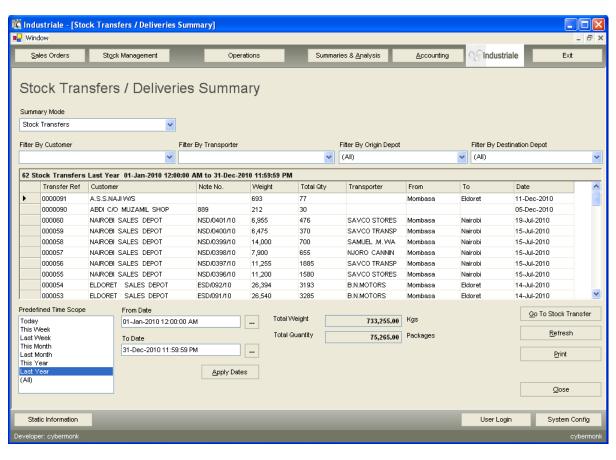
This facility enables the user to produce a summary report of all stock transfers and delivery notes for any given time span. The results show the customer/depot, quantity, weight, transporter and date of the stock transfers / delivery notes.

The results may be filtered by customer, by transporter, by source of stock and by the destination of the stock.

The user can also select an item from the result and trace that particular stock transfer on the stock transfer facility.

Totals quantities and weight of the transferred / delivered goods are automatically computed.

The results are printable.

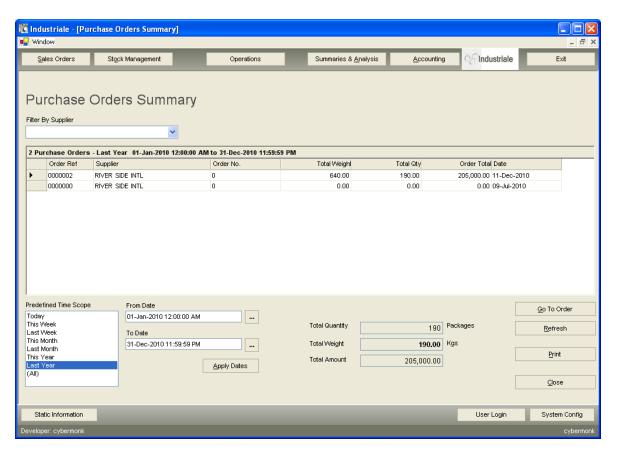


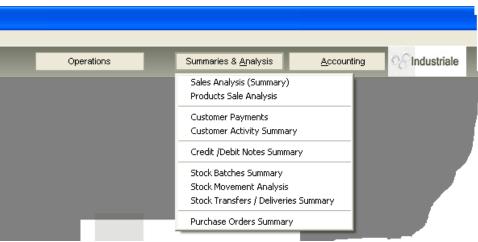


9. PURCHASE ORDERS SUMMARY

This facility enables the user to produce a summary report of purchase orders produced for any given time span. The results may be filtered by supplier, and by item categories. The user may also trace an order from this facility by selecting it from the summary results.

Totals sum of the orders in that given time span are automatically computed. The results of the summary are printable.





8. ACCOUNTING

This is a group of facilities / features that enables the user to do the various accounting tasks pertaining to the business operations and processes performed using Industriale; which is mainly sale of manufactured goods in stock, and purchase of supplies and raw materials for manufacture of products and support of the production and marketing processes.

These are as follows:

1. INVOICES

This facility enables the user to get a summary of all invoices for sales to customers for any given time. The information shows the customer, the invoice no. invoice date, the total amount, the down payment and the amount due. The VAT amount of the invoice is also shown.

Totals sum of the above fields are automatically computed.

Here the user is able to select a customer's invoice from the list and make directly make payment for it.

The in the event a payment is/was made erroneously the user is also able to "un-pay" the invoice simply by deleting the payment. Industriale keeps track of all payments made against an invoice.

The user can a filter invoices for a particular customer for any given time span, they can print a single invoice or a batch of invoices on this facility. They are also able to print the summary results on display.

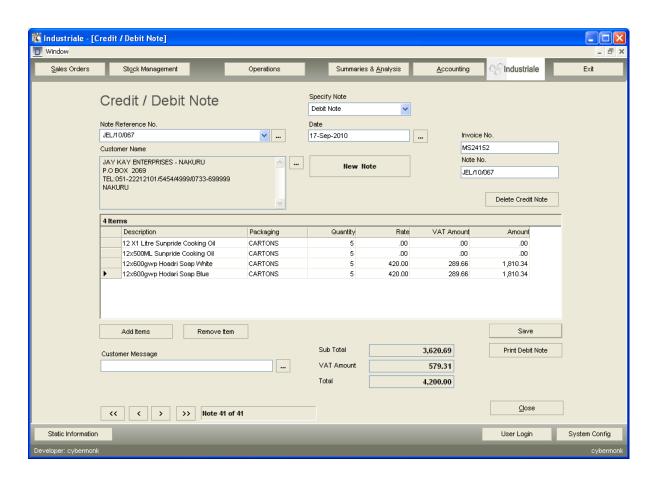
The user can also search for an invoice using the invoice no.

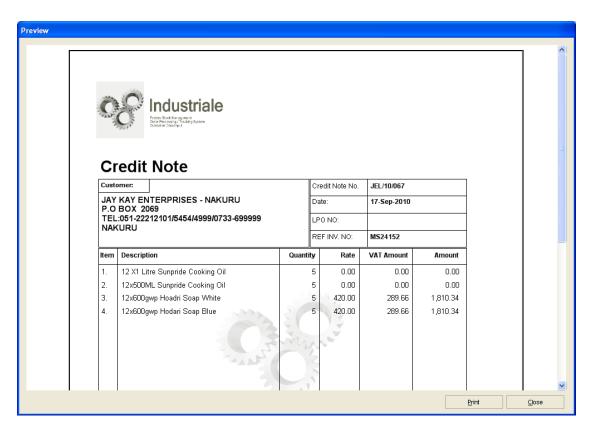
2. CREDIT / DEBIT NOTES

This facility enables the user to create Credit or Debit notes for a customer. It allows for setting of the type of note i.e. credit or debit, addition of product items for the credit note and input of standardized customer messages from the credit / debit note messages reference.

The user can then proceed to print the note.

Records of the created notes are kept for further analysis and accounting operations.

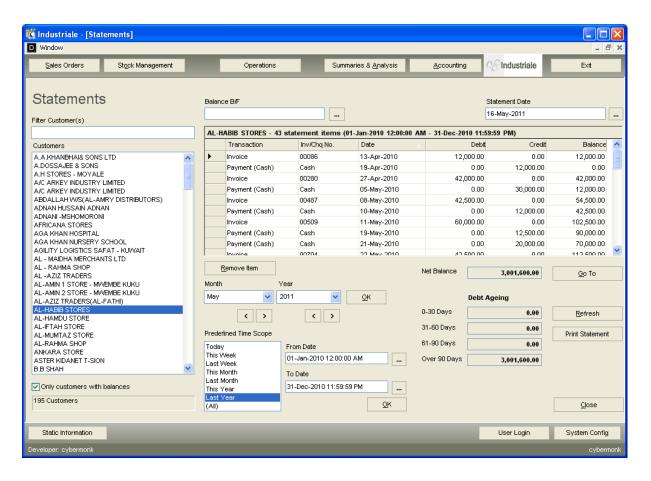


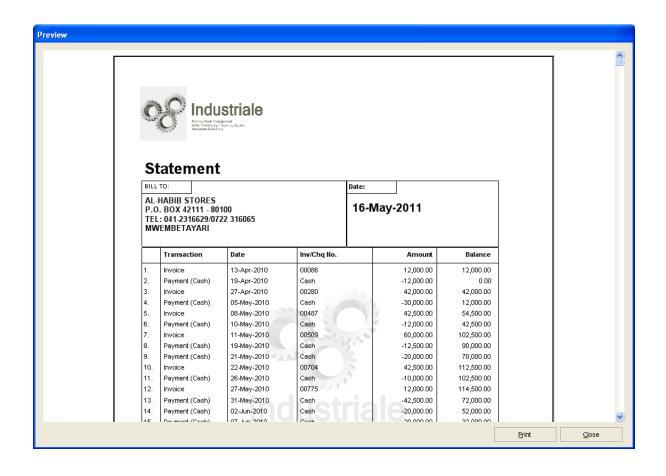


3. STATEMENTS

This facility enables the user to produce statements for a customer for any given time span. The system retrieves the invoices, credit notes and debit notes issued in the selected time span to generate a statement; automatically computing the net balance, and debt ageing for 0-30 days, 31-60 days, 61 to 90 days and over 90 days.

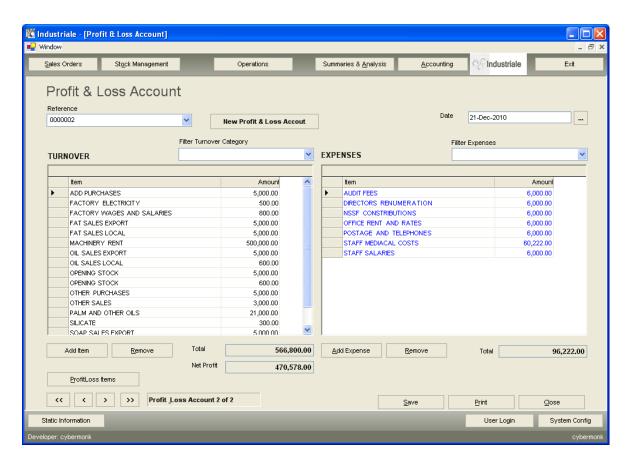
The user can then proceed to print the statement for the customer.





4. PROFIT AND LOSS ACCOUNT

This facility enables the user to create Profit & Loss Account with Industriale. Profit & Loss Account items i.e. Turnovers and Expenses are initially entered into a reference database where the user can pick them to create profit & loss accounts whenever they want without have to retype the items. This enables the user to easily create as many profit & loss accounts as they would like especially when they want to make comparisons.

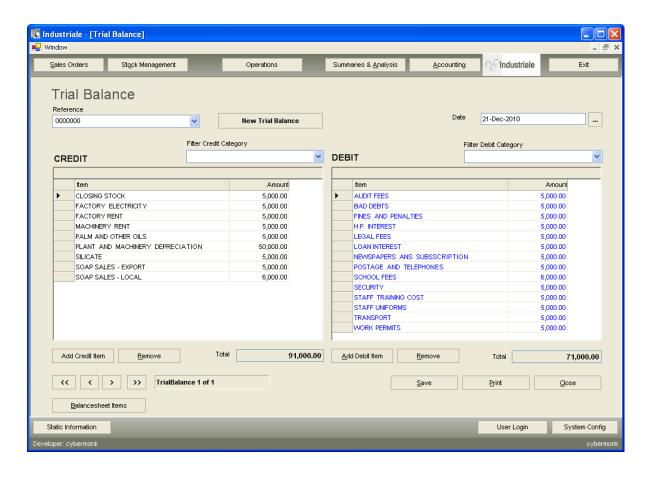


The facility also provides for filtering of turnover and expenses items to give the user subtotals for each category of the profit & loss account.

Once satisfied, the user can print the profit & loss account they have created.

5. TRIAL BALANCE

This facility enables the user to Trial Balances sheets with Industriale. Trial Balances items i.e. credits and debits are initially entered into a reference database where the user can pick them to create trial balances whenever they want without have to retype the items. This enables the user to easily create as many trial balances as they would like especially when they want to make comparisons.

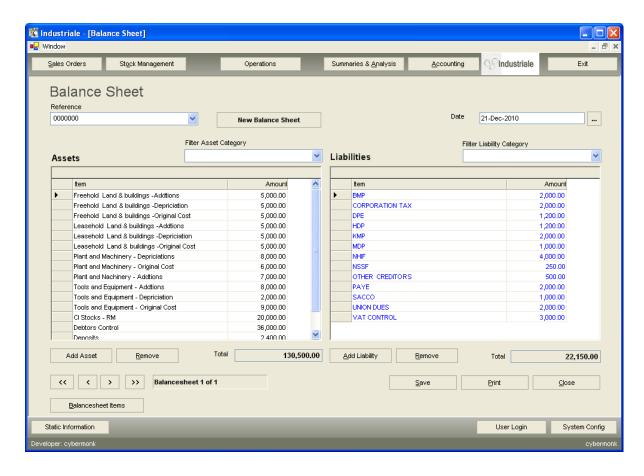


The facility also provides for filtering of credit and debit items to give the user subtotals for each category of the trial balance.

Once satisfied, the user can print the trial balance they have created.

6. BALANCE SHEET

This facility enables the user to create Balance sheets with Industriale . Balance sheet items i.e. Assets and liabilities are initially entered into a reference database where the user can pick them to create balance sheets whenever they want without have to retype the items. This enables the user to easily create as many balance sheets as they would like especially when they want to make comparisons.

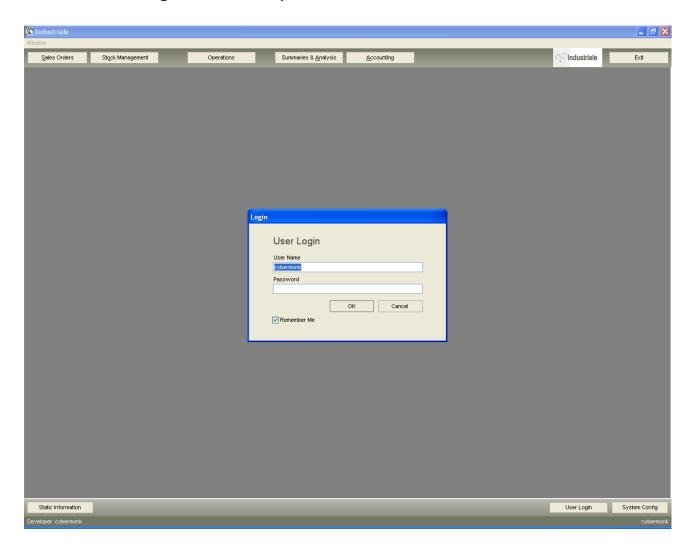


The facility also provides for filtering of asset and liabilities per category to give the user subtotals for each category of balance sheet items.

Once satisfied, the user can print the balance sheet they have created.

9. USER LOGIN

This facility is used to enable the registered users to log into the system with their registered user name and password. Without the current username and password the user cannot log in to use the system.



10. SYSTEM STATUS

Industriale is fully functional system and may be deployed for use as the main system with the existing systems being put on standby with the objective of phasing out in due time.

Client may later on implement remote data input via internet into the main system for various processes like updating stock levels directly from the factories and making sale orders remotely from depots via internet.

This would require the following equipment and infrastructure to be in place:

- 1. A powerful server.
- 2. A high bandwidth internet net connection.



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