

PRODUCTS

Indosoft Systems



Implementing ideas

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Enterprise Resource Planning Software for Jewellers (JEWELTECH)

Browser based, multi-currency, multi-location, multi-lingual ERP for jewellers using DOT NET technology with support for Barcode, PDA, weighing scale etc. It follows ebXML, UN/CEFACT, Bizcode, ISO/IEC, ANSI and EDI standards.



TECHNOLOGY

□ Front end

□ C#

□ ASP.net

□ Backend

□ SQL Server

□ Ms-Access

Menus of Jeweltech

- Sales & Marketing management
- Purchase & Vendor Management
- Inventory Management
- Customer Relationship Management
- Human Resources Management
- Accounting management
- Workshop & Repairs management
- Reports , Utilities, tools and Systems
- Globalisation and EDI manager

FEATURES

- Multilingual Capability
- Biz codes integration
- XML signature integration
- Data interchange standards
- Eb-xml standards
- Barcode integration
- Messaging Support Integration
- Interaction Financial Exchange forum POS integration

□ Setup

- Privileges
- Company Setup
- Division Setup
- Department Setup
- Shop Setup
- Workshop Setup
- Warehouse Setup
- Credit Card Types
- Currencies
- Location Setup
- Tax Groups
- Security Setup
- Language Setup
- Style Numbering
- Product Pricing

□ Item Setup

- Item Family Setup
- Item Sub-Family Setup
- Item Category Setup
- Gemstone Colour
- Gemstone Clarity
- Gemstone Cut
- Gemstone Fluorescence
- Pearl Blemish
- Pearl Colour
- Pearl Lustre
- Pearl Nacre
- Pearl Overtone Colour
- Pearl Shape
- Pearl Size

□ Customers

- Customer Information
- Customer Financials
- Customer Contacts
- Customer Contact Log
- Customer Order
- Customer Loyalty

□ Vendors

- Vendor Information
- Vendor Financials
- Vendor Contacts
- Vendor Group
- Items Vendorwise

□ Inventory

□ Sales

- Jewellery
 - Rings
 - Earrings
 - Necklaces & Pendants
 - Bracelets
- Gemstones
- Pearls
- Colour Stones
- Watches
- Metals
- Components
- Accessories
- Barcode Labels
- Stock Details
- Stock Take
- Stock Adjustment
- Issue for Demo
- Sales Invoice
- Valuation Certificate
- Quotation
- Issue Credit Note
- Promotional Schemes
- Catalogue
- Exchange with Secondhand

□ Purchase

- New Purchase Order
- Update Purchase Order
- Approve Purchase Order
- Purchase Invoice
- Goods Returned
- Vendor Item List
- Order Type
- Transaction Type
- Shipment Method

□ Workshop

- Sales Invoice
- Workshop Invoice
- Valuation Invoice
- Issue Credit Note
- Design/Make
- Catalogue
- Artisan

□ Repair

- Repair Invoice
- Repair Receipt
- Repair Status
- Repair Charge

□ Employees

- Profiles
- Attendance
- Salary

□ Accounts

□ Interfaces

- Groups
- Ledgers
- Expenditures
- Vouchers
- Barcode
- Weigh Scale
- Scanner
- PDA


□ Reports

- System
 - Companies
 - Divisions
 - Departments
 - Currency Types
 - Security Set up
 - Tax Groups
- Customers
 - Customer Information
 - Customer Financials
 - Customer References
 - Customer Contacts
 - Customer Contact Log
- Vendors
 - Vendor Information
 - Vendor Financials
 - Vendor Contacts
- Inventory
 - Inventory By Item
 - Low Stock Alert
 - Inventory Valuation Report
 - Pricing Methods

□ Online Utilities

- E-mail
- Calculator
- Currency Calculator
- Ring Sizer
- Calendar
- Alpha-numeric Pad
- Diamond Calculator
- Gold Price Calculator
- Notebook

Sample Screen



ADMINISTRATION : USER ACCESS DETAILS

- Setup
 - Privileges
 - Company Setup
 - Division Setup
 - Department Setup
 - Shop Setup
 - Workshop Setup
 - Warehouse Setup
 - Credit Card Types
 - Currencies
 - Location Setup
 - Tax Groups
 - Security Setup
 - Language Setup
 - Style Numbering
 - Product Pricing
 - User Access Level
 - User Access Details
- Item Setup
- Customers
- Vendors
- Inventory
- Sales
- Purchase
- Workshop
- Repair
- Employees
- Accounts

Employee Id :

User Name : *

Password : *

Company : Division :

Department : Shop :

User Access Level : four

		Form Name	Read	Write	Update
System Setup	<input checked="" type="checkbox"/>	Jewellery Ring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item Setup	<input type="checkbox"/>	Jewellery Earring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Customer	<input checked="" type="checkbox"/>	Jewellery Necklace & Pendant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vendor	<input type="checkbox"/>	Jewellery Bracelet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inventory	<input checked="" type="checkbox"/>	Gemstone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reports	<input type="checkbox"/>	Pearl	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sales	<input checked="" type="checkbox"/>	Color Stone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purchase	<input type="checkbox"/>	Watch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Workshop	<input checked="" type="checkbox"/>	Component	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repair	<input type="checkbox"/>	Accessory	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Employee	<input checked="" type="checkbox"/>	Metal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Account	<input type="checkbox"/>	Stock Detail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interface	<input checked="" type="checkbox"/>				

Status :

	Username	Employee ID
<<	Alex	P-000435
<<	jeweltecherp	jeweltecherp
<<	jt	jt
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Universal Banking System (Datamate)

Data Mate is a Centralised Banking system that provides financial institutions with retail, and corporate banking functionality, integrated treasury management as well as all areas of Retail Banking, from extensive delivery channels through to the back office, general ledger and MIS.

Data Mate manages the relationship between the bank and its customers across multiple site operations and takes full advantage of the growing range of delivery channels available. These channels include WAP phone and Web Browser, and allow corporates to make use of extensive facilities including, for example, banking and treasury operations across the Internet.

The Data Mate database runs under Microsoft SQL Server or Oracle database technology and supports a sophisticated multiple language, multi-branch environment on a 24x7 basis, allowing banks to define their own products for the market by providing extensive screen based product definition.

With a range of capability from sophisticated real time risk management through to Data Warehousing, the system is expected to meet the needs of most banks seeking to move forward and take advantage of the latest technology.

Technical Architecture

Data Mate's technical strategy is to build a library of reusable business components for the rapid construction of Internet enabled banking applications for deployment onto standard J2EE alongside Microsoft NT / 2000 technologies, thus providing the Bank with choice of processing architecture.

Data Mate defines a component as "a separable piece of executable software, which makes sense as a unit and which can be put together with other components to build a larger component, or form part of a whole application. The component is accessible only via its interfaces and is capable of business use 'as-is', after any necessary installation and configuration procedures have been carried out".

Data Mate components are modelled and designed using end-to-end UML Rational Rose methodology, Object Oriented (OO) principles, engineered using the J2EE, Enterprise java Beans, server side programming architecture, to be deployed in a distributed architecture on high performance Unix servers. The components will also be available for Microsoft Windows Distributed internet Application (DNA) architecture and deployed onto a standard Microsoft NT / 2000 environment.

Data Mate adopts the ISO standard three-tier approach to the design, development and deployment of the solution, namely presentation, application and data.

The first tier is the database server(s), typically using Oracle or MS-SQL Sever. The design incorporates a separate component to handle database related issues such as encryption. The second tier is the application server(s) running in a standard J2EE environment (Web Logic, iPlanet.....) or Microsoft NT / 2000 server environment – the business logic has been implemented as a series of components (Java Beans), hosted in a J2EE compliant object broker, or utilising Microsoft Message Queue Server (MSMQ). The last tier is the presentation and navigation of the application to the user, and here Data Mate adopts a standard web-browser client, providing a familiar look and feel, with appropriate functions being capable of deployment across the Internet.

The new system takes full advantage of:

1. Building on the company's skills in Product Development for the Banking industry.
2. The existing product, Cheq Mate, has been very well received with in excess of 1600+ installations in various Nationalised, Private, Co-operative, and DCC along with Apex banks.
3. Competitively, Cheq Mate has stood its own against established product offerings in the market industry, including for example TCS and Infosys. The main reasons for this competitive excellence are:
 - The functional ease of use.
 - The ongoing development programme over the years demanded by such large customer base.
 - The company's proper packaging of the product including ongoing support
 - The company's excellent relations with the Bank's senior management. Thus allowing for correct product timetabling to meet the business' developing needs

Specifications

During the planning phase of Data Mate various functional decisions were taken. The system has been design from the outset to be

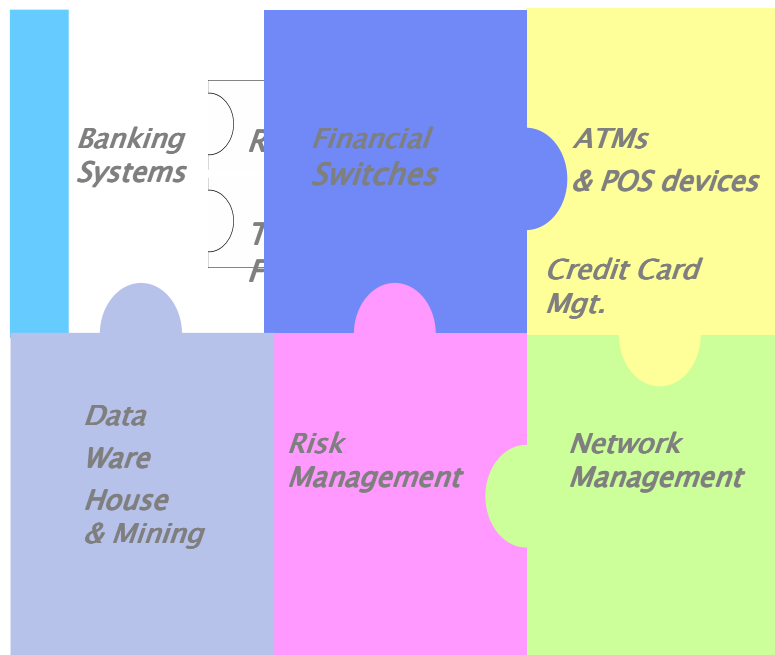
- Browser based
- Multi-channel
- Multi-currency

The base functionality of Data Mate was designed to build upon the years of experience of Cheq Mate and to include:

Elements of tender specifications received in the recent past.
 Specifications in Bank of Nigeria’s tender.
 The specifications were then validated by an external consultancy.

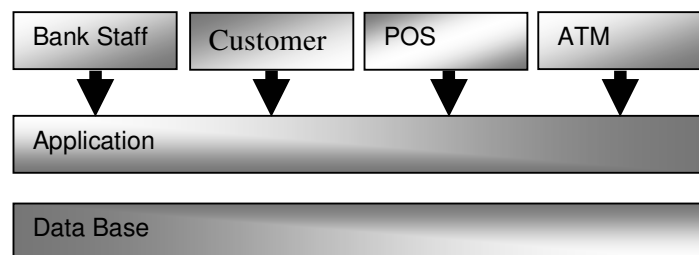
Usage Modes

1. Data Mate is usable either by a single bank or by a group of banks. If it is used by a group of banks, they could host it jointly or via a third party hosting company.
2. To satisfy the alternative usage modes, the system will operate in the ASP (Application Service Provider) model, enabling either the third party to bill for services rendered or the bankers’ group to process billing to attribute cost to the relevant cost code.
3. The ability exists for the Bank to out source all or any of the technology required to operate. DataVision can provide a full service offering as shown below:



Users

The users of this system in the main, be bank representatives, account holders and system calls



will,

from POS devices and ATMs.

Architecture, application design



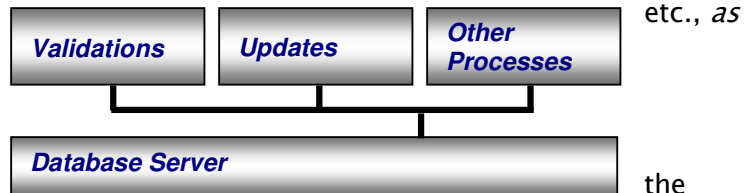
The application is a 3-tier schema architecture conforming to ISO definitions, clearly separating the presentation, business and data layers.

This architecture allows for components to be licensed individually, if so desired, thus coupled with an open technical architecture protects the Bank from the fears of redundant investment as technology changes.

With the exception of common routines for screen input validation no business logic resides in the presentation layer.

4. The application is based on “distributed components”.

Providing the ability to separate the validations, updates and other processes of interest calculation, queries, reports, etc., as required.

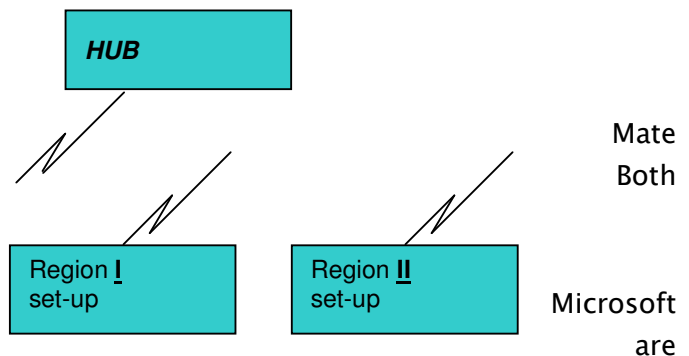


This provides the bank with the ability to execute functions depending on the account location. For example, if the account is in Region II and it is being operated from Region I, then the validation and update components residing at Region II will be activated to ensure the response time remains high. It should be noted that in this model the applications at Region I and Region II are identical in all respects.

Platforms

Application

DataVision selected two base technology platforms for the Data application, Microsoft and Java (EJB). technologies allow for the development of distributed components based applications. has an advantage that all subsystems available from one vendor.



In general Microsoft provides a more cost effective platform compared to a strategy of Unix based systems. General market opinion and discussions with third parties does however indicate that there is really not much to choose between these two methodologies.

In order to provide the Bank with freedom of choice with regard to its preferred processing platform Data Mate will also be available using Windows NT/2000 technologies. On the Java platform, Data Mate will initially be available with iPlanet and WebLogic application servers. Data Mate will also be available on one of the freeware servers. This will ensure that should the application be used in a TBA setup, the commercial terms of iPlanet and WebLogic are not prohibitive.

Front End

Browser based user interfaces

There are a number of key advantages to the Bank in a processing environment where the user interface is Browser based:

- a) The resource requirements at the user end machines are minimal – the DataMate application code resides 100% on the server thus reducing local machine processor power, memory and disk requirements.
- b) Potentially, there will be no specific requirements for the end-user machine except that a browser is installed; a user has complete freedom of choice and could use Linux, Windows, Mac, Sun or any other system.
- c) Software updates are loaded once at the center, there is no requirement for software engineers to visit the user.
- d) All users are automatically using the same version of the application.

Back End

Data Mate has also been designed to fully function within the Bank's stated Database strategy. The first releases of the product will use one of Oracle, SQL Server, MySQL; future releases will support ODBC compliant databases.

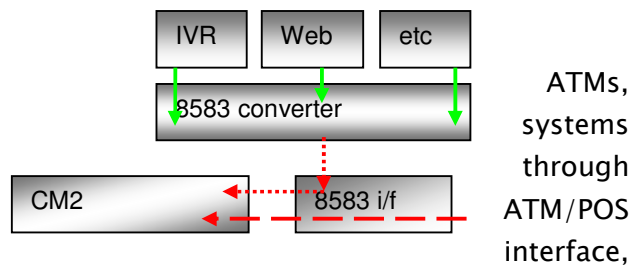
Reports and Queries

The Data Mate application contains standard reports. In order to maintain Bank flexibility these reports have been written in the most widely used third party tool

(Crystal Reports). This strategy allows the Bank to easily personalise the standard reports and queries in order that they meet the Bank's specific needs. Additional reports can easily be added as part of the implementation phase.

Interfaces

The application will provide interfaces to POS devices, IVR and Internet Banking among others. The ATM interface will be ISO8583. Since communication with the switch will be through the ISO8583 all other interface requirements will be handled through this interface as well.

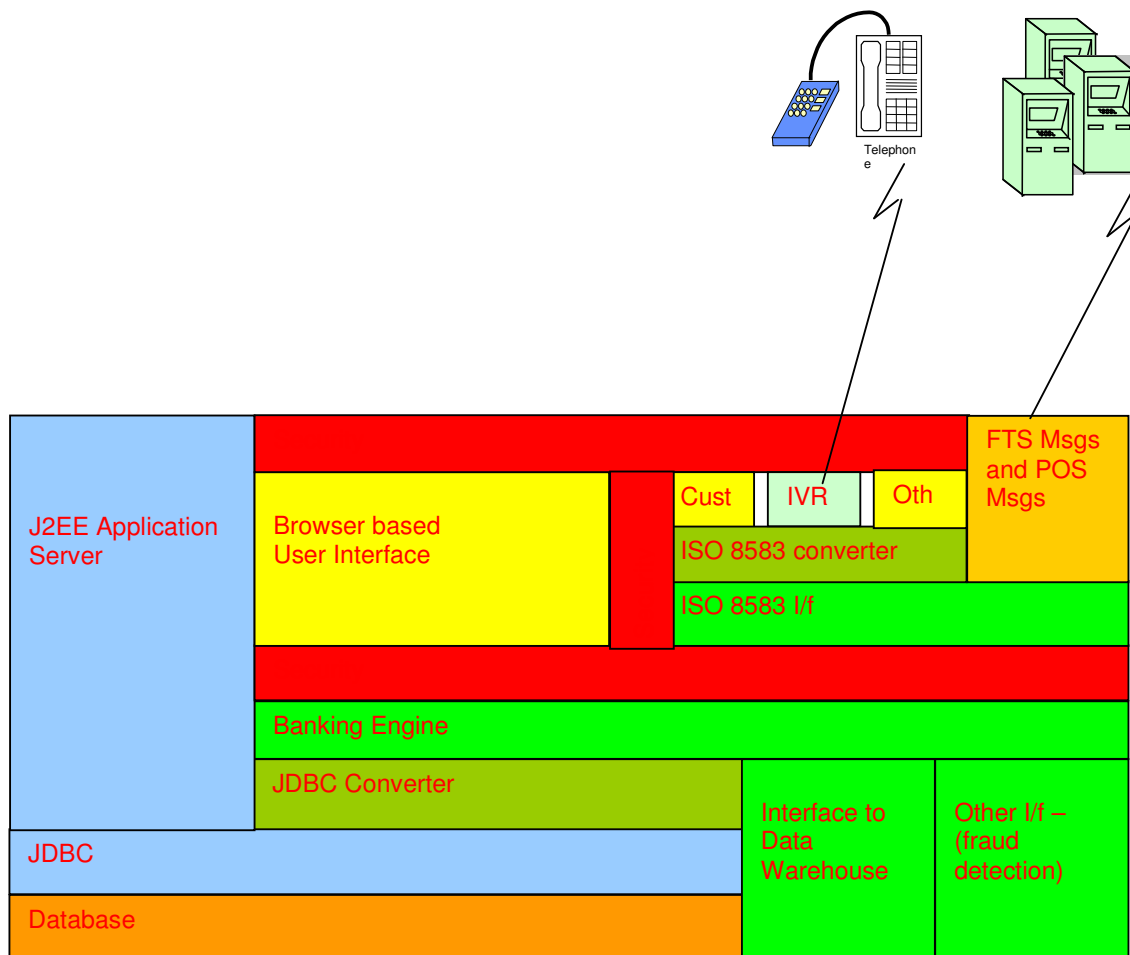


Assumptions

Various assumptions have been made when defining the scope of Data Mate:

- ❑ It is assumed that TCP/IP connectivity over the Wide Area Network (WAN) is available. It is also assumed that fall back lines would be available and that suitable networking infrastructure is in place
- ❑ Replication for disaster recovery is outside the scope of Data Mate; it is assumed that operations will instigate this function as part of the management of the Bank's processing facility.
- ❑ It is assumed that third party encryption software or java / Microsoft products and technologies will be used for encryption.
- ❑ The application will provide for import / export of data.
- ❑ The application will be fully integrated with the Bank's chosen Financial Transaction Switch.

Architecture Block Diagram



Modules

Built as a fully modular system Data Mate overall functionality can be grouped under several headings:

- General Ledger
- Savings Bank
- Current Account
- Cash Credit & Overdraft
- Term Loans
- Term Deposits
- Bills
- Safe Deposit Lockers
- Remittances
- Bank Guarantees

Letter Of Credit
Cash Deposits & Payments
Outward Clearing
Inward Clearing
Non Performing Assets & Interest Reversal
Funds Management
Inter Branch Reconciliation
Share Accounting
Personnel Information
Pay-Roll, PF, Gratuity
Signatures
Photographs
Standing orders
Direct Debit/Paylink
Securities
Point of Sale transactions
ATM transactions
Tele-Banking
Internet Banking
Money Market
FX
Options
Futures
Swaps
Forward Rates
Cap-Floor
Liquidity Risk
Market Risk
Credit Risk
Statutory Reporting

Electronic Transaction Switch

Electra is the new-generation transaction switching system with interfaces to multiple channel end points on one side and multiple back-end processing systems and interchanges on the other side. The Electra architecture facilitates acquiring transactions from ATMs, POS devices, Internet, payment gateways, and web kiosks. The high-performance switching engine switches financial transactions to/from retail bank hosts, credit card management systems and national and international interchanges.

Electra Switch is an end-to-end software solution for businesses that offer and handle real-world payment transactions across the entire payment lifecycle. It supports Internet, merchants, issuers, acquirers, processors, payment gateways and card associations. Electra provides a flexible, scalable software solution that seamlessly bridges real-world and virtual channels.

Based on a fully component-based architecture, Electra's plug-and-play modules can be licensed for application deployment with greatly reduced implementation cycles.

Integrated Channel Management

Electra allows banks to integrate their retail delivery channels be they ATM's, POS, Teller, Internet, Web merchants, IVR systems seamlessly. Banks seeking to provide 'anywhere banking' can set up their host systems to route transactions through Electra.

Card Management Module

Supports issuance and management of debit, credit and charge cards.

Interchange Support

Supports all major interchanges – VISA, MasterCard and Europay.

Centralized management and monitoring

Provides centralised management and monitoring of:

Terminals – ATMs, POS

Hosts – Banking, Credit Card interfaces

Networks – VISA, MasterCard, Europay, other Switches

Routing and Authorisation

Electra is configurable to authorise transactions in various modes (Online authorisation with banking hosts or Offline authorisation at switch) using card limits, positive balances or Negative list. It can route transactions to various hosts / destinations using Card BIN range or Account numbers.

Merchant Management

Merchant Management module provides comprehensive functionality to address the authorisation and settlement requirements of each stakeholder in the POS Network supply chain.

Clearing and Settlement Module

Electra supports clearing and settlement function with International networks, National Switches, Other Banks.

Inter-branch settlements for banks with distributed hosts

Periodic report generation for transaction lists, fee calculations, adjustments and exceptions.

Terminals – ATMs, POS

Hosts – Banking, Credit Card interfaces

Networks – VISA, MasterCard, Europay, other Switches

Trendis

TRENDIS is an Executive Information System that provides 'touch of a button' analysis to the retail bank management on usage patterns of customers, services and delivery points across time, channels, and geographical regions. TRENDIS provides the Bank management with in-depth performance-analysis capabilities and promotes informed decisions with data collected from your channels and transformed into meaningful information.

Channel Management

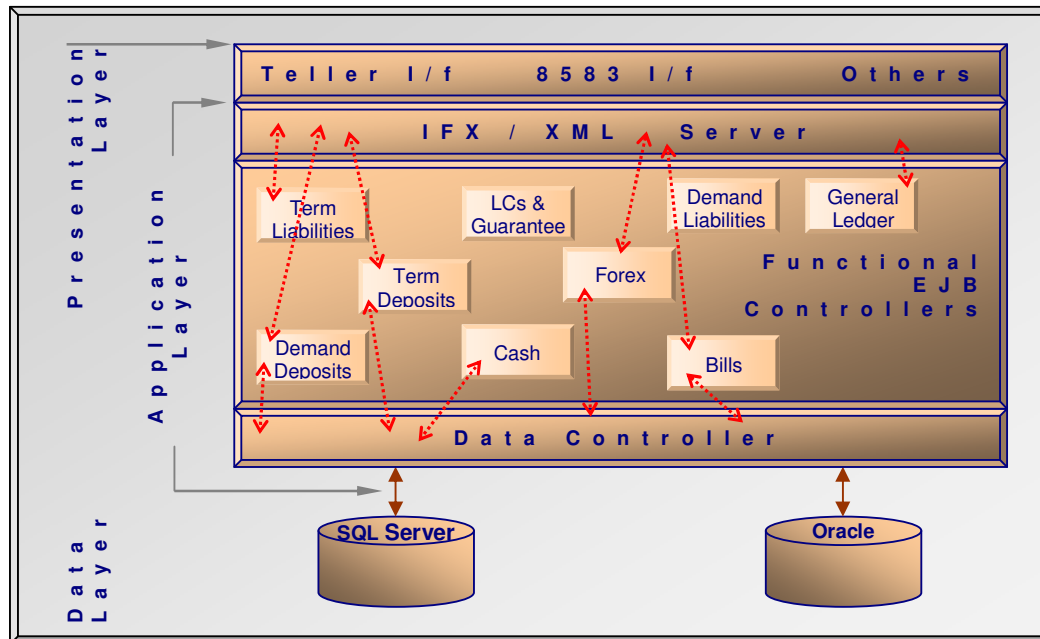
Trendis allows the Bank management to make informed decisions based upon the ability to:

Plot usage growth patterns, response to new services and channels, usage trends by time and day, value of transactions

Analyse transaction type mix, distribution over locations and networks, and channel response

Understand reasons for transaction rejection and initiate customer education and awareness programmes

Rank the best and worst performing devices, locations, merchants and services



Customer Behavior

Learn where customers use the channels and services. Trendis allows the Bank to rank the services, channels and merchants by usage and transaction values. Managers can invoke Trendis reports/graphs of transaction count, values by time, merchant and location

The Bank's marketing managers can also use Trendis as the basis of their Customer Relationship Management (CRM) strategy;. Trendis will be used to profile customers and develop marketing strategies to target market and cross sell.

ATM Downtime

Trendis reports will allow the operational management to rank the best and worst ATM devices by uptime. The Trendis functionality allows the user to analyse reasons for downtime, e.g. cash out, card reader, depository, communications, printer, stationery, and power outage.

It also allows a review of host availability; showing the number of times the ATM/POS switch 'stood in' for authorisation.

TRENDIS has a very user-friendly interface, is accessible on the Bank's Intranet and runs on off-the-shelf servers and databases. Once set-up, it is easily manageable, requires minimum attention, and quickly turns into an information asset.

Integrated Hospital Management System (IHMS)

The Integrated Hospital Management System handles the day-to-day, and budgetary activities of the hospital.

The purpose of the software is to manage the hospital and its patients.

This relates to managing patient information, managing the administration of the hospital, managing doctor itineraries, providing the management with MIS information, etc.

The module description, and the workflows that are illustrated in this document serve to assist in making an assessment, and to gain a rudimentary understanding of the solution deliverables.

Module List

- ❖ Registration Management
- ❖ Appointments Management
- ❖ OPD Management
- ❖ Emergency Services Management
- ❖ Floor (Ward) Management
- ❖ IO Billing Module
- ❖ Laboratory Management
- ❖ Investigations Management
- ❖ Diet Management
- ❖ Operation Theatre Management
- ❖ Medical Records Maintenance
- ❖ Packages Management
- ❖ Pharmacy Management
- ❖ Blood Bank Management
- ❖ Central Sterile Supply Management
- ❖ Financial Accounts Management
- ❖ Accounts Receivables Module
- ❖ Accounts Payables Module
- ❖ Stores And Inventory Management
- ❖ Personnel And Payroll Management
- ❖ Time Attendance Module
- ❖ Gate Pass Management
- ❖ Statistical Analysis And Statutory Reports

❖ MIS Reports And Graphs

REGISTRATION MANAGEMENT

The registration comprises both outpatient registration, as well as the in-patient registration. Depending on management policies, outpatient registration may be made compulsory for inpatient registration.

In the case of outpatient registration, the patient will be registered by way of getting their personal information, their ailments, and the registration fee. The patient would then be routed to the OPD. In the case of IP registration, the IP will be admitted through the registration counter and routed to the concerned floor.

APPOINTMENTS MANAGEMENT

Appointments management primarily handles doctor, laboratory and test appointments. It also provides doctor schedules, doctor visits, consultation entries and consultant Entries. This serves as a platform for doctors to handle patients at their convenience, and to render the required treatment.

The software updates the billing module online. The doctor's fees and the consultant's fee details are made available to billing, as soon as it is entered in the ward.

The module allows users to enter the doctor visit, and the other details from the ward itself. Doctors may choose different consultation tariffs for patients. These tariffs may be: general, special etc., and are fetched from the Tariff Master.

OUTPATIENT DEPARTMENT MANAGEMENT

Outpatient management handles consultation entries, apart from the entire doctor appointments module. The exceptions being: consultant entry, and doctor visits. This module maintains an exhaustive fee structure for doctors, based on the categories of patients, and the visits that they handle.

The updating of the billing module is online. Whenever, the consultation tariff or the doctor visit entries are entered, the fees and the other details are made available in the billing module.

The consultation, and billing modules permits doctors to enter different consultation tariffs for patients. These tariffs may be categorized as, general, special etc., and are fetched from the Tariff Master.

FLOOR (WARD) MANAGEMENT

Floor management handles inpatients. The process starts with room admissions, and ends with the patient discharge. The software comprises of room admissions at the registration, or on the floor, to handle either circumstance.

The entries that relate to rooms, and beds are updated online. This enables users to view the current status of each room, and the beds in the ward. This is made possible in the reception module, and in the wards.

IO BILLING MODULE

IO billing handles the outpatient and inpatient billing raised by various departments for concerned patients. All finance related inflow to the hospital pertaining to patients is passed through the billing module, and it acts as a central repository for all the other modules.

The module provides online updation of the respective ledgers, or the daybooks, or bill books whichever is applicable. This enables the user to view the current status of all the ledgers, in any module. Apart from avoiding batch processing, this feature ensures that information is available in a timely fashion, which may be served to all concerned personnel, and heads of departments.

The IO billing module handles the billing for consultation fees, which is made at the time of the case sheet preparation, patient status monitoring, or during the doctor visits. The system incorporates the prescriptions, and investigations made by the doctors. This is done such that the data might be made available at the billing module from each of the clinical modules.

LABORATORY MANAGEMENT

The laboratory management module handles clinical tests that are conducted under the different departments, such as, clinical pathology, microbiology, etc.

The laboratory management begins with the requisition for tests, and ends with the test results. Repeat tests, due to abnormal values or for other reasons are also handled through the system.

Lab management takes entries from the OP billing module, in the case of outpatients, and pass entries to IP billing module in the case of in-patients.

The system provides for online updation of the investigation chart, which is present in all case sheets. Therefore, after the doctors certify a test, they may also view their patients test results. The tests recorded in the order sheet are picked online in the Lab module.

All lab tests, investigations, their results, the date on which the tests were conducted, and the normal values for each are displayed on an Investigation chart. This chart is made available in all the case sheets, and is also provided as a separate screen.

INVESTIGATIONS MANAGEMENT

The process of investigation begins with the raising of requisition from the OPD or floor, and ends with the test result, conducted and passed to the medical records. The system records test entries based on the requisitions raised. The test is certified, authorised, and in the case of a wrong result the test is redone, and result sent back to the concerned personnel.

The software provides for the online updation of the preparations, instructions and procedures. These are entered in the case sheet parameter entry screen. The normal values for each test are also fetched from the case sheet parameter entry screen by the system. These normal values, along with the test results are retrieved in all case sheets that aid diagnosis.

All the procedures that should be carried out before conducting an investigation, along with the normal or default values are entered in the case sheet parameter entry screen. The doctors may also enter the necessary instructions, and reporting formats in this screen. Once the test intimation is entered, all investigations will become available in the test entry screen.

DIET MANAGEMENT

The diet module handles the diet prescribed for the patient by the doctor, in an online mode. It offers diet cards, and diet entries that allows the floor secretary to communicate information to the concerned personnel. The diet module also serves data to the billing module.

The kitchen order token number identifies issues to the patient by the dietary department. The diet prescribed by the doctor is updated online in the dietary department, and displayed shown against the patient diet entries, thus minimizing the data entry.

A provision is made for the validation of diets available for selected patients. This is

done through the diet advice prepared by the doctor on the order sheet (requisition). Restriction of diets based on the time (forenoon, afternoon, night) is also captured in the diet master against particular diets.

OPERATION THEATRE MANAGEMENT

The operation theatre module handles the outpatient and inpatient operations. This module is linked with billing, floor, stores, OPD and pharmacy. It offers features such as: operation theatre booking, theatre scheduling, surgery entries with its sub-faculties, issues entry etc, which ensure the proper management of the operation theatre.

The software ensures that the costs of items used in the operation theatre are billed to the patient. The stock at the operation theatre is maintained through a link provided with the pharmacy, and the stores module. The requisitions, or indents raised in the operation theatre will be made available to the pharmacy and stores.

MEDICAL RECORDS MAINTENANCE

The medical records module maintains patients' records in designated spaces. These records may be from the laboratory, investigations, discharges on the floor, and patient case sheets.

The module offers a wide range of information pertaining to patient history, in the form of output reports.

The system provides a link for diseases with ICD codes, provides multiple department case sheets for selected patients, and records all relevant details that are required for MR purposes.

PACKAGES MANAGEMENT

Packages help the hospital in handling corporate customers by way of offering sets of laboratory tests, and investigations, as bundled offerings that satisfies the customer's health policies.

Bills are directed to the corporate entity, and employees may avail services, and medication from the hospital, based on their grade, and the financial limits set by the corporate entity.

PHARMACY MANAGEMENT

The pharmacy module links the prescription in clinical monitoring (physician order sheet) with the pharmacy billing. This is based on the reference number maintained in the order sheet.

The system updates online, the respective ledgers. This allows users to view the current stock status of drugs in the pharmacy. In this fashion, batch processing avoided, and timely information is available.

For the process of stock updating, the system provides users with knowledge on the quantity available in each batch, thus avoiding correlated issues that account for the elapsing of expiry date. Therefore, issues are done on the basis of the batch and date.

The system also incorporates features such as manual / computer generated indents. The PO may be generated from the indent stage, through to enquiry, and quotation.

BLOOD BANK MANAGEMENT

When patients in the operation theatre, or in the ward have a requirement for blood, it is availed from the blood bank by referring to the required blood group, and updating the relevant parameters online.

CENTRAL STERILE SUPPLY MANAGEMENT

The central sterile supply module handles the sterilization of clothes, gloves, instruments, etc., which are present in the hospital. The module records data and provides the necessary statistics.

The system also maintains details relating to the loading and unloading time, number of items, in low speed and high speed, etc.

FINANCIAL ACCOUNTS MANAGEMENT

The accounts module is linked to the billing module, and entries from billing are passed directly to accounts. Likewise, entries from stores and payroll are also passed to the accounts module.

The system offers online updating, which enables the users to view the current status of all the ledgers. This avoids batch processing, and the ledger, and trial balance for any month, or for any day, may be viewed immediately, and served to all concerned personnel.

The existing structure for the balance sheet, and the profit and loss account, may be customized based in accordance with the user requirements.

The system also provides features such as, the provision for generating fixed, variable, and prepaid journal voucher, voucher authorization for enhanced security, cheque printing, etc.

ACCOUNTS RECEIVABLES MODULE

The accounts receivables module provides online updating of the respective ledgers, enabling users to view the current status of all ledgers, in any module. The online updating avoids batch processing, and makes information available at all times, to all concerned personnel.

The software incorporates features such as, receipts entry, interest calculation, and debtor ageing analysis, wherever necessary.

ACCOUNTS PAYABLES MODULE

The accounts payable module acts as a bridge between the stores, and the financial accounts module. A data link is provided between the two modules through the payables. It provides invoice verification, matching, and payment in a single screen. This minimizes data entry, and provides a comprehensive view of the data. The payable module may be used with the pharmacy, as well.

The software incorporates features such as, payment through the verification screen, purchase voucher generation, posting on accounts module, and adjustment entry passing to the stores module.

The system updates online the respective ledgers, enabling the users to view the current status of all ledgers in the other modules.

STORES AND INVENTORY MANAGEMENT

The stores, and inventory module covers the purchase and inventory related activities of the hospital. The system offers an exhaustive list of reports, to monitor the inventory effectively.

Links are provided between the pharmacy and operation theatre to enable the system to handle the sub-store concept.

The system updates online the respective ledgers, allowing users to view the current status of all ledgers in any module. This avoids batch processing, and serves timely information to all concerned personnel.

The valuation method followed by the stores, and inventory module is FIFO. This method enables the users to match individual issues, with the individual receipts. The valuation is not on the current item value during issues, but on the received values.

The system incorporates features such as, the provision for choosing between a manual and computer generated indent. Also, the PO may be generated directly from the indent stage, or through enquiry.

PERSONNEL AND PAYROLL MANAGEMENT

The software provides for online updating of employee details in all modules. This enables authorized users to view the current status of all employees, devoid of lags.

The system also integrates the time attendance module to the payroll module. The primary input for payroll processing is data pertaining to employee duty hours, and attendance. This data, in the form of file with specified format is captured from the time attendance module, and provides the data to the payroll module. This avoids duplicate entries, with exceptions, such as, advance entry.

The system incorporates income tax details; online accounts module linkage, etc.

TIME ATTENDANCE MODULE

The system enables the online transfer of transactions to the muster process.

The muster processing in the software covers all sub processes, such as late processing, punch posting, leave processing, etc.

The system allows users to execute the muster process 'n' times. The online transfer of the control file is enabled through control file creation, which contains details of every employees' present hours, leave hours, time loss hours, OT hours, present days, leave days, etc. This file is sent as a source file to the payroll module.

GATE PASS MANAGEMENT

The gate pass maintenance module covers the gate pass in, and out functions. The system maintains a log on the visitors, material, and the in / out transactions.

The module assists in identifying the traffic in the hospital, and in tracking materials that are issued, pending receipt, etc.

STATISTICAL ANALYSIS AND STATUTORY REPORTS

The statistical analysis module offers reports that are necessary for adherence to statutory requirements. These cover reports, such as, the number of births – male / female, number of deaths – male / female, for a given month, range of months, given days, range of days, etc.

Similarly, the number of cases affected by a specific epidemic for a specified period of time, in days, or in months.

The system also offers a reporting tool that analyses specific data sets.

MIS REPORTS AND GRAPHS

This module offers reports related to management information services. These are reports that are vital to ascertain the financial, and administrative status of the Hospital.

In addition to standard report formats, the system offers a user defined reporting utility that enables the users to build custom reports.