ULTIMA*ERP - Enterprise Hospital Information System for General Hospitals
ULTIMA*ERP solution

- Data spread-out
- Software components modification
- Person and Business Services Upgrade
- Integration with standard service interfaces

- Data spread-out
- Software components modification
- Person and Business Services Upgrade
- Integration with Legacy and other Systems
ULTIMA*ERP - Enterprise Hospital Information System for General Hospitals

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ULTIMA*ERP solution

Issues

- Patient-Centered Approach
- User-Friendly & Easy-to-Use Applications
- Multi-level Distributed Hospital Information System
- Security & Privacy (Authentication, Authorization, Privacy Policy)
- Integration
  - Patient Identification
  - Single Log-in
  - Use of Controlled Vocabularies for Coding
  - Data Consistency
  - Transparency
- Single Enterprise Warehouse Data Store
- Robustness, Reliability, Performance
- Scalability & Portability (Open Modular Architecture, Declared Interfaces and etc.)
ULTIMA*ERP Business Reference Model

4 ULTIMA*ERP Business Reference Model
Healthcare System Players Interoperability
6 Patient Administration

Front Office
- In-patient
  - Appointments
  - Reservations
  - Registrations
  - Intake
  - Admissions
  - Discharge
- Out-patient
  - Appointments
  - Registrations
  - Billing
  - Receipts
  - Credit Note
  - Refunds
- Cashier
  - Deposits
  - Settlements
  - Refunds
  - MPI

Back Office
- Wards/Beds
- Services
- Service cost
- Doctors
- Service Orders
- Provisional Bill
- Final Bill
- Debit Note
- Credit Note
- Staff Scheduling
- Patient Scheduling

Nursing Station
- Administrative
  - Service Orders
  - Indents
  - Duty Roster
  - Transfers
- Clinical
  - Patient Encounter in Wards
  - Information Transmission Between Doctors and Staff
  - Case Sheet Maintenance
  - Discharge Summary
Clinical Management

### Diagnostics/Laboratory
- Lab Scheduling
- Order Acceptance
- Work lists
- Imaging (PACS)
- Reports
- Lab Records
- Lab Kit Management
- Inventory Management

### Operation Theatre
- Theatre Scheduling
- Procedure details
- Theatre Maintenance
- Equipment/Gas Usage
- Theatre Usage
- Drugs/Disposables Consumption

### Master Patient Index
- Preliminary Information
- Visit Details (Out-patients)
- Visit Details (In-patients)
- Codification of Diseases (ICD, etc.)

### Medical Records
- Donor Registration List
- Donor Master List
- Cross Matching List
- Requisitions
- Issue Transaction
- Component Separation
- Blood Stock

### Telemedicine
- Teleradiology
- Telepathology
- Teledermatology
- Telecardiology
- Telepsychiatry

### Teleophthalmology
- Medical Consultation
- Fetal Monitoring
- Quality Assurance
- Continuing Medical Education

### Physical Management System
- Care Plans

### Personnel Management
- Employee Details
- Appointments
- Resignation/Retirements
- Daily/Monthly attendance
- Leave Management
8 Resource Management

**Pharmacy**
- In-patient Pharmacy
- Out-patient Pharmacy
- Central Pharmacy

**General Stores**
- Indent Receipt
- Calling for Tenders
- Purchase Orders
- Material Receipts
- Material Inspection and Acceptance
- Issue to Department
- Stock Transfer
- Inventory Control

**Ambulatory**
- Ambulance Scheduling
- Personnel Scheduling

**Canteen/Cafeteria**
- Inventory Control
- Point of Sale

**Medical Equipment Management**
- Equipment Details
- AMC Details
- Maintenance Schedule
- Log Sheet
- Stock Management (Spares/Consumables)
Financial Management

Accounting
- Accounts payable
- Accounts receivable
- General Ledger
- Doctor’s Accounting

Fixed Asset Management
- Payroll
- Federation Grants
- Budgets and deviation

Man Care Contract
- Material Management
- HR
- T & A
- FAC Management
10  Management Information System

**Clinical Decision Support**
- Decisions related to disease profile
- Decisions related to patient disease management

**Executive Information System**
- Occupation profile
- Resource utilization profile

**Market Analysis**
- Patient profile
- Seasonal variation

**Financial Decision Support**
- Payments and Traffic profile
- Accounts receivable profile
- Budget and actual variation
- Cost and expense profile

**Case-Mix Management**
11 Smart Cards Enabling Solution

ULTIMA*ERP - Enterprise Hospital Information System for General Hospitals

Central

- ULTIMA*ERP Central Server
  - Warehouse Data Storage
  - Business Applications
  - Communication & Integration Services
  - Security Services
  - Reports

Hospital

- ULTIMA*ERP Hospital Server
  - MPI
  - Business Workflow Applications
  - Communication & Integration Services
  - Security Services
  - Reports, Receipts, Indents, Orders

Network

Terminal

SmartCard

Card Holder
## Smart Cards: Considerations

### Technology
- Card Type
- Interface methods
- Storage capacities
- Card operating system functions
- Standards compliance
- Compatibility issues
- Reader interoperability
- Security features
- Chip manufactures
- Card reliability and life expectancy
- Card material
- Quantity and cost

### Cost
- Cost sharing
- Selling advertising space
- Volume purchase
- Combining card types
- Delivery time
- Chip price fluctuations
Typical Network Configuration
16 Customer Benefits

- Centralized Management Automation in Healthcare
- Unified Technology Solution
- Improved Efficiency
- Approach to Standardization
- Foundation and Potential for Evolution
- Fortified Security
- Increased Revenue
We hope you enjoyed our presentation!

Please call or email us, if you have any questions, need more information, would like to embark on a research project, or require software development services.