Microsoft Amalga HIS
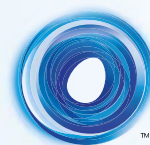## Hospital Information System

↘ Manage all healthcare organisation functions with one integrated solution

Microsoft®
Amalga™
Hospital Information
System

Our vision:
To improve health
around the world

For more than a decade, Microsoft has invested significant time and resources into understanding the needs of healthcare organisations. We are developing solutions that encompass both the provider and the consumer to help you achieve your goals, from better patient care to improving the financial health of your organisation. We believe the issues that Microsoft is best positioned to address focus on healthcare information management — getting the right information in front of the right people in the right way at the right time. That's why we're working to speed up and improve the capture, manipulation, aggregation, and presentation of healthcare information by offering a family of integrated IT systems for the healthcare business or organisation.

The Microsoft® Amalga™ Family of Enterprise Health Systems is built on Microsoft technology, offering a comprehensive range of solutions to meet the needs of your health business or organisation.

Microsoft Amalga

Microsoft Amalga, the new version of the product formerly known as Azyxxi, is the Unified Intelligence System that allows healthcare businesses or organisations to unlock the power of all their information sitting in clinical, financial, and administrative databanks. Without replacing current systems, Amalga offers healthcare organisations an innovative way to capture, consolidate, store, access, and quickly present information in meaningful ways.

Microsoft Amalga Hospital Information System

Microsoft Amalga Hospital Information System (HIS), the new version of Hospital 2000, is a state-of-the-art, integrated hospital information system designed to meet the needs of developing and emerging markets. Amalga HIS is built around an integrated Electronic Medical Record (EMR) with complete patient and bed management, laboratory, medication management, Radiology Information System/Picture Archiving and Communication System (RIS/PACS), pathology, financial accounting, stock management, and human resource systems.

Microsoft Amalga RIS/PACS

Microsoft Amalga RIS/PACS is available as a stand-alone system as well as a component of Amalga HIS. Its integrated architecture means that radiologists can use a single application to manipulate investigation images and access the patient's medical record. The workstation interface is optimised for radiologist work-practices, including support for pre-defined templates, an intuitive report editor, and voice-recognition and dictation capabilities.

Microsoft Amalga Hospital Information System (HIS)

The complete hospital information system

Microsoft Amalga HIS delivers a complete, agile hospital information system that is affordable, flexible, and intuitive. Developed collaboratively with physicians, pharmacists, nurses, ancillary staff, and IT professionals, the solution was designed from the beginning to meet the needs of health-care professionals while minimising the cost and resources required to run global healthcare organisations.

Integrated and complete

With Amalga HIS, you get a complete hospital information solution that helps you manage your entire healthcare organ-isation, automating and improving effectiveness for clinical, financial, and back-office operations. Because Amalga HIS was designed from the onset as a single, integrated system, all the components work together without costly interfaces or custom coding.

This scalable, integrated HIS system:

- Manages all healthcare organisation functions with one affordable, integrated solution.

- Helps improve operational efficiency with an intuitive interface, and consistent, reliable information delivery.

- Helps improve the quality of care and the patient's experi-ence by providing clinicians with a single, customisable view of all previous patient information to enable more informed decision making and faster throughput.

- Supports paperless, integrated, seamless workflow to help increase information integrity, reduce transcription errors and duplication of information entries, and optimise pa-tient and report turnaround times.

Flexible

With Amalga HIS, clinicians and staff can view information in whatever way is most meaningful to them. For instance, lab and test results can be viewed in any of the system's multiple supported language options. Dynamic translation is available on all generated output, including clinical notes, lab results, and pharmacy labels. Adding information is equally simple with customisable, forms-based templates for clinical notes. Multicultural patients often have unique patient care considerations that go beyond language differences. All Amalga HIS modules can adapt to many different business scenarios to help users address local business rules, cultural requirements, and individual end-user requirements.

Affordable

Designed to meet the varied needs of all healthcare organisation departments and functions while providing a low cost of ownership, Amalga HIS is built on a single architecture and code base. Amalga HIS runs on standard hardware with an architecture that is designed to be powerful, reliable and simple to manage and deploy.
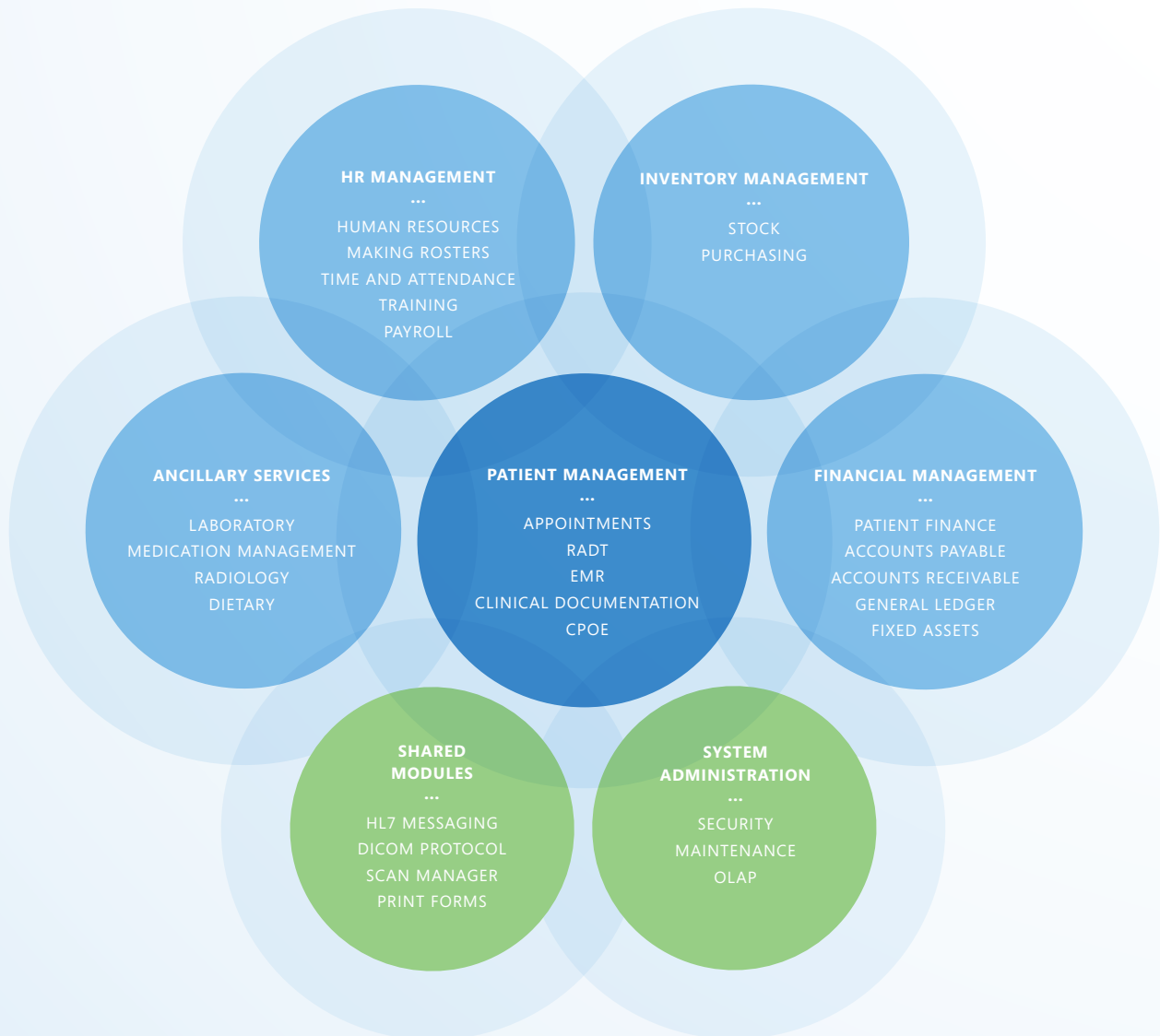
Intuitive

The easy-to-use and familiar Microsoft Windows® interface in Amalga HIS is designed to reduce the user learning curve and minimise training costs. In fact, most users can start using the system with one hour of training. Because control-keys and functions are common throughout the entire system, users familiar with one set of applications can easily be reassigned to other departments with little or no application training.

CASE STUDY:

Bumrungrad International Hospital

PROFILE:

- 554 beds
- First hospital in Asia to be accredited by U.S.-based Joint Commission on International Accreditation
- More than 1,200,000 patients per year, with 400,000 foreign patients
- 2,500 to 4,000 outpatients a day
- 290,928 radiology studies per year

Microsoft®
Amalga™
Hospital Information
System

HR MANAGEMENT
...
HUMAN RESOURCES
MAKING ROSTERS
TIME AND ATTENDANCE
TRAINING
PAYROLL

INVENTORY MANAGEMENT
...
STOCK
PURCHASING

ANCILLARY SERVICES
...
LABORATORY
MEDICATION MANAGEMENT
RADIOLOGY
DIETARY

PATIENT MANAGEMENT
...
APPOINTMENTS
RADT
EMR
CLINICAL DOCUMENTATION
CPOE

FINANCIAL MANAGEMENT
...
PATIENT FINANCE
ACCOUNTS PAYABLE
ACCOUNTS RECEIVABLE
GENERAL LEDGER
FIXED ASSETS

SHARED MODULES
...
HL7 MESSAGING
DICOM PROTOCOL
SCAN MANAGER
PRINT FORMS

SYSTEM ADMINISTRATION
...
SECURITY
MAINTENANCE
OLAP

WITH AMALGA HIS, BUMRUNGRAD HAS ACHIEVED OUTSTANDING RESULTS:

• Time to retrieve medical records reduced from 25 minutes to seconds
• Patient waiting time reduced by 39 percent
• Outpatient pharmacy dispensing time reduced by 50 percent
• Accounts receivable days reduced from 15 to 10 days
• Forms stocked reduced from 395,600 average pieces to none
• 10,000 square feet (929 square metres) of medical records storage space converted to a revenue-producing paediatric centre

Microsoft Amalga RIS/PACS

Integrated architecture for a seamless information system

Microsoft Amalga RIS/PACS is a Radiology Information System (RIS) and Picture Archiving and Communication System (PACS) that is available as a stand-alone imaging system or a seamlessly integrated component of Microsoft Amalga HIS.

Clear Winners: Doctors, Administrators, and Patients

Amalga RIS/PACS delivers powerful, truly seamless integration between the RIS and PACS, with the ability to quickly distribute high-quality data and images to any Microsoft Windows-based workstation by way of the Internet or the existing network of an organization.

The integration of Amalga RIS/PACS can deliver quick, high-quality information to any department and facilitates easy access to patient medical information as well as order, scheduling, and report information. By giving staff immediate access to the information they need, healthcare organisations can increase patient turnaround time and enhance the patient experience. This tight integration also improves the information integrity between the RIS and PACS, which can reduce transcription errors and duplication of information entry while optimising report turnaround times. The system integrates advanced 3-D and 4-D imaging functionality and includes the ability to add third-party image processing plug-ins to assist with analysis.

The radiologist workstation is designed to optimise workflow and is customised to match radiologist preferences. In addition, all previous investigations are stored online rather than having a "long-term" archive, improving the delivery of patient care and radiologist efficiencyy.

Amalga RIS/PACS offers:

- **Automatic order management** that integrates information from the Amalga HIS EMR and RIS.
- **Automatic scanning and attachment** of hard copies to investigation orders.
- **Image manipulation tools,** including 3-D cursor location.
- **Multiple language support** that provides patient demographic and screen label information in any Unicode language.
- **Integrated database** within Amalga HIS that makes patient medical information accessible directly from the PACS.
- **Template-driven options,** including report production and voice recognition.
- **Intuitive report editor** that accepts written or dictated report production.
- **Customisable preference tabs** for scheduled investigations.
- **Instant investigation assignment** to a specific radiologist at time of ordering.
- **Warning system** that provides real-time notifications to prevent radiologists from creating a report on an investigation that another radiologist is already making a report on.
- **Online historical studies** are available for quick retrieval, regardless of the age of the investigation.
- **Unlimited investigation revisions** that save any or all key images, windows-level settings, and image annotations.
- **CD creation for PACS studies, reports, and EMR.** Options include DICOM and JPEG images, reports, and all or selected portions of a patient's EMR.

Microsoft Amalga HIS: the right information at the right time

Finally, a highly scalable, intuitive healthcare solution that manages all hospital functions in one affordable, integrated system. Customisable to each user's needs, Microsoft Amalga HIS improves operational efficiency across the organisation, helping lower overall costs and improving provider collaboration and the patient experience.

Learn more about how Microsoft Amalga HIS can benefit your organisation at: www.microsoft.com/amalga22.