

Web Services Add Value to Enterprises



Web Services integrates new healthcare applications with legacy hospital systems

novaHEALTH Pte Ltd

OVERVIEW

The healthcare industry has been entrenched in their traditional mode of operation for a very long period. It has been observed that the healthcare industry has been relatively slow in adopting new technology as well as new ways to run its operations. However, there has been a growing public demand to improve its operation efficiency service level. The need to change the way the industry conducts its business is further underpinned by the liberalisation and privatisation that is happening in the healthcare industry.

By harnessing the power of information technology and institutionalising the best practices of the trade, novaHEALTH has designed and developed two main web-based products, VESALIUS-HIS™ (Hospital Information System) and VESALIUS-CIS™ (Clinical Information System). VESALIUS-HIS™ supports the complete workflow of a hospital - from the moment the patient walks into the healthcare facility and registers, up to the billing & discharge stages. VESALIUS-CIS™ is a suite of solutions tailored to help healthcare providers in making clinical decisions.

The integrated healthcare IT system in Singapore's first paperless clinic, National Skin Center, is implemented by novaHEALTH based on their VESALIUS solutions. This system reduces patients' waiting time which brings about greater productivity and services offered by the center.

PROJECT DESCRIPTION

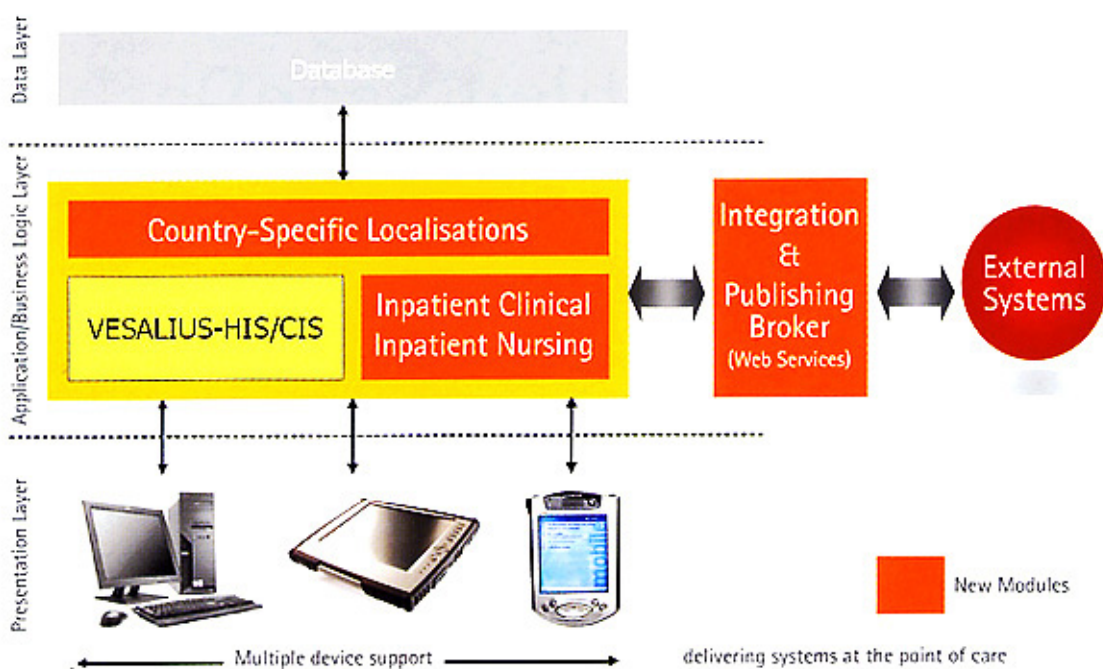
To ensure their solution is able to meet the increasing demand of the healthcare providers, novaHEALTH is currently developing an integration and publishing broker that is dedicated to enable a quicker flow of data exchange between departments within a healthcare institution. This is based on industry data communication standards such as HL7 and DICOM. The broker allows for quicker up-to-date publishing of clinical information via Web Services to healthcare workers via the Internet and mobile devices.

KEY FEATURES

Besides developing an integration and publishing broker for data flow, a central repository is also being developed to serve as a data harmonisation tool across the disparate systems within a hospital via Web Services. The new Web Services-enabled applications are:

- Integration and publishing broker for data exchange between disparate systems. The means to request and receive data are provided via Web Services.
- Inpatient medication module that enables doctors, pharmacists and nurses, who are on the move to prescribe, dispense and administer drugs via mobile devices.
- Inpatient nursing module that allows nurses to carry orders and care according to schedule and care plan for the individual patient. All nursing notes are captured on their mobile devices.

System Architecture



VALUE PROPOSITION

novaHEALTH has developed a comprehensive product that can easily integrate to healthcare institutions' backend system using Web Services. With Web Services, it allows new services to be easily integrated into existing legacy systems without the need to revamp or replace them. This provides healthcare institutions a cost effective way of extending and scaling existing systems to provide more comprehensive and robust solutions to meet their needs.

ABOUT NOVAHEALTH

novaHEALTH is a provider of Total Hospital Information System to health institutions in the Asia Pacific region. With a comprehensive lineup of software solutions to assist healthcare professionals in the management of their facilities and treatment of patients,

novaHEALTH solutions are a complimentary fit to the operation of the busiest healthcare departments. Recognised for their established software development methodology that is ISO9001:2000-certified, novaHEALTH has a framework that ensures they deliver reliable, robust, secure, scalable and extensible systems within established timeframes.

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