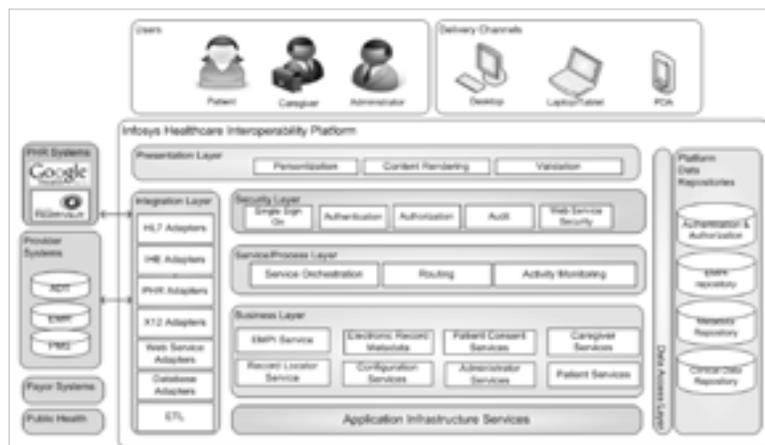# HEALTHCARE INTEROPERABILITY PLATFORM

There is today a greater focus in the healthcare industry to improve the quality of care and operational efficiency while reducing costs and medical errors. The biggest impediment to achieving a seamless healthcare continuum is the lack of integration and interoperability among providers, payers, pharmacies and other stakeholders. Today, a patient's health information is captured in disparate formats including paper, free text, structured electronic records, multiple hospital information systems, payer applications, etc. This lack of consistency makes integration of data extremely difficult, in turn making it hard to provide a 360^0 view of patients' health history. It also increases the difficulty of maintaining the privacy and security of patients' confidential clinical information.

Interoperability Platform

Infosys offers a Healthcare Integration and Collaboration Platform that enables integration of patients' health and financial data across the various systems both within the organization as well as across organizations. Following are some of the salient features of the platform:

- The Service-Oriented Architecture based interoperability platform having collection of deployable modules and services to facilitate the transfer of healthcare information across multiple source systems generating a consolidated view of a patient's clinical and/or financial information

- The platform enables seamless integration across different provider systems like Electronic Medical Record system, Radiology Information System, Laboratory Information System, Pharmacy Information System, payer systems and also with external PHR systems like GoogleHealth or Healthvault

- The secure connectivity and consent management component of the platform ensure security and privacy of the Protected Health Information (PHI) of the patient accessed using the platform

- Integration layer of the platform comprises and Integration Engine that supports data extraction, translation and transfer in industry standard message formats like HL7, CCR, CCD, DICOM etc. and also proprietary formats where required

- Enterprise Master Patient Index (EMPI) component to uniquely identify a patient having different identifiers and demographic information across the various systems using a probabilistic matching algorithm

- Record Locator service to locate the source systems to retrieve patients' data on demand

- The platform supports various modes of data sharing:

  - Centralized approach to store data from all the source systems into a central repository

  - Federated approach to retrieve data from individual source system on demand

  - Hybrid or Confederated approach where some data categories are

    stored in central repository and other data categories are retrieved on demand

- The platform provides ready-to-deploy functional components such as:

  - Longitudinal Health Records

  - Consent management

  - e-Prescription

  - Lab order entry and Results notification

  - Wellness and disease management

  - Wellness tools

  - Appointment scheduling

  - eConsultation

- The platform allows the applications to be developed for multiple delivery channels like desktop, PDA devices etc. and renders the screen based on the screen size and resolution of the PDA devices

Value Proposition

- Highly customizable solution that allows integration with existing systems thereby leveraging existing technology investments

- The integrated data view can be presented in your existing systems like EMR so that physicians and staff do not have to refer multiple systems for patient care

- The Record Locator and EMPI services can be integrated with leading Integration Engine and EMPI products

  in the healthcare space

- HIPAA compliant data privacy and security management services are in-built in the platform

- The platform provides ready-to-deploy, customizable functional components around Longitudinal Health Record, Consent Management, CPOE, Appointment Scheduling etc that offers time-to-market advantage for organizations that need custom solution development

- Enables an enterprise-wide patient-centric information repository for data warehousing and clinical analytics

- Enables Disease Management by providing pre-built customizable components around care plans, target setting, patient diary, follow-up reports and wellness tools

- Mobile delivery channel is enabled for the pre-built components of the platform with rendering capability for 120 different devices

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