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Standards driven healthcare information integration infrastructure

Healthcare information exchange, integration, and analytic capabilities are critical to safe, cost effective, high quality healthcare. The technical infrastructure that serves as an enableler for these capabilities is a complex array of data exchange standards, clinical teminologies, and decision support technologies. This presentation provides an overview of this technical infrastructure and current and emerging technologies.. In the area of data exchange standards the presentation will explore the major standards development orgnizations – HL7, X12, IEEE, ASTM, NCPDP, and DICOM; clinical terminologies – ICD, SNOMED, LOINC, RxNORM, and CPT; and technologies – integration engines, terminology servers, standards conformance validators, integrated data repositories, and business intelligence tools. The mission of Hi3 Solutions is to support continuous improvements in healthcare outcomes by providing software solutions and professional services that enable our clients to discover, share, and measure compliance with evidence-based best practices in medicine. The products and services provided by Hi3 Solutions facilitate the use of healthcare information management technology standards designed to enable semantic clinical interoperability.

Biography

Abdul Malik Shakir is a recognized industry expert in healthcare information management. His information technology experience spans more than four decades, including 35+ years in healthcare. His professional experience includes development of enterprise information architectures, data warehouses / business intelligence applications, systems integration solutions, and expertise in electronic data interchange standards. Shakir's consulting experience includes providing advisory services and expert assistance to large-scale healthcare provider organizations and integrated delivery networks. He has contributed to the advancement of healthcare related standards through volunteer participation in Health Level Seven International (HL7), the X12N Healthcare Task Group, the OMG Healthcare Domain Task Force, the Workgroup for Electronic Data Interchange (WEDI), and the IEEE Joint Workgroup for a Common Data Model.

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