eFRM™ - FUSION OF CLINICAL AND ADMINISTRATIVE DATA

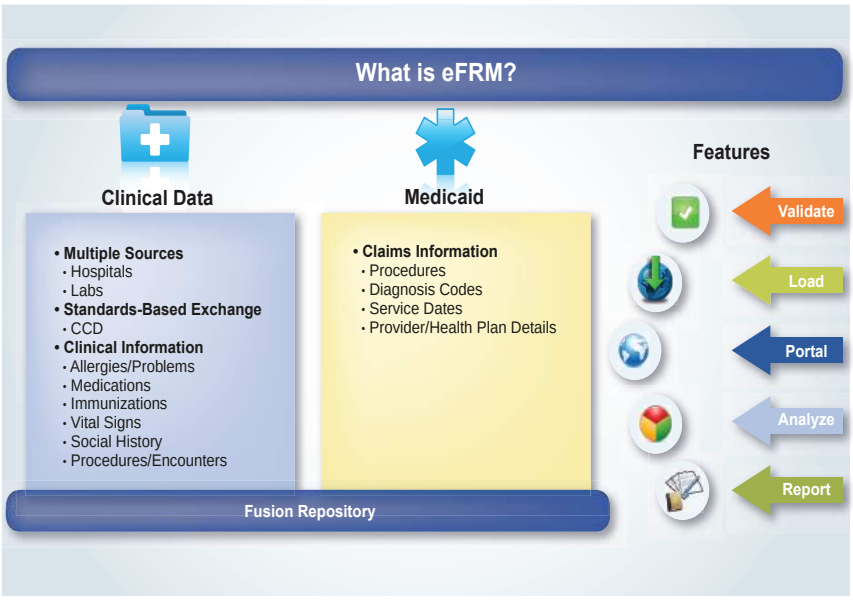
eFRM™

- Fuses clinical and administrative data sets
- Integration services with EHR systems
- Terminology standardization for disparate EHR systems
- CCD generation

eFRM Overview

CNSI's Electronic Fusion Repository Management (eFRM™) and connected cloud services provides a patient's electronic comprehensive health record assembled from multiple sources.

To achieve the highest impact on patient safety, patient information from across the health care continuum must be integrated and presented to clinicians at the point of care. The Fusion Data Set supports creation of a Patient Health Record and leverages CNSI's eFRM and cloud-based integration services along with a master person index, record locator service, and web viewer integrated into the platform. eFRM provides data where and when it is needed.



Highlights

Assimilates data elements from State Medicaid systems

Comprehensively stores and analyzes fused clinical and administrative data

Provides a summarized view of the clinical and administrative data of a patient

Enables terminology standardization from diverse EHR systems

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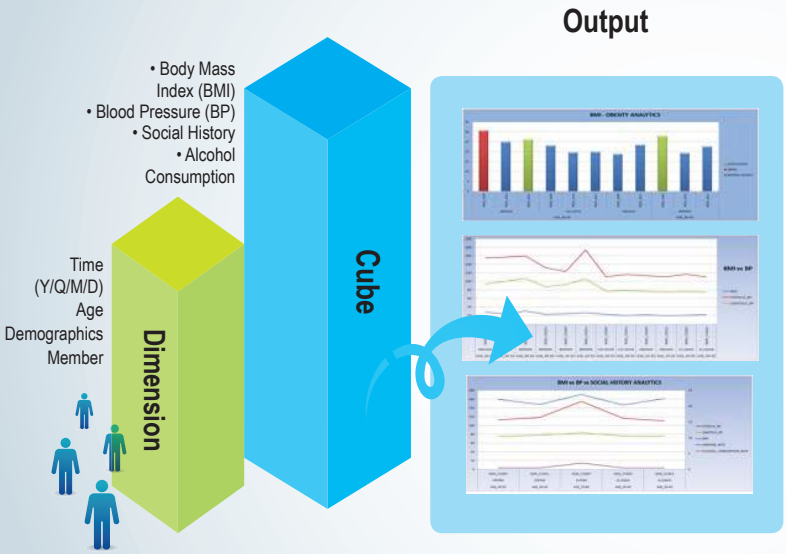
Components of the eFRM Cloud Services Solution

- iDS: A DataStore is a dynamic data repository engineered to accommodate diverse types of clinical information. The information contained in the Data Store can be interfaced with and queried, viewed, and printed through the iViewer (Health Record application suite) or published to a provider's EHR/EMR/Other provider database.
- iFxEngine: The Fusion Engine drives the efficient exchange, transformation, and normalization of information utilizing health care industry standards HL7 and CCD, and other data-exchange formats like XML. The Fusion Engine includes a set of adapters which are configured to queue, manage, validate, translate, pseudonymize, and transmit information as needed.
- iViewer: Provides the user interface to securely view the information on an internet browser, tablet PC, or a mobile device.
- iAnalytics: The analytics is engineered to accommodate drivers for reporting requests. The information is contained in data cubes that can be used to analyze and report the data.
- iTS: Terminology Services are used to standardize and map data from proprietary sources to industry-standard vocabularies and formats, such as mapping proprietary lab terms to LOINC. This service enables viewing a patient's longitudinal health record received from multiple sources in the community in a standardized terminology.
- Identity Management Services: Identity Management Services are built on "Mural" a Master Patient Index tool that automate the matching of patients across disparate systems, while also managing patient-consent status and patient relationships with providers. In concert with the iDS, Identity Management Services create a patient record that includes clinical data from many sources. Identity Management Services contain pointers to all organizations with a patient's clinical data, which allows that patient data to be retrieved efficiently, while ensuring that protected health information is safeguarded according to the custodial organization's policies. Tools to merge, unmerge and link patients within and across facilities are provided with Identity Management Services.



Why use eFRM?

Clinical model

- Supports: alerts / allergies, medications, immunizations, problems, social history, vital signs, procedures, and encounters
- Data exchange formats: CCD, SOAP/XML
- Model extensible to support additional CCD sections or other data exchange formats (e.g., flat files)
- Model features an additional XML-based storage of CCD components to reconstitute a CCD for sharing with health care stakeholders

Administrative model

- Assimilates data elements from a State Medicaid systems (MMIS)
- Service Dates, Admission/Discharge information, Procedures/Diagnosis codes, Health Plan information and Third-party insurance

Analytics model

- Store/analyze "fused" Clinical/Administrative data across multiple dimensions

Terminology/Auditing/Security

- Support for storage of HL7 codes/coding standards to facilitate the shredding/reconstitution of CCD
- Support for auditing/tracking data changes and provision for data level security

Data Views

- Provides a summarized view of the clinical and administrative data of a patient
- User –friendly navigation
- Extensible to mobile devices

Data Analytics

- Uses a multi-dimensional model to report measures within multiple cubes
- Supports both aggregated level and detailed level reporting

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