



Velos Interface Engine

*The variables which effect interface complexity are numerous ...
... the advantages of interfacing tremendous*

Velos eResearch Product Line

- Velos eResearch
- Account Management
- Study Setup
- Data Management
- Patient Management
- Reports & Ad-Hoc Queries

- Velos eClinical
- Velos eFinancials
- Velos ePortal
- Velos eIRB
- Velos eSample
- Velos eCardio
- Velos eOncology
- Velos eTools

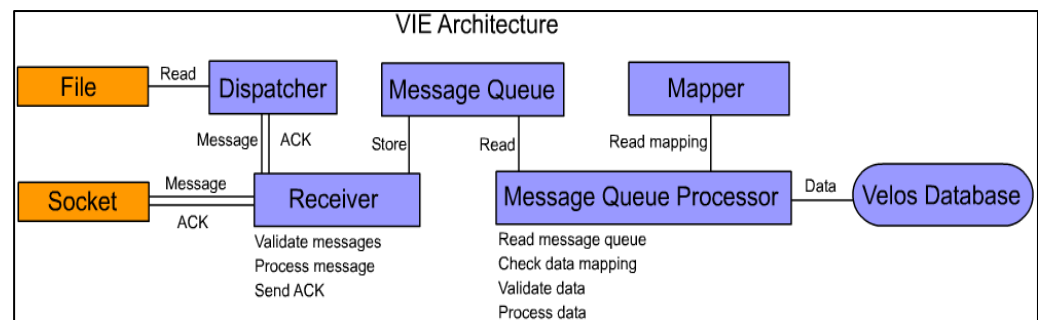
Technology-based Services

- Velos Grid Services
- Velos Interface Engine

Contact Information

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The Velos eResearch Interface Engine (VIE) has been developed for customers using Velos eResearch applications. The key purpose of VIE is to allow customers to import a variety of data into Velos. VIE was developed in Java using state-of-the-art Object-Oriented Design techniques. The Velos eResearch Interface Engine is a generic engine, which can be configured to import different formats, types and classes of data to and from Velos systems.



In addition, standard, HL7-compliant interfaces have been developed, within the VIE framework, to support the major classes of third party systems with which Velos products interact. Such VIE Interface classes include ADT systems, billing/charge capture, and lab systems. Within each class, specific adaptations have been developed to support particular third party vendors. These interface classes and class adaptations comprise the VIE Interface Library.

VIE supports the following functional objectives:

- Imports data in a generic manner
- Provides a single node for all imports
- Supports remote import through sockets
- Maintains error logs for administrators
- Allows correction of errors



Velos Interface Engine

Interfacing Formats and Methods

VIE allows Velos clients to import their data to the Velos database either on a periodic or one-time basis. The data to be imported can be related to any category, e.g. patient demographic, patient labs, provider data, etc. VIE supports several data formats e.g.:

- Fixed length
- Comma/tab delimited
- Binary data from serial port
- Other databases
- XML data

VIE also supports multiple approaches to file integration such as Flat Files approach, Intermediate Database approach, and Database to Database direct update. Using the Flat File approach, the client system exports data in a predetermined flat-file format which is polled by VIE for files that need to be processed. The engine then reads, parses and validates the data. Data that does not match the predefined structure or data that does not pass validation is written to log files. The Intermediate Database approach makes use of an intermediate database to import data into the Velos database. This approach is helpful in situations where raw data needs to be transformed/validated before passing it through the interface engine. In the Database to Database approach, information from third party relational database systems is updated "in bulk" to the Velos database. This approach is helpful in situations where migration of bulk data is involved.

Interface Libraries

ADT: The ADT component supports several HL7 event codes, and HL7 versions 2.x. This Interface imports information related to patient demographics, patient visits, primary diagnosis, and patient insurance. Example of vendors and third party Interface Engines supported are Cerner, Epic, Cloverleaf, HBOC Star, SMS, and MediTech.

Lab Results Suite: The Lab results suite also supports HL7 versions 2.x and is designed to process various components like numeric data, microbiology, transcriptions and others. Examples of specific vendors supported are Spectra Labs, Cerner Labs, and Quest.

Charge Capture and Billing: This Interface component interacts with charge capture, billing and other institutional financial systems.

Medical Devices: VIE supports a variety of machine and medical device interfaces. The two major device library classes are hemodynamic and dialysis machine interfaces such as Fresenius, Gambro, and B Braun.

Registries and Other Applications: Velos supports the export of data to a variety of third party registry systems, and other applications. Some interfaces, such as those that support the ACC, STS, and UNOS registries, include additional subsystems that support specific customer needs as relates to interacting with third party systems, databases, and organizations.

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