

## Products Summary

### IMMUNIZATION INFORMATION

#### SYSTEM

- Consolidated patient record, including history, contraindications, adverse reactions and recommendations.
- Inventory management up to dose-level accountability and tracking
- Extensive reporting capabilities:
  - Jurisdiction to patient level
  - Reminder recall and outreach
  - Coverage statistics and compliance
  - Extract to other user tools
- CDSi compliant evaluation/forecast algorithm
- AFIX/IQIP reporting
- Vaccine ordering module with VTrckS integration
- Batch and real-time HL7 messaging and real time interjurisdictional exchange leveraging the IZ Gateway
- Integration with external systems (e.g., vital records, billing, master patient index)
- Optional school nurse module with enrollment tracking, FERPA consent, reporting
- Optional provider management module with temperature monitoring and VFC enrollment
- Mass data entry screens for quick documentation of large groups
- Comprehensive analytics
- Optional public/consumer access portal

### COMPLEMENTARY APPLICATIONS

- Perinatal HepB
- Sexually Transmitted Diseases
- Mobile, disconnected immunization data capture
- Analytics driven by Microsoft Power BI

### CLOUD HOSTING

- Secure, reliable infrastructure as a service (IaaS) deployment in Microsoft Azure Government Cloud
- Full-spectrum IT support for hosted applications

## Company Background

Envision was founded in 1996 and provides health-information solutions, custom software development and supporting services to government agencies across the country and around the globe. Our customers include state, local and territorial public health organizations and their affiliated network of providers. We pride ourselves on a track record of satisfied customers, quality work, and always meeting our commitments.

Envision's core competency is the development and integration of cost-effective, high-quality, web-based software solutions for public health. Our goal is to provide information solutions that are an integral part of promoting public health and safety.

In addition to software products and custom software solutions, Envision also provides a variety of consulting services. These include requirements definition, iterative application development, database consulting, data migration and conversion, software testing, server and database administration, project management, technical management and oversight, and training.

The architecture and framework used within our public health software product suite has been evolving and maturing for over 20 years. We have focused primarily on immunization information systems and related public health modules for over 20 years. During this time, we've created a diverse portfolio of satisfied customers and successful projects.

Our team is actively engaged in the public health industry. We contribute and participate in numerous AIRA (American Immunization Registry Association), MIROW (Modeling of Immunization Registry Operations Workgroup), AIM (Association of Immunization Managers), and CDC-

sponsored working groups to address topics such as:

- Clinical Decision Support for Immunizations (CDSi)
- Shared Address Cleansing and Validation Tools
- HL7 Interoperability Standards
- IIS Data Quality Assessment
- IIS Inventory Management Best Practices
- CDC IIS Annual Report Updates
- MIROW Steering Committee

## Product Details

WebIZ™ is Envision's core product offering, comprising a comprehensive immunization information system (IIS) used at the clinic, provider and jurisdictional level. Access to the application can either be direct via a browser-based interface, or indirect via HL7 messages. WebIZ is built around a detailed patient record, and significant effort is taken to help minimize duplicates and ensure high quality data collection and management.

Vaccinations for each patient are tracked as either historical or as administered, and pertinent contraindications, adverse reactions and recommendations are all surfaced through the web interface.

Vaccine administrations and future recommendations are validated and forecast using a sophisticated engine built on the CDC's CDSi logic, supporting data, and test cases.

Vaccine inventory can be managed at three levels of detail, including dose-level accountability. A vaccine ordering module is provided to enable integration with the VTrckS system.

HL7 query and update bi-directional messaging is supported in either batch or real-time mode, and supports both 2.3.1 and 2.5.1 release 1.5

protocols. Numerous interfaces to external systems such as billing and vital records have been developed, and while these are generally custom efforts for each installation, the architecture supports quick development.

An extensive set of reporting capabilities is provided and is easily extensible. Options range from electronic immunization records to regulatory compliance reporting, and data can be extracted to external tools (e.g., Excel) for additional analysis.

In addition to WebIZ, Envision offers several other complementary product modules, including: a Perinatal HepB reporting and tracking solution; an STD investigation and intervention system; a public portal for consumer access to immunization records; and a mobile application based on the iPad which allows for mobile, disconnected collection of immunization data at the point of care.

## Technical

Envision products all run exclusively on the Microsoft platform and are fully web-based applications. The application layer has been developed in C# using Microsoft's .NET framework. The Microsoft SQL Server relational database is used as the data repository.

The system is highly modularized, making use of stored procedures and Entity Framework in the database to separate the business logic from the presentation layer as much as practical. The user interface is rendered to the client browser as standard HTML/XHTML and Java Script (i.e., no ActiveX controls, applets, etc.).

All users access the system through an internet browser using the HTTPS protocol with Transport Layer Security (TLS) encryption. No custom software needs to be installed in order for a user to access the system from their

computer or workstation. The only requirements are Internet access and a modern Web browser (Chrome, Edge, Firefox, IE 11).

WebIZ can be installed in a wide variety of environments. A basic installation could consist of a straightforward 2-tier model where a single web server communicates directly to a single database server. WebIZ can also support a much more elaborate installation across load-balanced web servers and clustered database servers to provide additional processing capabilities as well as hardware redundancy.

The recommended web/application server configuration for WebIZ consists of:

- Windows Server 2016 with IIS version 8.0 or higher

The recommended database server configuration for WebIZ consists of:

- Windows Server 2016 or higher
- Microsoft SQL Server 2016 or higher

In 2015, Envision began hosting customer applications in Microsoft's Azure Government Cloud. For organizations with limited IT resources, this can be an attractive option, and is the preferred option for most jurisdictions today.

## Licensing Model

Payment of Envision license fees entitles our customers to a fully paid-up, royalty-free, perpetual right to use the Envision software. Our customers receive source code for all licensed software at the time of installation and for so long as maintenance and support fees are paid-up and current.

Envision retains right of ownership for all software code custom-developed for our customers and they are granted a fully paid-up, royalty-free,

perpetual right to use all such software. Features added by any customer become a part of the Envision baseline and are distributed to all customers when they upgrade their local software.

## Customers

Envision is currently working with nineteen of the sixty-plus CDC grantees in the US and Pacific Islands. Each of these customers has a unique set of products and configuration options based on their local requirements, and we have been happy to work with them to achieve their organizational objectives. We would be glad to arrange reference calls with any of our customers.



Gold Cloud Platform  
Gold Data Platform  
Silver Data Analytics  
Silver Application Development

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