

Envisage Healthcare Solutions

CitadelTM

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Envisage Citadel™ is a database design, development and management service for new and existing healthcare industry patient registry, patient information and administrative database needs. Healthcare institutions, government and HMO's all maintain valuable, sensitive data that is critical in the delivery of healthcare services and in conducting medical research.



Envisage Citadel™ services are focused on the special privacy, security and high availability requirements of the healthcare industry. In addition, Citadel can provide data analysis capabilities that can unlock **trapped knowledge** within the managed data.

Using Envisage **PrivateLink™** new and existing data can be structured within **Citadel™** to provide tiered user access to data that contains patient PII (Personally Identifiable Information). This feature is critical in the management and use of highly sensitive healthcare data. Tiered user access on secured systems allows clinicians, researchers, healthcare administrators and other professionals to maximize their use of critical information while the PII is only available on a need to know basis. **Citadel™** provides data to users with a more secure and reliable environment and at the same time provides users with new accessibility to their data and the knowledge contained in it.

In addition to ongoing management of healthcare data, Envisage can provide professional engineering services to assist in the **setup, procedures, policies and guidelines** for the implementation of new databases and the migration of existing data to current technology.

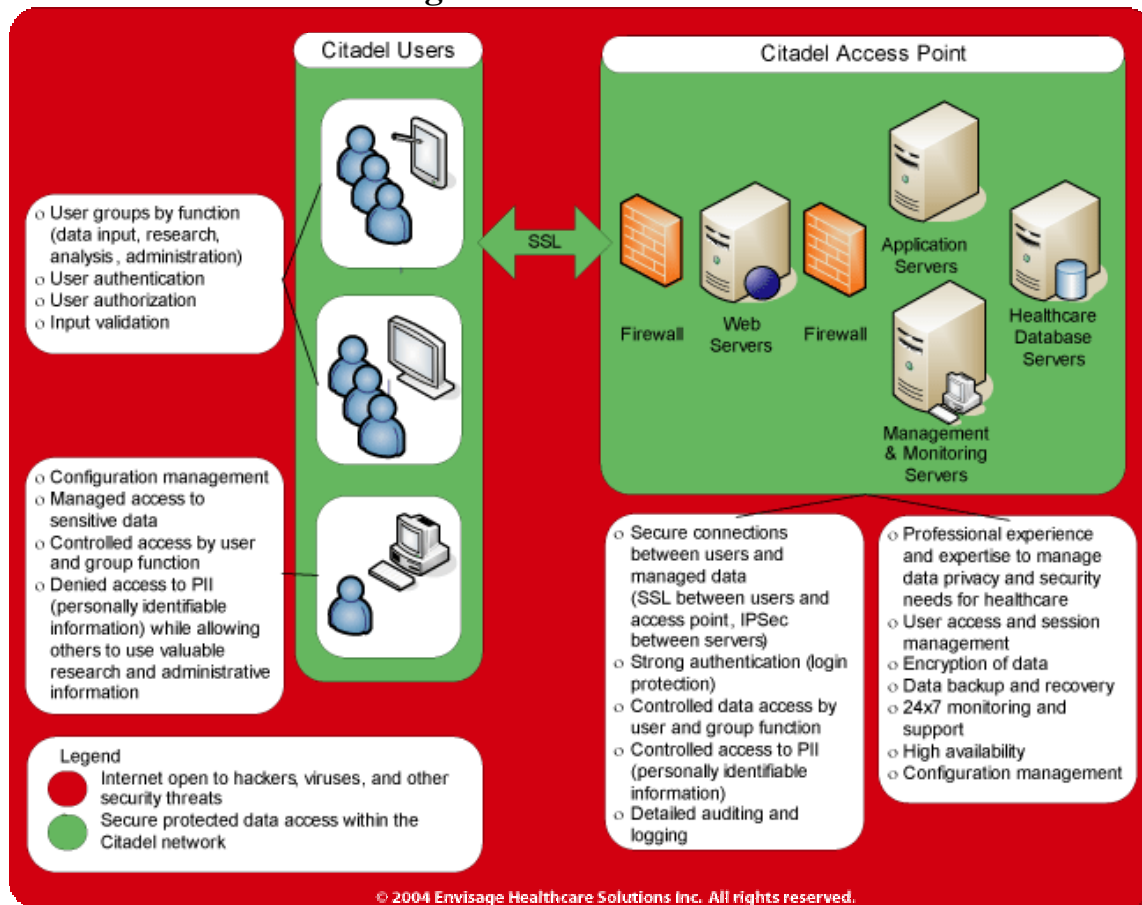
The Envisage Healthcare Solutions team is comprised of professionals each with decades of experience in healthcare and business administration, professional engineering, computer system security and privacy that includes high volume transaction systems with high availability requirements.

Key Features of **Citadel™**:

- ✓ Leading-edge Database and Security Technologies and Best Practices
 - Citadel is based on leading-edge database and security technologies and best practices. Intelligent use of software technology allows Citadel to integrate with existing information systems and will allow it to integrate with future information systems.
- ✓ User Security and Role Management (tiered access to data)
 - Through the use of *security in layers* **Citadel™** provides users with access to data based on their roles via strong user authentication, strong data authorization mechanisms, restriction access to data and data encryption.
- ✓ Database Design
 - Envisage can provide expertise to help design databases to meet specific security and privacy requirements for new or existing databases.
- ✓ Data Entry and Migration
 - Envisage can facilitate efficient data entry into databases from a variety of formats that include paper, computer files, CSV, spreadsheets or other databases.

- ✓ Custom Data Analysis and Reporting
 - Using patented technology, Envisage can deliver custom data analysis of information collected and stored in databases
- ✓ 24 x 7 Monitoring
 - Envisage provides support to the **Citadel™** service 24 hours a day seven days a week.
- ✓ High Availability Requirements
 - For applications where high availability is critical, **Citadel™** can provide customers with up to 99.999% (five 9's) availability solutions.
- ✓ Data Loss Protection
 - **Citadel™** can provide users with multiple levels of backup and recovery capabilities to avoid data loss. These can range from daily backups into secure offsite repositories to real-time data backups.

Citadel™ Architecture Diagram



For further information of Envisage Healthcare Solutions **Citadel™** managed database service, please contact us at info@envisagehealthcare.com or at 519-591-9974.