

A Complete Clinical Data repository based on HL7 FHIR



Background

Smile is a database for shared health records built on an abstract data model that mirrors FHIR information model

Use cases include:

- Storage and retrieval of longitudinal records for jurisdictional health organizations
- Storage and retrieval of large numbers of records generated by medical devices
- Terminology server
- Accelerator and cache for clinical data
- Archival storage of clinical records
- Rapid development for health applications that need to store data

Prior work with large SHR and longitudinal record implementations exposed us to the challenges of implementing solutions with existing tools.



Complete FHIR Support

Powered by HAPI FHIR

We support **all published versions** of FHIR in parallel

This includes stable **long term support** for published versions and immediate bleeding edge support for upcoming versions

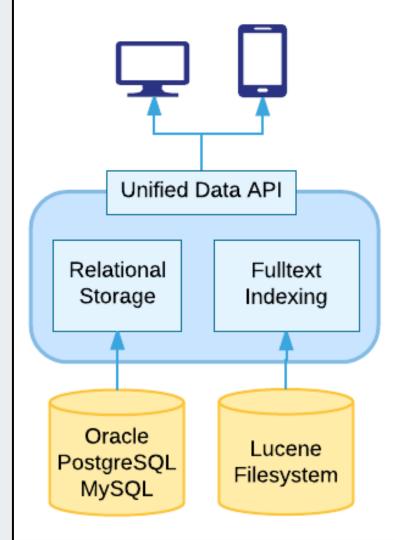




Hybrid Database Design

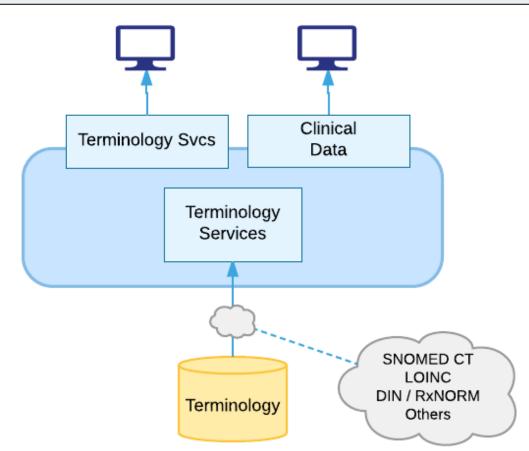
Structured data is preserved

All contents are **Full Text** indexed too



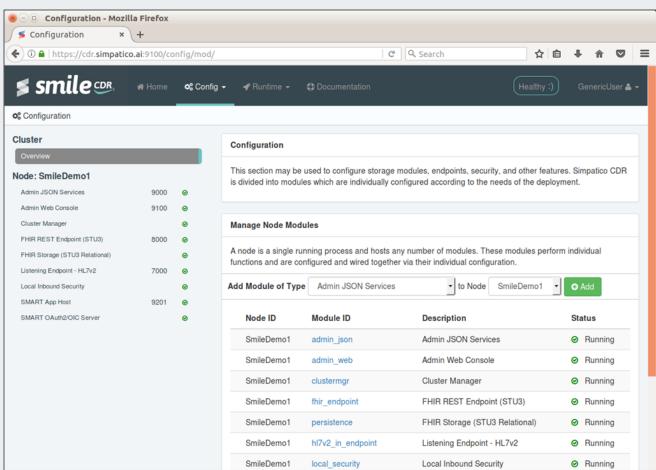
Integrated Terminology Services

Terminology support is built in



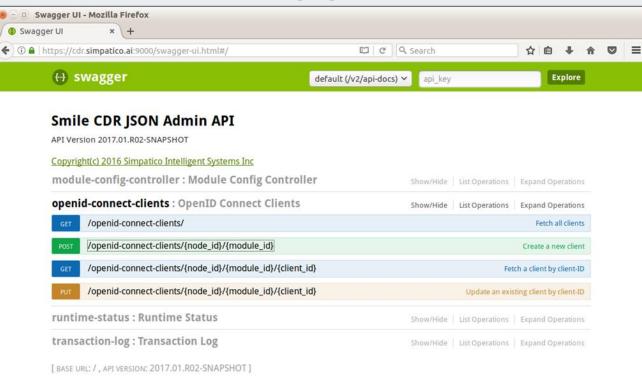
Easy Management: Web Console

A complete administrative console may be used to manage and monitor the system



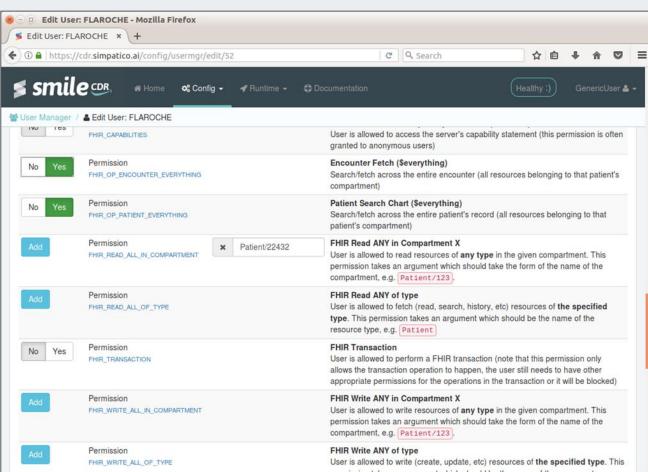
Management: JSON/Swagger API

Control the system with scripts



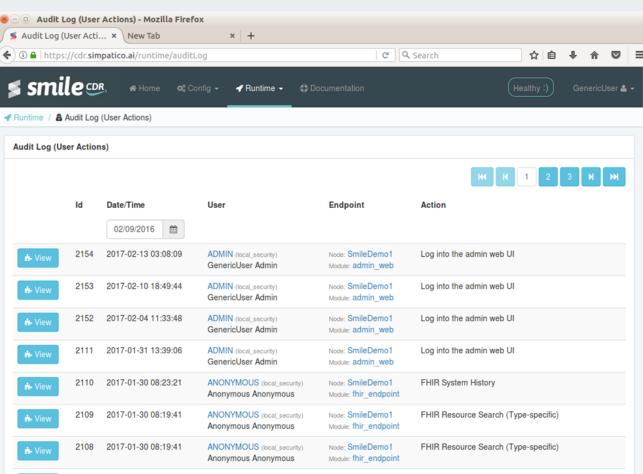
Security: Authorization

Set up roles and permissions for your users



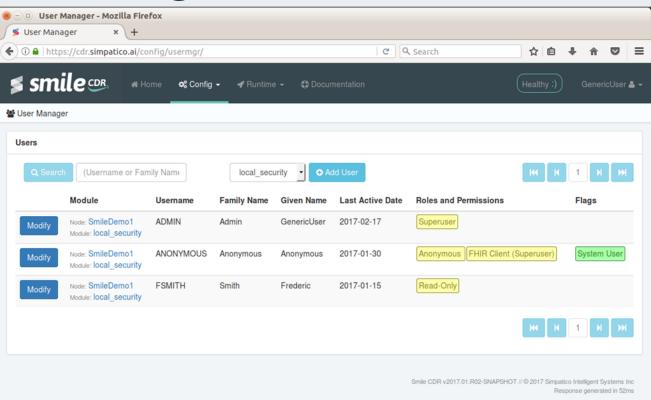
Security: Audit

Understand who has seen and changed what



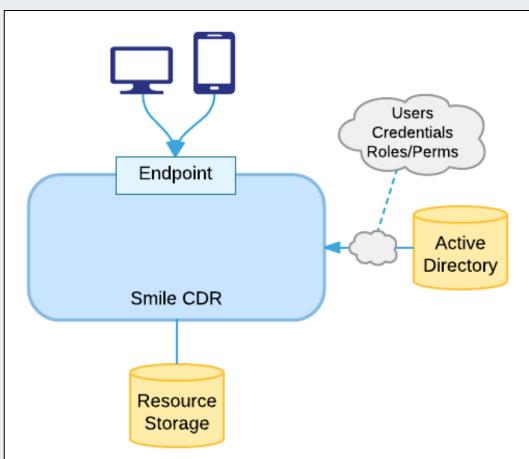
Security: User Manager

Create users and assign permissions



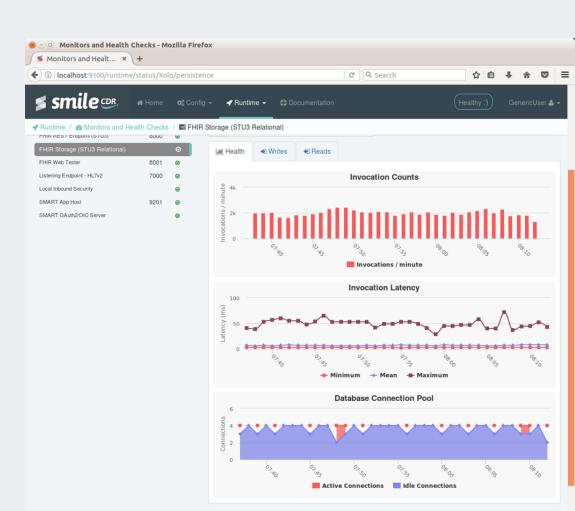
Security: Federated Models

Integrate with existing authentication infrastructure



Monitoring

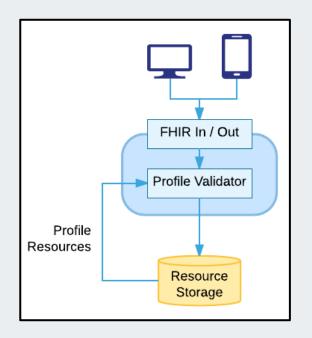
Understand how the system is performing



Profiling and Validation

Smile CDR can be used as a profile registry to store and manage profile resources

A complete validation engine can be used to enforce compliance

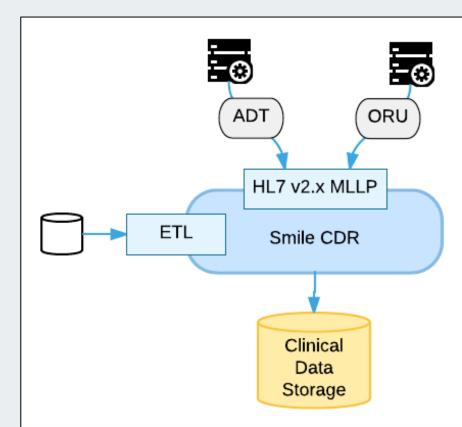




Flexible Data Integration Options

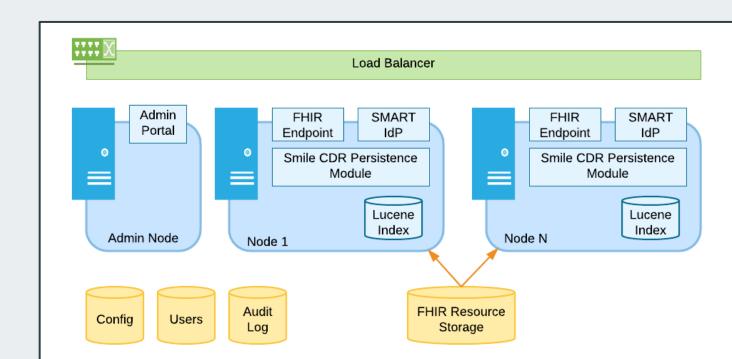
In addition to FHIR data APIs, an integrated set of **HL7 v2.x** interfaces may be used to keep data up to date

ETL tools can also be used for batch imports



Flexible Deployment Models

Smile CDR is designed to scale horizontally as you grow



Deployment models

Smile CDR supports several configurations:

- Cloud deployment, fully managed
- Local deployment, fully managed
- Local deployment, locally managed

Configurable options:

- Multiple database options; Oracle, MariaDB, PostgreSQL, MySQL, Derby
- Clustered configuration for high availability
- Geo diversity across disparate data centers













Visit smilecdr.com or email info@simpatico.ai to realize the promise of interconnected healthcare.