Redox EHR Integration

Redox

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Why Redox?

- Real-time, bidirectional EHR data exchange.

- Managed service with 24/7 monitoring and support.

- Integrated with 1,200+ healthcare organizations and provider practices. We have connected to 85+ different EHRs and HIEs.

- 350+ digital health companies across all major healthcare verticals use Redox for their EHR integration needs, including telehealth, remote patient monitoring, revenue cycle management, appointment scheduling, and care coordination.

- Standards supported: HL7, FHIR, X12, CDA (xml), SFTP

- **For Provider Organizations**
  - HL7 → FHIR support
  - Digital Transformation enablement
  - Consolidate expensive on-premise integration footprint.
- **For Vendors**
  - Accelerated implementation - 35 day average implementation at a health system.
  - Easy to use JSON-based data models
  - Connect once, scale out indefinitely.

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Product Overview

With Redox, a single connection to our platform enables interoperability between EHRs, other legacy systems, and cloud-based applications in a matter of days, not months. We accomplish this through a centralized architecture that accommodate a wide range of data standards and communication preferences. When two organizations agree to exchange data, we facilitate that exchange by handling connectivity, data translation, and data delivery ensuring data is exchanged the same way every time.

Product Features

Built for Developers
Redox provides developers a convenient dashboard to track transactions, error logging, robust documentation, and a testing harness.

Standardization/Normalization/Translation Layer
All data exchanged across the Redox Network goes through a transformation process to ensure it is compatible with the receiving system. Redox is completely vendor (EHR/PMS/LIS) and standards agnostic, allowing you to read, write, and query healthcare data with any partner. HL7, FHIR, X12, CDA all normalized to a consistent JSON schema.

Modern API
The Redox API includes 23 (and growing) data models that power a wide range of data exchange workflows.

Data on Demand
For advanced workflow normalization across disparate systems, the Redox Platform adds an additional layer of abstraction on top of legacy EHRs to power previously impossible query driven workflows and use cases.

Record Locator Services
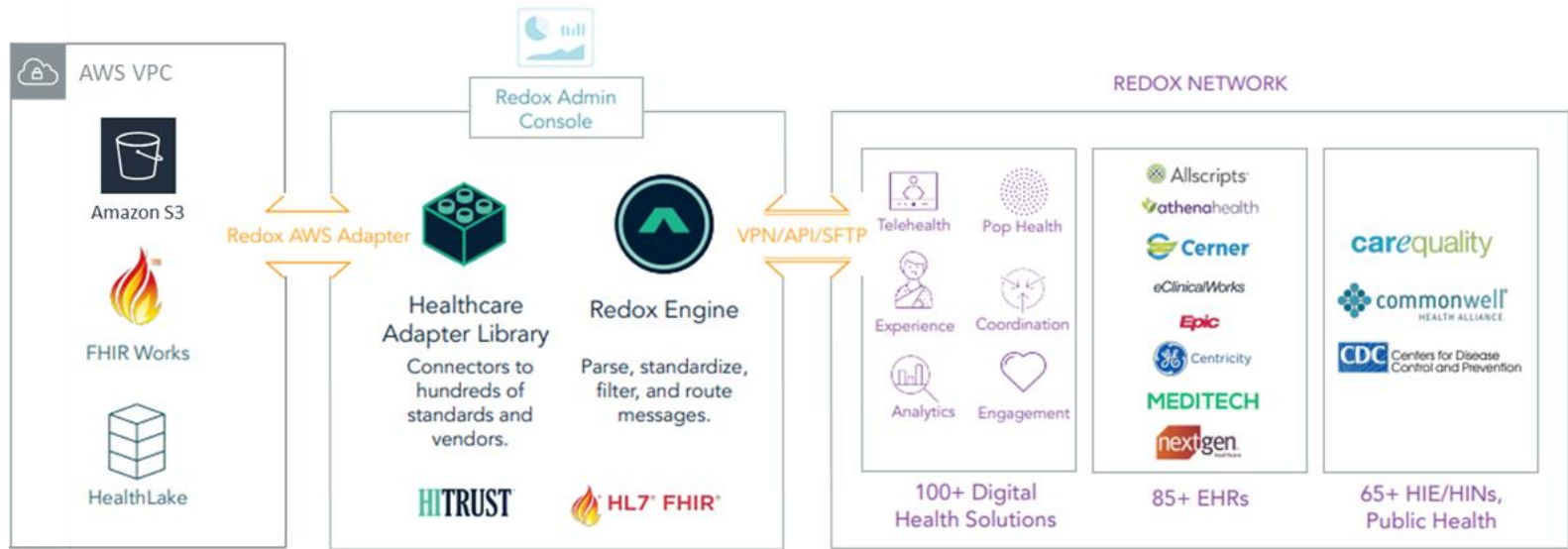Triangulate or find a patient record, including Carequality® Gateway, relaxed and probabilistic matching.

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Workflows We Power

The healthcare technology solutions powered by Redox cover the entire continuum of care. The Redox Platform offers truly unparalleled possibilities for health data exchange. Below are a few of the many workflows we power today.

Telehealth	The healthcare market is bursting with solutions that attempt to explore the full potential of telehealth to augment and extend traditional care. We are firm believers that telehealth solutions will revolutionize how care is delivered. **Example use case:** Provider schedules a telehealth appointment in the EHR >Redox passes that appointment to the telehealth vendor > after the encounter, telehealth vendor generates a PDF encounter summary and encounter charge code > Redox facilitates the write back into the EHR.
Remote Patient Monitoring (RPM)	RPM includes any workflow that generates clinical information while the patient is outside of the traditional care delivery setting. **Example use case:** Provider orders a device kit for diabetes > Redox passes that order to the device manufacturer (with patient address) > Manufacturer associates the patient medical record number with the device serial number and drop ships the device to the patient > Patient begins using the device > Manufacturer receives data readings and recalls the associated patient > Manufacture sends Redox the patient/device data > Redox facilitates the write back into the EHR > Device data is visible the next time the provider accesses the patient's chart.
Patient Engagement	Patient engagement solutions help keep patients engaged in their own care over an extended period of time. Research shows that patients that participate in care activities in compliance of their care team experience better outcomes. This can include intervention tracking solutions, post-operative recovery programs, and patient reminders (e.g. medication compliance). **Example use case:** Patient is discharged after orthopedic surgery > Redox triggers a discharge notification to the patient engagement solution > at home, patient logs into a connected iPad to record pain levels and range of motion scores each day > patient is instructed to perform progressive rehab exercises and record progress > pain scores and rehab compliance notes are sent to Redox > Redox facilitates the write back into the EHR > Provider or case manager can monitor patient progress at home and intervene when needed.
Patient Transport	Every day, 10,000 patients in the U.S. miss or delay care simply because they don't have a ride. That's 3.6 million people each year who don't receive the care they need. Their conditions often escalate, increasing their likelihood of going to the emergency room or calling 911. This fundamental barrier to care hurts not only patients, but also clinicians, health care organizations, and health plans. **Example use case:** Provider and patient schedule an appointment, choosing the type of travel and vehicle needed > Redox sends appointment and demographic information to transport partner > following the completed appointment, transport partner provides performance data back to the provider.
Care Coordination	Solutions that help providers stay on the same page. e.g. handing off patient information across shifts in a hospital, sending discharge information to downstream primary care providers, relaying information to specialists who are consulting on a particular patient. **Example use case:** Patient is admitted to the hospital with a diagnoses related to stroke > Redox processes the admission message and distributes to the care coordination solution > All stroke team care team members are notified of the new patient and prepare for beginning care, including the on-call radiology and lab technicians > At shift changes, new care team members reference the care coordination record as part of their handoff report.
Labs & Diagnostic Testing	Diagnostic testing can be used to assess if a patient has a specific medical issue that needs to be addressed, such as COVID-19, to determine baselines and measure effectiveness of interventions, and to inform treatment plans, such as precision medicine. For example, test request notification, distribution of test results, patient demographic sync, and billing workflows. **Example use case:** Patient presents at a COVID testing site > provider orders a COVID test > technician collects the specimen > the lab results the specimen and files the result in the EHR > Redox receives the COVID test result and sends the result to the appropriate state health department.
Med Devices & Equipment	Exchanging data with a wide range of devices and systems used to document and deliver care requires product flexibility to accommodate disparate data formats, value mappings, and exchange protocols. Key workflows include patient enrollment, integrated orders, result delivery, and inventory optimization. **Example use case:** Patient presents at an infusion center and is transferred to a care bay > Infusion pump located in the care bay is associated with the patient > infusion data flows to Redox > Redox facilitates the real-time write back into the EHR > infusion nurse can monitor infusion progress directly in the EHR and complete documentation in real-time.

Solution available in AWS Marketplace

How it works

The Redox Platform allows organizations to access and interact with a wide variety of healthcare-related data via a consistent, normalized, REST-inspired API. Our platform is based on our truly-standardized data model format and uses HTTPS communication with JSON to allow users to securely and conveniently build the next generation of innovative healthcare applications.

Redox Data Models

Claim

ClinicalDecisions

ClinicalSummary

Device

Financial

Flowsheet

Inventory

Media

Medications

Notes

Order

PatientAdmin

PatientEducation

PatientSearch

Provider

Referral

Research

Results

Scheduling

SurgicalScheduling

SSO

Vaccination

Solution available in AWS Marketplace