



# Platform Overview

Goal: Get to know and understand the Trinisys platform

What is it?

What can you do with it?

How does it work?

- Platform Overview
- Technology Stack
- Demonstrations
- Roadmap
- Discussion, Q&A

# About Trinisys

Trinisys is a **9-time winner** of the **Nashville Business Journal's Best Places to Work 2011-2022** and named one of **Inc. 500's Top 100 Software Companies** who revolutionize the way enterprises automate business processes to lower costs and reduce time to market.

Over the years, we have been honored to be recognized for: **NEXT Awards, Excellence in Entrepreneurship, Future 50 Winner** (Nashville Area of Commerce).

Our superior integration, data migration and document management toolsets were recognized in 2019 when receiving the **Technology Company of the Year** award from the Nashville Technology Council.



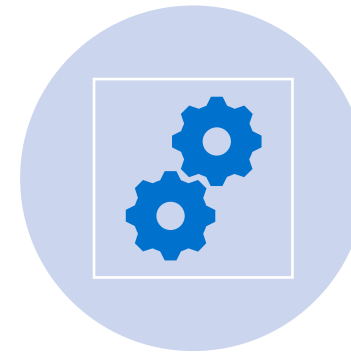
Trinisys technology empowers clients in three primary ways:



FACILITATES DATA CAPTURE AND  
DIGITAL HEALTH INTEGRATION



ACCELERATES DEVELOPMENT

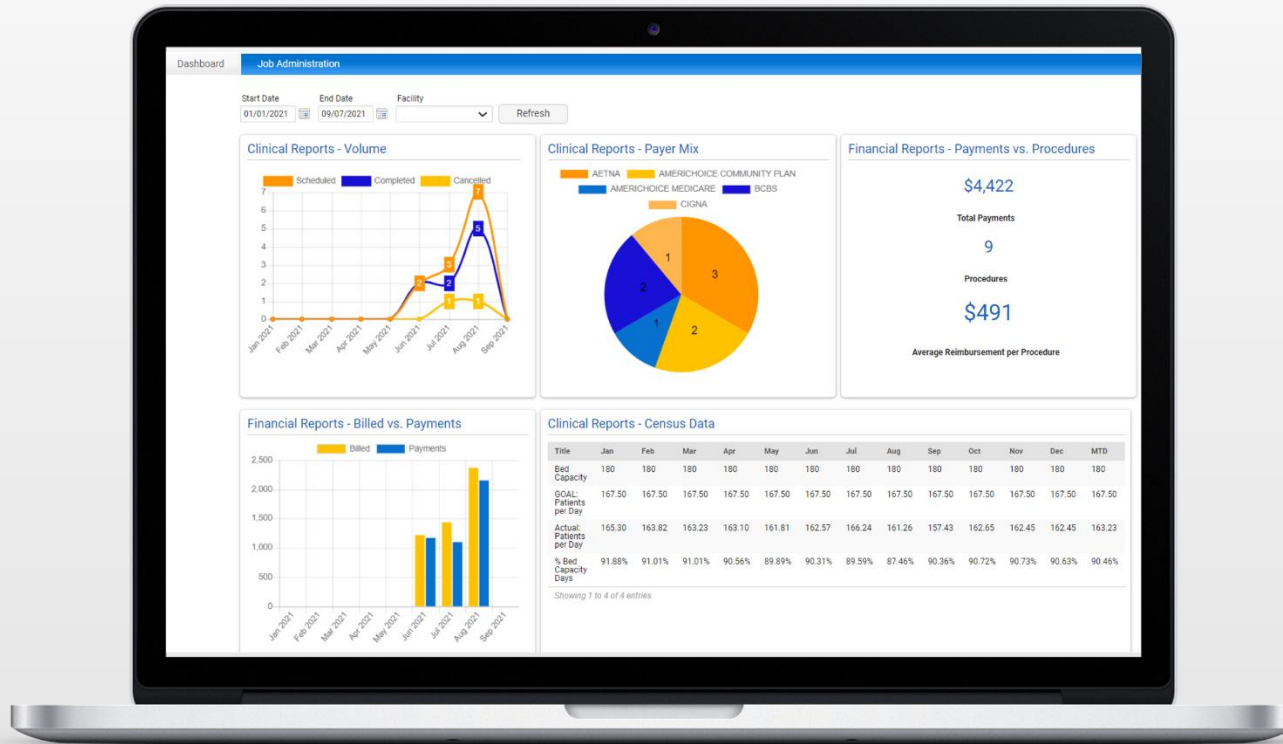


STREAMLINES AND AUTOMATES  
BUSINESS PROCESSES AND  
WORKFLOWS



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**Data Integration & Automation Platform**



## Capabilities and features:

**Fast** – Rapid Development toolset accelerates projects

**Low Code** - Data Element mapping & Business Rules

**Fluent** – Provides data translation, extraction & document conversion, with integrations for hundreds of systems

**Flexible** – Robust Interface scheduling

**Cloud-based** – Amazon Web Services (AWS) hosted

**Secure** - Data encryption in transit and at rest

**Compliance Friendly** – Comprehensive Audit History, HIPAA compliant

**Resilient** - Highly available and fault tolerant with configurable retry on each interface

## Technology Stack

Language:



Web Server:



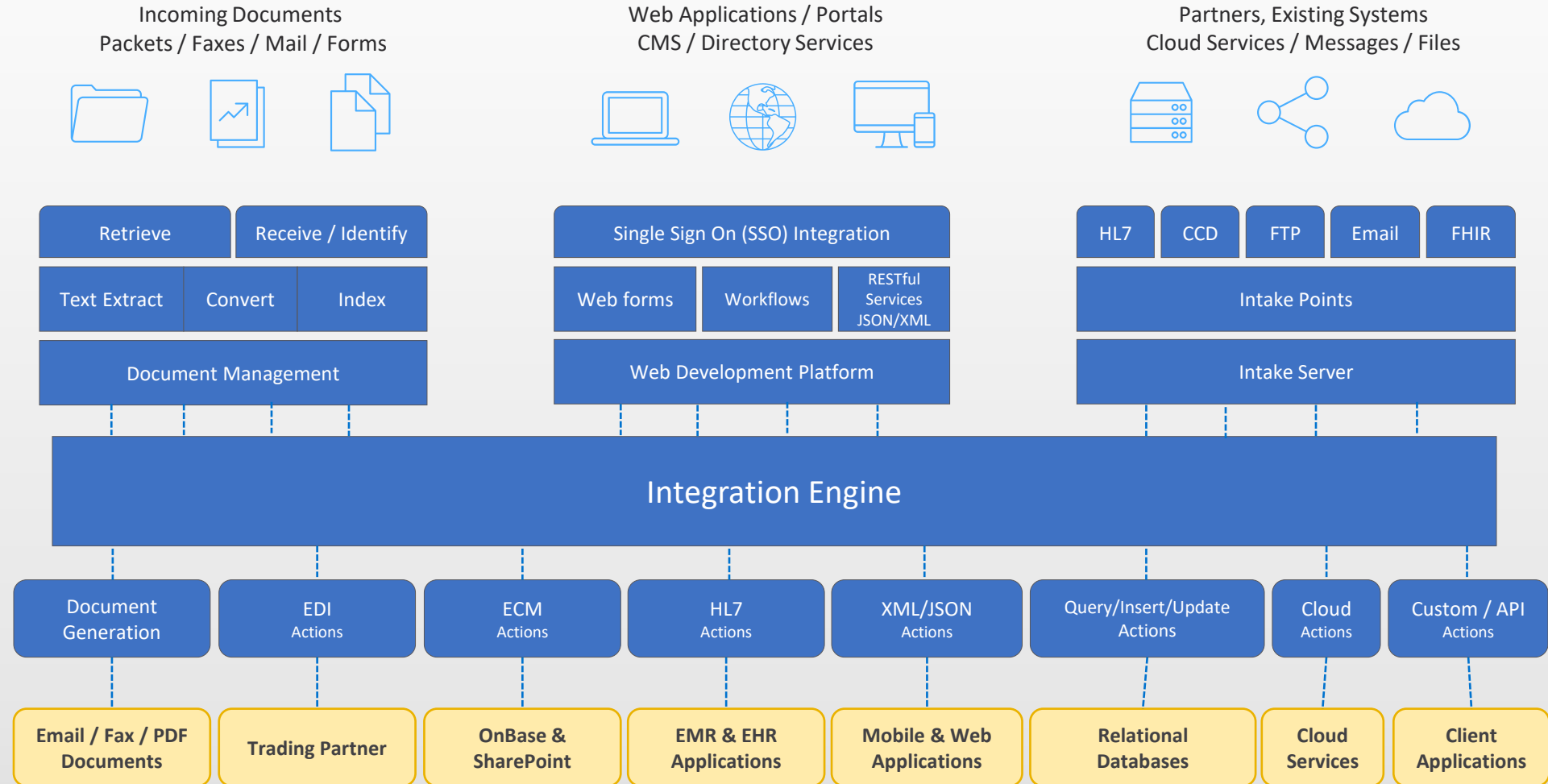
Database:



OS:

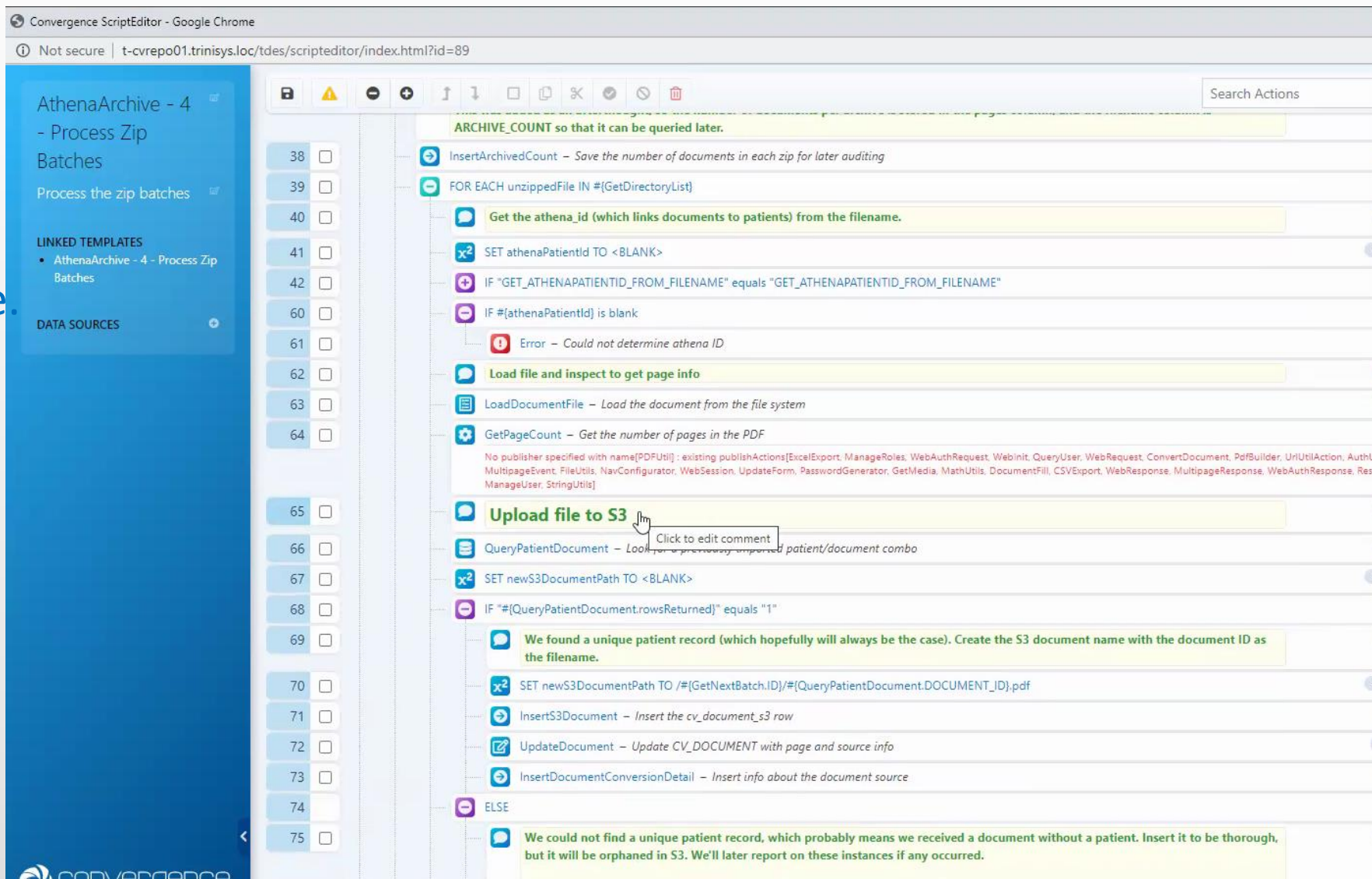








Business rules and logic are built using Convergence's low code scripting engine. The script editor promotes modular design and code re-use, further streamlining development and maintenance.



The screenshot displays the Convergence ScriptEditor interface in a Google Chrome browser. The left sidebar shows a project structure with 'AthenaArchive - 4 - Process Zip Batches' and 'LINKED TEMPLATES'. The main editor area shows a script with various actions and conditions. A list of checkboxes on the left indicates the execution status of each step.

**Script Steps:**

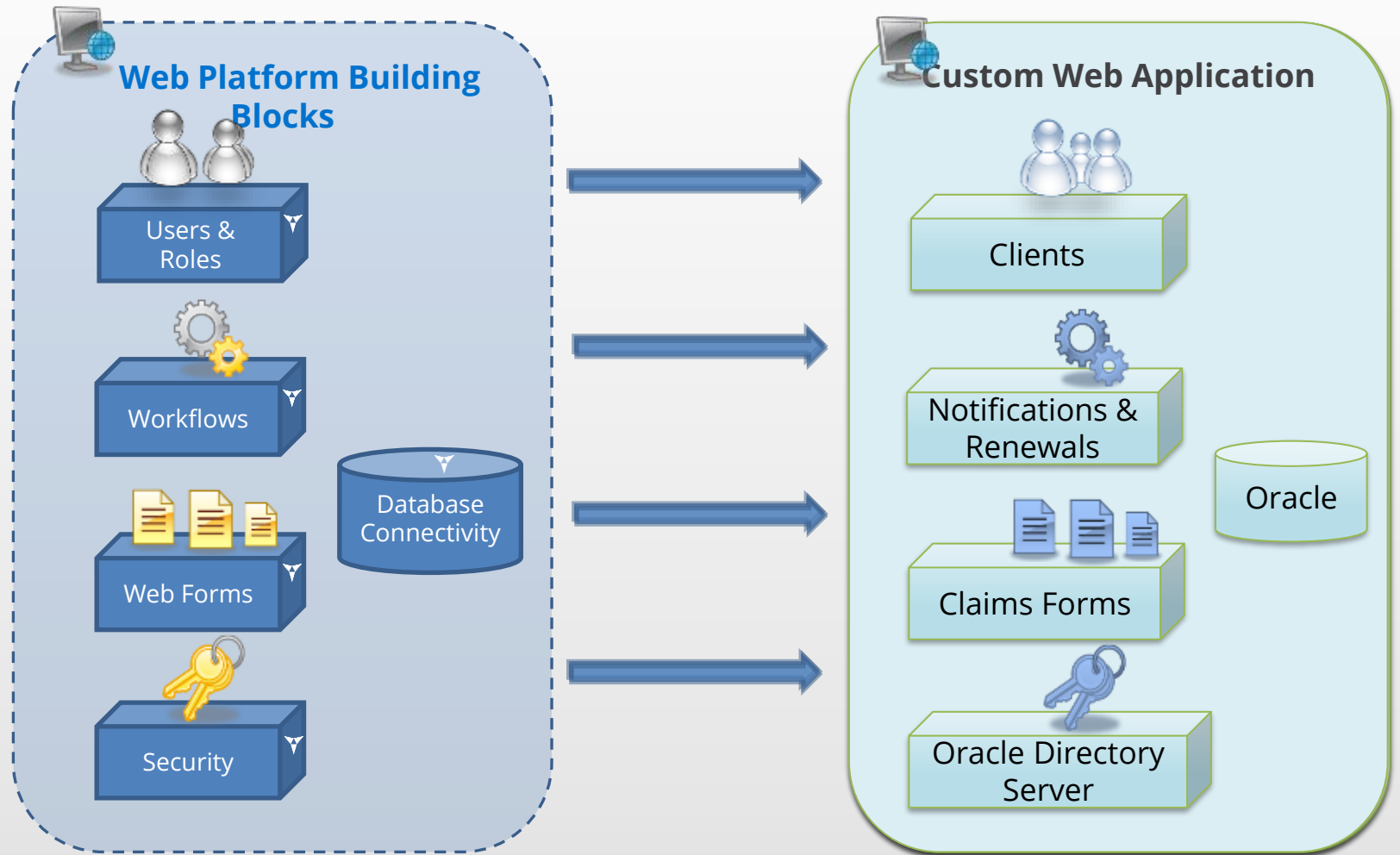
- 38 ☐ ARCHIVE\_COUNT so that it can be queried later.
- 39 ☐ InsertArchivedCount - Save the number of documents in each zip for later auditing
- 40 ☐ FOR EACH unzippedFile IN #{GetDirectoryList}
- 41 ☐ Get the athena\_id (which links documents to patients) from the filename.
- 42 ☐ SET athenaPatientId TO <BLANK>
- 60 ☐ IF "GET\_ATHENAPATIENTID\_FROM\_FILENAME" equals "GET\_ATHENAPATIENTID\_FROM\_FILENAME"
- 61 ☐ IF #{athenaPatientId} is blank
- 62 ☐ Error - Could not determine athena ID
- 63 ☐ Load file and inspect to get page info
- 64 ☐ LoadDocumentFile - Load the document from the file system
- 65 ☐ GetPageCount - Get the number of pages in the PDF
- 66 ☐ Upload file to S3
- 67 ☐ QueryPatientDocument - Look for existing patient/document combo
- 68 ☐ SET newS3DocumentPath TO <BLANK>
- 69 ☐ IF " #{QueryPatientDocument.rowsReturned} " equals "1"
- 70 ☐ We found a unique patient record (which hopefully will always be the case). Create the S3 document name with the document ID as the filename.
- 71 ☐ SET newS3DocumentPath TO #{GetNextBatch.ID}/#{QueryPatientDocument.DOCUMENT\_ID}.pdf
- 72 ☐ InsertS3Document - Insert the cv\_document\_s3 row
- 73 ☐ UpdateDocument - Update CV\_DOCUMENT with page and source info
- 74 ☐ InsertDocumentConversionDetail - Insert info about the document source
- 75 ☐ ELSE
- 76 ☐ We could not find a unique patient record, which probably means we received a document without a patient. Insert it to be thorough, but it will be orphaned in S3. We'll later report on these instances if any occurred.

# integration:

Trinisys' platform is a flexible and adaptable solution that easily integrates, archives, and migrates data from an expanding number of clinical and non-clinical vendors, over 200+ and counting.



Convergence rapidly accelerates web application development. The low-code tools enable developers to quickly customize each application's configuration and dramatically reduce the amount of development time and testing normally required under traditional models.



**The Convergence platform includes many time saving features:**

- **Project tracking system:** Easily keep up with all project assets (tagging, versioning, diffing)
- **Code Asset Export:** Deployments across environments are made easy by exporting complete zip files of every project asset from one environment and importing into another
- **Audit History:** Developers can quickly track down detailed information on all executed scripting actions, including performance metrics and user information
- **Error Queues:** Configurable error retry options and a detailed script trace allow developers to efficiently work through unexpected problems
- **Web styling:** Definable web styles allow web forms to easily blend with any existing app scheme
- **Search and Filtering:** Simplifies the effort of locating specific actions and logic

Trinisys provides comprehensive product support and training for clients including:

- ✓ Online Support Services 24/7 via trinisys.com
- ✓ Live Technical Support (business hours)
- ✓ Product Documentation (available online in Confluence)
- ✓ Custom Action Libraries
- ✓ Virtual and Live Training sessions with Developers



Convergence 2019 Documentation

Version: Convergence 2019 ▼

Convergence Overview

**What's New in Convergence 2019**

- › Convergence Server
- › Convergence Project System
- › Convergence Web
- › Convergence Integration Script Editing
- › Convergence Document Management
- › Convergence Intake Server

Convergence Action Class System

Release Notes

[Convergence 2019 Documentation](#)

## What's New in Convergence 2019

### Version Specific Release Notes

View version-specific releases notes and access software installs and updates.

[2019 Release Notes](#)

### New Features for 2019

Convergence 2019 has many new features in addition to the individual issues listed in later releases.

#### Scripting Changes

- There is a new script editor that works like the new template editor – a one page at a time editor.
- The search in the script editor now searches inside of actions, so it is simple to search for a specific action.
- It is now possible to have more than one script editor open at a time.
- A new type of script has been introduced – “Global Functions”. These scripts can be used in any action.
- Macros have been introduced to scripting. There are many macros that can now be used in actions.
- Data Source variables have been added. It is now possible to add a variable to be used in an action.
- Set Variable can now set File Variables.
- There is now a category system for Actions, used in the script editor as a filter.

#### Project System


- Projects allow developers to separate their code from different applications and components.
- Projects can also be “tagged” for versioning and tags can be exported, placing projects in a specific version.
- When Convergence is first started, any assets not currently associated with a project are automatically associated with the “WebPrototype” project.
- There is no longer a separate installer for web platform applications. Instead, new projects are automatically created.
- There is a new project automatically created called “WebPrototype”. Changes to the project can be made via the Selected Project list in the upper right corner.

“Give ordinary people the right tools,  
and they will design and build the  
most extraordinary things.”

*-Neil Gershenfeld, Professor MIT*

Here is a quick  
look at several  
examples of  
solutions built  
using the  
Convergence  
platform.

# Provider Credentialing


Harry Smith | Logout

[Home](#)
[Preferences](#)

Welcome **Harry Smith**

You are requesting privileges at **Trinisys Medical Center** at 100 Elm Street in Nashville

Submit Packet E

Application Sect
☐ Demograp
☐ Profession
Insurance and
Information

### Packet Review

Applicant	Facility	Tasks	Assigned User	Queue	Total Time	Time in Queue
Dr David Box MD	TMCS	0 of 29 Completed		Created	10 Days 20 Hours 6 Minutes	10 Days 20 Hours 6 Minutes

Delegate	Email	E
Travis gregg	tgregg@trinisys.com	

PACKET REVIEW TASKS

NOTES

PACKET A

Description	Status	Status Tin
<a href="#">Demographics</a>	✓	10 Days
<a href="#">Addresses</a>		10 Days
<a href="#">Education</a>	🔔	10 Days
<a href="#">Licenses</a>		10 Days
<a href="#">Board Certification</a>		10 Days
<a href="#">Hospital Affiliations</a>		10 Days
<a href="#">Work History</a>		10 Days
<a href="#">Insurance</a>		10 Days
<a href="#">Peer References</a>		10 Days


Dr David Box MD | Logout

[Home](#)
[Preferences](#)

Welcome **Dr David Box MD**

Your Application Packet has been submitted and is currently being reviewed

You are requesting privileges at **Trinisys Medical Center South** at 100 Elm Street in Nashville

Application Sections

- ★ [Demographics](#)
- ✓ [Addresses](#)
- ✓ [Education](#)
- ✓ [Licenses](#)
- ✓ [Board Certification](#)
- ✓ [Hospital Affiliations](#)
- ✓ [Work History](#)
- ✓ [Insurance](#)

Delegate

You have specifield **Travis gregg** as your delegate

[Manage Delegates](#)

Message Center

From	Subject	Message Date
✉ Beth Hoeg	Your Credentilaing Packet is Ready	Friday 11/8/19 4:07 PM

Showing 1 to 1 of 1 entries

[Send a Message](#)


Delegate

Here we can put some help text. Probably some links, maybe some icons


Check out this [video](#) or this [one](#)

👤 Icons!





DASHBOARDPERSONAL PROFILEMESSAGE CENTER



DASHBOARDPERSONAL PROFILEMESSAGE CENTER

■ Personal Information

■ Contact Information

■ Employment / Practice Information

■ Specialty Certification

■ Continuing Education Information

■ Licensure / Registration Information

■ Licensure / Registration Examinations

■ Higher / Tertiary Education Information

■ General Education Information

■ Language Proficiency Test

■ Personal Profile Summary

Admission Date (Month / Year)

February

1994

Completion Date (Month / Year)

March

1996

Has this school closed or merged with another school? \*

☐ Yes

☒ No

Field Required

Address of School Attended - 2

Countries \*

Australia

Field Required

Street Number & Name \*

8877 Jones

Field Required

P.O. Box

Street Address 2

City \*

Jones

Field Required

State / Province / Territory

-- No items found matching query --

Postal Code / Zip Code

Website URL

Do you have another record to add? \*

☐ Yes

☒ No

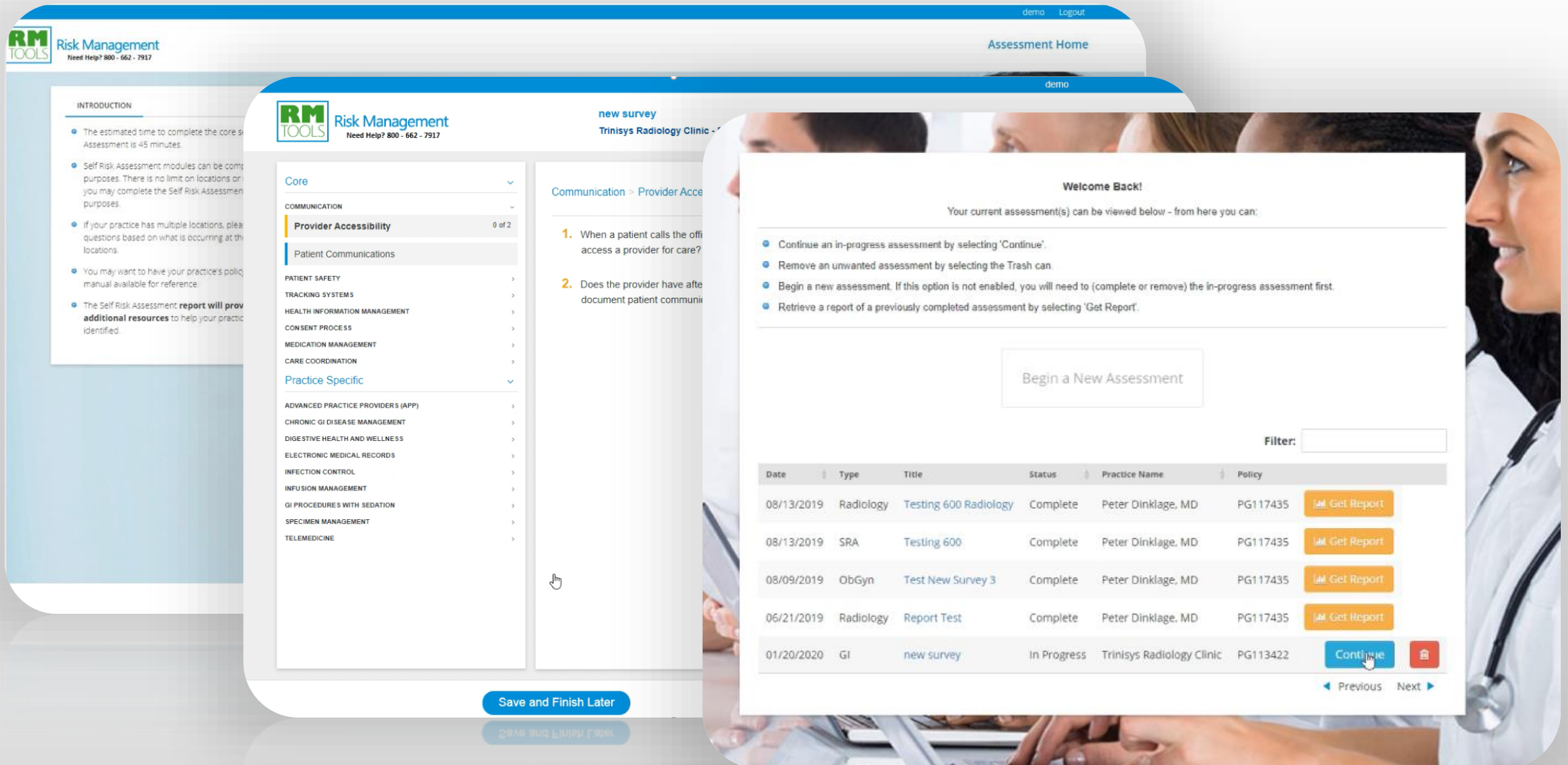
Field Required

SAVE

<< BACK

NEXT >>

CLOSE



**Trinisys Risk Management**  
Need Help? 800 - 662 - 7917

demo Logout

Assessment Home

demo

**INTRODUCTION**

- The estimated time to complete the core Self Risk Assessment is 45 minutes.
- Self Risk Assessment modules can be completed for multiple purposes. There is no limit on locations or you may complete the Self Risk Assessment for multiple purposes.
- If your practice has multiple locations, please select questions based on what is occurring at the location.
- You may want to have your practice's policy manual available for reference.
- The Self Risk Assessment report will provide additional resources to help your practice identify risks.

**Core**

COMMUNICATION

**Provider Accessibility** 0 of 2

Patient Communications

PATIENT SAFETY

TRACKING SYSTEMS

HEALTH INFORMATION MANAGEMENT

CONSENT PROCESS

MEDICATION MANAGEMENT

CARE COORDINATION

**Practice Specific**

ADVANCED PRACTICE PROVIDERS (APP)

CHRONIC GI DISEASE MANAGEMENT

DIGESTIVE HEALTH AND WELLNESS

ELECTRONIC MEDICAL RECORDS

INFECTION CONTROL

INFUSION MANAGEMENT

GI PROCEDURES WITH SEDATION

SPECIMEN MANAGEMENT

TELEMEDICINE

**new survey**  
Trinisys Radiology Clinic

Communication > Provider Accessibility

- When a patient calls the office to access a provider for care?
- Does the provider have after hours document patient communication?

**Welcome Back!**

Your current assessment(s) can be viewed below - from here you can:

- Continue an in-progress assessment by selecting 'Continue'.
- Remove an unwanted assessment by selecting the Trash can.
- Begin a new assessment. If this option is not enabled, you will need to (complete or remove) the in-progress assessment first.
- Retrieve a report of a previously completed assessment by selecting 'Get Report'.

**Begin a New Assessment**

Filter:

Date	Type	Title	Status	Practice Name	Policy	
08/13/2019	Radiology	Testing 600 Radiology	Complete	Peter Dinklage, MD	PG117435	Get Report
08/13/2019	SRA	Testing 600	Complete	Peter Dinklage, MD	PG117435	Get Report
08/09/2019	ObGyn	Test New Survey 3	Complete	Peter Dinklage, MD	PG117435	Get Report
06/21/2019	Radiology	Report Test	Complete	Peter Dinklage, MD	PG117435	Get Report
01/20/2020	GI	new survey	In Progress	Trinisys Radiology Clinic	PG113422	Continue

Previous Next

**Save and Finish Later**

## Report Dashboard

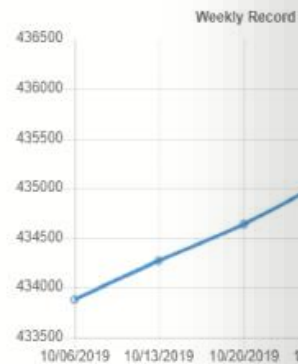
Show 10 items

Center ID	Name	DBA	System	Extract Type	Data Source	Schedule	Status	Last Daily Run	Last W
12345	ABC	ABC	Centricity	Datasource	ABC		Ready	2019-11-09 20:00:42	2019-
23456	DEF	DEF	AllScripts	Datasource	DEF		Ready	2019-11-09 20:00:44	2019-
34567	GHI	GHI	Centricity	Datasource	GHI		Ready	2019-11-09 20:00:47	2019-
45678	JKL	JKL	Vision	Datasource	JKL		Inactive		

Showing 1 to 4 of 4 entries

Center Detail Report History

Center ID	Common Name	DBA	System	Extract Type	Data Source
12345	ABC	ABC	Centricity	Datasource	ABC



## Manage Centers

Show 10 items

Filter:

Center ID	Name	DBA	System	Extract Type	Data Source	Schedule	Center Status
12345	ABC	ABC	Centricity	Datasource	ABC		Ready
23456	DEF	DEF	AllScripts	Datasource	DEF		Ready
34567	GHI	GHI	Centricity	Datasource	GHI		Ready
45678	JKL	JKL	Vision	Datasource	JKL		Inactive

Showing 1 to 4 of 4 entries

◀ Previous Next ▶

Add Center

## Overview

System Types by number of active centers



## System Properties

All Daily Reports Paused No

All Weekly Reports Paused No

All QA Reports Paused No



## **The platform can be used to build a wide range of solutions:**

- Onboarding Workflows
- Surveys
- Provider and Nurse Credentialing
- Insurance Applications and Renewals
- Immunization Tracking
- Telecom Configure, Price, & Quote
- Loan Applications
- Case Management tools
- Event Tracking
- Clinical Data Archival
- Document Management
- ERP Archival
- Clinical Coding workflows
- Revenue Cycle & Payor Enrollment
- Data Aggregation for Enterprise Data Warehousing
- Business Process Automation
- ETL and Data Migration



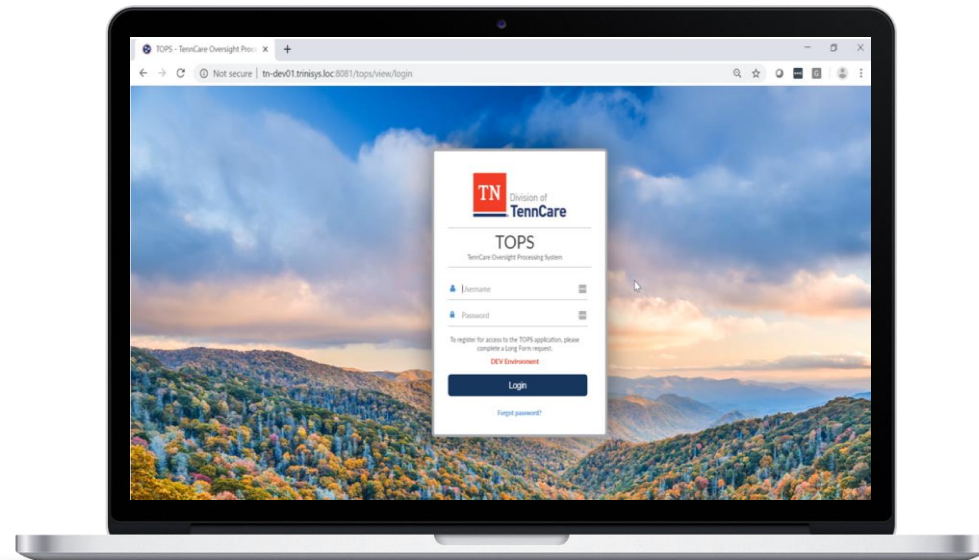
# TennCare Projects

TennCare leverages the Trinisys platform for 3 different solutions:

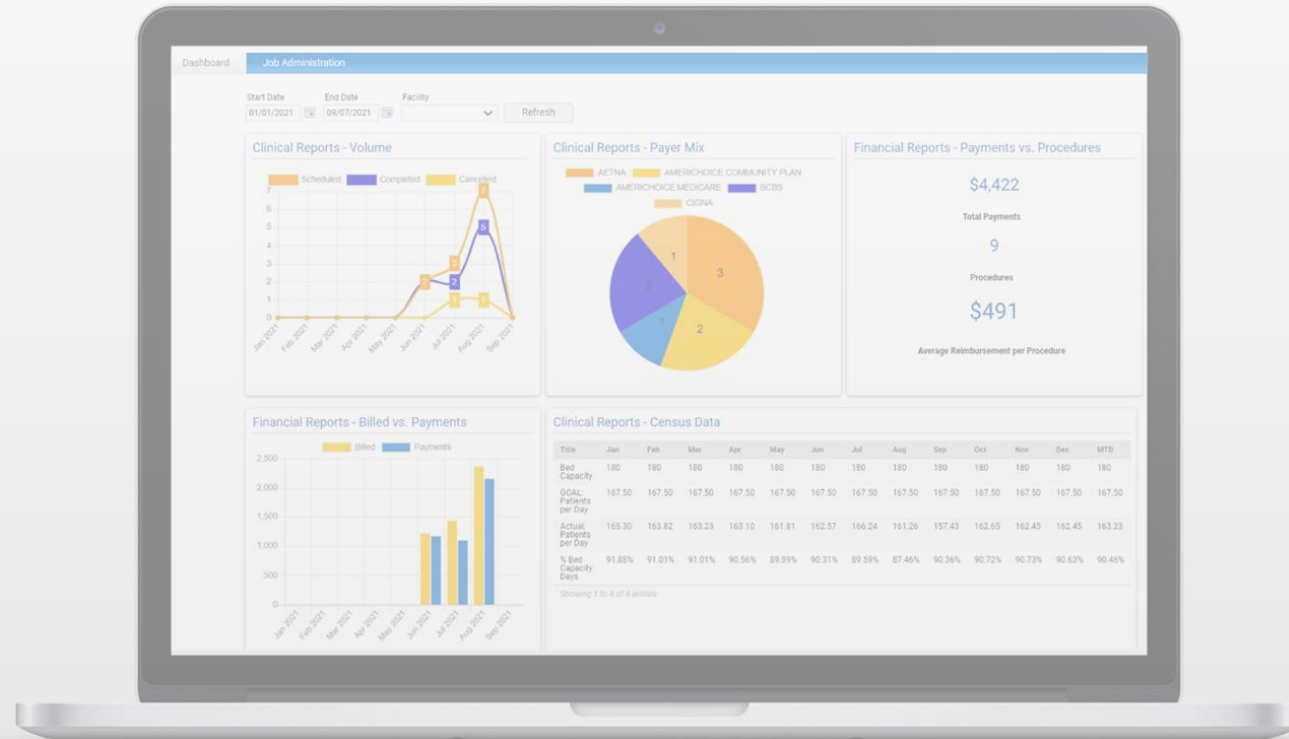
- Member Services Document Management (MSDM)
- TennCare Contract Oversight Processing (TOPS)
- TennCare Appeals Data Archive (TADA)



Trinisys and TennCare have submitted abstracts to showcase the state's projects at this year's upcoming MESC conference in Charlotte NC



# Demonstrations





# Product Roadmap

Notable upcoming product milestones:

- Q2 2022 - 21.1 Convergence Release
- Q3 2022 - HITRUST certification
- Q4 2022 - Cloud Native Convergence (EBS based)
- 2023 – Cloud Native / Multi-Tenant Convergence (with support for Lambda functions)

## Cloud Native Convergence will use these AWS services:

- **EBS** – Amazon Elastic Beanstalk framework for consuming AWS services dynamically
- **EC2** – Elastic Cloud Computing, preconfigured Windows VMs with Auto Scaling
- **S3** – Simple Storage Services, object storage for documents, images, files, data, etc. Will be used (optionally) to store History / Script state content.
- **RDS** – Relational Database Service: Aurora (mySQL)
- **AMQ** – Amazon MQ Message Broker: For Submitted Queue, Hold Queue, and Error Queue

## AWS Elastic Beanstalk features:

**Application Health** - 40+ key metrics and attributes to determine the health of applications

**Monitoring, Logging and Tracing** - view key performance metrics such as latency, CPU utilization, and response codes

**Elastic Load Balancing, Auto Scaling** - automatically scale your application in and out based on its specific needs.

**Customized Instances** – preconfigured EC2 instance types and sizes based on app need

**Compliance** - meets the criteria for ISO, PCI, SOC 1, SOC 2, and SOC 3 compliance along with the criteria for HIPAA eligibility. This means applications running on Elastic Beanstalk can process regulated financial data and protected health information (PHI).

# Trinisys technology enabled services:



## Data Integration for Workflow Automation

*Bridges the gap between disparate systems, data formats, and rapidly supports projects without need for major IT system replacements and/or investments*



**Reduced Time to Market**



**Leverages Existing IT Investment**



**Cross System Connectivity**



## Legacy System and Historical Clinical Record Solutions

*Complete and affordable solution for retiring legacy clinical systems*



**Consolidated View**



**Patient Financial Services & Practice Management Solutions**



**Compelling ROI**

## Government & Medicaid Solutions

*Provides State and Local government agencies and municipalities with the tools necessary to smoothly facilitate transactions, streamline processes, and drive growth and productivity*



**NASPO Certified**



**Insight Global Partnership**



**Recredentialing/ Audit**

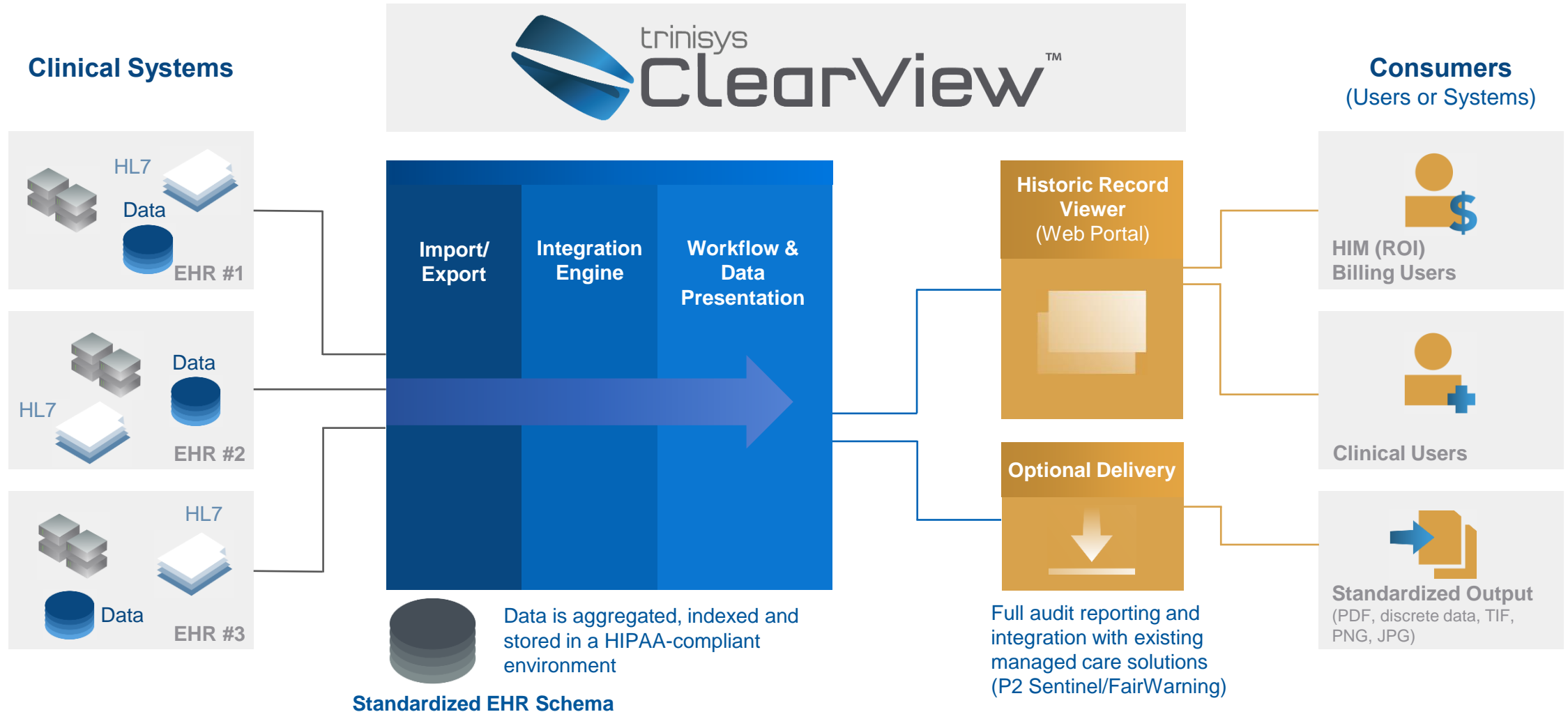


**Data Warehouse**



# Data Migration & Archival Solutions

## Sample Workflow



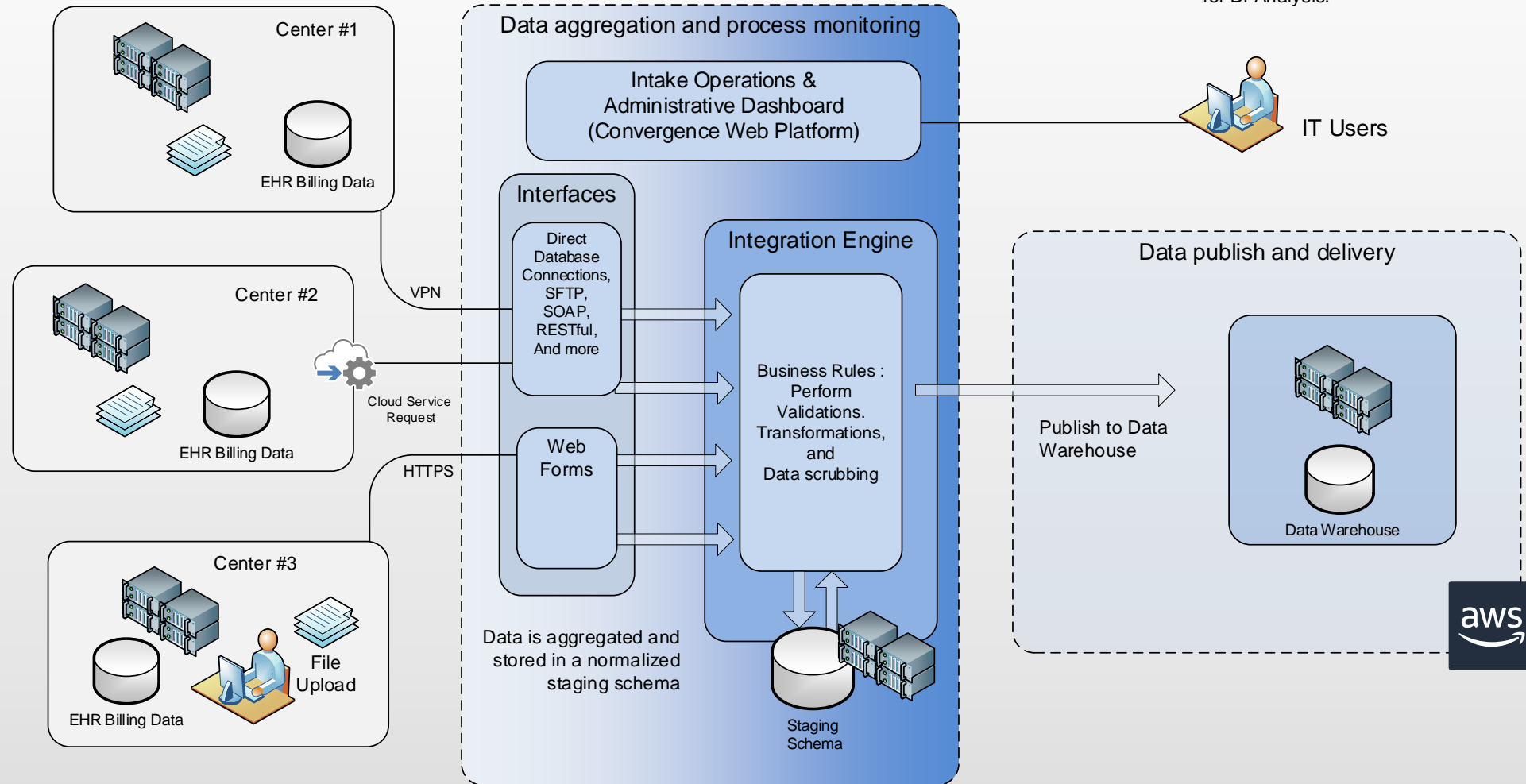


# Solution Overview – Aggregate Facility Data

1 Centers submit data via different methods and on different intervals

2 Data sets collected are saved in a central location with all interfaces and schedules managed via Convergence

3 IT staff manage exceptions and monitor interfaces via Dashboard, and qualified datasets are delivered to the data warehouse for BI Analysis.





## BUY

- Pay for functionality you don't need
- Rigid feature list, lacking in customization
- Expensive per ticket support models, offshored call centers
- Additional charges for each system connected
- Have to go back to the vendor for each change
- Narrow feature focus and limited versatility
- Expensive conversions and replacements required to put into place



- ✓ Rapid time to market
- ✓ Custom fit solutions
- ✓ Knowledge Base and live support
- ✓ Unlimited connectivity
- ✓ Make changes without vendor involvement
- ✓ Maximize reusability and extensible via Trinisys API
- ✓ Leverage existing investments and extend systems already in place
- ✓ Flexibility to either establish or support existing sources of data "truth" without creating data synching issues

## BUILD

- Requires development team
- Slow time to market
- Must be supported internally
- Obligation to maintain in-house
- Competes with other in-house development projects
- Start from scratch with every project
- Integration can be challenging