

# Clovi

Secure & HIPAA-compliant data collection,  
storage and management solution

## Overview

Clovi is a software solution that helps biometric screening companies securely store and manage health data, improve efficiency and provide a high quality and engaging experience for their clients.

## Software Platform

Clovi, first and foremost, is a software company focusing on secure, HIPAA-compliant data storage. We use state-of-the-art encryption, TLS enforcement, and HIPAA compliance to keep your data secure.

Above and beyond, Clovi also provides web and mobile apps that solve pain points on the pre-analytical (before the event), analytical (during the event), and post-analytical (after the event) stages. We accomplish this with our two products: CloviFlow and CloviWell.

**CloviFlow** is a screener-facing web and tablet app that helps clinical screening companies collect, store and manage health data on our HIPAA-compliant servers. CloviFlow eliminates the paper process, dramatically increasing biometric screening efficiency while providing an engaging and human centered user experience.

**CloviWell** is an employee facing web and mobile app that allows employees to pre-register for and schedule health events, complete Health Risk Assessments, and view their personal test results. Employers can also use CloviWell to view aggregate, cohort and Year-over-Year trend reports.

Together, these products solve pain points on the pre-analytical, analytical, and post-analytical stages for wellness programs. CloviFlow and CloviWell create a cohesive wellness program that increases engagement and improves ROI for employers.

## Benefits your business and your clients

Clovi aims to not only store your data securely, but also to help you in all stages of your screenings:

Pre-analytical	Analytical	Post-analytical
Eligibility file upload Event management Appointments HRA	Tablet technology Shorter wait times Higher throughput Quality experience	Online personalized results Aggregate Reporting Cohort Reporting Year-over-Year trends

To employers and employees, Clovi web and mobile apps provide event registration, appointment scheduling, automated email reminders, Single-Sign On, personalized individual reports and aggregate reports, all within a modern user experience. The employee experiences a smooth and frictionless screening process while the employer experiences a cohesive implementation of their core wellness program.

## How would this work in practice?

1. A Team Lead at client site gets confirmation of a screening event. The Lead creates the event in CloviFlow, assigns screeners and shares a link with the HR manager. This process takes **only 5 minutes**. Our event management system allows for any type of workflow: Single-Station Model or Multiple-Station Model.

2. HR manager shares the link with employees. Employees go through registration, signing your informed consent, select appointments (if applicable) and get confirmation and reminders. We have a support chat to answer any technical issues the employees may encounter. On average, registration takes **only 3 minutes**.

3. Day of the event rolls around. Your screeners use their tablets to login to CloviFlow and find participants by name, email, employee ID or appointment. They then perform the screening & consultation with real-time color-coded results and year-over-year changes (if applicable). Entering data into our system takes **at most 1 minute**.

4. Employee returns to their desk to see an email that links to their results in our secure participant portal. After the event, we generate a de-identified aggregate reports that you can share with the HR manager. The aggregate reports include Risk Stratification, Cohort Reporting for multi-year events, and Year-over-Year Trend Charts.

If you need the data for post-processing, we offer exporting to .txt, .csv and .xls file formats. We can also work with you to provide secure API endpoints for programmatic data transfer.

## Walkthrough

Before the event, employees visit a CloviWell link to pre-register for the screening event. The view is customizable, and can include your privacy practices, informed consent, and any other instructions you may have. Employees can fill out their demographics and also schedule appointments.

Biometric screening at Test  
Screening date: Tuesday, June 7, 2016

**EVENT INFORMATION**

Heart Watch welcomes you to your company's corporate health screening.

Heart Watch Mobile Laboratory utilizes the latest technology for Point-of-Care biometric testing to perform fast accurate health screening tests and services to help identify the participants risk for developing future disease. Results are available within minutes, which permits the opportunity for immediate counseling for at-risk individuals.

Screenings offered at your event include: Total Cholesterol, HDL (good cholesterol), Glucose (for diabetes), Blood Pressure, Body Composition and BMI. All blood tests are done by licensed Phlebotomists using a relatively painless finger-sticking technique.

**NOTICE OF INFORMED CONSENT** Show

By checking the box, I agree that I have read, understand, and accept the Notice of Privacy Practices and Informed Consent.

[Continue as dmitriskj@gmail.com](#) Logout

Personal Information

**FIRST NAME**

**LAST NAME**

**EMAIL**  I don't have email

**GENDER**

Male

Female

Other

**DATE OF BIRTH**

Save

Biometric screening at Test Company  
Screening date: Friday, June 10, 2016

EVENT DATE: June 10, 2016 [View available appointments](#)

APPOINTMENTS FOR JUNE 10, 2016

Starting at 9:00AM **Starting at 9:20AM** Starting at 9:40AM Starting at 10:00AM

Starting at 10:20AM Starting at 10:40AM Starting at 11:00AM Starting at 11:20AM

Starting at 11:40AM

[Skip](#) [Schedule](#)

**When & Where**

Test Corporation  
Conference Room A  
1600 Amphitheatre Pkwy, Mountain View, CA 94043  
Friday, June 10, 2016

**Screening Company**



Dummy Screening Company, Inc.  
Dummy Screening Company is a world-renowned screening company specializing in biometric screening operations of test companies. We think your success is our success!

At this point, the employee's information is securely stored in the system, and available in real-time. On the day of the screening, the screener simply has to search for the participant's name, email and/or employee ID to find them in the system.

**Organize**

SORT PARTICIPANTS BY: [Appointment](#) [Name](#)

FILTER BY: [All](#) [In Progress](#) [Finished](#)

FILTER BY DATE: [All](#) [June 10, 2016](#)

**No appointment** 0 of 20 done

**09:00AM on June 10, 2016** 0 of 1 done

**09:20AM on June 10, 2016** 0 of 1 done

Dmitri Skjorshammer 0%

dmitriskj@gmail.com [Lipids](#) [Pressure](#) [BMI](#) [Coaching](#)

Appointment starts at 9:20AM

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Once found, they can screen them, and communicate their results to them.

The top screenshot shows the 'Screening' form with the following data:

- DEVICE: Not assigned to any device
- TOTAL CHOLESTEROL: 166 mg/dL
- HDL: 57 mg/dL
- NON-HDL CHOLESTEROL: 109 mg/dL
- CHOLESTEROL RATIO: 2.91
- FASTING?: Yes
- TRIGLYCERIDES: 64 mg/dL
- LDL: 96 mg/dL
- GLUCOSE: 101 mg/dL

The bottom screenshot shows the 'Results' page with the following table:

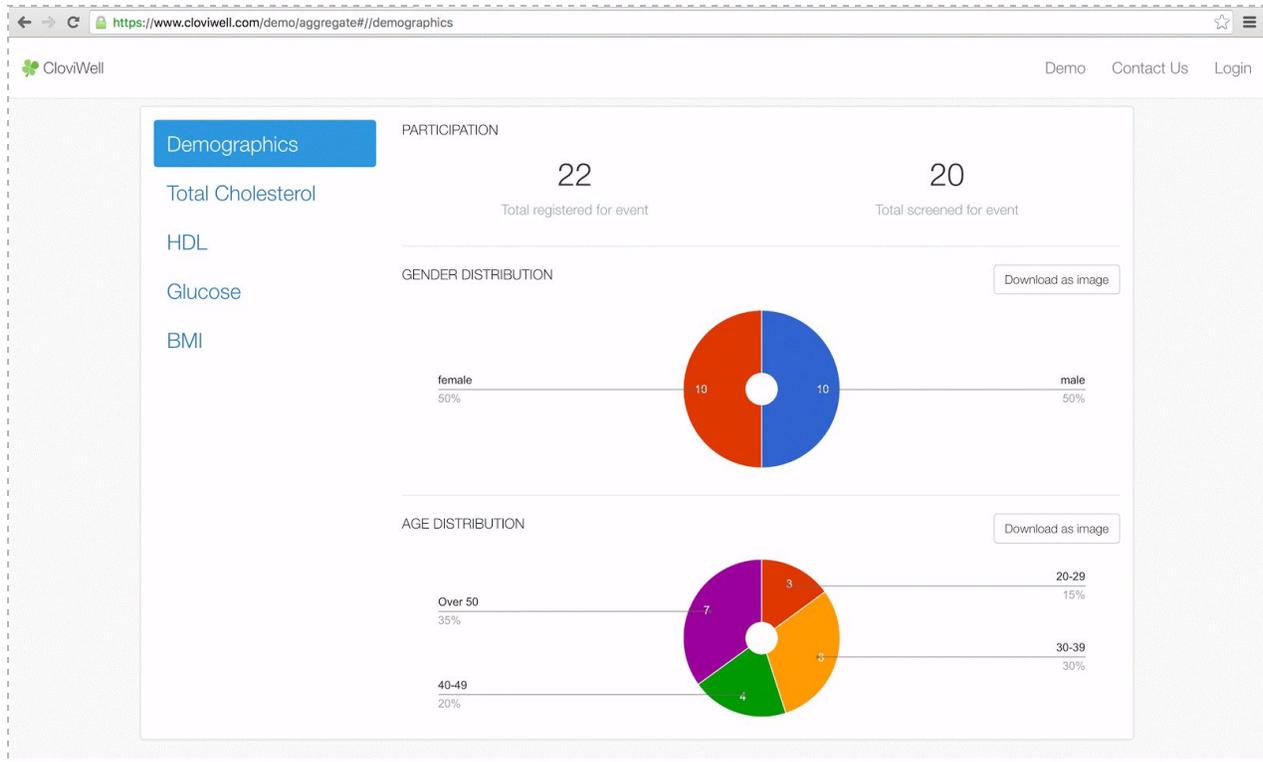
	Ideal	Your result
Total Cholesterol (mg/dL)	< 200	166
HDL (mg/dL)	60 and above	57
LDL (mg/dL)	< 130	95
Triglycerides (mg/dL)	< 150	64
Glucose (mg/dL)	70 (fasting) or 140 (non-fasting)	101
Cholesterol/HDL Ratio		2.9
Systolic blood pressure (mm/Hg)	less than 120	142
Diastolic blood pressure (mm/Hg)	less than 80	87
BMI	between 18.5 and 25	36.3

The individual results are then instantly available to the employee in their portal.

The screenshot shows the 'Report' page for 'Biometric screening at Test Company'. The 'LDL' result is highlighted in the left sidebar. The line graph shows the following data points:

Screening Date	LDL (mg/dL)
Jul 2015	81
Aug 2015	88
Sep 2015	80
Oct 2015	66
Nov 2015	76
Dec 2015	130
Jan 2016	138
Feb 2016	113
Mar 2016	97
Apr 2016	100
May 2016	109
Jun 2016	124

And the aggregate report is available for employers to calculate ROI and take next steps.



## Why us?

### Software security is our focus

Our primary focus is to build systems that protect your data and ensure a reliable experience.

### Flexible and scalable

We have no minimum or maximum threshold. We can handle small events (< 100 participants) and large events (> 50K, distributed)

### Affordable

We are the most affordable option on the market thanks to our focus on design and lean methodology. *That's a guarantee.*

### Intuitive and Seamless

We make a guarantee that your Team Lead will get up-to-speed in 1 hour or less, and that your screeners will get up-to-speed in 10 minutes or less.

### Customizable

We work with you to add additional customizations you may need to fit your unique business needs.

### Amazing Customer Support

Every single one of our clients trusts and loves our customer support. We guarantee to answer immediate concerns within 1 hour and general concerns within 1 business day.

## Security & Privacy

Clovi is a HIPAA-compliant cloud software platform built and run by engineers who believe security is our core business value. When talking about security and privacy, we break the conversation into four stages:

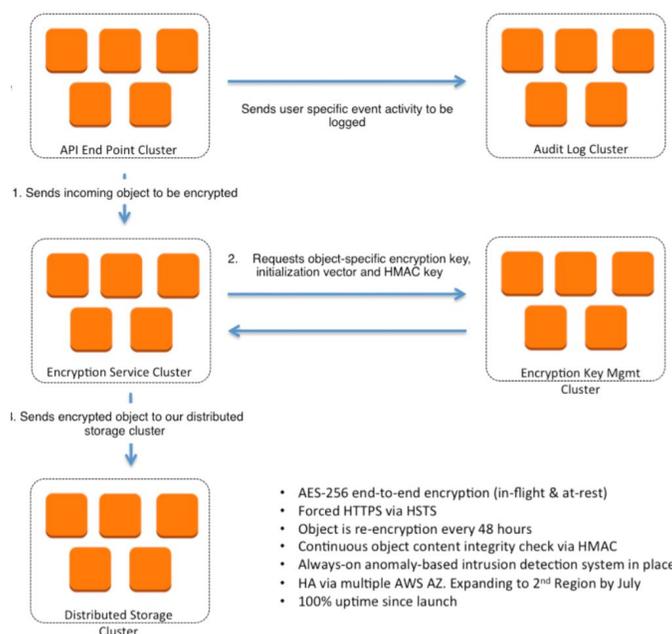
### Encryption/Decryption

First, all communication with Clovi goes through HTTPS. Our servers are only available via HTTPS.

Second, our HIPAA servers encrypt all records with 256-bit AES encryption keys. Every record is encrypted with a unique initialization vector by a unique encryption key to achieve semantic security. Clovi verifies each record's integrity on a regular basis and on each record request using a hash-based authentication code (HMAC) calculated using its own unique 256-bit HMAC key. Encryption keys, initialization vectors and HMAC keys are rekeyed and each record re-encrypted on a regular basis.

### Network Storage

Clovi's HIPAA infrastructure comprises multiple VPN and VPC subsystems. Each subsystem is totally and completely segmented from one another by software and network security rules to maximize protection. Each subsystem can only be accessed by another subsystem via specific network routes and specific inbound and outbound port rules. Below, we share a diagram of the infrastructure.



### Transparency and Compliance

Clovi is Safe Harbor Compliant for both US-EU and US-Swiss standards, and is HIPAA compliant. Our products regularly undergo rigorous 3rd-party audits and penetration tests.

### Infrastructure and Physical Security

Clovi products run on Amazon Web Services in a secure facility with active monitoring, total system logging, and security including ISO 27001, and other leading physical security measures.