

Automated Privacy Compliance Auditing as a Service (DRAFT)



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For my wife and son.

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1 Executive Summary

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2 General Company Description

Cereus is a software-as-a-service company offering privacy compliance auditing tools and solutions for businesses that collect customer information through their websites.

2.1 Unique Value Proposition

Consent involves more than just cookies on your website. It involves all information you share with your vendors and partners including network traffic. Cereus actively scans, monitors, and analyzes your website to identify compliance infringements in accordance with your business rules.

2.2 Mission Statement

To remove privacy barriers between companies and their partners, and enable them to communicate in an efficient, compliant way.

2.3 Vision Statement

Proactively detect all privacy compliance infringements defined by our clients before they reach their customers.

2.4 Values Statement

- Reliability
- Transparency
- Growth

2.5 Company Goals and Objectives

The primary goal of Cereus is to establish itself as a thriving company that leads the privacy industry by providing automated, insightful, audits to ensure that companies and their partners are sharing customer information in accordance to their business rules.

2.6 Business Philosophy

Some companies spend millions to establish a privacy program. Everyone else gets Cereus.

2.7 Industry Overview

The privacy technology industry is a rapidly growing field. In 2020, it is the fastest growing technology sector that includes the fastest growing company in the U.S (Hughes, 2020). As more consumers become impacted by massive data breaches in which sensitive, personally identifying information (PII), is exposed; consumer awareness and the call for data processing regulations are expected to be on the rise.

There are already governmental regulations impacting businesses in the U.S. The Health Insurance Portability and Accountability Act (HIPAA) highly regulates patient information and how it is stored. The California Privacy Protection Act (CCPA) regulates the selling of user data collected by a business for consumers in the state of California. The Children’s Online Privacy Protection Act (COPPA) imposes requirements on website operators on collecting information from children under the age of 13 years old. Lastly, the General Data Protection Regulation (GDPR) gives European Union citizens the right to manage their information any business has collected on them and requires explicit consent before information is collected.

With all these regulations, foreign and domestic, companies that collect information from their customers are relying on the assistance of privacy technologies to operate within the bounds of new regulations and meet consumer privacy expectations (Meehan, 2019). This has attracted massive funding, and, in July of 2019, OneTrust raised \$200 million in a Series A investment, TrustArc raised \$70 million Series D, Privitar raised \$40 million series B, and BigID raised \$30 million Series B (Wood, 2019).

In four years since its founding, as of August, 2020, OneTrust is valued at \$2.7 billion (Hughes, 2020).

2.8 Market Segment Overview

Any business that operates a website and collects data and analytics on their customers is subject to the regulations in which the customer originates. This also applies to the jurisdiction in which the business operates. Cereus can provide auditing for companies with a single website, to large enterprises with hundreds. It may prove difficult for small businesses with a single website to justify the expense of privacy audits when they are not often the subject of privacy lawsuits (LaNou, 2020). Cereus’s primary focus will be medium to large organizations maintaining multiple websites.

2.9 Legal Form of Ownership

Cereus will be organized as a small business corporation (S corporation). As an S corporation, Cereus will be allowed to collect funding and pass off any business profits and expenses to its shareholders without the additional taxes applied to C corporations.

2.10 Guiding Principles

The "Living Principles for Design" framework (Hamlett, 2020) was applied to outline how Cereus can maintain a sustainable design while achieving the company's objectives along the following dimensions:

2.10.1 Environment

The direct environmental impact of Cereus is expected to be minimal. Cereus will provide software-as-a-service (SAAS) and will rely on cloud services to manage its operations. Cloud services, such as Amazon Web Services (AWS), are composed of large computer networks in which infrastructure is shared with other AWS customers (Amazon, 2020). Cereus's physical hardware is limited to the machines required to manage services running on the cloud platforms.

With Cereus's services operating in the cloud, a central office space for employees is not required and will further reduce the company's environmental impact.

2.10.2 People

The societal impact of Cereus and its services are restricted to the transparency of the companies that use it. Cereus offers detailed reports from its audits that can provide insights into how customer information is shared between a website and its partners. If companies choose to share these reports, their customers will better understand how their information is used in exchange for the services the company provides. This has the potential to improve the relationship between a company and their customers – possibly making them more apt to sharing personally identifying information.

2.10.3 Economy

Cereus's operations are expected to reduce the amount of time required to conduct a compliance audit against websites. These actions will minimize the manual auditing cost and likelihood of Cereus's customers being subject to privacy lawsuits. Cereus's customers can

then focus and dedicate more resources towards achieving their goals and growing their business. The overall economic impact of Cereus is limited to the the actions of its customers and is expected to be minimal.

2.10.4 Culture

Cereus has the potential to influence organizations to be more transparent about the sharing of information on their customers with their partners. Traditionally, data processing and sharing are often confidential and kept internal; but with privacy becoming a concern for consumer – transparency will soon be an expectation (Meehan, 2019).

3 Products and Services

3.1 Description of Products and Services

Cereus aims to become the leader in cutting-edge privacy compliance auditing tools. These tools will assist our customers to quickly and efficiently identify privacy and compliance issues on their websites. Most of Cereus’s solutions will be offered as software-as-a-service, though professional services will also be available.

3.1.1 Professional Services

Cereus’s professional services will serve a less technical clientele or those requiring guidance on privacy regulations applicable to their operations. Cereus will consult configuration the client to identify the best plan for the client and assist with the configuration of Cereus’s tools to reflect the client’s needs. Training services for Cereus’s products will also be provided.

3.1.2 Compliance Auditing

The Cereus compliance auditing system is a series of processes configured by the user to ensure their websites meet the compliance standards that they have defined. It can be configured to scan per the businesses development cycle, automatically through the API services, or manually through the Cereus user interface. There are five main components to the compliance auditing system: the confirmation system, crawler, rules validator, report, and recommendation engine.

3.1.2.1 Confirmation System

The Cereus confirmation system, Figure 3.1, prevents organizations from conducting audits on domains that they do not own or manage. This will ensure Cereus’s customers cannot use the auditor to evaluate their competitors websites and privacy practices. When a new property (website) is added through the Cereus user interface, the user will be guided through a series of processes to confirm ownership of the domain before conducting an audit is authorized. This process is dependent on the plan the customer is subscribed to. Any attempt to scan an unconfirmed domain will be rejected.

The free tier is a highly restricted plan that limits the capabilities of the auditor. This tier is intended for less technical website administrators running a small website through a content management system (CMS). For initial confirmation of ownership of the domain, free tier users will be required to own an email address associated with the domain they are requesting to audit. In many instances, an email such as "webadmin@example.com" are

dedicated to the management of the domain. Once the customer creates the property in the Cereus user interface, they can then request a validation email be sent to their inbox with a confirmation link. When confirmed, the customer will be provided an HTML metadata tag to be included on the pages they would like to be scanned.

In the event the property on the free tier expires or is sold, Cereus will no longer be able to audit the website due to the metadata tags not being present on the site.

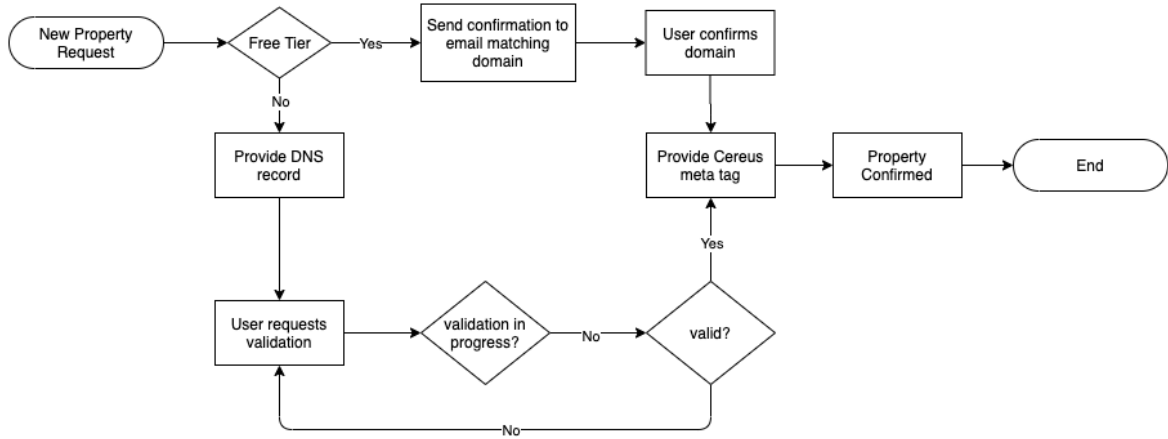


Figure 3.1: Property confirmation system - The Cereus website confirmation system to ensure the organization owns the domain prior to scanning.

All additional tiers offer unrestricted access to Cereus’s services, which can provide insights into the privacy operations of the company. To confirm ownership of the property, a TXT DNS record defined by Cereus’s systems will be provided to the client. In the event a domain is acquired by a new party, through the sale or expiration of the domain, Cereus will lock access to previous reports and disable auditing services when the TXT DNS record is no longer present. The initial client who set up the domain in Cereus will be notified of the change and can re-validate if the DNS record was removed by mistake.

3.1.2.2 Crawler

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