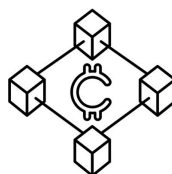


REVOLUTIONIZING DATA STORAGE: INTRODUCING DECERTA'S DECENTRALIZED CERTIFICATION AND DOCUMENTATION SYSTEM THROUGH WEB5.0



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Revolutionizing Data Storage: Introducing DeCerta's Decentralized Certification and Documentation System Through Web5.0

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Abstract

In an age where data breaches and privacy concerns have become pervasive, the need for secure and innovative data storage solutions is paramount. This white paper introduces DeCerta, a groundbreaking decentralized certification and documentation system. DeCerta addresses the vulnerabilities of centralized data storage by adopting a hybrid approach that fragments and distributes data across a network of nodes, fortified by blockchain's immutability. This ensures enhanced data security, privacy compliance, and mitigated breach risks. DeCerta's innovative design empowers individuals and businesses alike, restoring control over data while aligning seamlessly with the principles of Web5.0. Through industry applications and transformative impact, DeCerta sets new standards for data storage, heralding a digital future anchored in trust and privacy.

Keywords: Data Privacy, Decentralized Certification, Web5.0 Technology, Blockchain Security, Hybrid Data Storage, Digital Trust

Revolutionizing Data Storage with DeCerta's Decentralized Certification and Documentation System

In an age where the digital realm is woven into the fabric of our lives, the importance of secure and private data storage has never been more critical. Traditional methods of centralized data storage, prevalent in the Web2.0 era, have shown their limitations through a slew of high-profile data breaches, privacy infringements, and a loss of user control over personal information. The need for a paradigm shift in the way data is stored and accessed has become undeniable.

Enter **DeCerta**, a trailblazing solution that merges the cutting-edge power of Web5.0 technology with the robust security of blockchain. In this white paper, we delve into the core challenges presented by Web2.0 vulnerabilities and introduce the revolutionary approach offered by DeCerta to tackle these concerns head-on.

By embracing a novel hybrid approach to data storage, DeCerta endeavors to reshape the landscape of information security. Our innovative system shatters the confines of traditional centralization, distributing data across a network of nodes while harnessing the transparency and immutability of blockchain. This

dynamic blend results in a secure and privacy-centric ecosystem that restores the user's rightful ownership of their data.



Figure 1. Logo of DeCerta

In the following sections, we explore the intricacies of the data security conundrum, showcasing how DeCerta's forward-looking technology lays the foundation for a safer, more secure digital world. From its technical underpinnings to the manifold benefits it extends to businesses and individuals, this white paper sets the stage for a transformative shift in how data is

perceived, managed, and protected.

The Problem: Web2.0 Vulnerabilities

The Web2.0 era brought us unprecedented connectivity and information sharing, but it also exposed glaring vulnerabilities in the way data is stored and managed. Centralized data storage, a hallmark of this era, concentrates vast amounts of information within single points of failure, making them lucrative targets for malicious actors. High-profile data breaches have become all too common, tarnishing reputations, eroding trust, and leaving individuals and organizations grappling with the aftermath.

Furthermore, the erosion of privacy has been a mounting concern. User data, once stored within centralized silos, is often exploited for targeted advertising, surveillance, and unauthorized access. The breach of personal privacy has given rise to a palpable disconnect between the convenience of digital interactions and the nagging fear of exposure.

Traditional solutions have fallen short in mitigating these challenges, leaving a pressing need for innovation in the data storage landscape. As industries and individuals grapple with these vulnerabilities, the evolution towards a more secure, decentralized approach becomes not only prudent but imperative.

The Solution: DeCerta's Innovative Approach

Amidst the challenges posed by Web2.0 vulnerabilities, DeCerta emerges as a beacon of innovation, poised to transform the data storage paradigm. At its core lies a revolutionary approach that leverages Web5.0 technology and blockchain, forging a path towards unparalleled security and privacy.

DeCerta's solution is elegantly simple yet technologically sophisticated. By decentralizing data storage, we shatter the single-point vulnerabilities inherent in Web2.0's centralized systems. Our approach involves fragmenting data into distributed packets, each encrypted and stored across a network of nodes. This dynamic distribution, coupled with blockchain's cryptographic integrity, engenders a robust shield against unauthorized access, breaches, and tampering.

Moreover, DeCerta introduces a novel concept in the form of hybrid storage. While data fragmentation enhances security, blockchain augments it further by anchoring key cryptographic information. This dual-layered approach amplifies resilience, ensuring data

availability even in the face of unforeseen challenges.

The implications are profound: DeCerta's innovative solution bridges the chasm between digital convenience and data security. Users can confidently entrust their sensitive information to a platform designed to prioritize privacy, restoring control over their digital footprint.

Key Features of DeCerta

DeCerta stands as a trailblazer in data storage, harnessing a suite of pioneering features that redefine the landscape of security and privacy. The trademark "DeCerta" has been approved by the Turk Patent and Trade Mark Institute as given in the figure below:



Figure 2. Trade Mark of DeCerta approved by the Turkish Patent and Trade Mark Institute

1. Hybrid Storage for Unparalleled Resilience

DeCerta's revolutionary hybrid storage model is the cornerstone of its strength. By fragmenting data and distributing it across a network of nodes, the system eradicates single points of failure, minimizing breach risks. Complementing this approach is the robust security of blockchain technology, which fortifies the system's defense against threats. The fusion of these elements creates a landscape that is adaptive, resilient, and fortified against even the most sophisticated attacks.

2. Privacy Assurance: Empowering User Control

With decentralization at its core, DeCerta empowers users with unmatched control over their personal information. Data fragments remain encrypted, accessible exclusively through the owner's crypto wallet. This heightened level of user control reinstates ownership of sensitive information, offering a renewed sense of trust in the digital realm. Access to data is not only secure but also tailored to the user's discretion, fostering privacy in a way that traditional systems cannot match.

3. Data Integrity Anchored in Blockchain

Blockchain, renowned for its cryptographic integrity, intertwines seamlessly with DeCerta's architecture. Each data fragment is anchored to a blockchain record, forging an unbreakable link between decentralized storage and an immutable ledger. This linkage ensures data integrity, creating an unequivocal history of modifications. Whether for compliance purposes or internal audits, DeCerta's utilization of blockchain instills unwavering confidence in the veracity of stored data.

4. Seamless Retrieval and Accessibility

DeCerta offers a seamless retrieval process for users. Data can be accessed through a user-friendly website interface or via the Saymatik Web3.0 wallet, ensuring a hassle-free experience. This accessibility eliminates barriers to entry, enhancing user engagement and satisfaction.

5. Tailored Search Capabilities

The integration of a robust search engine within DeCerta amplifies user efficiency. With this feature, data visibility settings come to the forefront. If data visibility is set to "open," the search engine can query data through the owner's crypto wallet address. This feature enhances transparency and simplifies data retrieval, even in complex storage scenarios.

In the ensuing sections, we delve deeper into the practical benefits that these distinctive features bestow upon both individuals and businesses. From bolstering security to redefining digital trust, DeCerta's innovative foundation ushers in an era of data storage marked by resilience, privacy, and accessibility.

Use Cases and Industry Applications

DeCerta's transformative solution reverberates across diverse industries, ushering in a new era of data

security, privacy, and transparency. From finance to healthcare, legal to education, the breadth of its impact is profound.

1. Finance: Safeguarding Sensitive Transactions

In the financial sector, where trust is paramount, DeCerta emerges as a shield against data breaches and fraudulent activities. Personal financial records, transaction histories, and sensitive client information find a fortified haven within DeCerta's secure storage. Bank statements and investment portfolios, once susceptible to unauthorized access, are now guarded by data fragmentation and blockchain encryption, reinforcing digital trust between financial institutions and clients.

2. Healthcare: Elevating Patient Confidentiality

DeCerta finds resonance within the healthcare domain, where patient confidentiality is sacrosanct. Electronic health records (EHRs) and sensitive medical information are meticulously protected, accessible only through authorized crypto wallets. As patients move through different medical facilities, their health history remains secure and intact, ensuring the highest standards of care and privacy.

3. Legal: Fortifying Confidential Documents

Legal professionals entrust DeCerta with confidential documents and sensitive case details. Contracts, intellectual property records, and legal documents are safeguarded by the hybrid storage model, shielding them from unauthorized exposure. Attorney-client privilege is reinforced, empowering legal teams to operate with confidence in a landscape where data security is paramount.

4. Education: Securing Personal Records

In the realm of education, DeCerta safeguards student records, transcripts, and personal data. By granting students control over their information through crypto wallets, DeCerta not only fortifies privacy but also ensures the authenticity of academic achievements. Credential verification becomes streamlined, bolstering the integrity of educational institutions.

5. Personal Use: Redefining Digital Identity

Beyond industries, DeCerta transforms individual digital interactions. Personal documents, family records, and digital assets gain unprecedented protection, ensuring that digital identity remains secure and impervious to unauthorized access. As individuals

engage online, they do so with the assurance that their data is shrouded in layers of encryption and blockchain immutability.

Through these real-world scenarios, the impact of DeCerta's solution is tangible. By addressing industry-specific vulnerabilities and enriching privacy, DeCerta redefines data storage across sectors, granting individuals and organizations the power to embrace the digital age without compromise.

Technical Implementation

DeCerta's technological underpinning is a harmonious fusion of Web5.0 innovation and the security of blockchain technology. This synergy creates a robust framework that redefines data storage, accessibility, and integrity.

Web5.0 and Blockchain: The Pillars of DeCerta's Innovation

At the core of DeCerta's architecture lies Web5.0, an evolution of the internet that emphasizes user-centricity, privacy, and security. This paradigm shift introduces decentralized principles, paving the way for enhanced user control over their digital interactions. Complementing Web5.0's ethos is the utilization of blockchain technology. Blockchain, renowned for its immutability and cryptographic safeguards, anchors DeCerta's data storage by ensuring data integrity and enabling secure access.

Hybrid Storage: Fortifying Resilience and Availability

DeCerta's hybrid storage model is a testament to its resilience-focused design. Data fragmentation splits information into encrypted fragments, which are then distributed across a network of nodes. This distribution eliminates the risk of a single point of failure, as no single node holds complete data. Each fragment is linked to a blockchain record, creating an immutable bond between the decentralized storage and the unalterable ledger.

The hybrid storage approach facilitates data redundancy by design. In the event that one node encounters an issue, the remaining nodes collectively ensure the availability of the data. This not only enhances data accessibility but also minimizes downtime risks. Furthermore, blockchain's transparency ensures that data integrity is maintained, even if a single fragment is accessed.

As users retrieve their data, the hybrid storage model seamlessly assembles the fragments through the user's authorized crypto wallet. This process provides not only robust security but also a streamlined experience for users, eliminating complexity from the equation.

Through this synthesis of Web5.0 principles, blockchain's cryptographic assurances, and the hybrid storage model's redundancy, DeCerta's technology not only addresses industry challenges but also fosters a new era of data storage. This technical prowess empowers users to interact confidently with their digital footprint, assured that their data remains intact, private, and secure.

Benefits for Individuals and Businesses

DeCerta's groundbreaking solution is not only an innovation in data storage but a catalyst for tangible advantages that resonate with both individuals and businesses across various sectors.

1. Enhanced Data Security

At the forefront of DeCerta's value proposition is its unparalleled data security. The hybrid storage model and blockchain integration fortify data against breaches and unauthorized access. By dispersing data across nodes and anchoring it in an unalterable blockchain ledger, the risk of a single point of failure is eradicated. This approach dramatically reduces vulnerabilities, ensuring that sensitive information remains shielded from cyber threats and malicious actors.

2. Privacy Compliance Reinforcement

DeCerta aligns seamlessly with evolving data protection regulations and privacy mandates. The solution's hybrid storage model and encrypted fragmentation ensure compliance with data privacy regulations. Users retain control over their data, granting explicit permission for access through their crypto wallets. This level of control ensures that organizations adhere to privacy standards and avoid the legal pitfalls associated with data mishandling.

3. Mitigated Breach Risks

The prevalence of data breaches and cyberattacks underscores the critical need for robust security measures. DeCerta's decentralized architecture and encryption significantly reduce the risk of breaches. In the unlikely event that a node is compromised, only fragments of encrypted data are exposed, rendering the information meaningless without the corresponding

crypto wallet. This unique approach minimizes the impact of breaches and safeguards both personal and business-critical data.

4. Streamlined Digital Trust

For businesses, DeCerta is a gateway to cultivating digital trust. By leveraging DeCerta's advanced security mechanisms, businesses can demonstrate their commitment to safeguarding customer data. This commitment fosters a sense of trust and loyalty among clients, enhancing brand reputation and customer relationships.

5. Unparalleled Data Accessibility

DeCerta's hybrid storage architecture optimizes data accessibility while maintaining security. Authorized users can seamlessly retrieve their data fragments through their crypto wallets, eliminating the complexity associated with traditional authentication processes. This balance between security and accessibility enables efficient data interactions without compromising on protection.

6. Seamless Integration

DeCerta seamlessly integrates into existing workflows and systems. Its user-friendly interface ensures a smooth transition for individuals and businesses, negating the need for extensive training or operational changes.

In conclusion, DeCerta empowers both individuals and businesses with a data storage solution that transcends security norms, enhances privacy compliance, and fosters a digital ecosystem built on trust and transparency. As industries navigate an increasingly digital landscape, DeCerta stands as a cornerstone of data security and privacy, offering benefits that extend far beyond traditional storage methods.

Market Trends and Demand for Data Security

The contemporary landscape of data storage is undergoing a seismic shift, driven by evolving market trends and an insatiable demand for heightened data security. The rising tide of cyber threats, data breaches, and privacy infringements has ignited a fervent call for innovative solutions that can restore trust in digital interactions.

1. Escalating Data Breaches

The proliferation of high-profile data breaches continues to capture global attention, leaving

businesses and individuals vulnerable to devastating financial and reputational losses. Recent incidents underscore the urgency of a solution that can mitigate breach risks and fortify data against unauthorized access.

2. Stringent Data Protection Regulations

Stringent data protection regulations such as GDPR and CCPA mandate meticulous handling of personal data, imposing substantial fines for non-compliance. Organizations are seeking secure storage solutions that align with these regulations, safeguarding them from regulatory backlash and financial penalties.

3. Pervasive Privacy Concerns

Growing public awareness of digital privacy rights has given rise to heightened privacy concerns. Individuals are increasingly wary of entrusting their personal information to centralized entities, gravitating towards solutions that empower them with greater control over their data.

4. Digital Transformation and Industry Resilience

The ongoing digital transformation across industries necessitates an overhaul of data storage methodologies. As businesses pivot towards remote work and embrace digital ecosystems, the demand for robust, decentralized data storage solutions becomes paramount to ensure resilience against cyber threats.

5. Emergence of Web3.0 Ideals

The ascent of Web3.0 principles, emphasizing decentralization, transparency, and user empowerment, is steering the technological trajectory towards secure and privacy-centric solutions. DeCerta's Web5.0 approach aligns seamlessly with these ideals, positioning it at the forefront of a technological shift.

6. Evolution of Blockchain Technology

Blockchain technology, initially associated with cryptocurrencies, has transcended its origins to find applications in diverse sectors. Its reputation for immutability and cryptographic integrity positions it as a linchpin of secure data storage, amplifying the demand for solutions like DeCerta.

7. Heightened Sensitivity to Digital Trust

As users become increasingly discerning about the digital platforms they engage with, the concept of digital trust assumes paramount importance. The

market is primed for solutions that empower users with control over their digital interactions and instill confidence in the security of their data.

In this environment characterized by data breaches, regulatory mandates, and privacy concerns, DeCerta emerges as a timely solution that satisfies the growing appetite for secure and decentralized data storage. The convergence of these market trends underscores the urgency of a transformative solution that can rewrite the rules of data protection, engendering a landscape where security, privacy, and trust coalesce harmoniously.

Early Market Engagement and Interest

Gauging early market demand and interest is pivotal in shaping a successful product launch strategy. DeCerta employs a comprehensive approach to assess enthusiasm and readiness within the target audience even before the product enters the market.

1. Waitlist Sign-Ups:

DeCerta offers potential users the opportunity to join a waitlist. This foundational method provides a tangible measure of initial interest. As individuals sign up, we accumulate a database of prospective users who are eager to explore the solution once launched. The growth of this waitlist serves as a vital indicator of the product's appeal and anticipated adoption.

2. Engagement with Educational Content:

Educational content, including blog posts, webinars, and explanatory videos, is designed to articulate DeCerta's value proposition and benefits. Tracking engagement metrics such as downloads, views, comments, and shares offers insights into the resonance of the content with the target audience. A high engagement rate indicates an interest in understanding the solution's nuances.

3. Website Traffic and Conversion Rates:

The official DeCerta website (decerta.scimatic.net) acts as a digital hub for information dissemination. Monitoring website traffic and analyzing conversion rates for actions like signing up for updates or requesting more information provides insights into user intent and engagement. A surge in web traffic and healthy conversion rates suggest a growing curiosity about the solution.

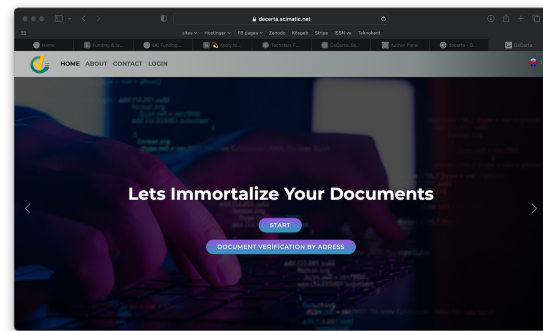


Figure 3. Website of DeCerta - decerta.scimatic.net

4. Social Media Interaction:

Social media platforms offer an interactive arena to showcase DeCerta's vision and engage with potential users. Metrics like follower growth, post engagement, shares, and mentions serve as a barometer of the solution's resonance in the digital sphere. High engagement and interaction denote a receptive audience.

5. Inquiries and Information Requests:

As individuals seek additional information or pose queries, their engagement signifies a genuine interest in understanding DeCerta's capabilities. Monitoring the volume of inquiries and requests provides a qualitative understanding of the audience's curiosity and intention.

6. Partnership Agreements or LOIs:

Engaging in discussions with potential partners or clients often results in agreements like Letters of Intent (LOIs) or Memorandums of Understanding (MOUs). These agreements demonstrate the willingness of external stakeholders to collaborate or adopt the solution upon launch.

7. Market Research and Focus Groups:

Conducting market research and hosting focus groups allows us to gather direct feedback from potential users. Their insights help us refine our value proposition and tailor our messaging to align with their needs.

8. Industry Recognition and Press Coverage:

Being featured in industry publications or garnering positive press coverage validates the solution's novelty and relevance. Such recognition not only amplifies visibility but also serves as an indicator of the

solution's resonance within the market.

Collectively, these methods and indicators form a mosaic of early market engagement, offering valuable insights into the readiness of the target audience and the potential demand for DeCerta's transformative solution.

Path to Implementation and Adoption

DeCerta's journey from inception to widespread adoption is guided by a strategic roadmap that encompasses vital components such as partnerships, marketing, and customer acquisition. This roadmap is designed to propel DeCerta into the forefront of the data storage landscape.

1. Strategic Partnerships:

Forming strategic partnerships with established industry players is a cornerstone of our strategy. Collaborating with tech firms, financial institutions, and other sectors where data security is paramount positions DeCerta as a transformative solution. These partnerships facilitate integration, amplify market reach, and lend credibility to the solution.

2. Targeted Marketing Campaigns:

Leveraging comprehensive market research, DeCerta will roll out targeted marketing campaigns that spotlight the solution's unique features and benefits. Tailoring messages to resonate with specific industries and pain points ensures that our value proposition strikes a chord with potential users.

3. Educational Content Dissemination:

Educational content, including blog posts, webinars, and tutorials, will be disseminated to inform and engage the audience. These resources serve to articulate DeCerta's technological prowess, addressing common concerns and showcasing real-world use cases.

4. Engagement in Industry Events:

Participating in industry events, conferences, and exhibitions provides an avenue to showcase DeCerta's innovation. Engaging with key stakeholders and thought leaders fosters valuable connections, garners interest, and positions DeCerta as a prominent player in the data security arena.

5. Customer Acquisition Strategy:

DeCerta's customer acquisition strategy hinges on tailoring approaches to specific industries. For instance, in finance, DeCerta emphasizes the safeguarding of financial records, while in healthcare, it underscores patient data privacy. Personalized outreach, demonstrations, and proof-of-concept initiatives will be deployed to address distinct sector requirements.

6. Early Adopter Programs:

Rolling out early adopter programs allows select users to experience DeCerta firsthand before the official launch. These programs generate valuable feedback, refine the solution's usability, and create brand ambassadors who can vouch for its efficacy.

7. User Onboarding and Support:

Simplifying user onboarding is critical to ensure a seamless transition. Intuitive interfaces, tutorials, and responsive support channels will be in place to address any queries and alleviate potential adoption challenges.

8. Continuous Iteration and Enhancement:

Post-launch, DeCerta's roadmap extends to continuous iteration and enhancement. Feedback from early adopters and ongoing market trends will drive updates that keep DeCerta at the forefront of innovation.

By orchestrating these components into a cohesive roadmap, DeCerta is poised to navigate the path to successful implementation and widespread adoption. This strategic approach maximizes visibility, user engagement, and industry recognition, paving the way for DeCerta's transformational impact on the data storage landscape.

Future Prospects and Industry Impact

DeCerta's journey is not confined to immediate success; it extends to a vision of a reimagined data storage landscape, intertwined with the evolution of the Web5.0 era. This vision encompasses profound long-term impact and transformative changes across industries.

1. A Paradigm Shift in Data Storage:

DeCerta stands poised to lead a paradigm shift from centralized to decentralized data storage. As more industries and individuals recognize the vulnerabilities of traditional models, DeCerta's approach offers a blueprint for a more secure, privacy-centric future.

2. Revitalized Digital Trust:

Digital trust is the cornerstone of DeCerta's impact. As users and businesses experience the security and privacy bestowed by the solution, trust in digital interactions will undergo a revival. This resurgence of trust has the potential to reshape digital relationships, enabling more seamless and secure online engagement.

3. Blockchain's Expansive Role:

DeCerta's integration of blockchain technology extends beyond data storage. The immutable ledger's potential spans industries like supply chain, finance, and more, enhancing transparency and traceability. DeCerta's embrace of blockchain acts as a microcosm of the larger impact this technology can have across sectors.

4. Empowering Data Ownership:

DeCerta's restoration of data ownership is a transformative feature. By granting users control over their information, a new digital equilibrium is established. This empowerment empowers users to confidently navigate the digital realm, knowing their data is secure and private.

5. Driving Web5.0 Ideals:

DeCerta's alignment with the Web5.0 ethos is pivotal. As Web5.0 gains prominence, decentralized, user-centric solutions become integral to the digital fabric. DeCerta's impact lies not only in its immediate innovation but also in its role as a torchbearer for the values Web5.0 champions.

6. Cross-Industry Resilience:

DeCerta's adoption spans industries, from finance to healthcare, education to legal. Its impact is ubiquitous, providing a common thread of security, privacy, and trust that resonates across sectors. As industries transform digitally, DeCerta's impact is poised to be universal.

7. Cultivating Digital Integrity:

Through its hybrid storage and blockchain integration, DeCerta reinforces digital integrity. This integrity is a keystone for industries battling data breaches, fostering an environment where information remains untainted and reliable.

In the horizon of DeCerta's trajectory lies a future

defined by secure, decentralized data storage, where individuals and businesses coexist harmoniously with their digital identities. The solution's far-reaching impact is not just in its adoption but in the cultural shift it triggers—a shift towards a digital realm grounded in security, privacy, and trust, mirroring the ideals of the Web5.0 era.

Prototype usage

Prototypes of DeCerta have been launched on both a website (decerta.scimatic.net) and within the Saymatik Web3.0 wallet. The designated payment currency is SCI coins, the primary coin of SciMatic Hybrid Blockchain (scimatic.net). The required amount of SCI coins is contingent upon the file's size.

1. Upload document

On the website, the upload process entails three options: specifying a document name, providing a description, and indicating whether the document should be kept confidential or made accessible to the public.

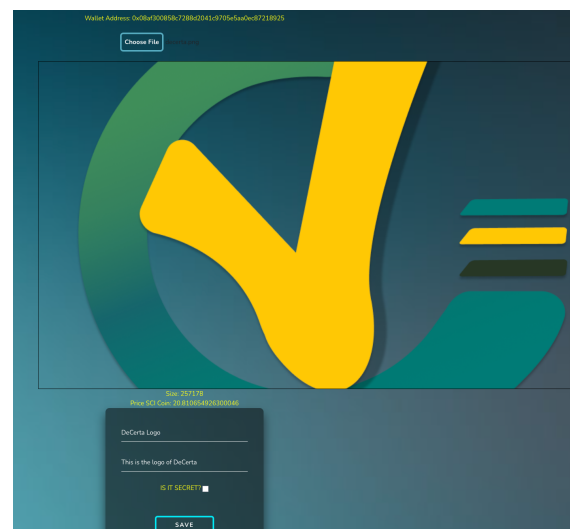


Figure 4. Upload documents to DeCerta - provide name and discription

After providing all the required information, the website will guide you to the payment system through Metamask. Ensure you have the Metamask extension installed in your browser, have created an account, and configured the SciChain network. To configure the SciChain network, utilize the following information:

- Name: SciNet
- RPC: <https://chain.scimatic.net>
- explorer: <https://explorer.scimatic.net>
- Coin Name: SciMatic Coin

- Symbol: SCI
- Network Id: 481

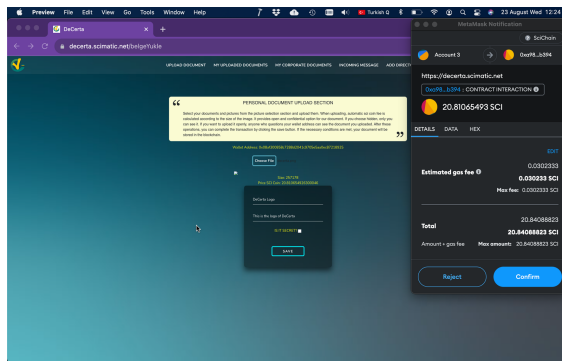


Figure 5. Approve the upload process with MetaMask wallet paying SCI Coins of SciMatic Hybrid Blockchain

2. Download document

Navigate to the menu and select "Documents Uploaded." From the list, choose the desired document. Then, click the "Download" button to access the document.

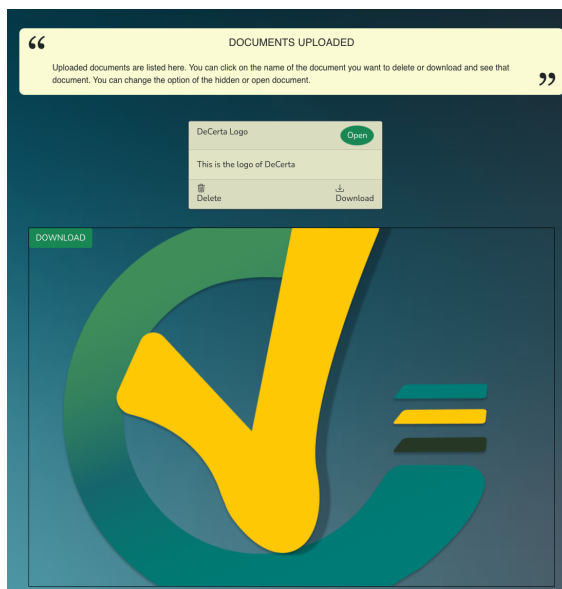


Figure 6. Download window with options to delete the document or change the visibility

3. Search engine

If the document is uploaded as non-confidential, it can be located using the search engine at <https://decerta.scimatic.net/onay>. By pasting the wallet address of the owner into the search window, any documents that the owner has made public will become visible.

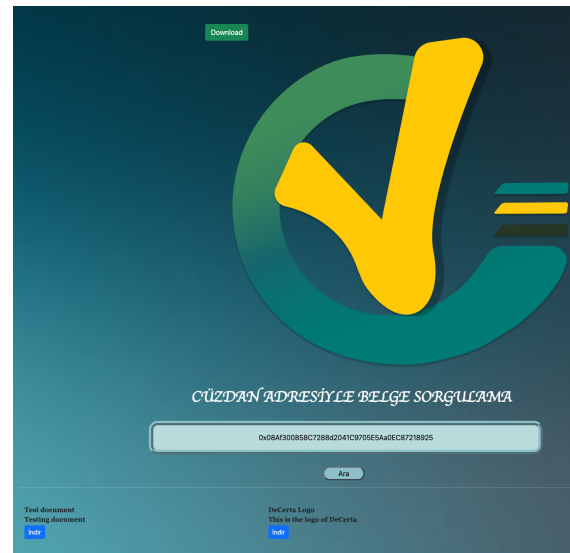


Figure 7. Find the document in search engine at decerta.scimatic.net/onay using the owners wallet address

4. DeCerta in Saymatik Web3.0 Wallet

In addition to the website, DeCerta can also be accessed through the Saymatik Web3.0 Wallet mobile application. This app is available on both the App Store and Google Play Store. The process remains consistent. You'll need to have a wallet and SCI coins, acquired from scimatic.net or any third party. Once in the Saymatik wallet, access DeCerta by clicking the top-left menu. Here, you'll find two options for document upload: capture a photo using your camera or select from your gallery. If your uploaded image surpasses the allowed limit, you can resize it in your gallery. Alternatively, sending it through WhatsApp will automatically reduce its size.

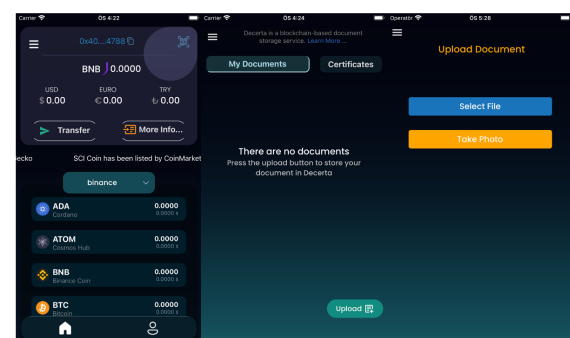


Figure 8. DeCerta in Saymatik Web3.0 wallet

Conclusion

In a world where data breaches and privacy concerns loom large, DeCerta emerges as a groundbreaking solution, redefining data storage norms. This white

paper has introduced a revolutionary hybrid storage model that fragments and disperses data across a network of nodes, underpinned by blockchain's immutability.

The key takeaway is clear: DeCerta empowers individuals and businesses by enhancing data security and privacy. Its innovative approach restores control to users through decentralized storage, safeguarding personal information. This model ensures data integrity and availability, even in the face of challenges.

DeCerta's impact spans industries, from finance to healthcare, education to legal. It aligns perfectly with the ideals of the evolving Web5.0 era, championing decentralization and trust. Its significance extends beyond technology – it reshapes how we view data, setting higher standards for security and privacy.

By addressing the vulnerabilities of centralized data storage, DeCerta paves the way for a safer digital future. It's not just a solution; it's a symbol of trust, changing the narrative of how we safeguard information and interact online. DeCerta's legacy is its ability to redefine the digital landscape, ensuring privacy and trust for generations to come.

Acknowledgements

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Bibliography

DeCerta Website: <https://decerta.scimatic.net/>

DeCerta document verification: <https://decerta.scimatic.net/onay>

Saymatik App Store: <https://apps.apple.com/hr/app/saymatik-web3-0-wallet/id6444104653>

Saymatik Google Play Store: <https://play.google.com/store/apps/details?id=com.scimatic.saymatik&ref=apkcombo.com>

To Buy SCI Coins using credit card: <https://scimatic.net/en/sale/0> (provide your Saymatik Wallet Address while buying).

SciMatic Hybrid Blockchain main page: <https://scimatic.net/>

Twitter: <https://twitter.com/decerta>

LinkedIn: <https://www.linkedin.com/products/scimatic-decerta-decentralized-certification-system/>

Introductory Video in Turkish: <https://www.youtube.com/watch?v=iD63sv7Ol4s>

F6S page: <https://www.f6s.com/company/decerta>

Facebook page: https://www.facebook.com/profile.php?id=100078510502029&locale=ms_MY

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