St-Georges Eco-Mining Corp.: ZeU File Provisional Patent for Blockchain-Based Secure Email System

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Montreal, March 3, 2019 - St-Georges Eco-Mining Corp. (CSE: SX) (OTC: SXOOF) (FSE: 85G1) is pleased to announce that its subsidiary, ZeU Crypto Networks Inc., has filed a provisional patent for a blockchain-based secure email system. The company has also hired a communication and investors awareness firm specialized in blockchain out of London UK.

Blockchain-Based Email, Reasoning and Mechanics

Email is not as secure as we have allowed ourselves to believe. There are security vulnerabilities in the email servers, email clients, and webmail servers available on the market. The traditional email system authenticates only on the email server according to the user name and password, while the information itself is stored in plain text on the server. Therefore, vulnerabilities in email service can be exploited by malevolent actors to obtain sensitive information contained in the mailbox.

For traditional email system, the transfer of email from sender to recipient goes through multiple computers between the two points. Not only does the user have access to the email, but many other parties like mailbox holders, email service providers, and even the network provider may all have access to the mail and could modify the content of emails without notifying the user. In the current email transmission process, the content data is encapsulated in clear text and is exposed to universal ports, making the data easily intercepted. The email data information could be seized by monitoring network, equipment or software.

In addition to access security factors, the data of email systems is stored centrally; vulnerabilities in the email storage service may leak important mail information or lead to the tampering of emails. Failure of email services, either through software or hardware failures, may also lead to a loss of important emails. After accessing the computer through these vulnerabilities, the intruder can readily obtain the email address and the corresponding username, password and the content of emails. If there is an email address book, it can also get the contact information of those people. There are also vulnerabilities in some email clients. Intruders can inject a Trojan Horse into special format emails. The user then executes the Trojan Horse when the email is opened, creating a potentially dangerous security risk.

The Solution: a New Technology Being Patented

The combination of blockchain technology and email technology can effectively solve these problems. The blockchain authenticates the sender and the recipient of the blockchain email. This authentication cannot be forged. All content and attachments are encrypted with the other party's encryption key and stored on the distributed storage service. Third parties cannot obtain all of the data; should the data be illegally retrieved, it is not possible to decrypt the corresponding data without the appropriate key. All email content and attachments are processed, signed by the sender to generate fingerprint information, and stored in the blockchain, which means the sender's public key can verify the email for accuracy at any time. The recipient decrypts the data using their private key and verifies the data fingerprint on the blockchain to ensure that the data is not altered or forged. This fully distributed decentralized email system can fundamentally guarantee the security of email.

In the real world, it is almost impossible for all users to utilize the same blockchain system. Therefore, there are multiple alliance chains that do not interact with each other. However, as an email system, it is imperative to provide cross-chain email interoperability, as well as blockchain email and communication with regular Internet email. When interacting with ordinary mailboxes, information security issues are not covered in this patent because ordinary mailboxes are transmitted or stored in plain text; however, we can still use the blockchain feature to guarantee the authenticity of all sent or received messages. Furthermore, for blockchain-to-blockchain mailboxes, the email transmission will be encrypted end to end, and only the authorized recipient can read the mail.

The Patent

The patent filed by ZeU describes a complete blockchain email system that supports both internal and cross-chain emails with the potential to interact with non-blockchain email systems.

Through this method, as long as the sender or the recipient of the email is a blockchain mailbox, the email information will be recorded in the blockchain to ensure the authenticity of the email. Moreover, when blockchain mailboxes exchange messages, the email information will be encrypted and stored in distributed storage; only the recipient can obtain the unique cypher key and storage location of the email, thereby ensuring the security of email transmissions.

Plan for deployment and monetization

Low costs of community development and support

ZeU management is planning to release later this year an open-source version of its email distributed application. A free version allowing individual and corporations to use the platform will be distributed and the company will support groups of developers interested in cross-integration and improvement of the platform.

Data monetization and Product-Oriented Token (POTS)

This free version will allow ZeU, using Vn3t data trading approach, to monetize part of the data exchanged in the email communications for third party resell and/or trading on the Borealis platform. The groups of developers will be incentivized with payments from the email utility token to be created. Individuals or corporations who will want to use the platform but opt-out of selling their data and personal information will be allowed to do so by paying a recurring fee through the utility token. The company is currently reviewing the regulations that will allow this commercial model to be deployed and its obligations to air-drop a portion of the token to be minted to its shareholders and debentures holders.

St-Georges Eco-Mining being the single largest shareholders of ZeU might also be allow to divest of the token or to dividend it to its shareholders if and when authorized to do so by the relevant regulators. The model favorized by management to introduce this utility token is not the one of an ICO (initial coin offering) but of a Production-Oriented Token sale (POTS), linked directly to the deployment and usage of the email platform.

ZeU Retained the services of Cassiopeia Services Ltd

Cassiopeia Services a leading UK-based boutique Investor & Public Relations agency, awarded both ADVFN Best International Investor Relations Firm 2018 and Best Employer Small Medium Enterprises 2017 by University of Westminster (London, UK). Founded by Stefania Barbaglio in early 2015, Cassiopeia Services quickly established itself as one of the leading boutique PR and IR firms, becoming a key reference point for HNWIs and private investors in the United Kingdom. Cassiopeia is thriving in the booming blockchain and crypto world. With multiple clients working on innovative projects powered by new technologies in different industries: from commodities to financial markets, payments, social media, digital identity and cybersecurity, Cassiopeia offers smart campaigns and highly specialised media, PR and IR consultancy. For more information visit Cassiopeia's website: https://www.cassiopeia-ltd.com

Cassiopeia services will be retained for an initial period of 1 year renewable under the same term for another year. Cassiopeia will be paid ?5,000 per financial quarters and will received 50,000 options of ZeU exercisable at the price of $1.00 per share option. A parallel mandate linked to the communication and marketing of token trading initiatives spearheaded by ZeU and its clients will allow the firm to receive in the future an additional CAD $50,000 worth of ZeU debentures under the same term than the debentures issued in July 2018 being a $1.00 per share conversion up to the first liquidity event and the maximum discounted by regulations afterward based on 5 days of VWAP trading data with a minimum floor price of CAD $1.00

ON BEHALF OF THE BOARD OF DIRECTORS

"Frank Dumas"
FRANK DUMAS, DIRECTOR & COO, ST-GEORGES ECO-MINING
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