

ABSTRACT

MULTICAST ENCRYPTION SCHEME FOR DATA-OWNERSHIP PLATFORM

Disclosed herein are embodiments for implementing periodic management of cryptographic keys. An embodiment includes a processor configured to perform operations comprising receive a first input associating a first set of subscribers with a first data stream published by the first publisher device, and a first cryptographic key. Processor may transmit, to the first publisher device, a first confirmation, indicating that the first cryptographic key is ready for use, for example. In some embodiments, processor may release the first cryptographic key to a first set of subscribers, receive a second input from a publishing user, associating a different, second set of subscribers with the first data stream, and receive a second cryptographic key after a certain time period. Processor may further transmit, to the first device, a second confirmation, indicating that the second cryptographic key is ready for use, and release the second cryptographic key to the second set of subscribers.

(fig. 2)