# CryptoSeal (CSS100)

## PRODUCT BROCHURE

The CryptoSeal is a cryptographic, blockchain-compatible, NFC-enabled, tamper-proof seal that allows customers to secure the content of packages and containers, ensure that equipment is not opened, modified and tampered with. Tampering results in permanent damage of the circuitry which prevents NFC verification of the seal. The Chronicled platform allows to register the unique identity of the CryptoSeal on the blockchain and record any transaction generated by whoever scans and verifies it on an immutable ledger. The CryptoSeal is an innovative solution to ensure that content is genuine and to verify its provenance. Using the CryptoSeal, customers can quickly deploy solutions for authenticity, provenance, and supply chain.

## Features

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| NFC support | Compliant with ISO/IEC 14443 | Verification protocol compliant with NIST PIV technical specifications (SP 800-73-4) |
| Banking-level security with Common Criteria EAL 5+ certification | Seal tamper-proofing via visual features and electronic verification | Cryptographic identity based on RSA |
| Blockchain support via open sourced SDK and Chronicled API | Integrated with Chronicled platform for easy deployment | Power-efficient, high-speed crypto coprocessor |
| Browser support via NDEF | Self generation of secrets for no disclosure of private keys | Administration Dashboard available for easy management |
| Configurable Android and iOS Apps and Widgets available for end user applications | Availability of customized options, including size and tamperproofing methods | Dimensions: 4”, 8”, 12”, 18”, 24”, 48” |

# Applications

Supply Chain

Trade Finance

Insurance

Equipment Integrity

Warranty

## Seal your packages, containers or equipment

Once you seal some content or equipment, you can use the Chronicled App to register each item or the Chronicled Dashboard to batch register a large shipment. Each seals provides the item with an unforgeable identifier that links it to the blockchain.

## Provenance tracking

Using the Chronicled App, anybody can verify the integrity of the the seal and sign a verification record in the unforgeable ledger based on the blockchain. Access rights to the ledger can be configured to allow only specific participants to the system to write provenance transactions to the ledger, and to authorize participants to read specific transactions. The architecture is ideal to implement an open system for supply chain while maintaining privacy and protection against competitive analysis.

## Integrate existing system and equipment

An API is available to automate and streamline packaging or tracking on the supply chain. Existing scanning equipment and supply chain software can easily commit the acquired information to the ledger.

## Pricing

Contact us for a quotation: sales@chronicled.com.