



SIX DEGREES COUNTERFEIT PREVENTION, LLC.

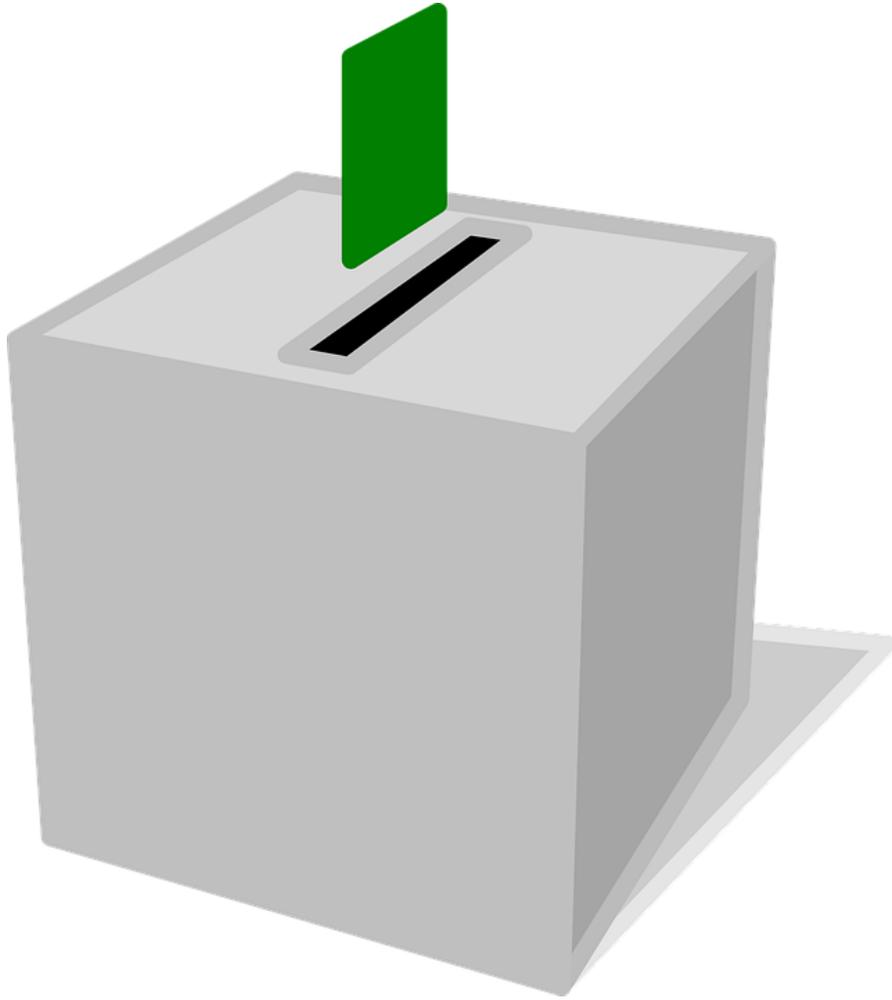
6DCP.com

ABOUT US

Six Degrees Counterfeit Prevention, LLC (6DCP) is a globally recognized anti-counterfeit and document security consultancy firm offering best-in-class solutions for 21st Century problems.

6DCP is an Authorized Distributor for CryptoCodex Ltd., providers of the most secure technology (US Patent No. 8914369) for detecting superfluous, falsified, or adulterated products, for detecting lost/stolen/diverted goods, and is track & trace ready to meet worldwide regulation.





SECURING THE DEMOCRATIC PROCESS



VOTER REGISTRATION CARD

בחירות לכנסת התשע-עשרה
התשע"ג-2013

שולם
P.P.
7093

השולח:
משרד הפנים
ירושלים

נא להחזיר ל-א.ד. הפצות,
רחוב היצירה 11,
קרת ארזה, פתח-תקווה

ליאת

שם המספחה	השם הפרטי	שם האב

שם הרחוב ומס' הבית

שם הרחוב	מס' הרחוב	שם הישוב	מיקוד
1304	019.0	0374	1274895

מס' סדורי בקלפי / מס' הקלפי / סמל הישוב

חט"ב יהלום
הקשת
שוהם

9595 600-931-000

לא ידוע
עוב
מען בלתי מסמיק

אחר
תאריך
שם הדזור
חתימת
אמוד



THE PAYLOAD

Encrypted MDLE QR Code contains ½ of the decryption [Alpha] key, and a key ID

Encrypted MDLE NFC chip embedded in the document contains the voter's personally identifiable information, image, voting location details, and other relevant information

AT THE VOTING LOCATION

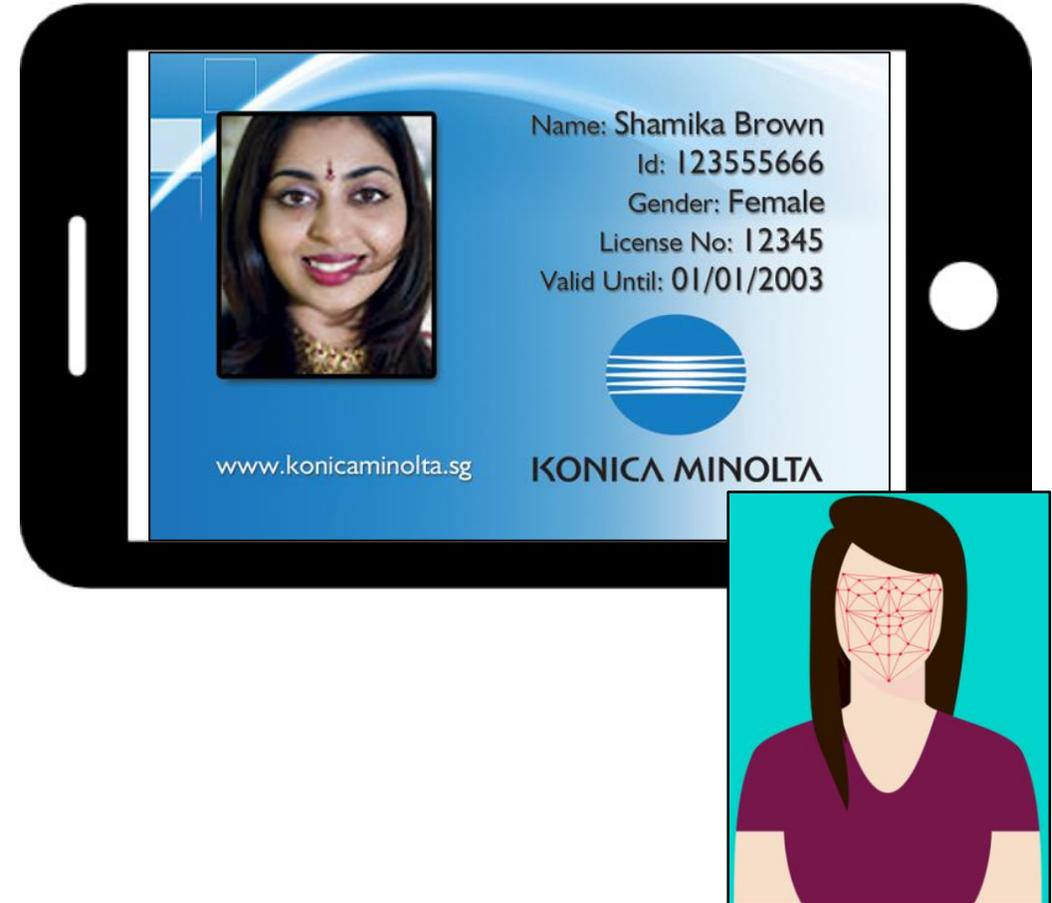
A registered handheld NFC device preloaded with the other ½ of the decryption [Beta] key scans the MDLE Encrypted QR Code and NFC on the registration card

The software on the device processes the Alpha key, Beta key, and encrypted payload secured in the QR Code and NFC. If the QR Code does not scan, the document is a forgery. Each MDLE Encrypted QR Code can only be scanned once and only by an authorized handheld device



OFFLINE AUTHENTICATION

Once the content of the MDLE Encrypted QR Code NFC is confirmed, the authorized personnel captures a physical photograph of the voter. The MDLE Encrypted payload secured in the NFC and the physical photograph must match in order to receive a ballot and participate in the voting process



RECORDING



Each handheld device is equipped to process authentication requests for the voters registered to their specific voting location only

Each authentication request is recorded on the handheld device. When connected to the internet or returned to the central office, the entire memory is uploaded to the central server

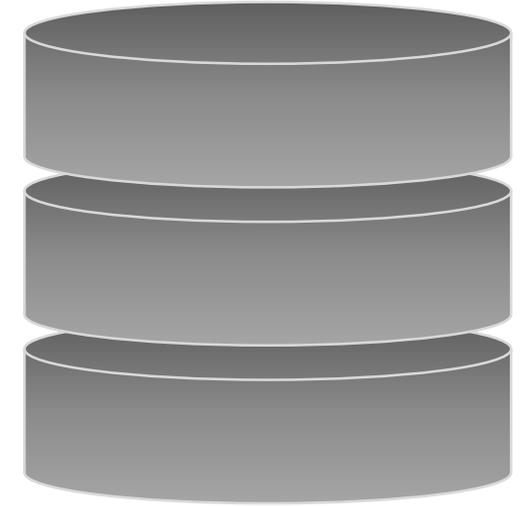
AUTHENTICATION CYCLE



The voter registration card contains the alpha key, key ID, voter's image, and biographical data secured in the MDLE Encrypted QR Code and NFC



The authorized device contains the beta key and authenticates the voter registration card. Authentications requests are processed, confirmed or denied, and recorded on the device in an offline environment



When connected to the internet or later returned to the main office, all data collected by the device is uploaded to a central repository

FAQ's

Is the data secured? Yes. Your data is encrypted using a military grade encryption process within the MDLE QR Code and NFC Chip.

Who can read the data? Only an authorized handheld device equipped with the beta key to decode the payloads in the MDLE Encrypted QR Code and NFC Chip.

What if someone tries to 'spoof' a QR Code and NFC Chip? The authorized handheld device will recognize the document is a fake.

What if someone tries to use somebody else's voter registration card? The authorized handheld device will compare the content of the MDLE Encrypted NFC payload with the physical image obtained by the authorized personnel. If the content does not match, it will identify the attempted breach.

What if someone duplicates the content of the MDLE Encrypted QR Code and NFC Chip to attempt voting more than once? Each voter registration card is permitted for one-time-use only.





TECHNICAL SPECIFICATIONS



MILITARY GRADE ENCRYPTION

Patented encryption (**US Patent No. 8914369**) method that eliminates need to store sensitive information in an online database.

Encryption Key is truly chaotic.

Randomization, or PHR.

PHR is protected against Rainbow Crack, Dictionary Attack, Cryptanalysis and Brute Force.



ENCRYPTION – PERFORMANCE FEATURES

Key Strength - 1 million bit or more

400% faster when compared to AES.

MPU use - Mathematical Process Unit in CPU use 3% - 7%.

+/- 5% overhead of the file from original data set.

Capable of encrypting entire columns of a database (up to 300 characters) into one 2D barcode.

US Patent No. 8914369

www.6DCP.com/WhitePaper.pdf





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C O N T A C T
