

Secure Remote Photo Identification With ID card





Keith Jentoft 888-456-0425 <u>kjentoft@audiosmartcard.com</u> www.ncryptone.com



nCryptone solutions: Link the real world to the virtual one!



Basic concept: Remote Photo Authentication



Authorities can securely identify cardholders using existing cell phones and the nCryptone Card. This card emits a secure acoustic cryptogram to the phone microphone. After strong authentication, a secure server sends the cardholder's photo to the cell phone for validation by officials.

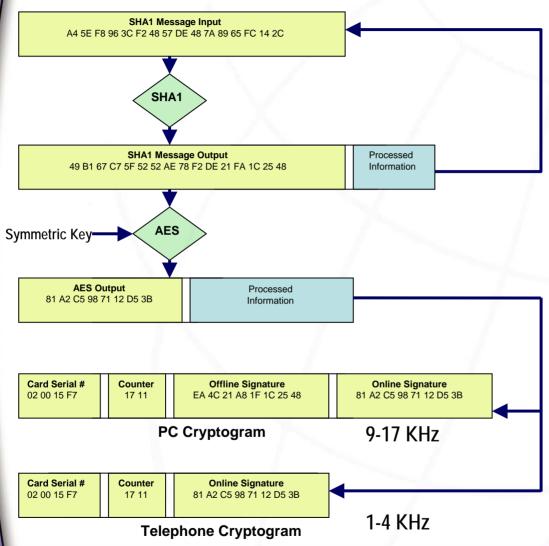
2 Factors – Biometric photo/facial recognition and Cryptogram



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I know the card is authentic because ...



The nCryptone card contains an advanced acoustic encryption module that emits a unique cryptogram that is delivered in acoustic tones each time the button is pushed.

These tones are created in various frequencies optimized for particular infrastructure and are compatible with existing Telephones, PDA's, PCs and Radios.



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I know the card is authentic because ...

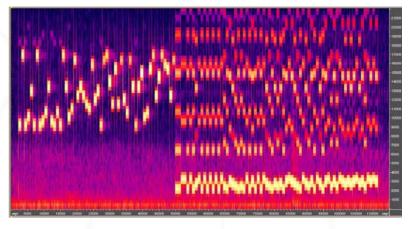
The acoustic cryptogram is unique.

Select appropriate detection mode and sensitivity until you get a reliable card

Detection Sen	onivity		YIII 1 2 10	~~~	max
Detection Sensitivity			: Min 🖲 🔿 🔿 🔿 🔿 Max		
Detection by H	ligh Freq	: [~		
Mic Volume	: 99 %				
Signature B		1C2A481E		33C3F44C1	98
Signature A	: 4973464E72E0D19D 29FB9A711BC872FF				
Counter	: 01D0	45705054		744 DO0705	
		UUOA (MIN	rreq : 905;	5/Max:16	001 MZ)
Card Model	: V27	0004 /86-	F		004 11-5

Manual Card Tuning

Digitized Cryptogram created from Acoustic Cryptogram



Acoustic Cryptogram

This Dynamic Password is digitized and linked to a Secure Radius Server.

Cryptogram changes every time card is used.



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I know the user is authentic because ...

Double/Triple Authentication

- 1. Photograph sent to
 - Mobile phone
 - PC
 - Blackberry

2. Optional Cardholder Pin code

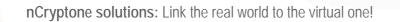
- On Board card itself or
- Using Existing Phone/PC/Radio Keypad



Sonu Ericsson

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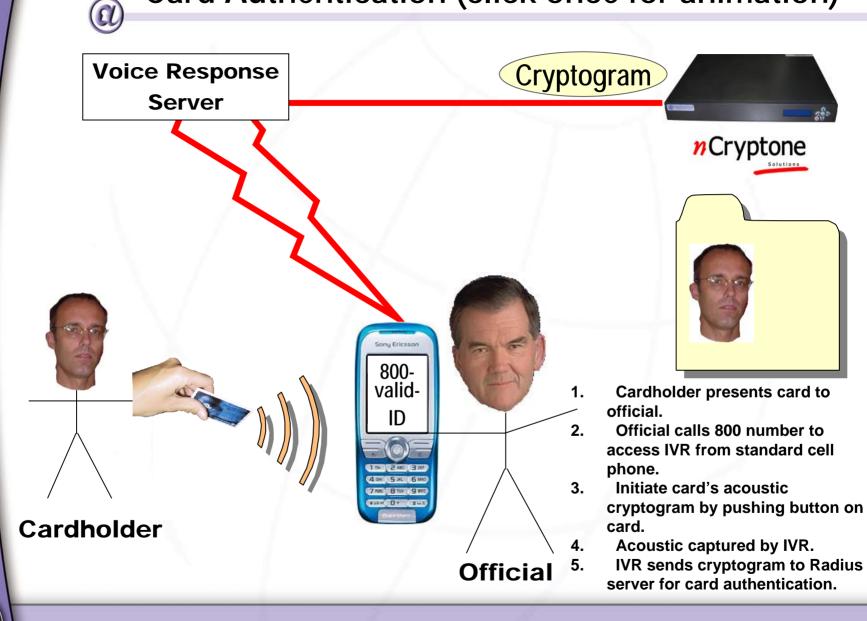
Authentication Scenario

- 1. Cardholder presents card to official.
- 2. Official uses standard cell phone and calls 800 number to access IVR.
- 3. Upon reaching the IVR the official initiates card's acoustic cryptogram by pushing button.
- 4. IVR sends cryptogram to Radius server for card authentication.
- 5. After card authentication, server sends cardholder's photo via MMS to cell phone.
- 6. Authority verifies photo received against actual cardholder.





Card Authentication (click once for animation)



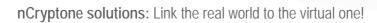
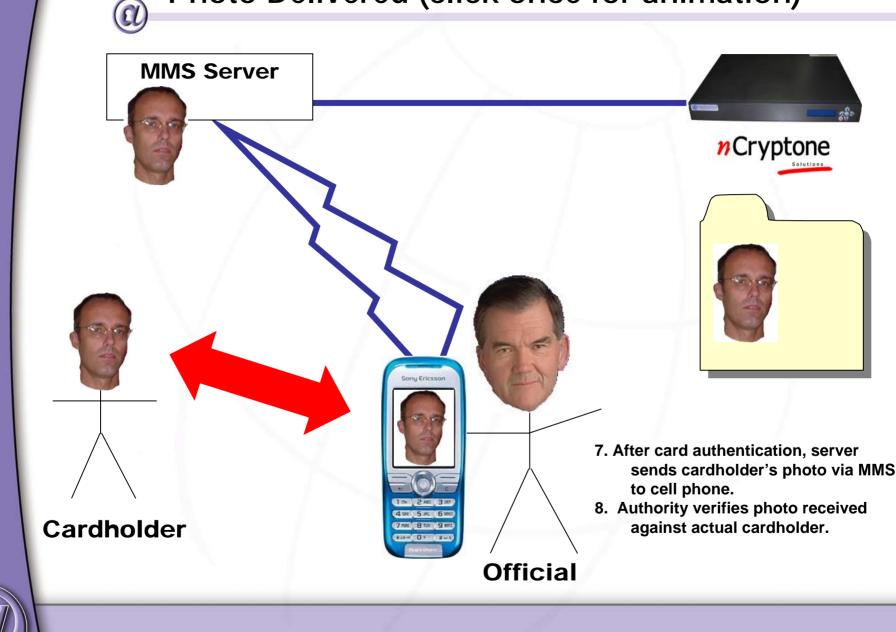




Photo Delivered (click once for animation)



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Advantages

- 1. Immediate deployment at Low-Cost.
- 2. No reader infrastructure necessary.
- 3. Real-time notification of revocation or status changes
- 4. No dependency on photos or information on card.
- 5. Extreme Security Strong authentication based on most advanced cryptology.
- 6. Existing world-wide network and infrastructure for immediate photo delivery.
- 7. Compatible with existing CAC (EMV), RFID (contactless), Mag-Stripe, or other Identification card systems.



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