DCVx
The ultimate solution to CNP fraud

Fully transparent to the cardholder, immediately acceptable by all online merchants

The NagraID Security DCVx Display Card provides an extra layer of security for Card-Not-Present (CNP) transactions, and against payment card number theft. This technology replaces the static 3-digit security code usually printed on the back of a card by a mini-screen that displays a code, which is automatically refreshed according to an algorithm.

The automatic and periodic (time-based) generation of a new code results in ever-shifting security, which effectively renders copying of card information useless.

The dynamic code is seen by any payment page as a standard security code, resulting in immediate acceptance by 100% of online merchants.

The button-less card design enables a fully transparent cardholder experience by periodically refreshing the code without any user involvement. It does not require cardholder re-education, change of behavior, or any additional and potentially disruptive process, resulting in reduced deployment cost and an immediate 100% adoption rate.

Features
• Button-less design
• No glare, electronic paper 3-digit display
• Credit card format and thickness
• Contact or dual interface EMV

Benefits

For the cardholder
• Transparent user experience
• Increased security
• Superb readability in any lighting condition

For the eMerchant
• Immediate compability
• Increased trust in online transactions

For the issuer
• Easy to deploy and explain
• Lower total cost of ownership
• Benefits the brand image

NagraID Security - An OT company

A versatile platform
The 133 Series is a programmable time-based platform designed to to provide flexibility in solution development, and enable easy deployment.
The integrated contactless interface enables loading of custom algorithms, applications, key files, and firmware updates. Compatibility with standard RFID equipment enables automated provisioning and logging.
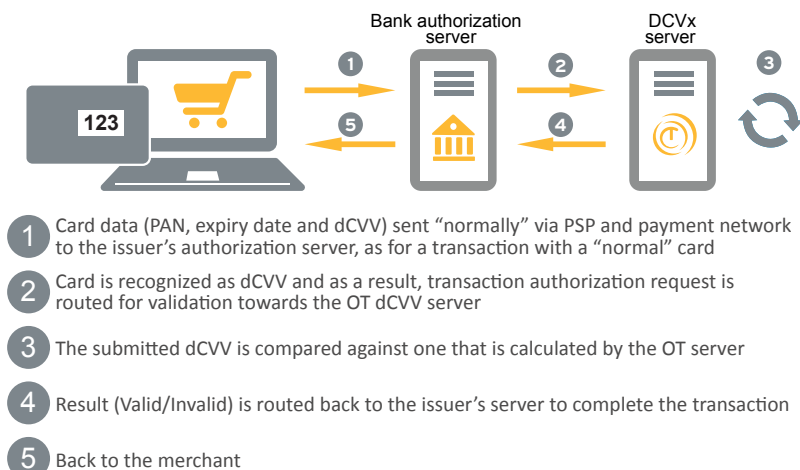
Highest quality and reliability
NagraID Security Display Cards are among the most reliable in the industry. Each card has been engineered to deliver an optimal service life and tested to withstand real-life usage conditions to ensure a low cost of ownership.

More secure
Unlike connected solutions such as OTP via SMS and software-based solutions, the Display Card enables Out-Of-Band-Authentication. It is not vulnerable to viruses that roam smartphones and other mobile devices. Non-reliance on signal coverage ensures anywhere, anytime availability.

Light infrastructure change for issuers

Bank authorization server — **DCVx server**

1. Card data (PAN, expiry date and dCVV) sent "normally" via PSP and payment network to the issuer's authorization server, as for a transaction with a "normal" card
2. Card is recognized as dCVV and as a result, transaction authorization request is routed for validation towards the OT dCVV server
3. The submitted dCVV is compared against one that is calculated by the OT server
4. Result (Valid/Invalid) is routed back to the issuer's server to complete the transaction
5. Back to the merchant

Why NagraID Security?

NagraID Security has been listening to customer feedback and investing continually in research and development. The technique of encapsulating electronics into ISO card form factors has been perfected in order to deliver products built to meet real world demands. Extensive testing and qualification ensure our products meet or exceed international regulatory requirements.

With over 4 million Display Cards deployed, NagraID Security is the world leader in Display Card manufacturing.

The NagraID Security partner network includes the most innovative and dynamic solution providers in the world who can support every aspect of your implementation with maximum efficiency.

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54mm — 85.6mm

Standard Card Features
- 3-digit electronic paper, 7-segment characters
- Buttonless design
- Real-time clock
- ISO/IEC 7810 compliant
- Contactless personalization: ISO 15693
- 1-year standard warranty (3-year option)*

Optional Features
Card Features
- Dual interface
- Magnetic stripe: 2 or 3 tracks
- Oersted: 300 or 2750, (optional customer specific)
- Secure signature panel
- Hologram
- Contact chip embedding: customer specific
- Printing: offset CMYK, screen printing
- Custom algorithm and firmware development

Personalization Options
- Laser engraving**   - Magnetic stripe encoding
- Indent printing**   - Contact chip personalization
- Embossing**   - Contactless chip personalization

Near-field Communication
- ISO 15693 Interface   - Generate and get OTP
- Get/set date/time   - Get battery voltage
- Set OTP crypto key

* Extended 2-Year or 10K OTP and Premier 3-year or 15K OTP are available cost options
** For embossing, laser engraving, indent printing or other imaging technologies, please discuss with your sales representative.

Storage Temperature *-20°C to +40°C.* Ideal is *1°C to +10°C*