

CD-1

Credit Card Display Token for Financial Services

The CRYPTOCARD authentication solutions combine with the CD-1 to deliver a wide range of uses across many aspects of a financial services organisation:-

Business banking

Business customers provide the backbone to most financial institutions and so securing of on-line business banking services for corporate and SMB customers is a key goal for many banks. The CD-1 combines on-line banking access with the ability to deliver a corporate payment card platform – all within the same card. The high quality of our devices and low total cost of ownership of CRYPTOCARD's solutions mean that we already secure tens of thousands of business banking customers around the world.

Private and Retail banking

Volume market banking solutions demand the most secure technology possible but need to match that with simplicity of use. The CD-1 delivers easy to understand technology that can secure on-line banking systems and transactions alongside delivering the familiar payment card capabilities – all within one device. The ability to combine multiple applications within one solution has massive cost benefits for any financial institution.



Below are a few of our Financial Services Customers:

Dubai Bank
Raiffeisen Bank
TD Bank North Bank
ING
Clifton Asset Management
Fortis
Stroud & Swindon Building Society
Yorkshire Building Society
AIG
APACS

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Identity fraud continues to increase unabated, despite the efforts of government and trade organisations. In the UK alone within the first six months of 2008, plastic card fraud cost over £300m and on-line banking fraud rose by 185%.

Banks are introducing new channel strategies to improve access, reduce costs and increase revenues, and this presents an ideal opportunity to address these threats and align with the increasing legislation around ID theft. CRYPTOCARD has proven solutions to address the need for improved identification procedures and systems.

The CD-1 token is the ideal solution for banks looking to use two-factor authentication to increase compliance and reduce risk – it combines payment card and authentication in one simple device to reduce total cost of ownership.

Key benefits:

- One card delivers access security and payment card capability
- Increased security improves reputation and loyalty
- Reduced risk of ID theft and hacking for on-line customers
- Increased confidence in on-line transactions
- Tight integration with on-line and telephone banking systems
- EMV support for interoperability
- ISO standards compliance
- Integrate with contactless/proximity systems
- Full branding capability



Identity management is key

It is easy to see why organisations and their customers are becoming more concerned about how the increased use of on-line transactions and bank management functions can be secured to assure the confidentiality of data and remove the ability for fraudulent use. ID theft and on-line fraud continue to be the major challenges for institutions around the globe. Payment card and on-line fraud are probably the two most visible issues and although technology based initiatives such as “chip and PIN” have slowed things down, we are still limited to the use of traditional passwords and 4 digit PIN numbers, which are easily lost, stolen, hacked or acquired.

The increased roll-out of initiatives such as PCI DSS and the Identity Theft Red Flags program by the FTC in the US have raised the awareness within organisations that they need to act. Most of these initiatives involve both internal and customer oriented recommendations or regulations and have pushed various forms of identity management high up the agenda.

Easy to use and proven solution

The easiest to use and fastest to implement solution to identify management is a tried and tested solution known as two-factor authentication. It involves giving the person who needs access to the service or application a small device – commonly known as a token – and a unique PIN number. A similar principle to the ATM cards that we are all familiar with. Factor one is the something that you have and factor two is the something that you know. Simple!

However, this means the user can end up with a multitude of devices for accessing their on-line account, using their payment card and for providing ID verification.

Deploying and supporting these multiple devices across the customer base obviously adds significantly to initial and on-going costs.

One card for all identity needs

CRYPTOCARD's CD-1 is a new and innovative device which brings all of these requirements together in a credit card sized solution. It brings together payment card technologies such as magnetic stripes and smart card chips with contactless/proximity detection capabilities – and most importantly CRYPTOCARD's market leading two-factor authentication. It is now possible to include the functionality of multiple devices in to one simple card:-

- **On-line security**

Where it delivers market leading two-factor authentication to secure on-line systems using a one-time passcode.

- **Payment card**

Where its compatibility with ISO and EMV standards allow integration within existing systems.

Reduce costs

The CD-1 can therefore be used to replace traditional bulky two-factor tokens with a device that is slim-line, portable, and simple to use – all of which combine to reduce the potential for the device to be lost or forgotten and could therefore dramatically reduce the instances of help desk calls and re-provisioning requests. Additionally, when combined with its payment card capabilities, the CD-1 becomes a multi-function



identity management device with a look, feel and usability that will increase user acceptance, reduce the number of items that need to be deployed, reduce support costs and enhance corporate image.

Complete branding

Fully ISO compliant and EMV ready, the CD-1 is simple to configure and can be completely customised to incorporate corporate branding requirements and any specific card issuer requirements. The in-built magnetic stripes are complemented by a customisation process which allows the card to have EMV chips included to meet the precise requirements of the card issuer.

The strongest authentication included

The key strength of the card is its ability to deliver strong authentication services through its integration with CRYPTOCARD's two-factor authentication solutions within the head office infrastructure. Whether it is an on-line application or a telephone based application, the CD-1 delivers all the features to tightly integrate with new or existing back end processes. CRYPTOCARD's back-end authentication solutions deliver a number of benefits to support the development of an identity management solution:-

- **Strong security**

Over the past 20 years, CRYPTOCARD has been regularly chosen by financial services organisations to protect the most sensitive networks due to its delivery of the most comprehensive range of security algorithms and parameters on the market.

- **Fast implementation**

IT Managers love the speed at which a CRYPTOCARD solution can be rolled out. The simple interface provides access to a range of features to aid the deployment of the tokens and to set the parameters to meet the security policy of the organisation.

- **Low cost integration**

Supporting the broadest range of operating systems, databases and directory options, the CRYPTOCARD back-end solution can normally be implemented without specific tailoring or modification – reducing costs and support requirements.

- **Wide choice**

Whether it is the broad range of tokens available, the ability to use different tokens within the same network the wide range of configuration parameters, the ability to integrate with any platform type or simply the different types of back-end solution that can be provided – CRYPTOCARD offers the widest choice of two-factor authentication in the industry.

- **Low Total Cost of Ownership**

Support costs of a CRYPTOCARD solution are underpinned through an easy to use management interface, availability of a self-service user portal and the proven reliability of the solution.

