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Mifare Desfire

And T Cl

Mifare

Desfire And

T Cl

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New Attacks On  
The MIFARE  
DESFire EV1  
Smartcard Used In  
Public  
Transportation -  
Rory Flynn

---

MIFARE Explained I

# Read Online Iso 14443 Readers

MIFARE DESFire  
EV3 IC

---

MIFARE DESFire  
EV1 / EV2 Smart  
Card Configuration  
and Encoding Mifare  
Desfire Ev1 MIFARE  
DESFire EV2 smart  
card IC includes  
the MIsmartApp  
ISO IEC 14443  
MIFARE DesFire  
EV2 4K NFC Card  
RFID - MIFARE

# Read Online Iso 14443 Readers

CLASSIC Desfire  
(13.56MHz) - Part 1  
- Understanding  
MiFare ReadWrite  
card data

---

MIFARE Explained I  
Transaction Timer  
ColorID: MIFARE  
DESFire EV2  
NFC/RFID: the  
different card types  
Asure ID How to  
encode Custom  
Data to DESFire

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~~Card How to~~  
~~structure a MIFARE~~  
~~DESFire CCI file~~  
~~part 2 | Zebra~~ What  
is the Difference  
between RFID and  
NFC? [17] Fast and  
Easy DIY Long  
Range RFID  
Reader! ~~How to~~  
~~clone a security~~  
~~badge in seconds~~  
RFID NFC Card  
Copier Reader



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Writer What's the  
difference between  
RFID, NFC and BLE?  
~~RFID/NFC Cloning~~  
~~Mifare Classic~~  
~~Smart Cards~~ how  
to read and write  
UHF card/tag with  
passwords UHF  
Reader [Burst  
Attack]~~Crack Mifare~~  
~~Card Key with NFC~~  
~~phone with Keys~~  
~~How To Decode~~

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~~HID/RFID Cards  
with Arduino  
(2019) EEVblog  
#889 - Credit Card  
RFID/NFC Theft  
Protection Tested  
Long Range  
RFID/NFC  
Reader/Writer by  
Lab401.com~~

---

I class vs Mifare  
differenceChipMan  
SmartCard  
Encoding and

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~~Printing MIFARE~~

~~DMP Training~~

~~Center: 1301M~~

~~MIFARE DESfire~~

~~Admin Reader~~

~~MIFARE Explained I~~

~~MIFARE Plus EV2 IC~~

~~ISO14443A vs~~

~~ISO15693 Field~~

~~Detection~~

~~Capability RFID~~

~~Reader Writer~~

~~Mifare Reader~~

~~Writer 14443A USB~~

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~~Reader for Android  
Linux iOS  
Winx, Outputs Co...~~

---

Iso 14443 Readers  
Mifare Desfire  
ISO 14443 readers:  
Mifare®, DESFire  
and T=CL SmartID□  
housing OEM  
module What is  
Mifare®? Mifare®  
technology,  
developed by  
PHILIPS Electronics

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Mifare Define  
And T C I

NV, is an interface platform for contactless smart cards and readers according to the ISO 14443A Standard. It is a well-proven secure 13.56 MHz RF communication technology

---

ISO 14443 readers:

*Page 13/84*

# Read Online Iso 14443 Readers

Mifare, DESFire  
and T=CL

The SmartID® ISO 14443 reader is a flexible, highly secure and stylish contactless smart card reader ideal for customers that require a customizable reader for new or existing installations.

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---

HID® SmartID®  
MIFARE®/DESFire  
® SmartTOOLS |  
HID Global  
The SmartTRANS®  
ISO 14443 and 125  
kHz reader is a  
flexible, highly  
secure and stylish  
dual-technology  
contactless smart  
card reader ideal

# Read Online Iso 14443 Readers

for customers  
migrating from the  
most popular 125  
kHz readers to  
13.56 MHz ISO  
14443 smart cards.

---

HID® SmartID®  
MIFARE®/DESFire  
® SmartTrans® |  
HID Global

Kindly say, the iso  
14443 readers



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cl is universally  
compatible with  
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s goes by its name  
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range of eBooks  
related to  
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and all for free!

The site features  
12 main categories  
and more than 150  
sub-categories, and  
they are all well-  
organized so ...

---

Iso 14443 Readers  
Mifare Desfire And  
T Cl

Die DESFire

*Page 18/84*

# Read Online Iso 14443 Readers

Version unterstützt  
ISO 14443A/B, ISO  
15693 sowie ISO  
18092

Transponder,  
inklusive MIFARE  
Ultralight®,  
MIFARE Ultralight®  
C, MIFARE  
Ultralight® Nano,  
MIFARE DESFire®  
Light, MIFARE®  
DESFire 2K / 4K /  
8K, MIFARE® Plus,

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MIFARE® Classic  
1K, MIFARE®  
Classic 4K, I-Code  
SLI, I-Code SLI  
DNA, TI Tag-it HF-I,  
NTAG 424 und  
viele mehr.

---

RFID Desktop  
Reader EVO  
DESFire - iDTRONIC  
Professional  
For ISO/IEC

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14443-4 compliant PICCs (like MIFARE DESFire, cards for contactless payment, electronic passports, etc.) the Activate Card includes the proper setup of the transmission protocol as shown in Figure 2. 1. This "Card Activation"

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requires a proper  
REQA/ATQA before  
the Anti-collision  
Loop. 2.

---

MIFARE ISO/IEC  
14443 PICC  
Selection - NXP  
Semiconductors  
The card is a Mifare  
DESFire EV1  
implementing ISO  
14443 (see the this

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documentation

collection). I've

read about side

channel attacks

targeted on

extracting the

private key from

the smartcard (see

Side-Channel

Analysis of

Cryptographic

RFIDs with Analog

Demodulation).

They were

# Read Online Iso 14443 Readers

successful but  
appear to be quite  
difficult to perform.

---

authentication - Do  
readers for the  
"Mifare DESFire  
EV1 ...

As a reader for  
MIFARE ® products  
we recommend the  
MFRC630, a high  
performance single



# Read Online Iso 14443 Readers

protocol reader  
(ISO/IEC 14443 A)  
suited to support  
the growing range  
of MIFARE products  
in read/write mode.  
It supports the  
MIFARE Classic ®,  
MIFARE Ultralight  
®, MIFARE Plus ®  
and MIFARE ®  
DESFire ® product  
families, as well as  
NTAG ® based

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NFC Readers for  
MIFARE products |  
MIFARE  
MIFARE DESFire  
EV1 is your ticket  
to contactless  
systems. MIFARE  
DESFire EV1 is  
based on open  
global standards  
for both air

# Read Online Iso 14443 Readers

interface and cryptographic methods. It is compliant to all 4 levels of ISO/IEC 14443A and uses optional ISO/IEC 7816-4 commands.

---

MIFARE DESFire  
EV1 | MIFARE  
The MIFARE ®  
DESFire ® family

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consists of various  
contactless ICs and  
are suited for  
solution developers  
and system  
operators building  
reliable,  
interoperable and  
scalable  
contactless  
solutions. It targets  
multi-application  
smart card  
solutions in

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identity, access,  
loyalty and micro-  
payment  
applications as well  
as in transport  
schemes.

---

MIFARE DESFire  
Family | MIFARE  
I'm trying to initial  
mifare desfire ev1  
with my mfrc522  
based

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## 14443 Readers

reader. ISO14443-3

is done

successfully and I

select PICC

successfully and

read 7 byte UID

and SAK

correctly. As I know

after completing

anti-collision and

select processes

and receiving valid

SAK(0x20) I must

perform

# Read Online Iso 14443 Readers

## ISO14443-4

commands. Then I  
send RATS  
command to the  
PICC:

---

C -

ISO14443-4(RATS)  
in mifare desfire -  
Stack Overflow  
MIFARE DESFire  
uses a protocol  
compliant with

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## ISO/IEC 14443-4

The contactless IC is based on an 8051 processor with 3DES/AES cryptographic accelerator, making very fast transactions possible.

---

MIFARE - Wikipedia

This MIFARE®

*Page 32/84*



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DESFire EV2 adhesive sticker offers 4K of memory and is the perfect solution for adding DESFire EV2 technology to almost any item. The label features a blank matt paper layer on top of the chip, protecting the antenna underneath and

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Making it ideal for  
personalisation.

---

MIFARE®

DESFire® EV2 4K

Adhesive Sticker

(45mm x 45mm

Square)

Identiv's innovative

Multi-ISO High

Frequency Reader

offers a cost-

efficient OEM and

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desktop Solution  
combining all major  
high-frequency  
(HF) standards in  
one device,  
including ISO  
14443 and 15693,  
while utilizing an  
existing PC/SC  
standard for USB.  
By default, the  
Identiv Multi-ISO  
Reader works as a  
keyboard emulator.

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---

Identiv Multi-ISO  
NFC Reader with  
Keyboard  
Emulation ...

MIFARE® Classic A  
trailblazer in the  
industry, the  
Classic range  
targets those  
industries where a  
multi-use card is  
favorable. The

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Classic range is fully compliant with ISO/IEC 14443 and is available with a 1KB and 7KB memory.

---

2020 Update: An Introduction to MIFARE® Cards | In-depth guide  
Mifare ISO/IEC 14443 NFC RFID

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Reader Writer

Software

Development Kit

(SDK) package:

Reader comes with

fully featured SDK

which consist of

external libraries,

software examples

with source codes,

documentation

about API

reference and

communication

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protocol and some  
useful software  
tools.

---

RFID Reader Writer  
- uFR Classic - NFC  
Reader Writer, 13

...

The T=CL protocol  
as defined in the  
ISO/IEC 14443-4 is  
supported by  
MIFARE DESFire,

# Read Online Iso 14443 Readers

the NXP Dual or Triple Interface Card ICs (like SmartMX), and the MIFARE Plus. The MIFARE Classic 1K, the MIFARE Mini, the MIFARE Classic 4K, the MIFARE Ultralight, the MIFARE Ultralight C and the MIFARE Plus in the security level 1 and 2 use



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the MIFARE  
Protocol.

---

AN10833 MIFARE  
Type Identification  
Procedure  
The MIFARE Classic  
1k or 4k chips  
predate the ISO/IEC  
14443 standard. In  
the WWDC  
CoreNFC  
presentation,

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MIFARE Classic is not explicitly mentioned to be supported by CoreNFC. MIFARE Ultralight is supported, or any other Type 2 Tag (e.g. NTAG 203). The successor of MIFARE Classic would be Type 4 (DESFire), I think.

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ios - Detect ISO/IEC  
14443 (Mifare  
Ultralight or Classic

...

Alibaba.com offers  
1,100 iso 14443  
mifare classic  
products. About  
23% of these are  
Access Control  
Card, 0% are  
Access Control  
Card Reader. A

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wide variety of iso  
14443 mifare  
classic options are  
available to you,  
such as touch  
screen type,  
warranty, and after-  
sales service  
provided.

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This book  
constitutes the  
thoroughly  
refereed post-  
conference  
proceedings of the  
13th International  
Conference on  
Information  
Security and  
Cryptography, held in  
Seoul, Korea, in  
December 2010.  
The 28 revised full

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Mifare Desfire  
And T Cl

papers presented were carefully selected from 99 submissions during two rounds of reviewing. The conference provides a forum for the presentation of new results in research, development, and applications in the

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field of information security and cryptology. The papers are organized in topical sections on cryptanalysis, cryptographic algorithms, implementation, network and mobile security, symmetric key cryptography,

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cryptographic  
protocols, and side  
channel attack.

This book presents  
the most  
interesting talks  
given at ISSE 2011  
– the forum for the  
inter-disciplinary  
discussion of how  
to adequately  
secure electronic  
business



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processes. The  
topics include: -  
Cloud Computing &  
Enterprise Security  
Services -  
Awareness,  
Education, Privacy  
& Trustworthiness -  
Smart Grids, Mobile  
& Wireless Security  
- Security  
Management,  
Identity & Access  
Management - eID

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& eGovernment-

Device & Network

Security Adequate

information

security is one of

the basic

requirements of all

electronic business

processes. It is

crucial for effective

solutions that the

possibilities offered

by security

technology can be

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Integrated with the commercial requirements of the applications. The reader may expect state-of-the-art: best papers of the Conference ISSE 2011.

Jump into the world of Near Field Communications (NFC), the fast-

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growing technology that lets devices in close proximity exchange data, using radio signals. With lots of examples, sample code, exercises, and step-by-step projects, this hands-on guide shows you how to build NFC applications for Android, the

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Arduino Desfire

microcontroller,  
and embedded  
Linux devices.

You'll learn how to  
write apps using  
the NFC Data  
Exchange Format  
(NDEF) in  
PhoneGap,  
Arduino, and  
node.js that help  
devices read  
messages from

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passive NFC tags  
and exchange data  
with other NFC-  
enabled devices. If  
you know HTML  
and JavaScript,  
you're ready to  
start with NFC. Dig  
into NFC's  
architecture, and  
learn how it's  
related to RFID  
Write sample apps  
for Android with

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PhoneGap and its  
NFC plugin Dive  
into NDEF:

examine existing  
tag-writer apps and  
build your own  
Listen for and filter  
NDEF messages,  
using PhoneGap  
event listeners  
Build a full Android  
app to control  
lights and music in  
your home Create

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a hotel registration app with Arduino, from check-in to door lock Write peer-to-peer NFC messages between two Android devices Explore embedded Linux applications, using examples on Raspberry Pi and BeagleBone



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In the past several years, there has been an increasing trend in the use of Radio Frequency Identification (RFID) and Wireless Sensor Networks (WSNs) as well as in the integration of both systems due to their complementary nature, flexible

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combination, and the demand for ubiquitous computing. As always, adequate security remains one of the open areas of concern before wide deployment of RFID and WSNs can be achieved. Security in RFID and Sensor Networks is the

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This book offers a comprehensive discussion on the security challenges and solutions in RFID, WSNs, and integrated RFID and WSNs, providing an essential reference for those who regularly interface with these versatile technologies.

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Exposes Security

Risks The book

begins with a  
discussion of  
current security

issues that  
threaten the  
effective use of  
RFID technology.

The contributors  
examine multi-tag  
systems, relay  
attacks,  
authentication

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protocols, lightweight cryptography, and host of other topics related to RFID safety. The book then shifts the focus to WSNs, beginning with a background in sensor network security before moving on to survey intrusion

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malicious node  
detection,  
jamming, and other  
issues of concern  
to WSNs and their  
myriad of  
applications. Offers  
Viable Solutions In  
each chapter, the  
contributors  
propose effective  
solutions to the  
plethora of security

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challenges that

confront users,

offering practical

examples to aid in

intuitive

understanding. The

last part of the

book reviews the

security problems

inherent in

integrated RFID &

WSNs. The book

ends with a

glimpse of the

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future possibilities  
in these  
burgeoning  
technologies and  
provides  
recommendations  
for the proactive  
design of secure  
wireless embedded  
systems.

This book  
constitutes the  
thoroughly



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refereed post-fire

workshop

And PCI  
proceedings of the

7th International

Workshop Radio

Frequency

Identification:

Security and

Privacy Issues.

RFIDSec 2011, held

in Amherst,

Massachusetts,

USA, in June 2011.

The 12 revised full

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papers presented were carefully reviewed and selected from 21 initial submissions for inclusion in the book. The papers focus on minimalism in cryptography, on-tag cryptography, securing RFID with physics, and protocol-level

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The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet connected devices such as medical devices, home assistants, smart home appliances and more. Drawing from the real-life

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exploits of five highly regarded IoT security researchers,

Practical IoT

Hacking teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a

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threat modeling  
framework. You'll  
develop a security  
testing  
methodology,  
discover the art of  
passive  
reconnaissance,  
and assess security  
on all layers of an  
IoT system. Next,  
you'll perform  
VLAN hopping,  
crack MQTT

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authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems.

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You'll also learn  
how to:

- Write a DICOM service scanner as an NSE module
- Hack a microcontroller through the UART and SWD interfaces
- Reverse engineer firmware and analyze mobile companion apps
- Develop an NFC fuzzer using

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Proxmark3 – Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn.



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Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find Practical IoT Hacking indispensable in your efforts to hack all the things

## REQUIREMENTS:

Basic knowledge of Linux command line, TCP/IP, and

# Read Online Iso 14443 Readers Programming Mifare Desfire And T Cl

With Smart Card Programming the reader will have the expert guidance he need to work with smart cards. The book offers a comprehensive guide, to the

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technological  
aspects related to  
smart cards,  
providing an high  
level overview of  
the technological  
panorama and  
giving an in-depth  
technical coverage  
about the related  
architectures,  
programming  
paradigms and  
APIs. The first part

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of the book

introduces the  
smart card

technologies, the  
general concepts

and a few case  
studies. It is

addressed also to  
non-technical

reader who wishes  
an high level

overview on smart  
card world. The

second part of the

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book is a technical guide to smart card specifications and programming paradigms. It dives into technical topics about smart card programming and applications development in C/C++, C#, Visual Basic and Java. Key features include: - Contact and

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Contactless Cards -  
ISO 7816 - NFC -  
JavaCard  
Framework - PC/SC  
- PKCS#11 -  
OpenCard  
Framework - Java -  
Smart Card I/O -  
GlobalPlatform -  
EMV

The definitive  
guide to the smart  
card industry. □

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Will help you to keep track of the major issues affecting the market. □ Will enable you to identify new business opportunities. □ Includes profiles of key players, assesses market trends and drivers, comprehensive

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technology review. Completely revised and updated, the 8th edition of The Smart Card Report examines the smart card market and major end-use sectors, identifying their needs for smart cards, assessing growth prospects and highlighting market



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opportunities. The study looks at the structure of the industry, profiles key players, assesses market trends and drivers, discusses industry issues and investigates usage by geographical region and application area. A comprehensive

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technology review  
is also included.

We have drawn on  
the expertise from  
our existing  
portfolio, Card  
Technology Today  
newsletter and ID  
Smart: Cards for  
Government &  
Healthcare  
conference to bring  
you vital  
information,

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Analysis and

forecasts that

cannot be found

anywhere else. For

a PDF version of

the report please

call Sarah Proom

on +44 (0) 1865

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