



SafeCom Solution Catalogue

Version 0.03
May 2003

SafeCom a/s
Vadstrupvej 37 A
DK-2880 Bagsvaerd
Denmark

Phone: +45 4436 0240
E-mail: info@safecom.dk
Web: safecom.dk

Table of contents

Introduction.....	3
About the solution catalogue	3
Additional information	3
Send feedback	3
Customer questionnaire.....	4
SafeCom secure check print solution.....	5
Compendia Online at the University of Copenhagen	6
SafeCom at The Biomedical Center, Lund University	7
SafeCom at Brabant Water	8
SafeCom at NOVA Information Systems	9
SafeCom campus solution with support for bank's cash cards	10
SafeCom campus solution with money on Smart Cards	11
Contactless SafeCom with proximity card technology	12
SafeCom improves document workflow.....	13
SafeCom library solution	14
Corporate-wide copy tracking.....	15

Introduction

This solution catalogue describes how SafeCom solutions have enabled companies and organizations around the World implement clever printing solutions and gain control over printing costs and document security.

About the solution catalogue

The solution catalogue is organized as individual solution descriptions that can be printed individually and distributed to customers.

On the page is a customer questionnaire that can be used to gather information about the customer's print and copy environment and wishes for a future solution.

Additional information

On our website, safecom.dk, you will also find:

- Data sheets
- Product manuals

You can always contact us with your questions concerning our products.

Send feedback

If you have any feedback or ideas concerning the solution catalogue or SafeCom products, then please send an e-mail to info@safecom.dk.

Customer questionnaire

1	Printers number of printers	
2	Windows print servers number of servers	
3	Users number of users	
4	User database import no import wizard (manually) other	
5	User database specify type	
6	User identification user code magnetic card other (see 9)	
7	SafeCom functionality pull print push print tracking pay for print money on server money on card money on both copy control encryption other, specify	
8	Printer models list printer models	
9	Other user identification technology contact information to manufacturer and supplier part number and specifications	

SafeCom secure check print solution

One of the largest car rental companies in North America, is using their SafeCom solution to securely print checks they owe to vendors for all types of services, like tires, auto repair, etc

The old way was to manually print out and hand sign all the checks. Because they had to hand sign everything, they would wait sometimes a week or more before sending the checks out the door so they didn't have to cut multiple checks to vendors they use regularly.

By doing that, they would get interest charges or late fees sometimes. With their SafeCom solution they print on demand and save money by avoiding the occasional late fees and interest charges.

The company print on average 4,725 jobs a month, with an average of 140,000 checks printed each month. They have printed a total of 1,674,580 checks over the last 12 months, for over 180 individual groups that cut checks.

870 users are authorized to collect checks at any of the SafeCom equipped Lexmark T614 printers. The SafeCom solution ensures that checks are only printed once and that all activity is logged.

The SafeCom solution has been in operation since November 2000.

SafeCom modules and components:

- SafeCom Pull Print
- SafeCom Tracking
- SafeCom Encryption
- SafeCom Secure Document Distribution

Printers:

- Lexmark T614

The SafeCom solution is sold and supported by SafeCom partner Source Technologies, US's largest provider of Secure MICR (Magnetic Ink Character Recognition) printing solutions and the exclusive MICR provider for both Lexmark and IBM.

Compendia Online at the University of Copenhagen

Compendia Online is an Internet-based system, that allows students to search, download and print the documents their teachers have selected for the courses

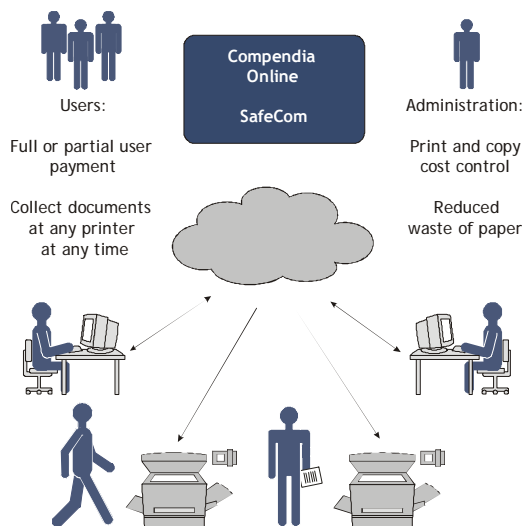
All relevant information concerning copyright is registered in the system, just as the system keeps track of how many times each document is being downloaded or printed.

All accounting and printing is handled by the SafeCom system. The core of the SafeCom system is the patented Pull print technology. With Pull printing documents are not sent directly to the printer, but are pulled by the user while standing at a SafeCom equipped printer.

The SafeCom system consists of Windows software and Multi Function Printers (MFP) equipped with a combined card reader and touch-screen.

The users are identified by means of their existing University ID card and a four-digit PIN code.

The SafeCom system also controls access to the MFPs' copy function and allows the University to fully recover both copy and print costs by charging users.



SafeCom modules and components:

- SafeCom Pull Print
- SafeCom Pay For Print
- SafeCom Administrator API
- SafeCom Batch Print API
- SafeCom MFP Support
- SafeCom MFP Cable Ricoh

Multi Function Printers:

- Ricoh Aficio 1022, 1045 and 1060
- Ricoh CL7000

Compendia Online is developed in cooperation with the University of Copenhagen, WMD Scandinavia A/S and SafeCom a/s.

SafeCom at The Biomedical Center, Lund University

Flexible printing on HP LaserJet 8150MFPs

The Biomedical Center (BMC), the biggest research institute at Lund University, Sweden, has equipped each of the institute's HP LaserJet 8150MFPs with SafeCom.

With SafeCom BMC has gotten a flexible print solution allowing users to collect their documents at the printer of their choice.

The users identify themselves by swiping their access card. Once logged in the users can copy, print all documents or browse through their list of documents to print, delete or retain individual documents.

The SafeCom Tracking module enables BMC to view costs on a per user and printer basis. BMC is using the collected data to distribute costs internally.

SafeCom modules and components:

- SafeCom Pull Print
- SafeCom Tracking
- SafeCom MFP Support
- SafeCom MFP Cable HP

Multi Function Printers:

- HP LaserJet 8150MFPs

The SafeCom solution is sold through the Swedish distributor NetPrint in Göteborg.

SafeCom at Brabant Water

Flexible printing on HP LaserJet 9000MFPs

Brabant Water is a Dutch water service company that supplies 2.2 million households with drinking water.

Brabant Water has equipped their HP LaserJet 9000MFPs with SafeCom.

With SafeCom Brabant Water has gotten a flexible print solution allowing users to collect their documents at the printer of their choice.

The users identify themselves by swiping a card. Once logged in the users can copy, print all documents or browse through their list of documents to print, delete or retain individual documents.

SafeCom modules and components:

- SafeCom Pull Print
- SafeCom MFP Support
- SafeCom MFP Cable HP

Multi Function Printers:

- HP LaserJet 9000MFPs

The SafeCom solution is sold and supported by SafeCom partner Datascan in the Netherlands.

Datascan is the hp-authorized JetCAPS partner for the Netherlands and the Flemish part of Belgium.

SafeCom at NOVA Information Systems

Flexible printing on Canon imageRUNNER 5000

NOVA Information Systems in the US handles electronic payment-processing systems for merchants accepting credit/debit cards and checks at the point of sale and via the Internet.

NOVA has equipped fourteen of their Canon ImageRUNNER 5000 with SafeCom.

With SafeCom NOVA has gotten a flexible print solution allowing 1000+ users to collect their documents at the printer of their choice.

The users identify themselves by entering a user code. Once logged in users can print all documents or browse through their list of documents to print, delete or retain individual documents.

SafeCom modules and components:

- SafeCom Pull Print

Multi Function Printers:

- Canon ImageRUNNER 5000

The SafeCom solution is supplied by IKON.

SafeCom campus solution with support for bank's cash cards

A cashless SafeCom Pay For Print solution for campuses where users can pay with their Chipknip cash card

Chipknip cash cards are used in the Netherlands and are owned by Interpay, www.interpay.nl. Both rechargeable and prepaid Chipknip cash cards can be used.

The solution is based on the patented SafeCom Pull Print technology where documents are stored on a server until the user inserts his Chipknip cash card in the Point-Of-Sale (POS) Front End Unit at any printer.

Print costs are always deducted from the user's SafeCom account as long as there are enough credits.

If the user's SafeCom account is empty the print cost is displayed and the user is asked to accept this before the amount is withdrawn from the user's Chipknip card. Once accepted all the user's documents are printed.

With SafeCom Web Interface users can use a web browser to see a list of their documents and delete or retain documents on the SafeCom server.

The administrative overhead is very low since users can associate themselves with their Chipknip card at public computers equipped with a POS Front End Unit.



*Point-Of-Sale Front End Unit.
Connects to the SafeCom Controller.*

SafeCom modules and components:

- SafeCom Pull Print
- SafeCom Pay For Print
- SafeCom Web Interface
- SafeCom Chipknip card association software

The SafeCom Chipknip solution is sold and supported by SafeCom partner Datascan in the Netherlands.

Datascan is the hp-authorized JetCAPS partner for the Netherlands and the Flemish part of Belgium.

SafeCom campus solution with money on Smart Cards

A cashless SafeCom Pay For Print solution for campuses where users can pay with their personal Sagio Smart Card

In contrast to cash card systems operated by banks, this in-house system is exempt from bank fees and transaction charges.

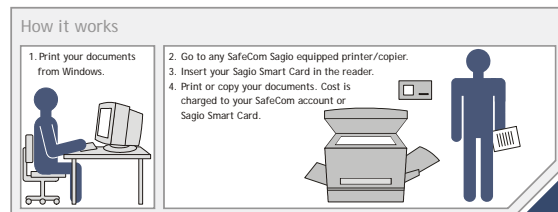
The solution is based on the patented SafeCom Pull Print technology where documents are stored on a server until the user inserts his Sagio Smart Card in the SafeCom Sagio Front End Unit at any printer.

With the Sagio range of products it is possible to build a one-card solution that supports:

- Print and copy control
- Access control
- Point-Of-Sale terminals
- Vending machines
- Time registration

Users can recharge their Sagio Smart Card by using Sagio Card Service Stations to transfer money from their bank card/account to their Sagio Smart Card. A Sagio Card Service Station that accepts coins and banknotes is also available.

The solution is ideal for Universities that are looking for a campus-wide one-card solution with a minimum of administrative overhead.



SafeCom modules and components:

- SafeCom Pull Print
- SafeCom Pay For Print
- SafeCom Sagio Front End Unit - A Smart Card reader with touch-screen.

The system is co-developed with and marketed by the Danish company Sagio - one of the world's first adapters of chip-based cards.

Sagio co-developed the Danish Danmønt cash card system, which was launched in 1992. The technology was subsequently sold to Visa International.

Contactless SafeCom with proximity card technology

How one of the World's largest mobile telecommunications network companies came to use their existing proximity card with SafeCom

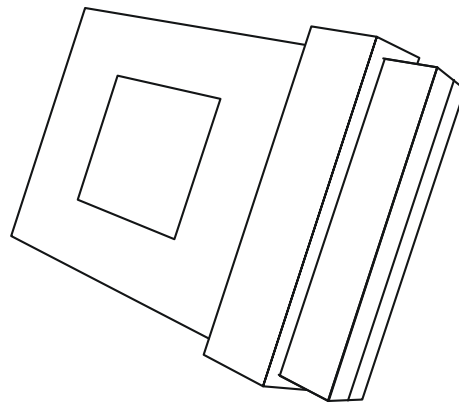
The company were interested in gaining the benefits of Pull print technology, but they would like SafeCom to support their existing proximity card used for building access.

The proximity card requires no physical contact between the card and the card reader, and thus no wearing on either.

The user simply presents the card a few centimeters from the reader. There is no need to slide or insert the card.

The supplier of the company's existing building access system was contacted and technical information about encoding etc. was provided to SafeCom.

The nonrecurring-engineering (NRE) costs were calculated and accepted by the customer. A prototype was made with an embedded proximity card reader and a touch-screen. After approval the remaining SafeCom Front End Units were produced and delivered.



The SafeCom proximity solution was sold by the SafeCom partner Datascan in the Netherlands.

Datascan is the hp-authorized JetCAPS partner for the Netherlands and the Flemish part of Belgium.

About proximity technology

SafeCom supports the Mifare standard 13.56 MHz technology owned by Philips Electronics.

SafeCom supports the de facto standard as implemented by these companies:

- HID Corporation
- Indala Corporation
- Legic Identsystems AG

SafeCom supported interfaces:

- Clock-and-Data (Mag. Stripe)
- Serial (RS-232/RS-422)
- Wiegand

SafeCom improves document workflow

A global market leader of the international air express industry wanted to use cost-effective workgroup Multi Function Printers to improve their workflow

The employees who print many one page documents no longer need to rush to the printer every time they print. They can collect their documents when it suites them.

The employees now avoid situations where uncollected documents clutter the printer's output bin.

The wastebasket (or paper recycle bin) no longer contains uncollected documents and they have abolished the use of banner pages to separate documents.

The MFPs are also used for faxing and e-mailing scanned documents.

SafeCom modules and components:

- SafeCom Pull Print
- SafeCom Tracking
- SafeCom MFP Support
- SafeCom MFP Cable HP

Multi Function Printers:

- HP LaserJet 9000MFPs

The SafeCom solution is sold and supported by SafeCom partner AutoFont in Israel.

AutoFont is the hp-authorized JetCAPS partner for Israel and the Middle East.

SafeCom library solution

Danish libraries use SafeCom to offer easy-to-use print and copy service to their borrowers

In the past libraries have offered copy service based on coin insertion boxes or perhaps disposable paper cards.

With SafeCom the library can use cost-effective workgroup Multi Function Printers (a combined printer and copier) to offer a seamless print and copy service to the public.

In Denmark a lot of libraries use the magnetic stripe based social security card (sygesikringskort) as borrower's ticket.

How it works:

- The borrower registers (first time only) as a SafeCom user by reporting to the library's counter, where he can also deposit money on his SafeCom account.
- To print from one of the library's public computers the borrower enters his social security number in the appearing SafeCom Authentication dialog or swipes his card in the attached reader.
- To collect his documents or make copies he goes to the first available Multi Function Printer and identifies himself by swiping his card.

SafeCom is a modular system that can be enhanced with add-on modules to build library specific solutions.

Customizations:

- Users can be identified by user code or card. Avoid misuse by requesting a PIN code also.
- Money can be stored on cards, such as bank's cash cards and private Smart Cards.
- Deploy Money loading stations where users can recharge their SafeCom account (or card) by transferring money from their bank card/account or inserting bank notes and coins.
- Integration with the library's existing borrower database can be accomplished with the SafeCom Administrator API (XML based).

The SafeCom library solution is sold in Denmark by the SafeCom partners: Sagio and Scriptor.

SafeCom Free Print

SafeCom Free Print (option) enables libraries to define that search results from selected databases should be free for borrowers to print.

No need to use pen and paper to write down search results. The printed result is accurate and easy to read for both the borrower and the librarian.

Corporate-wide copy tracking

HP and SafeCom are working together on a pilot installation at a large German automaker

Goal is to track all the copy and print activity done on the company's fleet of HP LaserJet MFPs.

A special SafeCom scheduling module handles the synchronization of the +130,000 users with the company's existing user databases.

SafeCom Multi Server Support is used to distribute the load among the SafeCom servers.

Employees use their existing ID card when they login to copy. The ID card is a Legic proximity card. The Legic card reader is connected directly to the serial port of the SafeCom Controller.

SafeCom is represented by its partner in Germany, Stethos GmbH.