

# ID WORLD

THE PLAYERS OF THE AUTO ID INDUSTRY

# CARDS

# 2015 BUYER'S GUIDE

What is a card? Is it anything more than a piece of thick, stiff paper or thin pasteboard, in particular one used for writing or printing on? Is it just a small rectangular piece of plastic containing personal data in a machine-readable form and used to obtain cash or credit or to pay for a telephone call, gain entry to a room or building, etc.?

A card is a credential. As such it ensures we can assert our rights and privileges and that we are reminded when due of where these stop and where

these become duties. My card entitles me to the next call, transaction or secure interrogation I wish to perform. It may support my own accountable involvement in democratic elections and my crossing borders as a trusted traveller. It also ensures I cannot look elsewhere when I am asked to pay taxes and that a tight control of financial flows is maintained, as it cannot be

used to withdraw more than its daily limit from cash machines. A card can mean a lot of things, including an unexpectedly healthy evening when it stops bartenders from serving drinks to someone underage 'carded' at a club.

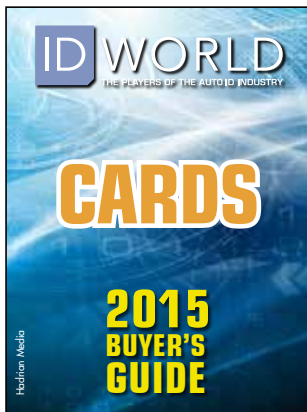
Engaging in technology sourcing activities in an evolving market such as the auto ID arena sees decision makers face complex choices. Cards evolved over the years from simple tokens, easy to manufacture as much as to counterfeit, to hyper-sophisticated keys of modern-time trust models embracing the physical and the digital worlds. By providing you with this year's ID WORLD Directory of Top Suppliers of Card Technologies, the ID Community

Publications mark yet another milestone in their constant strive to update end-users and integrators, as well as the auto ID industry's channel partners with essential tools to support their decisions. What we would like to ensure is that – whether you buy card technologies to support your corporate access control system, to badge your students, to reach out to your country's population or to serve your system's patients – you are fully informed of where we stand today with regard to the world's best performing and more convenient technologies of choice.

An informed decision is a better decision. Whether you are outsourcing the design and integration of your credentialing system to a trusted partner or embracing the challenge of doing-it-yourself, with all what it takes in terms of bigger and all too often only relatively smaller choices to make, it simply is wise to take a glance at the options available. Benchmarking is a healthy exercise. Beauty contests are good for your finances. Know what you want and go for what is best for you on the basis of hard facts.

"Cards" is the first Directory released for 2015 on our multichannel media platform. We hope you enjoy reading through its comprehensive review of suppliers, products and technologies and trust that it will inspire you to challenge at least some of your assumptions in light of what is new and up to date today. Having published "Cards" since the year 2000, we look forward to constantly updating its records and ensuring it may continue acting as a pivotal resource for the industry and its clients, who still look at cards as at a most stable and proven identification technology, offering the ideal compromise between functionality, economy and compliance, as well as a smart choice for business continuity.

Editor



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## Trusted source for secure identity solutions



HID Global is the trusted leader in products, services and solutions related to the creation, management, and use of secure identities for millions of customers worldwide. Recognized for robust quality and innovation, HID Global is the supplier of choice for OEMs, integrators, and developers serving a variety of markets that include physical access control; IT security, including strong authentication/credential management; card personalization; visitor management; government ID; and identification technologies for a range of applications.



### Components

- Inlays/Antennas
- Cards/Passports

### Equipment

- Card Manufacturing
- Data Capture & Personalization

### IT Systems

- Software/Applications
- Readers/Hardware

### Services

- System Integrator

HID Global Government ID Solutions serves the rapidly growing market for government-to-citizen ID programs worldwide. Governments want to stay ahead of counterfeiters and deploy solutions that perform at the highest levels; and they need providers equipped with extraordinary technical expertise, successful global references and a history of continuous innovation. HID Global fits these criteria.

- HID Global has a track record of providing solutions for successful e-ID and e-Passport programs around the world. HID Global participates in more than 39 e-passport programs and 49 national/e-ID programs, including the U.S. Green Card. After 18 years, there has been no known compromise of the Green Card's digital security. A few other large programs include UAE/ Dubai Health Card, Vehicle Registration in three Indian states, Somalia National ID and ePassport, Italy's Federal Police ID Card, prelaminate for Germany's National e-ID Card, and e-passport data pages for Ireland's new e-passport program.

- HID Global's end-to-end approach to integrating multiple products, technologies and systems that serve millions of cardholders. This expertise is based on leadership in four key Government ID product segments – e-documents, readers, personalization solutions and credential issuance systems - plus complementary professional services. We are attentive to – and lead the way in – new developments, such as

the ability to meet the growing demand for distributed ID issuance through high-demand advanced personalization technologies within portable, small-footprint ID issuance equipment.

- HID Global is also chosen by governments for its innovative approach. Our successful patented crack prevention technology is now extending the lifespan of highly secure Citizen ID cards and e-passports in major European card programs. One such example of this innovation is found in the Ireland's new e-passport.

The new Irish e-passport was designed to provide an exceptional level of security. The e-passports include HID Global's polycarbonate electronic data page with contactless chip inlays -- making the

documents very hard to forge or copy. The new e-passports also incorporate HID Global's innovative Crack Prevention Feature (CPF), which enhances the durability and reliability of polycarbonate e-passport datapages, especially those with embedded RFID chips. Ireland will be able to fully leverage the advantages of smart card technology through CPF, enabling protection of their investment by extending the life of the credentials.



As a worldwide leader in secure identity solutions, HID Global is a proven and respected brand in the access control and secure ID solutions industry. HID Global's Government ID Solutions provides governments worldwide with an end-to-end portfolio of highly secure, custom government-to-citizen ID solutions.

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[www.hidglobal.com/government/citizen-id](http://www.hidglobal.com/government/citizen-id)

## The art of card issuance for an extensive range of applications

Matica Technologies develops, manufactures and markets an extensive product portfolio for the personalization of all kinds of ID cards. The offering consists of a direct-to-card printer series, a family of retransfer printers, mid-range systems, high-speed centralized issuance systems, mailer and state-of-the-art laser engraving solutions. This variety is the most extensive in the market and is perfectly covering the needs for banking, government, access control, ID and transportation applications.



To further improve this comprehensive product portfolio and keep it up-to-date, Matica is investing a lot of efforts and money in its Research and Development Center. Around 30% of the employees are dedicated to R&D activities. Identifying markets and developing the related products is one of the strength of Matica. The recently launched S3500, a smart solution for the instant issuance of financial cards at the branch level, is a good example.

The concept of this real modular system is based on in-house available technologies and is well accepted on market right from the beginning. Further, Matica expands steadily its presence around the globe. Matica provide sales, service & support on a worldwide basis via its offices in Italy, Germany, France, India, Singapore, China, the United States of America and the UAE.



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## Trüb

## A comprehensive portfolio of secure identity documents, payment cards, solutions and services

Trüb is one of the world's leading providers of identity cards and travel documents on a high security and quality level. The product portfolio includes national identity cards and residence permits, datapages for passports, driving licenses and tachograph cards.

Trüb has developed the Swiss identity card which was launched in 1995 as the world's first national identity card made from polycarbonate. Other pioneering projects include the e-identity documents for Estonia and Hong Kong launched in 2003.



Trüb has been producing payment card solutions for financial institutions, corporations and the retail sector since the beginning of the 1970s.

CombOS<sup>®</sup>, the EMV compliant chip operating system developed by Trüb, supports multifunctional solutions with VISA or MasterCard payment applications which can include further functionalities such as loyalty or ticketing. Trüb provides contact, contactless and dual interface chip and antenna solutions. In Switzerland, Trüb is the market leader for comprehensive banking card solutions, whereby CombOS<sup>®</sup> is widely adopted. In the global arena, CombOS<sup>®</sup> solutions are provided via certified partners.

Products and solutions from the Trüb group are used in more than 70 countries.

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<b>AEG Identifikationssysteme GmbH</b> <a href="http://www.aegid.de">www.aegid.de</a>	<b>MF, SI -C, RFID -C (MG, CM, SM, CL, OPT), M (L, SL, TTR, I) TAG (RF&lt;LF, HF, UHF&gt;), IC, A, P (POS) R (HH, FX, RF, I), RF, EP, GP</b> Hörvelsinger Weg 47, 89081 Ulm, Germany Tel. 49/7/3114/00880 Fax 49/7/3114/0088/9000
<b>Alp Vision</b> <a href="http://www.alpvision.com">www.alpvision.com</a>	<b>SH, SI - C, DC - SW, M (MK, VF)</b> Rue du clos 12, 1800 Vevey, Switzerland Tel. 41/21 948/6464
<b>Arjowiggins Security</b> <a href="http://www.security.arjowiggins.com">www.security.arjowiggins.com</a>	<b>SH, SI -C -IC, C (MG, CM, SM, CL, FP), R (HH, FX, RF), T (HH, FX, RF, FP, IF, FF, VF), EP, GP, MC, SW</b> 32 Avenue Pierre Grenier, 92100 Boulogne Billancourt, France Tel. 33/164756984 Fax 33/164203795
	<p>With over 15 years of experience in the e-ID and smart card industries, the Identity &amp; Access Control division of Arjowiggins Security provides the right solution that can quickly adapt to your environment on a global scale. We offer complete, innovative and modular solutions for e-Passports, e-ID cards and Border Management. Our Revenue Protection division develops physical and digital solutions that tackle problems such as product tampering and counterfeiting, as well as targeting illicit trade through advanced production monitoring and licensing.</p>
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<b>ASK</b> <a href="http://www.ask-rfid.com">www.ask-rfid.com</a>	<b>MF -C, RFID -C (CL), M (SL), TAG (RF&lt;HF, UHF&gt;), P (HH), R (HH)</b> 2260 route des Crêtes, BP337, 06906 Sophia-Antipolis, France Tel. 33/4/97214000 Fax 33/4/92389321
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<b>Atmel</b> <a href="http://www.atmel.com">www.atmel.com</a>	<b>MF -RFID -IC (CL, RF&lt;LF, HF, UHF, MW&gt;)</b> 2325 Orchard Parkway, 95131 San Jose, CA, Usa Tel. 1/408/4410311 Fax 1/408/4364200
<b>Atos Worldline</b> <a href="http://www.atosworldline.be">www.atosworldline.be</a>	<b>MF -C -T(POS, HH)</b> 1442 Chaussée de Haecht, 1130 Bruxelles, Belgium Tel. 32/2/727/6111 Fax 32/2/727/6767
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<b>BioLink Solutions</b> www.biolinksolutions.com	<b>MF, SI -B, C -C (FP), S, SW</b> PO Box 404, _/_ IPS, 511 Avenue of the Americas, PMB 572, 10011 New York, NY, Usa	Tel. 44/808/189/1360	
<b>BGI</b> www.bginge.com	<b>MF-C, RFID-C (CM, CP, MG)</b> ZAC de la Goulgatiere, 4 rue Paul Langevin, 35220 Chateaubourg, France	Tel. 33/2/99008997	Fax 33/2/99008998
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<b>Bundesdruckerei GmbH</b> www.bundesdruckerei.de	<b>MF, SI, D, SH -C, B -C (SM, CL, FP), P, R (HH, FX), T (FP, FP, FF, VF), SW, EP, GP</b> Oranienstrasse 91, 10969 Berlin, Germany	Tel. 49/30/25980	Fax 49/30/25982205
<b>CardLogix Corp.</b> www.cardlogix.com	<b>MF, SH -C -C (MG, CM, S, CL), P (I), T (POS), SW</b> 16 Hughes, Suite 100, 92618 Irvine, CA, U.S.A.	Tel. 1/949/380/1312	Fax 1/949/380/1428
<b>CodeCiphers</b> www.codeciphers.com	<b>MF, SH -B, C -C (CL) B, IC</b> Rua Bogaert 107 Villa Verneha, 04298-020 Sao Paulo, Brazil	Tel. 55/11/2175/1106	Fax 55/11/2175/1171
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## LEGENDA

### ROLE IN THE VALUE CHAIN

D = Distributor  
MF = Manufacturer  
SH = Software House  
SI = System Integrator  
VAR = Value Added Reseller

### TECHNOLOGIES

B = Biometrics  
BC = Barcode  
C = Cards  
DC = Data Collection  
NFC = Near Field Comm.  
RFID = Radio Frequency Identification Device  
RTLS = Real Time Loc. System

### PRODUCT CATEGORIES

A = Antenna  
C = Cards  
EP = Electronic Personalization  
GP = Graphic Personalization  
IC = Integrated Circuits  
M = Media  
MC = Machinery  
MV = Machine Vision  
P = Printers  
R = Readers  
S = Scanners  
SW = Software  
T = Terminals  
TAG = Tags  
VR = Voice Recognition

### PRODUCT SPECIFICATIONS

BT = Batch  
BC = Barcode  
CL = Contactless  
CM = Contact Memory  
CMA = Card Materials  
CP = Compact  
DNA = DNA  
EAS = Electronic Art. Surveillance  
FF = Facial Feature  
FP = Fingerprint  
FX = Fixed  
H = Holograms  
HF = High Frequency  
HG = Hand Geometry  
HH = Handheld  
I = Industrial

IF = Iris Feature  
L = Labels  
LF = Low Frequency  
MG = Magnetic  
MK = Marking  
MW = Microwave  
OCR = Optical Char. Recognition  
OPT = Optical  
POS = Point of Sale  
RF = Radio Frequency  
SL = Smart Labels  
SM = Smart  
TTR = Thermal Transfer Ribbon  
UHF = Ultra High Frequency  
VF = Verifier  
VT = Vehicle Terminal

<b>Dartagnan BV</b> www.dartagnan.eu	<b>SI, SH -C, B, RFID -C (SM, CL), R (RF), T (RF, FP, IF, FF, VF), SW</b> Triport 3, Westelijke Randweg 51, 1118 CRLuchthaven Schiphol, The Netherlands	Tel. 31/20/405/4149	Fax 31/20/405/4171
<b>Databac Group</b> www.databac.com	<b>MF, SH, SI, VAR, D -C, RFID, B -C (MG, CM, SM, CL, OPT, FP), M (L, SL, TTR, H, I), TAG (RF&lt;HF&gt;), P (TTR), R (HH, FX, RF), S (HH, POS), T (HH, RF, BC, FP, IF, VF), VR, SW, EP, GP</b> Number One, The Ashway Centre, Elm Crescent, KT2 6HH Kingston, Surrey, UK	Tel. 44/208/546/9826	Fax 44/208/547126
<b>Datastrip Ltd</b> www.datastrip.com	<b>MF -B, BC -R (HH), T (FP)</b> 7 Thame Park Business Centre, Wenman Road, OX9 3XA Thame, Oxfordshire, UK	Tel. 44/1844/215668	Fax 44/1844/215669
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<b>Digital Identification Solutions AG</b> www.digital-identification.com	<b>MF, SH, SI -C, B -C (CM, CL, SM, MG, OPT, FP), M (TTR, H, I), P (CP, I, TTR), EP, GP, SW, MC</b> Teckstrasse 52, 73734 Esslingen, Germany	Tel. 49/711/3416890	Fax 49/711/341689550
<b>Diletta Maschinenteknik GmbH</b> www.diletta.com	<b>MF -C, RFID -C (CL), P (I), GP, EP, MC</b> Industriestrasse 25-27, 64569 Nauheim, Germany	Tel. +49/6152/1804 - 0	Fax +49/6152/1804-22
	For more than five decades DILETTA has been engaged in producing identity products and security systems for governments and other national institutions. DILETTA offers complete systems for centralized and decentralized personalization of high security travel documents which support all safety criteria, contactless chip technology and machine readable features. With over 30,000 installations in more than 100 countries we have gathered an amazing expertise and ample experience.		
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<b>Elatec GmbH</b> www.elatec-rfid.com	<b>MF -C, RFID -C (CM, SM, CL), M (L, SL, I), TAG (RF&lt;LF, HF, UHF, MW&gt;), R (HH, FX, RF, I), SW</b> Max-Planck-Str. 16, 82223 Eichenau, Germany	Tel. 49/8141/534980	Fax 49/8141/5349829
<b>Elsag Datamat</b> www.elsagdatamat.com	<b>MF, SH, SI -C, B, RFID, DC -C (CM, SM, CL), TAG (RF&lt;HF, UHF&gt;), P (I), R (HH, FX, RF, I), S (POS, I, OCR), T (FP, FF), SW, GP, EP</b> Via Puccini, 2, 16154 Genova, Italy	Tel. 39/010/6582215	Fax 39/010/6512329
<b>Elyctis</b> www.elyctis.fr	<b>MF, SH - C, RFID - R (RF, HH, FX, CL, OCR), SW</b> 240 rue François Gernelle, 84120 Pertuis – France	Tel. +33 6 27 71 37 68	
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<b>FobaLaserMarking + Engraving(Alltech)</b> www.fobalaser.com	<b>MF -C, DC -MC, TAG (MK), MV</b> An der Trave 27-31, 23923 Selmsdorf, Germany	Tel. 49/38823/550	Fax 49/38823/55222
<b>Fortress GB Limited</b> www.fortressgb.com	<b>SI -RFID, C -C (SM, CL, FP), TAG (RF&lt;HF&gt;), T (HH, FX, RF, HG, POS), SW</b> South Block, Tavinstock Square, Tavinstock House, WC1H 9LG London, UK	Tel. 44/20/7874/7595	Fax 44/7874/7599
<b>Gemalto</b> www.gemalto.com/govt	<b>MF -C -C (CM, SM, CL), EP, GP, T (HH, POS), R (FX, HH), SW</b> 6, rue de la Verrerie, 92127 Meudon Cedex, France	Tel. 33/1/5501/50 00	
<b>GET Group</b> www.getgroup.com	<b>SI - C - P (CL, CM, VF)</b> 230 Third Avenue, Waltham, MA 02451 – USA	Tel. +1 781 890-6700	Fax +1 781 890-6320

## LEGENDA

### ROLE IN THE VALUE CHAIN

D = Distributor  
MF = Manufacturer  
SH = Software House  
SI = System Integrator  
VAR = Value Added Reseller

### TECHNOLOGIES

B = Biometrics  
BC = Barcode  
C = Cards  
DC = Data Collection  
NFC = Near Field Comm.  
RFID = Radio Frequency Identification Device  
RTLS = Real Time Loc. System

### PRODUCT CATEGORIES

A = Antenna  
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EP = Electronic Personalization  
GP = Graphic Personalization  
IC = Integrated Circuits  
M = Media  
MC = Machinery  
MV = Machine Vision  
P = Printers  
R = Readers  
S = Scanners  
SW = Software  
T = Terminals  
TAG = Tags  
VR = Voice Recognition

### PRODUCT SPECIFICATIONS

BT = Batch  
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CL = Contactless  
CM = Contact Memory  
CMA = Card Materials  
CP = Compact  
DNA = DNA  
EAS = Electronic Art. Surveillance  
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FP = Fingerprint  
FX = Fixed  
H = Holograms  
HF = High Frequency  
HG = Hand Geometry  
HH = Handheld  
I = Industrial

IF = Iris Feature  
L = Labels  
LF = Low Frequency  
MG = Magnetic  
MK = Marking  
MW = Microwave  
OCR = Optical Char. Recognition  
OPT = Optical  
POS = Point of Sale  
RF = Radio Frequency  
SL = Smart Labels  
SM = Smart  
TTR = Thermal Transfer Ribbon  
UHF = Ultra High Frequency  
VF = Verifier  
VT = Vehicle Terminal

<b>Ghirlanda SpA</b> www.ghirlanda.it	<b>MF, SI -C -C (MG, SM), SW, GP, EP</b> via Galileo Ferraris, 80/90, 20010 Marcallo con Casone, MI, Italy	Tel. 39/02/972331	Fax 39/02/9761657
<b>Giesecke &amp; Devrient GmbH</b> www.gi-de.com	<b>MF, SI -C, B, NFC, RFID -C (SM, CL, FP), M (H), IC, P (CP, I), R (FX), T (FX, BC, FP, FF), EP, GP</b> Prinzregentenstrasse 159, 81677 Munich, Germany	Tel. 49/89/41190	Fax 49/89/41191535
<b>HID Global</b> www.hidglobal.com	<b>MF -C, RFID -C (MG, CM, SM, CL, OPT), M (TTR, H, I), TAG (RF, LF, UNF HF), IC, P (CP, I, TTR, POS). R (HH, FX, RF, I), SW, EP</b> 15370 Barranca Pkwy, 92618 Irvine, CA, Usa	Tel. 1/949/732/2000	Fax 1/949/732/2120
<b>Hirsch Electronics Corp.</b> www.hirschelectronics.com	<b>MF -B, C, RFID -C (MG, CM, SM, CL, OPT, FP), TAG (RF &lt;LF, HF, MW &gt;), R (HH, FX, RF, I), T (HH, FX, RF, I, BC, FP, IF, VT, VF), SW, EP, GP</b> 1900-B Carnegie Ave., 92705 Santa Ana, CA, Usa	Tel. 1/949/250/8888	Fax 1/949/250/7372
<b>HJP Consulting</b> www.hjp-consulting.com	<b>SH, SI -C, RFID -SW</b> Hauptstraße 35, 33178 Borcheln, Germany	Tel. 49/5251/417760	Fax 49/5251/4177666
<b>Honeywell Access Systems</b> www.honeywellaccess.com	<b>MF, SH -RFID, B -C (MG, CM, SM, CL, FP), M (TTR, H), P (TTR), R (HH, RF), S (HH)</b> 2700 Blankenbaker Pkwy, Suite 150, 40291 Louisville, KY, Usa	Tel. 1/800/6753364	Fax 1/502/2975770
<b>IAI industrial systems B.V.</b> www.iai.nl	<b>MF -C -C (CM), MC, EP, GP</b> P.O. Box 200, 5500 AE Veldhoven, The Netherlands	Tel. 31/40/2542445	Fax 31/40/2545635
<b>Identitas</b> www.identitas.it	<b>D -C, B -C (CM, SM, OPT), T (FP), GP, EP</b> Via Tiburtina 912, 00156 Rome, Italy	Tel. 39/06/4072199	Fax 39/06/4086199
<b>Identive Group</b> www.identive-transponders.com	<b>MF -RFID -TAG (RF &lt;HF, UHF &gt;), M (SL), D - RFID, NFC - IC, TAG (RF &lt;LF, HF &gt;)</b> Mu_hlweg 2c, 82054 Sauerlach, Germany	Tel. 49/8104/6495100	Fax 49/8104/6495110
<b>Idesco Oy</b> www.idesco.fi	<b>MF -RFID, C -C (SM, CL), TAG (RF &lt;LF, HF &gt;), R (RF), T (RF)</b> Teknologiantie 9, 90570 Oulu, Finland	Tel. 358/20/74384175	Fax 358/20/7434176
<b>IDTeck</b> www.idteck.com	<b>MF, D -C, B, RFID -C (CM, SM, CL), TAG (RF &lt;LF, HF, UHF &gt;), T (RF, FP, FF, VF), SW</b> 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangsuh-Gu, 157-030 Seoul, Korea	Tel. 82/2/26590055	Fax 82/2/6590086
<b>iDTronic</b> www.idtronic-group.com	<b>MF -C, RFID -C (CL), M (SL), TAG (RF &lt;LF, HF, UHF &gt;), R (HH, FX, RF, I), T (RF)</b> Donnersbergweg 1, 67059 Ludwigshafen am Rhein, Germany	Tel. 49/621/66900940	Fax 49/621/66900949
<b>ImageWare Systems, Inc.</b> www.iwsinc.com	<b>MF, SH -B, C -T (FP, HG, IF, FF), VR, SW</b> 10883 Thornmint Rd , 92127 San Diego, CA, Usa	Tel. 1/858/673/8600	Fax 1/858/673/1770
<b>Ingenico</b> www.ingenico.com	<b>SH, SI -C, B -T (HH, FX, RF, CL, BC, FP, POS), SW, VT</b> 192 avenue Charles de Gaulle, 92200 Neuilly, France	Tel. 33/1/46258200	Fax 33/1/47725695
<b>InkSure Technologies Inc</b> www.inksure.com	<b>MF -RFID, BC -M (L, TTR, H), TAG (MK)</b> P.O. Box 7006, 19407 Audubon, PA, USA	Tel. 1/954/772/8507	
<b>Innova Card</b> www.innova-card.com	<b>MF -C -IC, SW</b> ZI Athélie IV - Le Forum, Bât. A, Quartier Roumagoua, 13600 La Ciotat , France	Tel. 33/4/42981480	Fax 33/4/42083319
<b>Intelcav</b> www.intelcav.com	<b>MF -C -C (MG, CM, SM, CL, OPT, FP, H)</b> Rua Hungria 514, 50 andar Jardim Paulistano, SP 01455-000 São Paulo, Brazil	Tel. 55/11/2169/0750	Fax 55/11/2169/0769

**Interflex Datensysteme GmbH & Co. KG** MF, SI -B, C -T (RF, FP), SW  
 www.interflex.de P.O. Box 81 03 60, 70520 Stuttgart, Germany Tel. 49/711/13220 Fax 49/711/1322/111

**International Bar Code** MF -C, BC -C (CL), R (RF), S (FX, I)  
 www.interbar.com 160 Oak Street, 06033 Glastonbury, CT, Usa Tel. 1/860/6599660 Fax 1/860/6573860

**International Biometric Group** SI -B, C -SW  
 www.biometricgroup.com One Battery Park Plaza, 10004 New York, NY, Usa Tel. 1/212/8099491 Fax 1/212/8096197

**International Security Tech.** MF -C, BC, B -C (MG, CM, SM, CL, OPT, FP)  
 www.ist-china.com No. 99 Meicun Road, 518049 Shenzhen , Guangdong , P. R.China Tel. 86/755/83124964 Fax 86/755/83315467

**Iris Corporation Berhad** MF, SI, SH, D, VAR -C, B -C (CM, SM, CL, CMA), B (FF), P (CP), R (HH, FX, RF, I), T (IF, HH, FX, I, FP, L, MK, OCR), SW, EP  
 www.iris.com.my Iris Smart Technology Complex, Technology Park Malaysia, 57000 Bukit Jalil, Kuala Lumpur, Malaysia Tel. 603/89960788 Fax 603/89960441

**Ixla srl** MF -C -MC, SW, GP, EP  
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**Keyware** MF, SH, SI -C -C (MG, CM, SM, CL, FP), T (RF, POS), SW, EP  
 www.keyware.com Ikaros Business Park, Ikaroslaan 24, 1930 Zaventem, Belgium Tel. 32/2/3462523 Fax 32/2/3471688

**Kronos Systems Ltd** MF -B, C -T (FP)  
 www.kronos.com/uk Kronos House, Carey Road, RG40 2NP Wokingham, UK Tel. 44/118/9789784 Fax 44/118/9782214

**Kugler Womako** MF - C - MC, C (CMA)  
 www.kugler-womako.com Schlosserstraße 15, 72622 Nürtingen, Germany Tel. +49 7022 70020 Fax +49 7022 33444

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<b>Labau Technology Corporation</b> www.labau.com.tw	<b>MF -BC, C -R (HH, FX), P (CP, TTR), S (FX), T (POS)</b> 3F-3, No 125, Ln 235, Bau Chiau Road, 231 Taipei, Taiwan	Tel. 886/2/89191371	Fax 886/2/89191771
<b>Logicode PTE Ltd</b> www.logicode.com.sg	<b>D -BC, C, RFID -S (HH, FX), R (RF), P, T (RF, BT, BC)</b> 10 Ubi Crescent #05-28, 408564 Ubi Techpark (Lobby B), Singapore	Tel. 65/64588/337	Fax 65/64588/553
<b>Magna Carta Chipcard Solutions</b> www.magna-carta.com	<b>MF -C -C (MG, CM, SM, CL), T, SW</b> Naritaweg 126, 1043 CAAMsterdam, Holland	Tel. 31/20/582/20/50	Fax 31/20/582/20/51
<b>Magtek</b> www.magtek.com	<b>MF -C -S (POS), T (POS)</b> 20725 South Annalee Avenue, 90746 Carson, CA, Usa	Tel. 1/800/421/5208	
<b>Masktech GmbH</b> www.masktech.com	<b>SH -C, B, RFID -IC, SW</b> Fischerstrasse 19, 87435 Kempten, Germany	Tel. 49/831/51210771	Fax 49/831/51210775
	MaskTech is the #1 independent supplier of high security system-on-chip (SoC) solutions, embedded operating systems and related middleware for electronic identification cards, travel documents and authentication solutions. Our portfolio includes generic and customized masked and flash solutions for state-of-the-art Common Criteria certified cryptographic chipsets from all major semiconductor manufacturers. MaskTech products are used in over 50 countries to secure documents and protect more than 100 million ID documents worldwide. MTCOS was the first masked operating system available worldwide that supports the ICAO DOC9303 (ePassport) standards and has been extended successively for national ID (secure signature creation device), eHealth, eDriving License, eResidence Permit and Micropayment functionality. Most applications are included in the OS and can individually or complementary be activated by the user.		
<b>Matica System S.r.l.</b> www.maticasystem.com	<b>MF -C -C (MG, CM, SM, CL, FP), M (TTR, I), P (I, TTR), EP, GP, MC, MV</b> Via G. Rossa 4/6, 20037 Paderno Dugnano (MI), Italy	Tel. 39/02/92272501	Fax 39/02/91084372
<b>Maurer Electronics GmbH</b> www.maurer-electronics.de	<b>MF -C -MC</b> Hanauer Strasse 1, 80992 Munich, Germany	Tel. 49/89/139268630	Fax 49/89/1392680
<b>Melzer maschinenbau GmbH</b> www.melzergmbh.com	<b>MF -C, RFID -MC, C (MG, CM, SM, CL), M (L, SL), TAG (MK, RF&lt;LF, HF, UHF, MW&gt;)</b> Ruhrstr 51-55, 58332 Schwelm, Germany	Tel. 49/2336/9292/80	Fax 49/2336/9292/85
<b>Microsoft Corporation</b> www.microsoft.com	<b>SH -C, B, RFID, DC -SW</b> One Microsoft Way, 98052-6399 Redmond, WA, Usa	Tel. 1/800/642/7676	Fax 1/425/936/7329
<b>Morpho</b> www.morpho.com	<b>MF, SI -C, B -C (CM, SM, CL, FP), R (RF), T (RF, FP, IF, FF), SW, EP, GP</b> Le Ponant de Paris 27, rue Leblanc, F-75512 Paris Cedex 15, France	Tel. 33/1/5811/2500	Fax 33/1/4070/2550
<b>Mühlbauer Group</b> www.muehlbauer.de	<b>MF, SH, SI -RFID, C -C, M (SL), TAG (MK, RF), P (CP, I, TTR), T (FX, RF, I, BT, FP, IF, FF, VF), SW, EP, GP, MC, MV</b> Josef-Muehlbauer-Platz 1, 93426 Roding, Germany	Tel. 49/9461/9520	Fax 49/9461/9521101
<b>Multicard AG</b> www.multicard.com	<b>MF -C -C (MG, CM, SM, CL), T (FP, FF, VF)</b> Widenholzstrasse 1, 8304 Wallisellen, Switzerland	Tel. 41/44/8779000	Fax 41/44/8310003
<b>Nadra</b> www.nadra.gov.pk	<b>VAR, SI, SH -C, B, RFID, DC -SW, EP, GP</b> State Bank of Pakistan Building, Shahrah-e-Jamhuriat, G-5/2, 44000 Islamabad, Pakistan	Tel. 92/51/9205568	Fax 92/51/9202939
<b>Nagra ID</b> www.nagraid.com	<b>MF -C, RFID -C (MG, CM, SM, CL), M (L, TTR, H, I), TAG (RF&lt;LF, HF, UHF&gt;), EP, GP</b> Crêt du Locle 10, 2301La Chaux-de-Fonds, Switzerland	Tel. 41/32/9240404	Fax 41/32/9240400
<b>NBS Technologies Limited</b> www.nbstech.com	<b>MF -C -C (MG, CM, SM, CL) M (TTR, H), P (CP, I, TTR), SW, EP, GP</b> B1 Moorfield Point, Slyfield Industrial Park, GU1 1RU Guildford, Surrey, UK	Tel. 44/1483/563200	Fax 44/1483/511189

<b>NEC Solutions (America) Inc</b> www.necam.com/ids/law	<b>SI -B -T (FP), SW</b> 10850 Gold Center Drive, Suite 200, 95670 Rancho Cordova, CA, Usa	Tel. 1/800/777/2347	Fax 1/916/4637041
<b>Nexus</b> www.vps.de	<b>SH, SI -C, B, NFC, RFID -SW, EP, GP</b> Carl-Zeiss-Strasse 2, 76275 Ettlingen, Germany	Tel. 49/7243/54880	Fax 49/7243/548811
<b>Nfive Software</b> www.nfive.com	<b>SH -C, BC, RFID, B -SW</b> Edificio OneWorld, Urb Belo Horizonte Lt20, 2655-241 Ericeira, Portugal	Tel. 351/261/860450	Fax 351/261/865/647
<b>Oberthur Technologies</b> www.oberthurcs.com	<b>MF, SI -C -C (MG, SM, CL), SW, EP, GP</b> 50, quai Michelet, 92300 Levallois-Perret, France	Tel. 33/1/ 5546/7200	Fax 33/1/ 5546/7201
<b>Omnia Technologies</b> www.omniatags.com	<b>MF -RFID, C -TAG (RF&lt;LF, HF, UHF&gt;)</b> Plot No. 68, Sector - 5, IMT Manesar, 122050 Gurgaon, Haryana, India	Tel. 91/124/4366411	Fax 91/1244366410
<b>Orell Füssli</b> www.ofs.ch	<b>MF -C -C (CL,CM), EP</b> Dietzingerstrasse 3, CH 8036 Zurich, Switzerland	Tel. 41/44/466/7711	Fax 41/44/466/7901
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<b>PAV Card GmbH</b> www.pavcard.de	<b>MF -C, RFID -C (MG, CM, SM, CL), EP, GP, TAG (RF&lt;HF&gt;), M</b> Hamburger Strasse 6, 22952 Luetjensee, Germany	Tel. 49/4154/7990	Fax 49/4154/799151
<b>Prooftag</b> www.prooftag.com	<b>MF -C -C (OPT), M (L), TAG (MK)</b> 350, Av d'Italie, 82000 Montauban, France	Tel. 33/5/63211050	Fax 33/5/63211058
<b>ruhlamat GmbH</b> www.ruhlamat.com	<b>MF - C, RFID - A, C(CL), EP (MK), GP, MC</b> Sonnenacker 2, 99819 Marksuhl, Germany	Tel. 49/369259290	Fax 49/36925929111



ruhlamat is an innovative engineering and machine building company with its headquarters located in Germany. Activities are focused on chip card and passport processing technology, e.g. module preparation, card preparation and personalization, Inlay/RFID solutions and special machinery as well as assembly technology. ruhlamat branches and representations throughout the world create an ideal basis for a professional and area-spanning service network.

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<b>RF IDEas Inc</b> www.rfideas.com	<b>MF -RFID, NFC -C (MG, CM, SM, CL), TAG (RF&lt;LF, HF&gt;), R (RF)</b> 4020 Winnetka Ave, 60008 Rolling Meadows, IL, Usa	Tel. 1/847/8701723	Fax 1/847/4831129
<b>Safe ID Solutions AG</b> www.safe-id.de	<b>MF, SI -C, RFID -C (CL), GP, EP, SW, MC</b> Ottobrunner Str. 43, 82008 Unterhaching, Germany	Tel. 49/89/4521260	Fax 49/89/452126126
<b>SafeNet, Inc.</b> www.safenet-inc.com	<b>MF -C -C (SM), SW</b> 4690 Millennium Drive, 21017 Belcamp, MD, U.S.A.	Tel. 1/410/931/7500	Fax 1/410/931/7524
<b>Schreiner LogiData</b> www.schreiner-logidata.com	<b>MF -C, RFID, BC -C (SM, CL), M(L, SL, I), TAG (RF&lt;HF, UHF&gt;)</b> Bruckmannring 22, 85764 Oberschleissheim, Germany	Tel. 49/89/31584/4140	Fax 49/89/31584/4109
<b>SCM Microsystems (Identiv)</b> www.scmmicro.com	<b>MF -RFID, NFC -R (HH, FX, RF), T (HH, FX, RF)</b> Oskar-Messter-Straße 13, 85737 Ismaning, Germany	Tel. 49/89/9595/5000	Fax 49/89/9595/5555
<b>SecureTech Consultancy</b> www.securetech-consultancy.com	<b>SH, SI, VAR - C (CL, CM, SM), EP, T (FF, OCR, TTR)</b> 827, Street No. 85, I-8/4, Islamabad-44000, Pakistan	Tel. +92 51 111 111 782	Fax +92 51 4436480
<b>Selex Elsag</b> www.selexelsag.com	<b>MF, SH, SI -C, B, RFID, DC -C (CM, SM, CL), TAG (RF&lt;HF, UHF&gt;), P (I), R (HH, FX, RF, I), S (POS, I, OCR), T (FP, FF), SW, GP, EP</b> Via Puccini, 2, 16154 Genova, Italy	Tel. 39/010/65821	Fax 39/010/6512898
<b>Sitroncis</b> www.sitroncis.com	<b>MF -C -C (SM), IC</b> 39/5 3-ya Tverskaya-Yamskaya St. Building I, 125047 Moscow, Russia	Tel. 7/495/2250030	Fax 7/495/2250036
<b>Skidata AG</b> www.skidata.com	<b>MF, D, SI -C, RFID -C (SM, CL, OPT, MG), M (L, TTR), TAG (RF&lt;LF, HF&gt;), P (CP, TTR), R (HH, FX, RF), S (HH, FX, POS), SW, T (HH, FX, BC, POS, VT)</b> Unterbergstrasse 40, 5083 Grödig - Salzburg, Austria	Tel. 43/6246/8880	Fax 43/6246/8887
<b>Smartware</b> www.smartware.fr	<b>MF -C, RFID -EP, GP, R (RF)</b> 11, Avenue des Andes, Le Carthagène, Z.A. de Courtaboeuf, 91940 Les Ulis, France	Tel. 33/1/6486/2525	Fax 33/1/6486/2526
<b>Spartanics</b> www.spartanics.com	<b>MF -C, RFID -C (MG, CM, SM), M (L), P (I)</b> 3605 Edison Place, 60008 Rolling Meadows, IL, Usa	Tel. 1/847/3945700	Fax 1/847/3940409
<b>STMicroelectronics</b> www.st.com	<b>MF -C, RFID, B -C (CM, SM, CL, FP), M (SL), TAG (RF&lt;HF, UHF&gt;), IC</b> 39, Chemin du Champ des Filles CP 21, 1228 Plan-Les-Ouates, Geneva 15, Switzerland	Tel. 41/22/9292929	Fax 41/22/929/2900
<b>Studio Card Ltd.</b> www.rfid.bg	<b>SI, VAR, D -C, RFID -C (CL, SM), M, TAG (RF&lt;LF, HF&gt;), R (RF), T (RF)</b> 36, Dragan Tsankov Blvd., Interpred World Trade Centre, Office B 324, 1040 Sofia, Bulgaria	Tel. 359/886/718545	Fax 359/2/9693330
<b>Symbolic S.p.A.</b> www.symbolic.it	<b>D -C -C (SM)</b> Viale Mentana 29, 43121 Parma, Italy	Tel. 39/0521/708811	Fax 39/0521/776190
<b>Szst Electronics Group</b> www.szst.com	<b>MF -C, DC -C (MG, SM), R, P, T (HH, BC, POS), SW, EP, GP</b> 5/F, West Coast Bldg, Nan You Rd, 518054 Nan Shan Dist., Shenzhen, Guangdong, China	Tel. 86/755/26490094	Fax 86/755/26490099
<b>Texas Instruments RFID Systems</b> www.ti-rfid.com	<b>MF -RFID, C -C (CL), M (SL), TAG (RF&lt;LF, HF, UHF&gt;), IC, A, R (HH, FX, RF), T (RF), SW</b> 6550 Chase Oaks Blvd, 75023 Plano, TX, Usa	Tel. 1/800/962/7343	Fax 1/214/567/7343
<b>Thales</b> www.thalesgroup.com	<b>MF, SI -B, NFC -IC, A, T(FX, FP, IF, FF), SW, EP</b> 20-22 rue Grange Dame Rose, 78141 Velizy, France	Tel. 33/1/73320000	

<b>Trüb AG</b> www.trueb.ch	<b>MF, SI -C, B, NFC -C (MG, CM, SM, CL, FP), M (H), TAG (RF&lt;LF, HF&gt;), IC, A, P (TTR), SW, EP, GP, MC</b> Hintere Bahnhofstrasse 12, 5001 Aarau, Switzerland	Tel. 41/62/8320000	Fax 41/62/8320100
<b>Ultra Electronics Card Systems</b> www.magicard.com	<b>MF -C, BC -M (TTR, H), P (CP, TTR)</b> Hampshire Road, DT4 9XD Weymouth, Dorset, UK	Tel. 44/1305/784738	Fax 44/1305/777118
<b>Unisys</b> www.unisys.com/biometrics	<b>SI, SH, VAR -C, B -C (MG,SM,OPT,FP), T (HH, FX, RF, BT, BC, FP, IF, FF, VF), VR, SW, EP, GP</b> 801 Lakeview Drive, 19422 Blue Bell, PA, Usa	Tel. 1/215/986/4011	
<b>Vasco Data Security International</b> www.vasco.com	<b>MF -C -R (HH), SW</b> Koningin Astridlaan 164, 1780 Wemmel, Belgium	Tel. 32/2/6099700	Fax 32/2/6099709
<b>VeriFone, Inc.</b> www.verifone.com	<b>MF -C -T (HH, POS), P, SW</b> 2099 Gateway Place, Suite 600, 95110 San Jose, CA, Usa	Tel. 1/408/232/7800	Fax 1/408/232/7811
<b>Verisign</b> www.verisign.com	<b>SI -C, DC, RFID -C, SW</b> 487 E. Middlefield Road, 94043 Mountain View, Usa	Tel. 1/650/4263535	
<b>Vision-Box</b> www.vision-box.com	<b>MF -C, B -C, R (FX, FF, FP, VF), T</b> Rua Casal do Canas n.2, Zona Industrial de Alfragide, 2790-204 Carnaxide, Portugal	Tel. 351/21/154/3900	Fax 351/21/154/3901
<b>Vlatacom d.o.o.</b> www.vlatacom.com	<b>MF, SI, SH -C, B, DC -R(HH, FX,RF&lt;HF&gt;), S(OCR), T (HH, BC, FP, FF, RF, VF), SW, EP, GP</b> 5 Milutina Milankovica, 11070 Belgrade, Serbia	Tel. 381/11/377/1100	Fax 381/11/377/1199
<b>Wick Hill Group plc</b> www.wickhill.com	<b>D -B, C -C (SM, CL, FP), SW, EP</b> River Court, GU21 5RP Woking, UK	Tel. 44/1483/227600	Fax 44/1483/227700
<b>Wincor Nixdorf International GmbH</b> www.wincor-nixdorf.com	<b>MF, SH, SI -RFID, C -T (HH, FX, RF, BC, POS, VF), R (HH, FX, POS), SW, P (CP)</b> Heinz-Nixdorf-Ring 1, 33106 Paderborn, Germany	Tel. 49/5251/69330	Fax 49/5251/6936767
<b>WiseKey</b> www.wisekey.com	<b>MF, SH - C, DC - T (VF), SW</b> WorldTrade Center II, 29, Route de Pré-Bois, P.O. Box 853, CH- 1215 Genève 15, Switzerland	Tel. +41 22 594 30 00	
<b>ZeitControl cardsystems</b> www.zeitcontrol.de	<b>MF -C, RFID -M (SL), TAG (RF&lt;LF, HF&gt;), A, R (HH,FX,RF,I), T (HH,FX,RF,I), EP, MC</b> Siedlerweg 39, 32429 Minden, Germany	Tel. 49/571/505220	Fax 49/571/5052299

## LEGENDA

### ROLE IN THE VALUE CHAIN

D = Distributor  
MF = Manufacturer  
SH = Software House  
SI = System Integrator  
VAR = Value Added Reseller

### TECHNOLOGIES

B = Biometrics  
BC = Barcode  
C = Cards  
DC = Data Collection  
NFC = Near Field Comm.  
RFID = Radio Frequency Identification Device  
RTLS = Real Time Loc. System

### PRODUCT CATEGORIES

A = Antenna  
C = Cards  
EP = Electronic Personalization  
GP = Graphic Personalization  
IC = Integrated Circuits  
M = Media  
MC = Machinery  
MV = Machine Vision  
P = Printers  
R = Readers  
S = Scanners  
SW = Software  
T = Terminals  
TAG = Tags  
VR = Voice Recognition

### PRODUCT SPECIFICATIONS

BT = Batch  
BC = Barcode  
CL = Contactless  
CM = Contact Memory  
CMA = Card Materials  
CP = Compact  
DNA = DNA  
EAS = Electronic Art. Surveillance  
FF = Facial Feature  
FP = Fingerprint  
FX = Fixed  
H = Holograms  
HF = High Frequency  
HG = Hand Geometry  
HH = Handheld  
I = Industrial

IF = Iris Feature  
L = Labels  
LF = Low Frequency  
MG = Magnetic  
MK = Marking  
MW = Microwave  
OCR = Optical Char. Recognition  
OPT = Optical  
POS = Point of Sale  
RF = Radio Frequency  
SL = Smart Labels  
SM = Smart  
TTR = Thermal Transfer Ribbon  
UHF = Ultra High Frequency  
VF = Verifier  
VT = Vehicle Terminal

# FINANCE TRANSPARENCY FORUM

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The Sustainability Summit opens its 7th year of activities. At the forefront in 2015: the Finance Transparency Forum, the newest initiative created among its working groups engaging policy makers and industry leaders driving modernization projects for societal development. Among the main priorities set for the Finance Transparency Forum's agenda, the key topics for this year's debate are strengthening regulations, addressing the analytical divide, facilitating financial inclusion, securing a cashless society.

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