

U.S. Mastercard/Visa Credit Cards at Midyear

The top 100 U.S. issuers of Mastercard and Visa credit cards are ranked by outstandings at June 30, 2016, and by total volume for the first six months of this year on pages 8 and 9. Figures for year-end 2015 were published in issues 1081 and 1083.

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Top U.S. GP Credit Card Issuers at Midyear

The 11 largest issuers of general purpose (Visa, Mastercard, American Express, and Discover) credit cards in the U.S. at midyear 2016 accounted for \$673.68 billion in outstandings as of June 30, 2016 (up 4.5%), and \$1.307 trillion in credit card total volume (up

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Mahindra Comviva's Mobiquity Money

Mobiquity Money is the product name of Mahindra Comviva's mobile payment platform capable of handling transactions from multiple access channels including NFC, USSD, IVR, SMS, STK, mobile apps, and online consumer portals. The company has 65

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Wirecard Expands to the U.S.

Citi's U.S.-based prepaid card business will be purchased by Germany-based Wirecard, which will gain its first assets in North America. The price was not announced. Wirecard, which earns a majority of its revenue in Europe from merchant acquiring

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Nethone Fraud Fighting Technology

Nethone began building business intelligence models for revenue growth and customer retention before moving into ecommerce fraud fighting. It builds different risk models (chargebacks, authorizations, customer behavior prediction, and more) for each

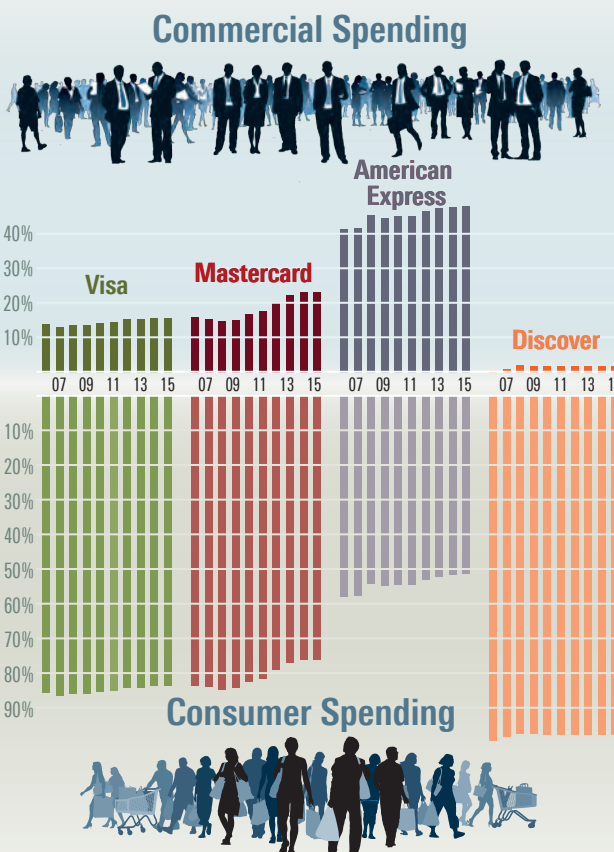
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Chip Card Manufacturers

Shipments of chip cards reached 11.56 billion last year, up 15.1% from 2014. Nearly one-third of those were payment cards with chips — 3.43 billion, up 31.4%. The rest were cards embedded with SIMs for mobile handsets, cards used for transportation and

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Commercial vs. Consumer Cards Share of U.S. Purchase Volume by Brand 2006 – 2015



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U.S. Commercial Cards — Part 3

Combined consumer and commercial credit, debit, and prepaid general purpose cards from U.S. issuers generated \$4.786 trillion in purchase volume for goods and services in 2015. Commercial card products used by employees of private companies, government agencies, and nonprofit organizations generated \$1.066 trillion in purchase volume,

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facturer, Category, and Type of Card

FAST FACTS

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WALGREENS, the largest U.S.-based pharmacy chain with 8,200 stores, offers its 85 million active Balance Rewards loyalty program customers the ability to integrate their loyalty account with Android Pay. Integration of Walgreens Balance Rewards with Apple Pay is also offered.

Barry Hanen is Manager, Payments and Card Services, (847) 315-3765, barry.hanen@walgreens.com, www.walgreens.com.

CARECREDIT, a unit of Synchrony Financial, offers financing to patients of healthcare providers. The company's new CareCredit Direct service allows patients to apply for financing and receive an immediate decision without leaving the provider's office. *Dave Fasoli is CEO at Care-Credit, (714) 434-4100, dave.fasoli@synchronyfinancial.com, www.synchronyfinancial.com.*

MUNICIPAL PARKING SERVICES (MPS), the top manufacturer of smart parking meters, will integrate Cardis's aggregation technology for processing low-value payments into its parking meters. *Jonathan Nierenberg is CMO at Cardis International, (516) 374-9500, jonathan@cardis-international.com, www.cardis-international.com.*

COMPUTER SERVICES, INC. (CSI) has extended its long-term relationship with ACI Worldwide for fraud detection services. CSI offers ACI technology to its financial institution and other customers. ACI Proactive Risk Manager monitors debit card transactions and identifies fraudulent transactions before they occur. *Derrick Bretz is Director of Payment Services at CSI, (270) 442-7361, derrick.bretz@csiweb.com, www.csiweb.com. Andreas Suma is VP at ACI Worldwide, (402) 390-7600, andreas.suma@aciworldwide.com, www.aciworldwide.com.*

MASTERCARD and **PLASTIQ**, an online payment service, are offering cardholders in China the ability to use local credit and debit cards to pay tuition and other costs in the U.S. Planet Payment is providing currency conversion services. *Linda Kirkpatrick is EVP, U.S. Market Development at Mastercard, (914) 249-1804, linda.kirkpatrick@mastercard.com, www.mastercard.com. Eliot Buchanan is CEO at PlastiQ, (617) 984-9223, eliot@plastiQ.com, www.plastiQ.com.*

Q-CARD has achieved Amex Enabled accreditation for physical card testing of American Express payment products. *Jeff Myers is Director of Sales and Marketing at Q-Card, (570) 286-7447, j.myers@brush-qcard.com, www.q-card.com.*

ID INSIGHT has expanded its identity verification-based anti-fraud prevention platform to provide better intelligence about phone number changes as well as email and IP address verification. *Adam Elliott is President, (651) 291-3557, adam.elliott@idinsight.com, www.idinsight.com.*

PHILLIPS 66, **CONOCO**, and **76** branded gas stations and C-stores will offer consumers a mobile app to facilitate payments through a processing deal with Chase. Consumers using the Chase Pay mobile app will also be able to pay at the pump and in-store. Mobile commerce infrastructure vendor P97 Networks will enable the transactions. *Sally Lechin is Director, Card Marketing & Loyalty at Phillips 66, (832) 765-3447, sally.f.lechin@p66.com, www.p66.com. Tom Nipper is Executive Director, Global Enterprise Solutions at Chase Commerce Solutions, (813) 760-7897, tom.nipper@jpmorgan.com, www.chase.com.*

Conferences & Seminars

Payments East Africa 2016: September 27-28, 2016. The Radisson Blu Hotel, Nairobi, Kenya. Estimated attendance: 1,000. Cost for the two-day conference is \$1,100. **Subscribers to The Nilson Report will receive a 20% discount. (Use code XFMH.)** Contact Prima Castelino at Terrapinn, 971 (4) 440-2535, prima.castelino@terrapinn.com. Register at www.terrapinn.com/conference/cards-payments-east-africa/.

Mobey Day 2016: October 5-6, 2016. The CosmoCaixa, Barcelona, Spain. Estimated attendance: 350+. Cost for the two-day conference is \$2,525 (€2,238.50), nonmember banks \$850 (€750). **Subscribers to The Nilson Report will receive a 25% discount. (Use code MD1625%.)** Contact Shalini Sharma at Mobey Forum, 358 (50) 486-3743, shalini.sharma@mobeyforum.org. Register at www.mobeyforum.org/events/mobey-day-2016/.

8th International PLUS-Forum Cards, Payments and Mobile 2016: October 5-6, 2016. The Exhibition and Convention Centre "Sokolniki," Moscow, Russia. Estimated attendance: 1,100. Cost for the two-day conference ranges from \$74 to \$695 (€65 to €615). **Subscribers to The Nilson Report will receive a 20% discount.** Contact Oksana Bykova at Plus Alliance Group, 7 (495) 961-1065, marketing6@plus-alliance.com. Register at www.plus-forum.com/forum_2016_en/oct/.

Trustech 2016 — CARTES: November 29–December 1, 2016. The Palais des Festivals de Cannes, French Riviera, Cannes, France. Estimated attendance: 18,000. Cost for the three-day conference is \$1,680 (€1,500). **Subscribers to The Nilson Report will receive an exclusive discount: €1,100 (US\$1,249). (Use code TTPAR1.)** Contact Jean-Bernard Guyot at Comexposium, 33 (1) 7677-1384, jean-bernard.guyot@comexposium.com. Register at www.trustech-event.com.

Figures include cards in circulation and spending
Credit & Debit Card Issuers in 115 Countries from all World Regions

Asia/Pacific, United States, Europe, Canada Latin America, Middle East/Africa

Merchant Acquirers in 76 Countries from all World Regions

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DISCOVER has joined Visa, Mastercard, and American Express in offering merchants the option of streamlining the checkout process for all chip card transactions. Discover Quick Chip will reduce the time a card needs to remain in a POS terminal. Discover, Diners Club, and Pulse cards are covered. *Ellie Smith is Head of the Chip Center of Excellence at Discover, (623) 643-4154, elinorsmith@discover.com, www.discover.com.*

NATIONAL BENEFIT PROGRAMS, which provides ISOs with white-labeled web portals where their merchant clients can obtain discounts to products and services, has added a business identity theft protection service. iDefend Business monitors business and personal information and instantly alerts users of any suspicious activity. It also provides identity recovery services for businesses that have already been compromised. *Gary Alloy is CEO, (770) 394-7550, gary@nationalbenefitprograms.com, www.nationalbenefitprograms.com.*

AMERICAN EXPRESS CANADA has launched the no-annual-fee Essential Credit Card with an interest rate of 8.99%, the lowest available on any Amex card product in the country. *Aileen Kheraj is VP, Lending Products & Partnerships, (437) 836-5135, aileen.a.kheraj@aexp.com, www.americanexpress.com.*

GEOSWIFT, a provider of cross-border payments between China and the rest of the world, has formed a partnership with Western Union Business Solutions and UnionPay to provide end-to-end tuition payment services for Chinese students studying in the U.S., Canada, Australia, and New Zealand. The U.S. receives about 250,000 Chinese students annually. Australia and New Zealand see close to 100,000, and Canada receives approximately 35,000. *Raymond Qu is CEO at Geoswift, (852) 2312-2168, raymond.qu@geoswift.com, www.geoswift.com. Kerry Agiasotis is President, Business Solutions at Western Union, 44 (208) 576-5771, kerry.agiasotis@westernunion.com, www.westernunion.com. Huiming Cai is General Manager of Strategic Planning at UnionPay, 86 (21) 2026-5946, caihuiming@unionpayintl.com, www.unionpayintl.com.*

VIETCOMBANK in Vietnam will issue a co-brand card with department store Takashimaya on the JCB network. The bank has issued JCB cards since 2012. *Tomokazu Mikami is Deputy Chief Representative at JCB (Thailand) in Hanoi, 84 (4) 3939-2508, tomokazu.mikami@jcbi.com.vn, www.global.jcb/en/, Trinh Thuong Thuc is Deputy Head of Cards at Vietcombank, 84 (8) 3915-2294, thuctt.hcm@vietcombank.com.vn, www.vietcombank.com.vn.*

XPRESSA, an online payment gateway and point-of-sale service provider in South Africa, will deploy Planet Payment's multicurrency pricing (MCP) technology through Absa, its acquiring bank. MCP enables international customers to view pricing and pay using their home currencies. Xpressa merchants will receive settlement in South African rand. *Jonathan Ellis is Managing Director EMEA at Planet Payment, 44 (7816) 673-980, jellis@planetpayment.com, www.planetpayment.com. Ian Pitman is Managing Director at Xpressa, 27 (11) 803-3509, ianp@xpressa.co.za, www.xpressa.co.za. Geoffrey Lee is Head of Absa Card, 27 (10) 246-4035, geoffrey.lee@absa.co.za, www.absa.co.za.*

Management Changes

Lane Dubin has been appointed Senior Vice President, Sales and Marketing at **CPI Card Group**, (303) 973-9311, ldubin@cpicardgroup.com. **Alfredo Vitangcol** has been appointed General Manager in the Philippines at **RS2 Software**, 63 (917) 892-2138, alfredo.vitangcol@rs2.com. **Ivo Distelbrink** has been appointed EVP, Head of APAC at **First Data**, (65) 6511-8708, ivo.distelbrink@firstdata.com. **Roberto Valerio**, CEO at Risk Ident, has been appointed to the European Advisory Board at the **Merchant Risk Council**, 49 (40) 6094-52590, roberto@riskident.com. **Anton Wurr** has been appointed Executive Director of Marketing at **Sterling Payment Technologies**, (813) 369-6085, anton.wurr@sterlingpayment.com. **Grace Chan** has been appointed Senior Business Leader, China Consumer Products Lead Product Management at **Mastercard**, 86 (21) 6105-1900, grace.chan@mastercard.com. **Regina Cheung** has been appointed Senior Business Leader China Operations & Technology Lead at **Mastercard**, 86 (21) 6105-1900, regina.cheung@mastercard.com. **Jeanna McBain** has been appointed Vice President, Controller at **TMG**, (515) 457-2000, jeanna.mc Bain@tmg.global.

ENCASH (Electronic Network Cash Tellers) in the Philippines will deploy Fexco EasyDebit, a service that uses a mobile point-of-sale terminal or PIN entry device in combination with a mobile phone to allow customers to withdraw cash using their ATM card at any accredited merchant. The service will be available to over 75 million BancNet cardholders. Fexco EasyDebit is PCI DSS and EMV Level 1 & 2 compliant. PINs are not stored in the mobile phone. *Eric Severino is CEO at Encash, 63 (2) 892-5092, eseverin@encash-ph.com, www.encash-ph.com. Denis McCarthy is CEO at Fexco, 353 (66) 976-1258, dmccarthy@fexco.com, www.fexco.com.*

SWISSCARD, a joint venture between Credit Suisse and American Express since 1998, will continue to process its consumer and commercial card portfolios on the TSYS TS2 platform. Swisscard is the largest American Express, Visa, and Mastercard credit card issuer in Switzerland with 1.5 million cards. *Rob Hudson is Group Executive at TSYS International, 44 (1904) 562-025, rhudson@tsys.com, www.tsys.com. Marcel Buehrer is CEO at Swisscard, 41 (44) 659-3535, marcel.b.buehrer@swisscard.ch, www.swisscard.ch.*

CSOB, part of KCB Group, has launched the first NFC-based mobile wallet for Android devices in the Czech Republic that supports both Mastercard and Visa cards in the same app. SIA is providing host card emulation support including Visa and Mastercard tokenization for primary account numbers. *Nicola Cordone is SVP and Int'l Division Director at SIA, 39 (02) 6084-4900, nicola.cordone@sia.eu, www.sia.eu. Milos Mincic is Change Manager, Products and Integrations at CSOB, 420 (724) 635-944, mmincic@csob.cz, www.csob.cz.*

AYEYARWADY BANK (AYA Bank) in Myanmar has launched the first JCB credit and debit card products in the country. *Yuji Matsushita is Country Manager of JCB Thailand Yangon Branch, 95 (1) 860-3397, y.matsushita@jcb-intl.com, www.global.jcb/en. Colin Thura Maung is Director at Ayeayawady Bank, 95 (9) 516-9158, colintm@ayabank.com, www.ayabank.com.*

GLOBAL PAYMENTS will provide EMV and contactless mobile payment acceptance for Mary Kay independent beauty consultants in Canada. Consultants will receive a Bluetooth-enabled reader that pairs with their Apple iOS or Android smartphone or tablet. *Rene Belanger is President, Canada, (416) 847-4333, rene.belanger@globalpay.com, www.globalpaymentsinc.com.*

VISA is promoting Apple Pay contactless payments with card issuers in Hong Kong and Macau. *Caroline Ada is Country Manager, Hong Kong and Macau at Visa, (852) 2842-2309, acarolin@visa.com, www.visa.com.*

WORLDPAY, the 6th largest merchant acquirer worldwide, will provide payment acceptance for China Eastern Airlines at the carrier's local websites in 17 countries. *Shane Happach is Managing Director, Global eCommerce at Worldpay, 44 (203) 664-5265, shane.happach@worldpay.com, www.worldpay.com.*

ELAVON'S Simplify payment software for hotel property management systems has been chosen by Ariane Systems, provider of self-service check-in/out technology to more than 3,000 hotel customers in 25 countries. Simplify handles EMV cards including contactless payments. For in-person kiosk card acceptance, Simplify immediately encrypts card data. *Simon James is SVP of Strategic Customer Solutions at Elavon, 44 (192) 365-1500, simon.james@elavon.com, www.elavon.com.*

Featured Conference

PAYTHINK 2016

Three-Day Conference
September 12-14, 2016
The Hyatt Regency
New Orleans, Louisiana

Topics include: adding cardless capabilities to ATMs, the impact of the fintech sector, the debit industry and the growth opportunities, outsourcing your ATM, making real-time payments real, partnering with new technology firms to drive innovation, and modernizing the branch experience. Speakers represent: Wells Fargo, KeyBank, BBVA, USAA, US Bank, Bank of America, Google, Samsung Pay, Bank of Internet, Tokken, nanoPay, Ingo Money, Cardfree, World First, BitPay, Payveris, Mastercard, Discover, Star, Visa, NYCE, Pulse, Microsoft, Verifone, The Clearing House, the Federal Reserve, and more. Cost ranges from \$995 to \$1,995. (Use discount code NILSON.) *Contact Ingrid Olsen at (212) 803-8456, ingrid.olsen@sourcemediacom or Stephanie DeMartino at (212) 803-6091, stephanie.demartino@sourcemediacom. Register at www.paythinkforum.com.*

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SAVE
\$400

Featured Conference

SCA - SECURITY OF THINGS 2016

Two-Day Conference
October 18-19, 2016
The Hilton Rosemont/Chicago O'Hare
Rosemont, Illinois

Topics include: the security of things: a perspective on securing the IoT ecosystem, understanding security challenges of IoT, digital trust ecosystem, IoT security architectures and frameworks, cryptography of things: payment, security, and privacy, plus many track sessions that address the security of applications, mobile devices, and standards and best practices. Speakers represent: NXP Semiconductors, UL, Exponent, Intercede, Samsung, BitMint, Redwall Technologies, Gemalto, Experian, Online Trust Alliance, and more. Cost is \$895 until October 8, then \$1,045 after that. (Use discount code NILSDISC.) *Contact Bryan Ichikawa at SCA, (703) 582-7862, bichikawa@smartcardalliance.org. Register at www.sca-securityofthings.com.*

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Mahindra Comviva's Mobiquity Money

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deployments in 48 countries involving 70 million registered users. Most are underserved consumers in Africa, Asia, Latin America, and the Middle East. Last year, deployments collectively generated over 200 million transactions averaging more than \$4.00 billion a month.



partners are EcoCash, Barclays, and MobiCash. All involve agent locations where consumers initiate a cash-in transaction to open an account then convert their local currency to emoney. Agents also perform the cash-out transaction, converting emoney back to local currency.

...65 deployments in 48 countries with 70 million registered users.

Mahindra Comviva is the leader in mobile money in Africa, where there are 45 deployments in 32 African countries. Most deployments are by mobile network operators — Airtel, Orange (including Mobinil Egypt), Econet Wireless, Maroc Telecom, NationLink Somalia, and Somtel Somaliland. Other

NFC-based payments at merchants are made in deployments by Airtel Money Tanzania, Airtel Money Rwanda, and EcoCash Zimbabwe. In Tanzania, mobile payments had been handled via USSD and SMS channels for 5 million consumers. Since January 2015, Airtel Money has issued plastic cards that link consumers to their accounts. Merchants are given a GSM-enabled, calculator-sized POS device with NFC

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U.S. Commercial Cards — Part 3

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equal to 22.26% of combined commercial and consumer card purchase volume. This was a slight decline from 22.29% in 2014. Purchase volume on commercial cards grew by 7.6% last year, while purchase volume on consumer cards grew by 7.8%.

Visa purchase volume on commercial cards of \$430.00

billion was up 9.2%. It held a 40.35% market share versus American Express, Mastercard, and Discover for

2015, up from 39.78% in 2014. Visa's consumer card purchase volume grew by 9.4% in 2015, and its market share

of all consumer card products was 61.48%, up from 60.59%.

Visa's market share was 40.35% vs. Amex, Mastercard, and Discover.

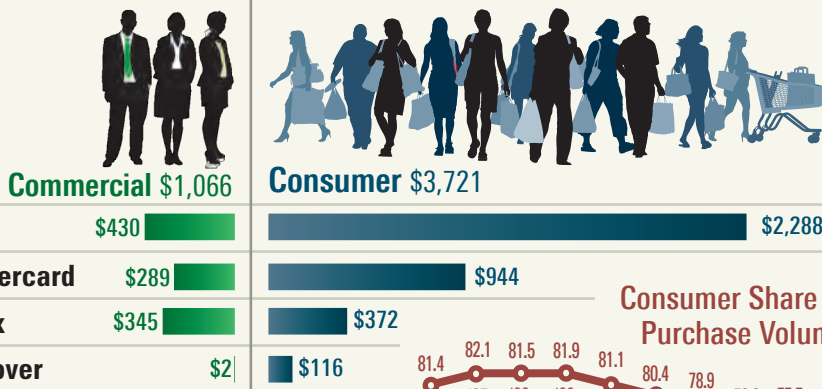
At American Express, commercial card purchase volume of \$344.86 billion grew by 5.1%. Amex's commercial card market share slipped to 32.36% from 33.14% in 2014. Consumer card purchase volume at Amex grew by 4.5% in 2015, while its market share of those products at 10.01% fell from 10.32% the prior year.

Mastercard commercial card purchase volume of \$288.74 billion increased 8.6% in 2015, and its market share of 27.10% was up from 26.86% in 2014. Mastercard purchase volume on consumer cards was up 7.4% in 2015, but its market share of those products at 25.38% was down from 25.46% in 2014.

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Purchase Volume on U.S. Cards* in 2015 (Bil.)

* Credit, Debit, and Prepaid



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U.S. Commercial Cards — Part 3

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Commercial card purchase volume of \$2.04 billion at Discover dipped 7.3%, and its market share fell to 0.19% from 0.22%. Discover commercial card products are limited to small business credit (no longer

being marketed) and debit cards. Purchase volume on Discover consumer cards declined by 6.9% in 2015, and its market share of those products at 3.13% was down from 3.62%. Commercial cards generated 48.08% of combined

consumer and commercial purchase volume at American Express, 23.42% at Mastercard, 15.82% at Visa, and 1.72% at Discover.

Prior issues: 1072, 1049, 1026, 1002

Wirecard Expands to the U.S.

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and related processing services including mobile payments, also issues prepaid cards in eight European countries directly and with mobile network operators.

wirecard

Citi's customers are corporations and government entities that use prepaid Mastercard and Visa cards for incentives and commercial payments. Almost all of the cardholders are in the U.S.

There are no plans to consolidate Citi clients on Wirecard's prepaid card platform, which the company operates in Germany and Singapore. Citi's account processing platform, which it picked up in the 2007 acquisition of Ecount, offers a few products not available on the Wirecard platform, and Citi's customers will gain access to Wirecard's expertise in mobile prepaid. It was a pioneer in that area through technology capable of providing real-time card issuance and personalization. Wirecard believes there is significant growth opportunities, particularly in virtual mobile cards created for the exact amount of a single purchase.

Citi's customers use cards for incentives and commercial payments.

In Europe, Wirecard issues prepaid cards from Wirecard Bank in Germany and Wirecard Solutions in the U.K. Marketing partners include mobile network operators Orange (France and Spain) and Vodafone (Germany, the U.K., Spain, and the Netherlands). Wirecard also issues a prepaid Mastercard product called Boon directly to consumers in the U.K., Germany, Ireland, Austria, Belgium, the Netherlands, and Spain. Wirecard supports Apple Pay and host card emulation (HCE) for Android handsets.

Last year Wirecard expanded into Asia with the acquisition of some assets of Singapore-based Visa Processing Services and all assets of Visa Processing Services (India) for \$16 million. Wirecard joined the Visa Issuer Processing Program, which matches

financial institutions with prepaid card account processors. **Susanne Steidl** is Managing Director,

Acquiring and Issuing at Wirecard in Aschheim, Germany, 49 (89) 4424-1600, susanne.steidl@wirecard.com, www.wirecard.com.

Deirdre Ives is Global Chief Operating Officer at Citi in Conshohocken, Pennsylvania, (610) 234-4549, deirdre.l.ives@citi.com, www.citi.com.

Nethone Fraud Fighting Technology

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merchant and builds distinct models for mobile versus online transactions. The company touts its ability to quickly enable acquirers to on-board online merchants using a simple Java script tool.

In its risk models, Nethone deploys machine learning and a merchant's database of previous transaction history, information it supplements with data obtained from social media, email, and other sources. It then enhances that outside data, enabling it

to identify individual browser behavior and examine as many as 3,000 features of a potential buyer. These profiles help fight fraud and, equally important, fight false positives — a decline of a good transaction for fear of fraud.

The Nethone platform works well for merchants that don't have an in-house fraud fighting

Nethone

staff. Customers in the U.S., Europe, and Latin America that do have in-house fraud fighters saw reductions of up to 50% in transactions designated for manual review. Chargebacks were cut to 0.3% of transactions for merchants that used only Nethone's machine learning. When merchants implement Nethone's Java script with machine learning, results improved even more.

Through a service it calls Instant Rescue, Nethone can plug immediately into a merchant and temporarily help control fraud problems. With added integration, merchants can send Nethone the potential

buyer's behavior at every page on their website not only the payment page. Nethone can then alert the merchant that the buyer is legitimate before they reach the checkout page.

Nethone can also tell merchants that multiple potential buyers stop at a particular place on a page but never buy, allowing a change to be made. Nethone helps with marketing and advertising to

potential buyers that did not make a purchase. If they leave an email address, Nethone can create a profile from previous visits.

Nethone, which is cash flow positive, is part of DaftCode, a Poland-based software development house that creates web and mobile applications for business-to-business and business-to-consumer products.

...reduces transactions designated for manual review by up to 50%.

Aleksander Kijek is Vice President, Operations at Nethone in Warsaw, Poland, 48 (22) 100-5558, aleksander.kijek@nethone.com, www.nethone.com.

Top U.S. GP Credit Card Issuers at Midyear

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8.1%) for January 1 through June 30, 2016, versus the same periods the prior year. All figures include

Top U.S. General Purpose Credit Card Issuers Midyear 2016

Issuer	Outstandings			Total Volume		
	Rank	(Bil.)	Chg.	Rank	(Bil.)	Chg.
JPMorgan Chase	1	\$131.59	5.8%	2	\$291.85	9.5%
Bank of America ¹	2	\$98.10	0.6%	3	\$160.41	5.8%
Citibank ¹	3	\$93.69	15.4%	4	\$124.34	12.9%
Capital One	4	\$82.54	12.3%	5	\$117.83	17.9%
American Express ²	5	\$80.31	-14.3%	1	\$349.82	3.6%
Discover ²	6	\$57.22	4.1%	6	\$63.41	3.9%
Wells Fargo ¹	7	\$36.67	11.0%	8	\$59.61	9.1%
U.S. Bank ¹	8	\$34.33	5.7%	7	\$59.66	11.3%
Barclays ¹	9	\$24.29	14.1%	9	\$36.01	6.6%
USAA ¹	10	\$18.13	3.4%	11	\$21.03	6.0%
Synchrony	11	\$16.80	9.9%	10	\$22.55	11.2%

American Express, Discover, Mastercard, and Visa consumer and commercial credit cards. Outstandings are as of June 30 and do not include retail, oil, or other private label cards. Volume is for January through June. Change is for midyear 2016 vs. mid-year 2015. ¹Includes American Express business. ²Direct issuing business only. Does not include third-party business. © 2016 The Nilson Report

consumer and commercial card products combined. Figures shown for American Express and Discover represent only their direct issuing business. They exclude products issued by third parties, which are credited to those issuers.

American Express moved down to fifth from third vs. midyear 2015 when ranked by outstandings, mainly due to the sale of the Costco portfolio to Citibank.

This resulted in Citibank having the highest dollar increase in outstandings (up \$12.47 billion). Other large increases in outstandings included Capital One (up \$9.06 billion), JPMorgan Chase (up \$7.26 billion), Wells Fargo (up \$3.64 billion), Barclays (up \$3.00 billion), Discover (up \$2.27 billion), and U.S. Bank (up \$1.85 billion).

JPMorgan Chase had the highest dollar increase in total volume (up \$25.26 billion), followed by Capital One (up \$17.85 billion), Citibank (up \$14.17 billion), American Express (up \$12.08 billion), Bank of America (up \$8.86 billion), and U.S. Bank (up \$6.06 billion).

Issuers that had higher increases in total volume than the industry average of 8.1% included JPMorgan Chase, Citibank, Capital One, U.S. Bank, Wells Fargo, and Synchrony Financial.

Outstandings Midyear 2016 U.S. Visa/Mastercard Credit Card Issuers

Rank '16	Rank '15	Issuer	Outstandings (mil.)	Chg.	Cards (000)	Chg.	Rank '16	Rank '15	Issuer	Outstandings (mil.)	Chg.	Cards (000)	Chg.
1	1	JPMorgan Chase	\$131,591.0	6%	93,400	-3%	51	56	Security Service FCU	\$304.7	15%	141	9%
2	2	Bank of America	\$95,372.0	2%	52,437	4%	52	54	Santander Bank	\$301.5	10%	241	14%
3	3	Citibank	\$91,487.4	16%	63,410	21%	53	52	BMW Bank	\$299.3	4%	229	10%
4	4	Capital One	\$82,541.0	12%	90,400	7%	54	53	Alaska USA FCU	\$287.9	2%	129	8%
5	6	Wells Fargo	\$36,031.7	11%	18,541	6%	55	60	Mountain America CU	\$278.3	15%	148	2%
6	5	U.S. Bank	\$34,211.6	5%	20,607	13%	56	55	Bank of the West	\$272.7	1%	240	-14%
7	7	Barclays	\$24,290.3	15%	15,731	5%	57	51	TIB	\$271.9	-7%	377	2%
8	9	Synchrony Financial	\$16,804.2	10%	31,200	6%	58	57	Mich. State Univ. FCU	\$267.5	5%	233	66%
9	8	USAA	\$16,190.5	3%	6,575	5%	59	58	Comdata	\$254.4	2%	2,833	2%
10	10	Navy FCU	\$11,254.3	13%	3,016	12%	60	64	WEX	\$230.7	13%	7,901	11%
11	11	PNC Bank	\$6,017.9	8%	4,553	-1%	61	72	NASA FCU	\$230.0	26%	38	17%
12	12	First Nat'l of Omaha	\$5,447.5	10%	7,073	19%	62	61	Synovus Bank	\$221.9	-2%	228	13%
13	14	TD Bank	\$5,340.7	23%	5,867	19%	63	62	First Tech FCU	\$221.8	4%	150	5%
14	13	Cabela's WFB	\$5,168.7	16%	3,691	5%	64	78	GECU	\$221.3	33%	83	30%
15	15	Credit One	\$3,960.1	32%	8,735	31%	65	67	TMG Financial Services	\$217.8	11%	148	21%
16	17	Alliance Data	\$3,919.1	63%	5,307	29%	66	71	Arvest Bank	\$205.6	12%	216	8%
17	16	Fifth Third	\$2,876.4	-3%	3,447	8%	67	68	Baxter CU	\$205.1	7%	132	12%
18	19	Merrick Bank	\$2,489.3	26%	2,687	30%	68	66	Redstone FCU	\$204.8	4%	103	5%
19	18	BB&T	\$2,123.8	-4%	1,665	5%	69	73	Logix FCU	\$204.4	16%	80	14%
20	21	SunTrust Bank	\$1,856.0	18%	1,715	15%	70	69	UBS Bank	\$200.8	6%	212	2%
21	20	Citizens Bank	\$1,623.8	-2%	2,942	4%	71	63	Patelco CU	\$195.0	-7%	87	2%
22	23	Pentagon FCU	\$1,528.6	5%	586	10%	72	70	First Tennessee	\$189.6	0%	246	11%
23	22	State Farm Bank	\$1,475.0	-1%	1,328	13%	73	76	Delta Community CU	\$184.1	10%	83	0%
24	24	Regions Financial	\$1,445.3	11%	1,782	8%	74	77	Municipal CU	\$183.5	10%	79	11%
25	27	Premier Bankcard	\$1,103.3	12%	3,048	5%	75	81	Members 1st FCU	\$178.5	12%	107	8%
26	28	Commerce Bank	\$962.8	-2%	807	3%	76	75	Wash. State Employ. CU	\$174.9	4%	129	38%
27	29	BMO Harris	\$956.8	9%	726	-5%	77	79	FirstMerit Bank	\$174.3	5%	253	13%
28	26	ICBA Bancard	\$940.6	-15%	1,481	-19%	78	80	Mission FCU	\$171.0	6%	108	10%
29	32	BECU	\$909.5	10%	362	11%	79	74	Simmons Bank	\$169.2	-1%	187	1%
30	30	KeyBank	\$902.9	7%	492	2%	80	82	Wright-Patt CU	\$168.5	13%	107	4%
31	31	HSBC	\$830.6	0%	294	-2%	81	85	Police & Fire FCU	\$160.5	9%	150	5%
32	34	Golden 1 CU	\$642.4	11%	276	14%	82	89	Alliant CU	\$159.5	20%	82	15%
33	33	BBVA Compass	\$634.7	-8%	583	0%	83	84	GTE Financial	\$153.6	4%	67	39%
34	36	SchoolsFirst FCU	\$612.6	8%	365	21%	84	83	Wescom CU	\$149.7	1%	82	9%
35	39	State Employ. CU (N.C.)	\$610.0	19%	460	8%	85	86	United Nations FCU	\$147.4	1%	57	36%
36	35	PSECU	\$609.7	7%	202	-16%	86	90	Comerica Bank	\$146.4	10%	220	52%
37	37	Suncoast CU	\$553.1	-1%	363	4%	87	88	Univ. of Wisconsin CU	\$145.3	7%	106	4%
38	40	M&T Bank	\$535.3	11%	563	14%	88	87	AA CU	\$143.6	5%	75	9%
39	38	1st Financial Bank	\$516.0	-4%	340	1%	89	93	Whitney/Hancock Bank	\$140.3	10%	80	7%
40	41	America First CU	\$475.0	9%	289	10%	90	102	OnPoint Comm. CU	\$135.2	16%	81	11%
41	42	DCU (Digital FCU)	\$444.5	7%	283	9%	91	91	San Diego County CU	\$135.1	3%	98	4%
42	44	First Citizens	\$432.6	10%	415	5%	92	109	Langley FCU	\$133.9	19%	57	17%
43	43	UMB	\$404.3	2%	437	4%	93	94	Aberdeen Prov. Gr. FCU	\$133.5	5%	43	2%
44	47	Zions Bancorporation	\$366.1	9%	382	2%	94	112	State Employees CU Md.	\$133.0	19%	68	6%
45	65	Huntington Bancshares	\$359.0	81%	238	44%	95	92	Spokane Teachers CU	\$133.0	4%	72	4%
46	45	First Hawaiian	\$342.7	-1%	230	-1%	96	105	Redwood CU	\$132.4	15%	49	21%
47	48	VyStar CU	\$327.9	4%	195	12%	97	96	Tower FCU	\$130.1	3%	70	9%
48	50	Randolph Brooks FCU	\$326.5	8%	144	31%	98	99	TDECU	\$129.8	5%	74	19%
49	49	Virginia CU	\$322.4	5%	119	12%	99	97	Arizona FCU	\$125.2	0%	42	3%
50	46	First Niagara Bank	\$318.8	-5%	335	0%	100	101	Tinker FCU	\$124.5	7%	95	7%

As of June 30, 2016 vs. June 30, 2015. Includes both consumer and commercial cards, including virtual accounts.

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Volume Midyear 2016 U.S. Visa/Mastercard Credit Card Issuers

Rank '16	Rank '15	Issuer	Total Vol. (mil.)	Chg.	Purchase Vol. (mil.)	Chg.	Rank '16	Rank '15	Issuer	Total Vol. (mil.)	Chg.	Purchase Vol. (mil.)	Chg.
1	1	JPMorgan Chase	\$291,850.0	9%	\$279,210.0	9%	51	56	City National Bank (Calif.)	\$519.5	36%	\$516.6	36%
2	2	Bank of America	\$156,077.7	7%	\$146,698.6	7%	52	53	Golden 1 CU	\$496.2	17%	\$448.1	21%
3	3	Citibank	\$120,368.8	14%	\$119,400.0	14%	53	57	Huntington Bancshares	\$481.1	36%	\$471.2	35%
4	4	Capital One	\$117,832.0	18%	\$113,267.0	18%	54	51	First Niagara Bank	\$459.0	-6%	\$440.4	-7%
5	6	U.S. Bank	\$59,414.6	11%	\$57,094.6	11%	55	55	Suncoast CU	\$429.9	11%	\$371.9	8%
6	5	Wells Fargo	\$58,931.3	9%	\$55,440.5	9%	56	54	First Tech FCU	\$424.8	9%	\$383.5	8%
7	7	Barclays	\$35,952.3	7%	\$33,794.8	7%	57	59	Randolph Brooks FCU	\$348.4	7%	\$303.3	3%
8	8	Synchrony Financial	\$22,546.2	11%	\$22,447.1	11%	58	58	PSECU	\$346.9	5%	\$268.1	3%
9	9	USAA	\$19,183.1	6%	\$18,142.2	6%	59	60	Whitney/Hancock Bank	\$343.5	7%	\$339.9	7%
10	10	PNC Bank	\$15,449.3	11%	\$14,802.6	11%	60	61	BMW Bank	\$336.2	5%	\$319.4	1%
11	11	Comdata	\$12,963.6	5%	\$12,963.6	5%	61	62	First Arkansas B&T	\$328.8	4%	\$328.5	4%
12	12	Cabela's WFB	\$10,593.5	8%	\$10,564.8	8%	62	64	Santander Bank	\$323.9	12%	\$290.9	13%
13	13	WEX	\$9,228.6	14%	\$9,228.6	14%	63	63	VyStar CU	\$320.0	5%	\$301.7	6%
14	14	Navy FCU	\$8,348.5	14%	\$7,568.4	15%	64	67	RBC Bank (Georgia)	\$319.5	13%	\$317.2	13%
15	19	TD Bank	\$7,864.9	87%	\$7,814.8	89%	65	65	Mich. State Univ. FCU	\$314.0	10%	\$256.1	11%
16	15	First Nat'l of Omaha	\$7,806.0	11%	\$7,376.5	11%	66	66	Delta Community CU	\$309.4	8%	\$286.1	7%
17	18	SunTrust Bank	\$5,624.6	19%	\$5,446.2	18%	67	70	FirstMerit Bank	\$299.6	14%	\$279.6	17%
18	16	Fifth Third	\$5,511.9	3%	\$5,353.9	4%	68	69	Baxter CU	\$290.3	10%	\$279.7	10%
19	23	Alliance Data	\$5,155.5	71%	\$5,146.9	71%	69	68	Mountain America CU	\$289.7	3%	\$282.0	3%
20	21	BB&T	\$4,440.0	10%	\$4,328.3	11%	70	72	Alaska USA FCU	\$266.8	5%	\$258.4	6%
21	20	Commerce Bank	\$4,285.4	2%	\$4,177.8	2%	71	71	FirstBank (Colorado)	\$266.3	4%	\$265.7	4%
22	17	BMO Harris	\$4,195.7	-15%	\$4,171.7	-15%	72	73	Univ. of Wisconsin CU	\$265.0	6%	\$255.1	6%
23	27	Credit One	\$3,000.6	30%	\$2,946.3	30%	73	77	San Diego County CU	\$250.1	8%	\$229.4	9%
24	25	Regions Financial	\$2,927.7	9%	\$2,891.8	9%	74	79	IberiaBank	\$247.9	12%	\$246.9	12%
25	24	ICBA Bancard	\$2,724.7	-5%	\$2,696.1	-5%	75	75	1st Financial Bank	\$245.8	3%	\$241.3	3%
26	26	Citizens Bank	\$2,578.3	5%	\$2,446.5	6%	76	74	Redstone FCU	\$241.8	-3%	\$238.6	-3%
27	29	UMB	\$2,205.2	10%	\$2,200.5	10%	77	76	Simmons Bank	\$239.5	1%	\$234.0	1%
28	28	HSBC	\$2,172.7	2%	\$2,104.8	1%	78	82	United Nations FCU	\$210.3	4%	\$179.9	4%
29	30	State Farm Bank	\$1,861.0	-1%	\$1,757.7	-3%	79	85	Security Service FCU	\$208.3	18%	\$184.5	18%
30	31	Pentagon FCU	\$1,748.0	7%	\$1,613.0	7%	80	80	BancorpSouth	\$207.6	2%	\$200.8	2%
31	32	Comerica Bank	\$1,609.8	20%	\$1,604.7	20%	81	81	Patelco CU	\$207.3	2%	\$191.6	2%
32	33	Zions Bancorporation	\$1,553.0	17%	\$1,538.3	17%	82	83	Wash. State Employ. CU	\$205.2	6%	\$203.3	6%
33	36	Merrick Bank	\$1,542.4	30%	\$1,439.0	29%	83	87	TMG Financial Services	\$202.6	17%	\$201.5	18%
34	35	M&T Bank	\$1,416.2	13%	\$1,383.5	12%	84	84	Bank-Fund Staff FCU	\$190.1	5%	\$179.8	5%
35	34	BBVA Compass	\$1,254.3	-3%	\$757.0	-10%	85	89	Members 1st FCU	\$186.1	12%	\$166.5	11%
36	38	KeyBank	\$1,121.8	12%	\$1,107.7	12%	86	86	Empower FCU	\$183.7	6%	\$174.9	6%
37	39	BECU	\$1,092.2	14%	\$1,023.0	14%	87	90	Virginia CU	\$167.6	6%	\$141.3	9%
38	37	First Hawaiian	\$1,086.8	5%	\$1,079.3	5%	88	91	Tower FCU	\$161.1	5%	\$158.7	5%
39	42	Premier Bankcard	\$984.4	12%	\$949.4	11%	89	93	Mission FCU	\$156.4	8%	\$129.9	8%
40	40	Bank of the West	\$958.1	4%	\$953.2	4%	90	92	Wescom CU	\$154.3	3%	\$149.9	3%
41	41	First Citizens	\$949.8	7%	\$939.8	7%	91	102	Redwood CU	\$147.9	24%	\$144.4	24%
42	44	TIB	\$915.0	8%	\$911.3	8%	92	94	Citizens Equity First CU	\$146.7	3%	\$142.5	3%
43	43	UBS Bank	\$914.1	6%	\$908.8	6%	93	95	Central Bank	\$146.6	5%	\$144.4	5%
44	45	First Tennessee	\$721.2	1%	\$543.2	5%	94	98	Alliant CU	\$146.2	18%	\$145.2	18%
45	46	America First CU	\$715.7	16%	\$555.5	11%	95	96	Police & Fire FCU	\$138.9	3%	\$131.4	3%
46	48	DCU (Digital FCU)	\$588.8	9%	\$491.1	10%	96	105	NASA FCU	\$137.8	22%	\$101.3	29%
47	49	State Employ. CU (N.C.)	\$575.8	10%	\$505.8	12%	97	97	Wright-Patt CU	\$134.7	5%	\$127.0	6%
48	50	Arvest Bank	\$557.9	13%	\$551.7	13%	98	100	Affinity Plus FCU	\$131.3	7%	\$122.2	8%
49	52	SchoolsFirst FCU	\$539.3	11%	\$493.3	13%	99	101	AA CU	\$130.4	7%	\$121.9	7%
50	47	Synovus Bank	\$536.9	-5%	\$534.3	-5%	100	106	Logix FCU	\$127.2	13%	\$125.4	13%

First 6 months of 2016 vs. first 6 months of 2015. Includes both consumer and commercial cards.

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Total Chip Card Shipments

Rank	Manufacturer/Headquarters	Mil.
1	Gemalto Netherlands	2,664.6
2	Oberthur Technologies (OT) France	1,189.5
3	Giesecke & Devrient (G&D) Germany	997.1
4	Safran (was Morpho) Germany	820.9
5	Watchdata System China/Singapore	569.2
6	Beautiful Card Taiwan	389.2
7	Valid Brazil, United States	238.5
8	Jing King Tech Holdings Hong Kong	226.1
9	Goldpac China	210.1
10	Asia Credit Card Production China	190.0
11	XH Smartcard Co. China	180.4
12	Exceet Card Group Germany	170.2
13	CPI Card Group United States	165.8
14	DZ Card Thailand	101.7
15	China Card Smart Card (China Card Group) China	97.8
16	HID Global United States	96.0
17	IntelCav Brazil	72.0
18	Inkript Lebanon	69.4
19	NovaCard Russia	67.5
20	Toppan Printing Japan	55.1
21	Takcere Credit Card Manufacturing China	50.2
22	FutureCard United Arab Emirates	50.1
23	Alioth Russia	45.3
24	ASK France	45.0
25	Austria Card Austria	43.9
26	PGP Group Hong Kong	42.5
27	Workz United Arab Emirates	37.9
28	PAV Card Germany	32.0
29	Perfect Plastic Printing United States	31.6
30	Plastkart Turkey	29.0
31	Abnote United States	26.7
32	ICK South Korea	26.3
33	Rosan Finance Russia	25.7
34	Toshiba Japan	22.2
35	Kyodo Printing Japan	20.9
36	Tag Systems Andorra	20.7
37	MK Smart Vietnam	18.1
38	MCT Cards & Technology India	17.6
39	Masria Card Egypt	16.9
40	Thames Card Technology United Kingdom	16.0
41	Placard Australia	15.8
42	Plastek Cards United States	15.0
43	Taiwan Name Plate (TNP) Taiwan	12.3
44	FoongTone Technology Taiwan	11.0
45	Hogier Gartner & Cia Colombia	10.8
46	Toppan Forms Card Technologies Hong Kong	8.4
47	Swiss Post Solutions Germany	7.4
48	ImCARD El Salvador	6.1
49	Imprensa Nac'l-Casa da Moeda (INCM) Portugal	5.5
50	Siepmann's Card Systems India	4.6

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Shipments by Category and Type of Card 2015

Payment Cards ¹			4 CPI Card Group		
Rank	Manufacturer	Mil.	Rank	Manufacturer	Mil.
1	Gemalto	935.0	4	CPI Card Group	151.8
2	OT	538.0	5	Safran	129.5
3	G&D	406.8	6	Valid	115.4
4	Goldpac	207.8	7	IntelCav	64.0
5	CPI Card Group	158.1	8	Jing King Tech	59.8
6	Safran	153.0	9	Alioth	41.0
7	Valid	115.4	10	NovaCard	31.4
8	Jing King Tech	95.1	11	Goldpac	28.3
9	IntelCav	64.0	12	ICK	23.4
10	Takcere	50.2	13	Toppan Printing	22.3
11	Alioth	45.3	14	Rosan Finance	22.0
12	Exceet Card Group	40.7	15	Watchdata	20.8
13	Austria Card	38.3	16	MCT Cards & Tech.	17.6
14	NovaCard	34.6	17	DZ Card	16.7
15	Toppan Printing	33.0	18	FutureCard	15.0
16	Perfect Plastic	31.6	19	Austria Card	14.8
17	Watchdata	26.7	20	Masria Card	13.0
18	ICK	25.9	21	Hogier Gartner	10.8
19	Rosan Finance	24.1	22	Tag Systems	10.0
20	FutureCard	20.5	23	Exceet Card Group	8.7
21	Asia Credit Card	20.0	24	Toppan Forms	7.1
22	DZ Card	19.7	25	Inkript	6.0
23	Tag Systems	19.7	26	FoongTone Tech.	3.7
24	MCT Cards & Tech.	17.6	27	Beautiful Card	2.6
25	Plastkart	17.0	28	Takcere	1.8
26	Masria Card	15.6	29	Swiss Post Solutions	1.7
27	Abnote	14.2	30	Kyodo Printing	0.9
28	Kyodo Printing	11.5	31	Placard	0.7
29	Hogier Gartner	10.8	32	Abnote	0.6
30	Thames Card Tech.	10.1	33	Taiwan Name Plate	0.2
31	Toppan Forms	7.6	34	INCM	0.1
32	FoongTone Tech.	7.2	Dual-Interface Cards		
33	Taiwan Name Plate	6.5	1	Gemalto	372.0
34	Inkript	6.5	2	G&D	181.0
35	Swiss Post Solutions	4.8	3	Goldpac	175.7
36	Placard	4.7	4	OT	117.9
37	Beautiful Card	3.7	5	Jing King Tech	35.3
38	PGP Group	1.8	6	Austria Card	22.6
39	China Card Smart Card	0.7	7	Safran	20.0
40	MK Smart	0.4	8	Abnote	13.6
41	INCM	0.1	9	Plastkart	12.0
42	XH Smartcard	0.1	10	Exceet Card Group	11.5
Microprocessor Cards			11	Tag Systems	9.7
1	Gemalto	555.0	12	Thames Card Tech.	6.7
2	OT	418.6	13	Taiwan Name Plate	6.3
3	G&D	218.5	14	Watchdata	5.9
			15	Toppan Printing	4.7
			16	Alioth	4.3
			17	Placard	4.0
			18	FutureCard	3.5
			19	FoongTone Tech.	3.5
			20	NovaCard	3.2

¹Payment Cards include Visa, Mastercard, Maestro, American Express, JCB, Diners Club, UnionPay, Discover, debit, ATM, store, and oil company cards.

SIM Telephone Cards			Microprocessor Cards			16 Abnote		
Rank	Manufacturer	Mil.	Rank	Manufacturer	Mil.	Rank	Manufacturer	Mil.
21	Swiss Post Solutions	3.1	1	China Card Group	8.2	16	Abnote	1.0
22	DZ Card	2.5	2	Toshiba	7.4	17	Toshiba	0.7
23	Masria Card	2.5	3	FutureCard	0.5	18	Toppan Forms	0.5
24	ICK	2.3	4	Toppan Printing	0.2	19	FutureCard	0.5
25	Rosan Finance	2.1	5	ICK	<0.1	Less than 0.5 mil: Taiwan Name Plate, Swiss Post Solutions, Goldpac, FoongTone, INCM, Rosan Finance, Masria Card, Tag Systems.		
26	CPI Card Group	2.0	Dual-Interface/Memory Cards			Microprocessor Cards		
27	Takcere	1.6	1	G&D (memory)	7.3	1	OT	84.0
28	China Card Group	0.3	2	ASK	4.0	2	Gemalto	42.1
29	Beautiful Card	0.3	3	OT	2.0	3	Safran	36.4
30	XH Smartcard	0.1	4	Gemalto	2.0	4	G&D	22.0
31	Kyodo Printing	<0.1	5	PGP Group (memory)	1.9	5	Jing King Tech	21.0
Contactless Cards			6	Safran	1.4	6	Watchdata	16.2
1	Takcere	27.8	7	FoongTone Tech.	1.1	7	Toshiba	10.5
2	Asia Credit Card	20.0	8	Plastkart	1.0	8	PAV Card	6.6
3	Exceet Card Group	16.8	9	Rosan Finance	0.9	9	Thames Card Tech.	5.9
4	Kyodo Printing	10.6	10	NovaCard	0.6	10	Austria Card	5.6
5	G&D	7.3	11	MK Smart	16.5	11	INCM	5.3
6	Toppan Printing	6.1	12	FutureCard	12.0	12	Exceet Card Group	4.5
7	CPI Card Group	4.3	13	Goldpac	<0.1	13	Kyodo Printing	4.0
8	Safran	3.5	Prepaid/Gift Cards			14	FutureCard	3.5
9	Goldpac	3.2	Any Chip Type			15	MK Smart	1.2
10	Gemalto	2.0	1	Exceet Card Group	31.5	16	Tag Systems	0.9
11	PGP Group	1.3	2	Plastek Cards	15.0	17	Beautiful Card	0.7
12	OT	1.0	3	FutureCard	1.5	18	Taiwan Name Plate	0.6
13	Austria Card	0.9	Transport/Ticketing Cards			Less than 0.5 mil: Toppan Printing, Inkript, CPI Card Group, Rosan Finance, China Card Group, FoongTone, ICK, Goldpac.		
14	Beautiful Card	0.8	Contactless Cards			Memory Cards		
15	Toppan Forms	0.5	1	Gemalto	46.6	1	Exceet Card Group	15.0
16	DZ Card	0.5	2	China Card Group	46.2	2	PAV Card	12.8
17	FutureCard	0.5	3	ASK	41.0	3	Taiwan Name Plate	4.8
18	Inkript	0.5	4	Watchdata	29.0	4	Abnote	4.5
19	China Card Group	0.3	5	G&D	21.6	5	PGP Group	1.9
20	Perfect Plastic	0.2	6	OT	15.0	6	FutureCard	1.0
21	ICK	<0.1	7	Placard	9.5	7	G&D	0.9
22	Rosan Finance	<0.1	8	Abnote	7.0	8	Kyodo Printing	0.7
23	MCT Cards & Tech.	<0.1	9	FutureCard	6.5	9	Goldpac	0.1
24	NovaCard	<0.1	10	Plastkart	5.0	Dual-Interface Cards		
Memory Cards			11	PGP Group	5.0	1	Exceet Card Group	45.0
1	Perfect Plastic	31.4	12	Siepmann's	4.6	2	Gemalto	15.5
2	Takcere	19.0	13	Toppan Printing	4.1	3	OT	7.5
3	Gemalto	6.0	14	Safran	3.8	4	Jing King Tech	4.5
4	Plastkart	5.0	15	Swiss Post Solutions	2.3	5	Toppan Printing	4.1
5	Exceet Card Group	3.7	16	DZ Card	2.0	6	Watchdata	3.0
6	Thames Card Tech.	3.4	17	Asia Credit Card	2.0	7	PGP Group	2.1
7	FutureCard	1.5	18	Goldpac	1.9	8	G&D	2.1
8	PGP Group	0.6	19	Masria Card	1.3	9	Safran	1.5
9	Goldpac	0.6	20	FoongTone Tech.	0.9	Less than 1 mil: Tag Systems, Kyodo Printing, ICK, Goldpac, FoongTone.		
10	OT	0.5	21	NovaCard	0.9	© 2016 The Nilson Report		
11	MK Smart	0.4	22	Rosan Finance	0.5			
12	Masria Card	<0.1	23	ICK	0.3			
13	Taiwan Name Plate	<0.1	24	XH Smartcard	0.3			
			25	Toppan Forms	0.2			

Chip Card Manufacturers

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ticketing, prepaid gift cards, prepaid phone cards, and nonpayment cards. (See charts on pages 10 and 11.)

Gemalto's share of all payment cards with chips shipped in 2015 was 27.27%, down from 27.93% in 2014. It manufactured 1.01 billion payment cards last year and 92.48% had chips, up from 82.84% in 2014.

OT (Oberthur Technologies) had a 15.69% share of payment cards shipped with chips, up from 13.94%. Of the 676.0 million payment cards OT shipped in 2015, 79.59% had chips, up from 67.40% the previous year.

Giesecke & Devrient (G&D) held a 11.86% share of payment cards with chips shipped last year, down from 13.83% in 2014. Chip cards accounted for 73.72% of the 551.8 million shipped, up from 72.19%.

Of Goldpac's 266.1 million payment cards, 78.09% included chips, up from 63.63%. Chip cards shipped

by CPI Card Group accounted for 33.10% of its 477.6 million payment cards, up from 19.06%.

Safran payment chip cards accounted for 72.93% of its 209.8 million payment cards, up from 70.44%. Payment chip cards produced by Valid accounted for 45.91% of the 251.4 million payment cards it shipped last year, up from 11.58%.

Of the 100.2 million payment cards Jing King shipped last year, chip cards accounted

for 94.92%, up from 89.25%. Of the 165.6 million payment cards Shenzhen Tackere shipped, 30.31% were chip cards, up from 15.81%. Of the 45.8 million payment cards from Alioth, 99.01% included chips, up from 82.11%. Chip cards produced by Austria Card accounted for 95.75% of the 40.0 million payment cards it shipped last year, up from 92.00%.

OT's 15.69% share of payment cards with chips was up from 13.94%.

Mahindra Comviva's Mobiquity Money

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reader. The device links to the merchant's Airtel Money account. Tapping the card on a POS terminal initiates a debit of the consumer's account and a credit to the merchant's. The Airtel Money Rwanda NFC program works the same way.

In Zimbabwe, EcoCash is the name of a mobile payment and banking service with features that include international remittances, bill payments, person-to-person money transfers, savings and credit accounts, as well as NFC-based payments. There are 6 million people who use the service generating \$6.60 billion annually in transaction volume. This is equal to 47% of Zimbabwe's GDP.

Instead of cards, NFC payments are facilitated by stickers affixed to phones. The debiting and crediting of funds works the same as in Tanzania. EcoCash has integrated with 10 banks in Zimbabwe, allowing consumers and merchants to receive money in their mobile account and transfer it to their bank account. Money can also be transferred in the other direction. EcoCash, through a partnership with prepaid card program manager Tutuka, offers a virtual Mastercard product for online purchases and a plastic Mastercard card, which is the first EMV chip & PIN program in Zimbabwe.

Outside Africa, Mobiquity Money deployments are in Guatemala, Honduras, El Salvador, India, Bangladesh, Jordan, Iraq, Afghanistan, Kyrgyzstan, France, and Romania.

Mahindra Comviva customers can choose the Capex model (purchase the technology for in-house management) or Onpex model (revenue sharing).

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