

ALLIANCE DATA SYSTEMS CORP

Form 10-K

February 26, 2019

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2018

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission file number 001-15749

ALLIANCE DATA SYSTEMS CORPORATION

(Exact name of registrant as specified in its charter)

Delaware	31-1429215
(State or other jurisdiction of	(I.R.S. Employer
incorporation or organization)	Identification No.)

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7500 Dallas Parkway, Suite 700 75024
Plano, Texas (Zip Code)
(Address of principal

executive offices)

(214) 494-3000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Name of each exchange on which registered
Common Stock, par value \$0.01 per share	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act:

None

(Title of class)

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.
Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company,” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer (Do not check if a smaller reporting company)
Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

As of June 30, 2018, the aggregate market value of the common stock held by non-affiliates of the registrant was approximately \$12.5 billion, based upon the closing price of \$233.20 per share on the New York Stock Exchange on June 29, 2018, which was the last business day of the registrant’s most recently completed second fiscal quarter.

As of February 20, 2019, 52,997,685 shares of common stock were outstanding.

Documents Incorporated By Reference

Certain information called for by Part III is incorporated by reference to certain sections of the Proxy Statement for the 2018 Annual Meeting of our stockholders, which will be filed with the Securities and Exchange Commission not later than 120 days after December 31, 2018.

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Caution Regarding Forward-Looking Statements

This Form 10-K and the documents incorporated by reference herein contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements give our expectations or forecasts of future events and can generally be identified by the use of words such as “believe,” “expect,” “anticipate,” “estimate,” “intend,” “project,” “plan,” “likely,” “may” or other words or phrases of similar import. Similarly, statements that describe our business strategy, outlook, objectives, plans, intentions or goals also are forward-looking statements. We believe that our expectations are based on reasonable assumptions. Forward-looking statements, however, are subject to a number of risks and uncertainties that could cause actual results to differ materially from the projections, anticipated results or other expectations expressed in this report, and no assurances can be given that our expectations will prove to have been correct. These risks and uncertainties include, but are not limited to, the following:

- loss of, or reduction in demand for services from, significant clients;
- increases in net charge-offs in credit card and loan receivables;
- failure to identify or successfully integrate or disaggregate business acquisitions or divestitures;
- increases in the cost of doing business, including market interest rates;
- inability to access the asset-backed securitization funding market;
- loss of active AIR MILES® Reward Program collectors;
- disruptions in the airline or travel industries;
- increased redemptions by AIR MILES Reward Program collectors;
- unfavorable fluctuations in foreign currency exchange rates;
- limitations on consumer credit, loyalty or marketing services from new legislative or regulatory actions related to consumer protection and consumer privacy;
- increases in FDIC, Delaware or Utah regulatory capital requirements for banks;
- failure to maintain exemption from regulation under the Bank Holding Company Act;
- loss or disruption, due to cyber attack or other service failures, of data center operations or capacity;
- loss of consumer information due to compromised physical or cyber security; and
- those factors discussed in Item 1A of this Form 10-K, elsewhere in this Form 10-K and in the documents incorporated by reference in this Form 10-K.

If one or more of these or other risks or uncertainties materialize, or if our underlying assumptions prove to be incorrect, actual results may vary materially from what we projected. Further risks and uncertainties include, but are not limited to, the structure and timing of any transaction involving Epsilon®, whether and on what terms a transaction will be completed, the possibility that closing conditions for a transaction may not be satisfied or waived, the impact of our strategic evaluations and any transaction on us or our business if a transaction is completed, and whether the benefits of a transaction can be achieved. See “Recent Developments” under Part I, “Item 1. Business” for additional information.

Any forward-looking statements contained in this Form 10-K speak only as of the date made, and we undertake no obligation, other than as required by applicable law, to update or revise any forward-looking statements, whether as a result of new information, subsequent events, anticipated or unanticipated circumstances or otherwise.

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PART I

Item 1. Business.

We are a leading global provider of data-driven marketing and loyalty solutions serving large, consumer-based businesses in a variety of industries. We offer a comprehensive portfolio of integrated outsourced marketing solutions, including customer loyalty programs, database marketing services, end-to-end marketing services, analytics and creative services, direct marketing services and private label and co-brand retail credit card programs. We focus on facilitating and managing interactions between our clients and their customers through all consumer marketing channels, including in-store, online, email, social media, mobile, direct mail and telephone. We capture and analyze data created during each customer interaction, leveraging the insight derived from that data to enable clients to identify and acquire new customers and to enhance customer loyalty. We believe that our services are more valued as businesses shift marketing resources away from traditional mass marketing toward more targeted marketing programs that provide measurable returns on marketing investments.

Our client base of more than 2,200 companies consists primarily of large consumer-based businesses, including well-known brands such as Bank of Montreal, Sobeys Inc., Shell Canada Products, Albert Heijn, Bank of America, General Motors, FedEx, Walgreens, Kellogg's, Citibank, Victoria's Secret, Wayfair, Signet, IKEA and Ulta. Our client base is diversified across a broad range of end-markets, including financial services, specialty retail, grocery and drugstore chains, petroleum retail, automotive, hospitality and travel, telecommunications, insurance and healthcare. We believe our comprehensive suite of marketing solutions offers us a significant competitive advantage, as many of our competitors offer a more limited range of services. We believe the breadth and quality of our service offerings have enabled us to establish and maintain long-standing client relationships.

Recent Developments

In the exercise of its business judgment, our Board of Directors has undertaken an evaluation of our current portfolio of businesses. In November 2018, we announced the exploration of strategic alternatives for Epsilon, including a potential sale of the business. In January 2019, we received preliminary bids for Epsilon and the process continues to advance. There can be no assurance that the exploration of strategic alternatives generally, or this process in particular, will result in any transaction or that a transaction will be consummated. Any final decision regarding strategic alternatives remains subject to approval by our Board of Directors.

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Segments

Our products and services are reported under three segments—LoyaltyOne®, Epsilon and Card Services, and are listed below. Financial information about our segments and geographic areas appears in Note 21, “Segment Information,” of the Notes to Consolidated Financial Statements.

Segment	Products and Services
LoyaltyOne	<ul style="list-style-type: none"> • AIR MILES Reward Program • Short-term Loyalty Programs • Loyalty Services <ul style="list-style-type: none"> —Loyalty consulting —Customer analytics —Creative services —Mobile solutions
Epsilon	<ul style="list-style-type: none"> • Marketing Services <ul style="list-style-type: none"> —Agency services —Marketing technology services —Data services —Strategy and insights services —Traditional and digital marketing —Digital CRM services —Affiliate marketing services
Card Services	<ul style="list-style-type: none"> • Receivables Financing <ul style="list-style-type: none"> —Underwriting and risk management —Receivables funding • Processing Services <ul style="list-style-type: none"> —New account processing —Bill processing —Remittance processing —Customer care • Marketing Services

LoyaltyOne

Our LoyaltyOne clients are focused on acquiring and retaining loyal and profitable customers. We use the information gathered through our loyalty programs to help our clients design and implement effective marketing programs. Our clients within this segment include financial services providers, grocers, drug stores, petroleum retailers and specialty retailers. LoyaltyOne operates the AIR MILES Reward Program and BrandLoyalty.

The AIR MILES Reward Program is a full service outsourced coalition loyalty program for our sponsors, who pay us a fee per AIR MILES reward mile issued, in return for which we provide all marketing, customer service, rewards and redemption management. We typically grant participating sponsors exclusivity in their market category, enabling them to realize incremental sales and increase market share as a result of their participation in the AIR MILES Reward Program coalition.

The AIR MILES Reward Program enables consumers, referred to as collectors, to earn AIR MILES reward miles as they shop across a broad range of retailers and other sponsors participating in the AIR MILES Reward Program. These AIR MILES reward miles can be redeemed by our collectors for travel or other rewards. Through our AIR MILES Cash program option, collectors can also instantly redeem their AIR MILES reward miles collected in the AIR MILES Cash program option toward in-store purchases at participating sponsors. Approximately two-thirds of Canadian households actively participate in the AIR MILES Reward Program, and it has been named a “most influential” Canadian brand in Canada’s Ipsos Influence Index.

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The three primary parties involved in our AIR MILES Reward Program are: sponsors, collectors and suppliers, each of which is described below.

Sponsors. Approximately 140 brand name sponsors participate in our AIR MILES Reward Program, including Shell Canada Products, Jean Coutu, RONA, Amex Bank of Canada, Sobeys Inc. and Bank of Montreal.

Collectors. Collectors earn AIR MILES reward miles at thousands of retail and service locations, typically including any online presence the sponsor may have. Collectors can also earn AIR MILES reward miles at the many locations where collectors can use certain credit cards issued by Bank of Montreal and Amex Bank of Canada. This enables collectors to rapidly accumulate AIR MILES reward miles across a significant portion of their everyday spend. The AIR MILES Reward Program offers a reward structure that provides a quick, easy and free way for collectors to earn a broad selection of travel, entertainment and other lifestyle rewards through their day-to-day shopping at participating sponsors.

Suppliers. We enter into agreements with airlines, manufacturers of consumer electronics and other providers to supply rewards for the AIR MILES Reward Program. The broad range of rewards that can be redeemed is one of the reasons the AIR MILES Reward Program remains popular with collectors. Over 400 suppliers use the AIR MILES Reward Program as an additional distribution channel for their products. Suppliers include well-recognized companies in diverse industries, including travel, hospitality, electronics and entertainment.

BrandLoyalty designs, implements, conducts and evaluates innovative and tailor-made loyalty programs for grocers worldwide. These loyalty programs are designed to generate immediate changes in consumer behavior and are offered through leading grocers across Europe and Asia, as well as around the world. These short-term loyalty programs are designed to drive traffic by attracting new customers and motivating existing customers to spend more because the reward is instant, topical and newsworthy. These programs are tailored for the specific client and are designed to reward key customer segments based on their spending levels during defined campaign periods. Rewards for these programs are sourced from, and in some cases produced by, key suppliers in advance of the programs being offered based on expected demand. Following the completion of each program, BrandLoyalty analyzes spending data to determine the grocer's lift in market share and the program's return on investment.

Epsilon

Epsilon is a leading marketing services firm providing end-to-end, integrated marketing solutions that leverage rich data, analytics, creativity and technology to help clients more effectively acquire, retain and grow relationships with their customers. Services include strategic consulting, customer database technologies, omnichannel marketing, loyalty management, proprietary data, predictive modeling, permission-based email marketing, personalized digital marketing, affiliate marketing and a full range of direct and digital agency services. On behalf of our clients, we

develop marketing programs for individual consumers with highly targeted offers and personalized communications via our digital media practice, Conversant®, to create better customer experiences. Since these communications are more relevant to the consumer, the consumer is more likely to be responsive to these offers, resulting in a measurable return on our clients' marketing investments. We distribute marketing campaigns and communications through all marketing channels based on the consumer's preference, including direct mail and digital platforms such as email, mobile, display and social media. Epsilon has over 1,800 clients, operating primarily in the financial services, insurance, media and entertainment, automotive, consumer packaged goods, retail, travel and hospitality, pharmaceutical/healthcare and telecommunications industries.

Agency Services. Through our consulting services we analyze our clients' business, brand and/or product strategy to create customer acquisition and retention plans and tactics designed to further optimize our clients' customer relationships and marketing return on investment. We offer ROI-based targeted marketing services through data-driven creative, digital user experience design technology, customer relationship marketing, consumer promotions marketing, direct and digital shopper marketing, distributed and local area marketing, and services that include brand planning and consumer insights.

Marketing Technology Services. For large consumer-facing brands, we design, build and operate complex consumer marketing databases, including loyalty program management, such as the Dunkin' Donuts DD Perks®, Walgreens Balance® Rewards and Citi Thank You® programs. Our solutions are highly customized and support our clients' needs for real-time data integration from a multitude of data sources, including multichannel transactional data.

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Data Services. We believe we are one of the leading sources of comprehensive consumer data essential to marketers when making informed marketing decisions. Together with our clients, we use this data to create customer profiles and develop highly-targeted, personalized marketing programs that increase response rates and build stronger customer relationships.

Strategy and Insights. We provide behavior-based, demographic and attitudinal customer segmentation, purchase analysis, web analytics, marketing mix modeling, program optimization, predictive modeling and program measurement and analysis. Through our analytical services, we gain a better understanding of consumer behavior that can help our clients as they develop customer relationship strategies.

Traditional and Digital Marketing. We provide strategic communication solutions and our end-to-end suite of products and services includes strategic consulting, creative services, campaign management and delivery optimization. We deploy marketing campaigns and communications through all marketing channels, including direct mail and digital platforms such as email, display, mobile, video and social digital channels. We also operate what we believe to be one of the largest global permission-based email marketing platforms in the industry, sending tens of billions of emails per year on behalf of our clients, and enabling clients to build campaigns using measurable distribution channels. Conversant offers a fully integrated personalization platform and personalized media programs that are fueled by an in-depth understanding of what motivates people to engage, connect and buy. Further, Conversant helps companies grow by creating personalized experiences that deliver higher returns for brands and greater value for consumers.

Affiliate Marketing. We operate CJ Affiliate, one of the world's largest affiliate marketing networks specializing in pay-for-performance programs designed to drive results. Our network helps to create connections amid millions of online consumers daily by facilitating relationships between advertisers and publishers.

Card Services

Our Card Services segment assists some of the best known retailers in extending their brand with a private label and/or co-brand credit card account that can be used by their customers in the store, or through online or catalog purchases. Our partners benefit from customer insights and analytics, with each of our credit card branded programs tailored to our partner's brand and their unique card members.

Receivables Financing. Our Card Services segment provides risk management solutions, account origination and funding services for our more than 160 private label and co-brand credit card programs. Through these credit card programs, as of December 31, 2018, we had \$16.9 billion in principal receivables from 41.7 million active accounts, with an average balance for the year ended December 31, 2018 of approximately \$762 for accounts with outstanding balances. L Brands and its retail affiliates accounted for approximately 10% of our average credit card and loan receivables for the year ended December 31, 2018. We process millions of credit card applications each year using

automated proprietary scoring technology and verification procedures to make risk-based origination decisions when approving new credit card accountholders and establishing their credit limits. Credit quality is monitored at least monthly during the life of an account. We augment these procedures with credit risk scores provided by credit bureaus. This information helps us segment prospects into narrower risk ranges, allowing us to better evaluate individual credit risk.

Our accountholder base consists primarily of middle- to upper-income individuals, including women who use our credit cards primarily as brand affinity tools. These accounts generally have lower average balances compared to balances on general purpose credit cards. We focus our sales efforts on prime borrowers and do not target sub-prime borrowers.

We use securitization and deposit programs as principal funding vehicles for our credit card receivables. Securitizations involve the packaging and selling of both current and future receivable balances of credit card accounts to a master trust, which is a variable interest entity, or VIE. We have three master trusts that are consolidated in our financial statements.

Processing Services. We perform processing services and provide service and maintenance for private label and co-brand credit card programs. We use automated technology for bill preparation, printing and mailing, and also offer consumers the ability to view, print and pay their bills online. By doing so, we improve the funds availability for both our clients and for those private label and co-brand credit card receivables that we own or securitize. We also provide

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collection activities on delinquent accounts to support our private label and co-brand credit card programs. Our customer care operations are influenced by our retail heritage and we view every customer touch point as an opportunity to generate or reinforce a sale. Our call centers are equipped to handle a variety of inquiry types, including phone, mail, fax, email, text and web. We provide focused training programs in all areas to achieve the highest possible customer service standards and monitor our performance by conducting surveys with our clients and their customers. For the thirteenth time since 2003, we were certified as a Center of Excellence for the quality of our operations, the most prestigious ranking attainable, by BenchmarkPortal. Founded by Purdue University in 1995, BenchmarkPortal is a global leader of best practices for call centers.

Marketing Services. Our private label and co-brand credit card programs are designed specifically for retailers and have the flexibility to be customized to accommodate our clients' specific needs. Through our integrated marketing services, we design and implement strategies that assist our clients in acquiring, retaining and managing valuable repeat customers. Our credit card programs capture transaction data that we analyze to better understand consumer behavior and use to increase the effectiveness of our clients' marketing activities. We use multi-channel marketing communication tools, including in-store, web, permission-based email, mobile messaging and direct mail to reach our clients' customers.

Disaster and Contingency Planning

We operate, either internally or through third-party service providers, multiple data processing centers to process and store our customer transaction data. Given the significant amount of data that we or our third-party service providers manage, much of which is real-time data to support our clients' commerce initiatives, we have established redundant capabilities for our data centers. We have a number of safeguards in place that are designed to protect us from data-related risks and in the event of a disaster, to restore our data centers' systems.

Protection of Intellectual Property and Other Proprietary Rights

We rely on a combination of copyright, trade secret and trademark laws, confidentiality procedures, contractual provisions and other similar measures to protect our proprietary information and technology used in each segment of our business. We generally enter into confidentiality or license agreements with our employees, consultants and corporate partners, and generally control access to and distribution of our technology, documentation and other proprietary information. Despite the efforts to protect our proprietary rights, unauthorized parties may attempt to copy or otherwise obtain the use of our products or technology that we consider proprietary and third parties may attempt to develop similar technology independently. We have a number of domestic and foreign patents and pending patent applications. We pursue registration and protection of our trademarks primarily in the United States and Canada, although we also have either registered trademarks or applications pending for certain marks in other countries. No individual patent or license is material to us or our segments other than that we are the exclusive Canadian licensee of the AIR MILES family of trademarks pursuant to a perpetual license agreement with Diversified Royalty Corp., for which we pay a royalty fee. We believe that the AIR MILES family of trademarks and our other trademarks are

important for our branding, corporate identification and marketing of our services in each business segment.

Competition

The markets for our products and services are highly competitive. We compete with marketing services companies, credit card issuers, and data processing companies, as well as with the in-house staffs of our current and potential clients.

LoyaltyOne. As a provider of marketing services, our LoyaltyOne segment generally competes with advertising and other promotional and loyalty programs, both traditional and online, for a portion of a client's total marketing budget. In addition, we compete against internally developed products and services created by our existing and potential clients. We expect competition to intensify as more competitors enter our market. Competitors may target our sponsors, clients and collectors as well as draw rewards from our rewards suppliers. Our ability to generate significant revenue from clients and loyalty partners will depend on our ability to differentiate ourselves through the products and services we provide and the attractiveness of our loyalty and rewards programs to consumers. The continued attractiveness of our loyalty and rewards programs will also depend on our ability to remain affiliated with sponsors and suppliers that are desirable to consumers and to offer rewards that are both attainable and attractive to consumers.

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Epsilon. Our Epsilon segment generally competes with a variety of niche providers as well as large media/digital agencies. For the niche provider competitors, their focus has primarily been on one or two services within the marketing value chain, rather than the full spectrum of data-driven marketing services used for both traditional and online advertising and promotional marketing programs. For the larger media/digital agencies, most offer the breadth of services but typically do not have the internal integration of offerings to deliver a seamless “one stop shop” solution, from strategy to execution across traditional as well as digital and emerging technologies. In addition, Epsilon competes against internally developed products and services created by our existing clients and others. We expect competition to intensify as more competitors enter our market and technologies evolve. For our targeted direct marketing services offerings, our ability to continue to capture detailed customer transaction data is critical in providing effective marketing and loyalty strategies for our clients. Our ability to differentiate the mix of products and services that we offer, together with the effective delivery of those products and services, are also important factors in meeting our clients’ objective to continually improve their return on marketing investment.

Card Services. Our Card Services segment competes primarily with financial institutions whose marketing focus has been on developing credit card programs with large revolving balances. These competitors further drive their businesses by cross-selling their other financial products to their cardholders. Our focus has primarily been on targeting specialty retailers that understand the competitive advantage of developing loyal customers. Typically, these retailers seek customers that make more frequent but smaller transactions at their retail locations. As a result, we are able to analyze card-based transaction data we obtain through managing our credit card programs, including customer specific transaction data and overall consumer spending patterns, to develop and implement successful marketing strategies for our clients. As an issuer of private label retail credit cards and co-brand Visa®, MasterCard® and Discover® credit cards, we also compete with general purpose credit cards issued by other financial institutions, as well as cash, checks and debit cards.

Regulation

Federal and state laws and regulations extensively regulate the operations of our bank subsidiaries, Comenity Bank and Comenity Capital Bank. Many of these laws and regulations are intended to maintain the safety and soundness of Comenity Bank and Comenity Capital Bank, and they impose significant restraints to which other non-regulated companies are not subject. Because Comenity Bank is deemed a credit card bank and Comenity Capital Bank is an industrial bank within the meaning of the Bank Holding Company Act, we are not subject to regulation as a bank holding company. If we were subject to regulation as a bank holding company, we would be constrained in our operations to a limited number of activities that are closely related to banking or financial services in nature. As a state bank, Comenity Bank is subject to overlapping supervision by the FDIC and the State of Delaware; as an industrial bank, Comenity Capital Bank is subject to overlapping supervision by the FDIC and the State of Utah. Both Comenity Bank and Comenity Capital Bank are under the supervision of the Consumer Financial Protection Bureau, or CFPB—a federal consumer protection regulator with authority to make further changes to the federal consumer protection laws and regulations—who may, from time to time, conduct reviews of their practices.

Comenity Bank and Comenity Capital Bank must maintain minimum amounts of regulatory capital, including maintenance of certain capital ratios, paid-in capital minimums, and an appropriate allowance for loan loss, as well as

meeting specific guidelines that involve measures and ratios of their assets, liabilities, regulatory capital and interest rate, among other factors. If Comenity Bank or Comenity Capital Bank does not meet these capital requirements, their respective regulators have broad discretion to institute a number of corrective actions that could have a direct material effect on our financial statements. To pay any dividend, Comenity Bank and Comenity Capital Bank must maintain adequate capital above regulatory guidelines.

We are limited under Sections 23A and 23B of the Federal Reserve Act in the extent to which we can borrow or otherwise obtain credit from or engage in other “covered transactions” with Comenity Bank or Comenity Capital Bank, which may have the effect of limiting the extent to which Comenity Bank or Comenity Capital Bank can finance or otherwise supply funds to us. “Covered transactions” include loans or extensions of credit, purchases of or investments in securities, purchases of assets, including assets subject to an agreement to repurchase, acceptance of securities as collateral for a loan or extension of credit, or the issuance of a guarantee, acceptance, or letter of credit. Although the applicable rules do not serve as an outright bar on engaging in “covered transactions,” they do require that we engage in “covered transactions” with Comenity Bank or Comenity Capital Bank only on terms and under circumstances that are substantially the same, or at least as favorable to Comenity Bank or Comenity Capital Bank, as those prevailing at the time for comparable transactions with nonaffiliated companies. Furthermore, with certain exceptions, each loan or

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extension of credit by Comenity Bank or Comenity Capital Bank to us or our other affiliates must be secured by collateral with a market value ranging from 100% to 130% of the amount of the loan or extension of credit, depending on the type of collateral.

We are required to monitor and report unusual or suspicious account activity as well as transactions involving amounts in excess of prescribed limits under the Bank Secrecy Act, Internal Revenue Service, or IRS, rules, and other regulations. Congress, the IRS and the bank regulators have focused their attention on banks' monitoring and reporting of suspicious activities. Additionally, Congress and the bank regulators have proposed, adopted or passed a number of new laws and regulations that may increase reporting obligations of banks. We are also subject to numerous laws and regulations that are intended to protect consumers, including state laws, the Truth in Lending Act, as amended by the Credit Card Accountability, Responsibility and Disclosure Act of 2009, or the CARD Act, Equal Credit Opportunity Act and Fair Credit Reporting Act. These laws and regulations mandate various disclosure requirements and regulate the manner in which we may interact with consumers. These and other laws also limit finance charges or other fees or charges earned in our lending activities. We conduct our operations in a manner that we believe excludes us from regulation as a consumer reporting agency under the Fair Credit Reporting Act. If we were deemed a consumer reporting agency, however, we would be subject to a number of additional complex regulatory requirements and restrictions.

A number of privacy laws and regulations have been enacted in the United States, Canada, the European Union, China and other international markets in which we operate. These laws and regulations place many restrictions on our ability to collect and disseminate customer information. In addition, the enactment of new or amended legislation around the world could place additional restrictions on our ability to utilize customer information. For example, Canada has enacted privacy legislation known as the Personal Information Protection and Electronic Documents Act. Among its principles, this act requires organizations to obtain a consumer's consent to collect, use or disclose personal information. Under this act, which took effect on January 1, 2001, the nature of the required consent depends on the sensitivity of the personal information, and the act permits personal information to be used only for the purposes for which it was collected. Some Canadian provinces have enacted substantially similar privacy legislation.

In the United States under the Gramm-Leach-Bliley Act, we are required to maintain a comprehensive written information security program that includes administrative, technical and physical safeguards relating to customer information. It also requires us to provide initial and annual privacy notices to customers that describe in general terms our information sharing practices. If we intend to share nonpublic personal information about customers with affiliates and/or nonaffiliated third parties, we must provide our customers with a notice and a reasonable period of time for each customer to "opt out" of any such disclosure. In Canada, the Act to promote the efficiency and adaptability of the Canadian economy by regulating certain activities that discourage reliance on electronic means of carrying out commercial activities, and to amend the Canadian Radio-television and Telecommunications Commission Act, the Competition Act, the Personal Information Protection and Electronic Documents Act and the Telecommunications Act, more generally known as Canada's Anti-Spam Legislation, may restrict our ability to send commercial "electronic messages," defined to include text, sound, voice and image messages to email, or similar accounts, where the primary purpose is advertising or promoting a commercial product or service to our customers and prospective customers. The Act requires that a sender have consent to send a commercial electronic message, and provide the customers with an opportunity to opt out from receiving future commercial electronic email messages from the sender. In the European Union, the Directive 95/46/EC of the European Parliament, or the EU Parliament, and of the Council of 24 October

1995 required member states to implement and enforce a comprehensive data protection law that was based on principles designed to safeguard personal data, defined as any information relating to an identified or identifiable natural person. The Directive framed certain requirements for transfer outside of the European Economic Area and individual rights such as consent requirements. In January 2012, the European Commission proposed the General Data Protection Regulation, or the GDPR, a new European Union-wide legal framework to govern data sharing and collection and related consumer privacy rights. On May 25, 2018, the GDPR came into force and replaced the European Union Directive 95/46/EC and applies to and binds the 28 EU Member States. Compared to the Directive, the GDPR has resulted in greater compliance obligations, including the implementation of a number of processes and policies around our data collection and use.

In addition to U.S. federal privacy laws with which we must comply, states and cities also have adopted statutes, regulations or other measures governing the collection and distribution of nonpublic personal information about customers. In some cases these state measures are preempted by federal law, but if not, we monitor and seek to comply with individual state and local privacy laws in the conduct of our business. The European Union has also released a draft of the proposed reforms to the ePrivacy Directive that governs the use of technologies to collect consumer information.

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Similarly, it is possible that in the future, U.S. and foreign jurisdictions may adopt legislation or regulations that impair our ability to effectively track consumers' use of our advertising services, such as the FTC's proposed "Do-Not-Track" standard or other legislation or regulations similar to EU Directive 2009/136/EC, commonly referred to as the "Cookie Directive," which directs EU Member States to ensure that accessing information on an internet user's computer, such as through a cookie, is allowed only if the internet user has given his or her consent.

We also have systems and processes to comply with the USA PATRIOT ACT of 2001, which is designed to deter and punish terrorist acts in the United States and around the world, to enhance law enforcement investigatory tools, and for other purposes.

Ontario's Protecting Rewards Points Act (Consumer Protection Amendment), 2016, and additional related regulations effective January 2018, prohibit suppliers from entering into or amending consumer agreements to provide for the expiry of rewards points due to the passage of time alone, while permitting the expiry of rewards points if the underlying consumer agreement is terminated and that agreement provides that reward points expire upon termination. Similar legislation pertaining to the expiry of rewards points due to the passage of time alone was passed in Quebec in 2017.

Employees

As of December 31, 2018, we had approximately 20,000 employees. We believe our relations with our employees are good. We have no collective bargaining agreements with our employees.

Other Information

Our corporate headquarters are located at 7500 Dallas Parkway, Suite 700, Plano, Texas 75024, where our telephone number is 214-494-3000.

We file or furnish annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public at the SEC's website at www.sec.gov. You may also obtain copies of our annual, quarterly and current reports, proxy statements and certain other information filed or furnished with the SEC, as well as amendments thereto, free of charge from our website, www.AllianceData.com. No information from this website is incorporated by reference herein. These documents are posted to our website as soon as reasonably practicable after we have filed or furnished these documents with the SEC. We post our audit committee, compensation committee, nominating and corporate governance committee, and executive committee charters, our corporate governance guidelines, and our code of ethics, code of ethics for Senior Financial Officers, and code of

ethics for Board Members on our website. These documents are available free of charge to any stockholder upon request.

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Item 1A.Risk Factors.

RISK FACTORS

Strategic Business Risk and Competitive Environment

Our 10 largest clients represented 31% and 33%, respectively, of our consolidated revenue for the years ended December 31, 2018 and 2017, and the loss of any of these clients could cause a significant drop in our revenue.

We depend on a limited number of large clients for a significant portion of our consolidated revenue. Our 10 largest clients represented approximately 31% and 33%, respectively, of our consolidated revenue during the years ended December 31, 2018 and 2017, with no single client representing more than 10% of our consolidated revenue during either of these periods. A decrease in revenue from any of our significant clients for any reason, including a decrease in pricing or activity, or a decision either to utilize another service provider or to no longer outsource some or all of the services we provide, could have a material adverse effect on our consolidated revenue.

LoyaltyOne. LoyaltyOne represents 14% and 17%, respectively, of our consolidated revenue for the years ended December 31, 2018 and 2017. Our 10 largest clients in this segment represented approximately 56% and 59%, respectively, of our LoyaltyOne revenue on a gross basis for the years ended December 31, 2018 and 2017. Bank of Montreal represented approximately 19% and 21%, respectively, of this segment's revenue on a gross basis for the years ended December 31, 2018 and 2017. Sobeys Inc. and its retail affiliates represented approximately 12% and 14%, respectively, of this segment's revenue on a gross basis for the years ended December 31, 2018 and 2017. Our contract with Bank of Montreal expires in 2020, subject to automatic renewals. Our contract with Sobeys Inc. and its retail affiliates expires in 2024, subject to contract terms.

Epsilon. Epsilon represents 27% and 29%, respectively, of our consolidated revenue for the years ended December 31, 2018 and 2017. Our 10 largest clients in this segment represented approximately 32%, of our Epsilon revenue for each of the years ended December 31, 2018 and 2017, with no single client representing more than 10% of Epsilon's revenue during either of these periods.

Card Services. Card Services represents 59% and 54%, respectively, of our consolidated revenue for the years ended December 31, 2018 and 2017. Our 10 largest clients in this segment represented approximately 49% and 52%, respectively, of our Card Services revenue for the years ended December 31, 2018 and 2017. L Brands and its retail affiliates represented approximately 13% and 16%, respectively, of this segment's revenue for the years ended December 31, 2018 and 2017. Our contract with L Brands and its retail affiliates expires in 2026.

We expect growth in our Card Services segment to result from new and acquired credit card programs whose credit card receivables performance could result in increased portfolio losses and negatively impact our profitability.

We expect an important source of growth in our credit card operations to come from the acquisition of existing credit card programs and initiating credit card programs with retailers and others who do not currently offer a private label or co-brand credit card. Although we believe our pricing and models for determining credit risk are designed to evaluate the credit risk of existing programs and the credit risk we are willing to assume for acquired and start-up programs, we cannot be assured that the loss experience on acquired and start-up programs will be consistent with our more established programs. The failure to successfully underwrite these credit card programs may result in defaults greater than our expectations and could have a material adverse impact on us and our profitability.

Increases in net charge-offs could have a negative impact on our net income and profitability.

The primary risk associated with unsecured consumer lending is the risk of default or bankruptcy of the borrower, resulting in the borrower's balance being charged-off as uncollectible. We rely principally on the customer's creditworthiness for repayment of the loan and therefore have no other recourse for collection. We may not be able to successfully identify and evaluate the creditworthiness of cardholders to minimize delinquencies and losses. An increase in defaults or net charge-offs could result in a reduction in net income. General economic factors, such as the rate of inflation, unemployment levels and interest rates, may result in greater delinquencies that lead to greater credit losses. In addition to being affected by general economic conditions and the success of our collection and recovery efforts, the stability of our delinquency and net charge-off rates are affected by the credit risk of our credit card and loan receivables

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and the average age of our various credit card account portfolios. Further, our pricing strategy may not offset the negative impact on profitability caused by increases in delinquencies and losses, thus any material increases in delinquencies and losses beyond our current estimates could have a material adverse impact on us. For 2018, our net charge-off rate was 6.1%, compared to 6.0% and 5.1% for 2017 and 2016, respectively. Delinquency rates were 5.7% of principal credit card and loan receivables at December 31, 2018, compared to 5.1% and 4.8% at December 31, 2017 and 2016, respectively.

If we fail to identify suitable acquisitions, dispositions or new business opportunities, or to effectively integrate the businesses we acquire or disaggregate the businesses we divest, it could negatively affect our business.

Historically, we have engaged in a significant number of acquisitions, and those acquisitions have contributed to our growth in revenue and profitability. We believe that acquisitions and the identification and pursuit of new business opportunities will be a key component of our continued growth strategy. However, we may not be able to locate and secure future acquisition candidates or to identify and implement new business opportunities on terms and conditions that are acceptable to us. If we are unable to identify attractive acquisition candidates or successful new business opportunities, our growth could be impaired.

Similarly, we may evaluate the potential disposition of, or elect to divest, assets or businesses that no longer complement our long-term strategic objectives. When a determination is made to sell assets or businesses, we may encounter difficulty attaining buyers or effecting desired exit strategies in a timely manner or on acceptable terms and may be subject to market forces leading to a divestiture on less than optimal price or other terms.

In addition, there are numerous risks associated with acquisitions, dispositions and the implementation of new businesses, including, but not limited to:

- the difficulty and expense that we incur in connection with the acquisition, disposition or new business opportunity;
- the inability to satisfy pre-closing conditions preventing consummation of the acquisition, disposition or new business opportunity;
- the potential for adverse consequences when conforming the acquired company's accounting policies to ours;
 - the diversion of management's attention from other business concerns;
- the potential loss of customers or key employees of the acquired company;
- the impact on our financial condition due to the timing of the acquisition, disposition or new business implementation or the failure of the acquired or new business to meet operating expectations;
- the acceptance of continued financial responsibility with respect to a divested business, including required equity ownership, guarantees, indemnities or other financial obligations;
- the assumption of unknown liabilities of the acquired company;
- the uncertainty of achieving expected benefits of an acquisition or disposition, including revenue, human resources, technological or other cost savings, operating efficiencies or synergies;

- the reduction of cash available for operations, stock repurchase programs or other uses and potentially dilutive issuances of equity securities or incurrence of debt;
- the requirement to provide transition services in connection with a disposition resulting in the diversion of resources and focus; and
- the difficulty retaining and motivating key personnel from acquisitions or in connection with dispositions.

Furthermore, if the operations of an acquired or new business do not meet expectations, our profitability may decline and we may seek to restructure the acquired business or impair the value of some or all of the assets of the acquired or new business.

If actual redemptions by AIR MILES Reward Program collectors are greater than expected, or if the costs related to redemption of AIR MILES reward miles increase, our profitability could be adversely affected.

A portion of our revenue is based on our estimate of the number of AIR MILES reward miles that will go unused by the collector base. The percentage of AIR MILES reward miles not expected to be redeemed is known as “breakage.”

Breakage is based on management’s estimate after viewing and analyzing various historical trends including vintage analysis, current run rates and other pertinent factors, such as the impact of macroeconomic factors and changes in the

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program structure, the introduction of new program options and changes to rewards offered. Any significant change in or failure by management to reasonably estimate breakage, or if actual redemptions are greater than our estimates, our profitability could be adversely affected.

Our AIR MILES Reward Program also exposes us to risks arising from potentially increasing reward costs. Our profitability could be adversely affected if costs related to redemption of AIR MILES reward miles increase. A 10% increase in the cost of redemptions would have resulted in a decrease in pre-tax income of \$33.0 million for the year ended December 31, 2018.

The loss of our most active AIR MILES Reward Program collectors could adversely affect our growth and profitability.

Our most active AIR MILES Reward Program collectors drive a disproportionately large percentage of our AIR MILES Reward Program revenue. The loss of a significant portion of these collectors, for any reason, could impact our ability to generate significant revenue from sponsors. The continued attractiveness of our loyalty and rewards programs will depend in large part on our ability to remain affiliated with sponsors that are desirable to collectors and to offer rewards that are both attainable and attractive.

Airline or travel industry disruptions, such as an airline insolvency, could negatively affect the AIR MILES Reward Program, our revenues and profitability.

Air travel is one of the appeals of the AIR MILES Reward Program to collectors. If one of our existing airline suppliers sharply reduces its fleet capacity and route network, we may not be able to satisfy our collectors' demands for airline tickets. Tickets or other travel arrangements, if available, could be more expensive than a comparable airline ticket under our current supply agreements with existing suppliers, and the routes offered by other airlines or travel services may be inadequate, inconvenient or undesirable to the redeeming collectors. As a result, we may experience higher air travel redemption costs, and collector satisfaction with the AIR MILES Reward Program might be adversely affected.

As a result of airline or travel industry disruptions, political instability, terrorist acts or war, some collectors could determine that air travel is too dangerous or burdensome. Consequently, collectors might forego redeeming AIR MILES reward miles for air travel and therefore might not participate in the AIR MILES Reward Program to the extent they previously did, which could adversely affect our revenue from the program.

The markets for the services that we offer may contract or fail to expand which could negatively impact our growth and profitability.

Our growth and continued profitability depend on acceptance of the services that we offer. Our clients may not continue to use the loyalty and targeted marketing strategies and programs that we offer. Changes in technology may enable merchants and retail companies to directly process transactions in a cost-efficient manner without the use of our services. Additionally, downturns in the economy or the performance of retailers may result in a decrease in the demand for our marketing strategies. Any decrease in the demand for our services for the reasons discussed above or any other reasons could have a material adverse effect on our growth, revenue and operating results.

Competition in our industries is intense and we expect it to intensify.

The markets for our products and services are highly competitive and we expect competition to intensify in each of those markets. Some of our current competitors have longer operating histories, stronger brand names and greater financial, technical, marketing and other resources than we do. Certain of our segments also compete against in-house staffs of our current clients and others or internally developed products and services by our current clients and others. Our ability to generate significant revenue from clients and partners will depend on our ability to differentiate ourselves through the products and services we provide and the attractiveness of our programs to consumers. We may not be able to continue to compete successfully against our current and potential competitors.

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Liquidity, Market and Credit Risk

If we are unable to securitize our credit card receivables due to changes in the market, we may not be able to fund new credit card receivables, which would have a negative impact on our operations and profitability.

A number of factors affect our ability to fund our receivables in the securitization market, some of which are beyond our control, including:

- conditions in the securities markets in general and the asset-backed securitization market in particular;
- conformity in the quality of our credit card receivables to rating agency requirements and changes in that quality or those requirements; and
- ability to fund required overcollateralizations or credit enhancements, which are routinely utilized in order to achieve better credit ratings to lower borrowing cost.

In addition, on August 27, 2014, the SEC adopted a number of rules that will change the disclosure, reporting and offering process for publicly registered offerings of asset-backed securities, including those offered under our credit card securitization program. The adopted rules finalize rules that were originally proposed on April 7, 2010 and re-proposed on July 26, 2011. A number of rules proposed by the SEC in 2010 and 2011, such as requiring group-level data for the underlying assets in credit card securitizations, were not adopted in the final rulemaking but may be adopted by the SEC in the future with or without further modifications. The adoption of further rules affecting disclosure, reporting and the offering process for publicly registered offerings of asset-backed securities may impact our ability or desire to issue asset-backed securities in the future.

Regulations adopted by the FDIC, the SEC, the Federal Reserve and certain other federal regulators mandate a minimum five percent risk retention requirement for securitizations issued on and after December 24, 2016. Such risk retention requirements may limit our liquidity by restricting the amount of asset-backed securities we are able to issue or affecting the timing of future issuances of asset-backed securities; we intend to satisfy such risk retention requirements by maintaining a seller's interest calculated in accordance with Regulation RR.

Early amortization events may occur as a result of certain adverse events specified for each asset-backed securitization transaction, including, among others, deteriorating asset performance or material servicing defaults. In addition, certain series of funding notes issued by our securitization trusts are subject to early amortization based on triggers relating to the bankruptcy of one or more retailers. Deteriorating economic conditions and increased competition in the retail industry, among other factors, may lead to an increase in bankruptcies among retailers who have entered into credit card programs with us. The bankruptcy of one or more retailers could lead to a decline in the amount of new receivables and could lead to increased delinquencies and defaults on the associated receivables. Any of these effects of a retailer bankruptcy could result in the commencement of an early amortization for one or more series of such funding securities, particularly if such an event were to occur with respect to a retailer relating to a large percentage of

such securitization trust's assets. The occurrence of an early amortization event may significantly limit our ability to securitize additional receivables.

As a result of Basel III, which refers generally to a set of regulatory reforms adopted in the U.S. and internationally that are meant to address issues that arose in the banking sector during the recent financial crisis, banks are becoming subject to more stringent capital, liquidity and leverage requirements. In response to Basel III, investors of our securitization trusts' funding securities have sought and obtained amendments to their respective transaction documents permitting them to delay disbursement of funding increases by up to 35 days. Although funding may be requested from other investors who have not delayed their funding, access to financing could be disrupted if all of the investors implement such delays or if the lending capacities of those who did not do so were insufficient to make up the shortfall. In addition, excess spread may be affected if the issuing entity's borrowing costs increase as a result of Basel III. Such cost increases may result, for example, because the investors are entitled to indemnification for increased costs resulting from such regulatory changes.

The inability to securitize card receivables due to changes in the market, regulatory proposals, the unavailability of credit enhancements, or any other circumstance or event would have a material adverse effect on our operations and profitability.

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Our level of indebtedness could materially adversely affect our ability to generate sufficient cash to repay our outstanding debt, our ability to react to changes in our business and our ability to incur additional indebtedness to fund future needs.

We have a high level of indebtedness, which requires a high level of interest and principal payments. Subject to the limits contained in our credit agreement, the indentures governing our senior notes and our other debt instruments, we may be able to incur substantial additional indebtedness from time to time to finance working capital, capital expenditures, investments or acquisitions, or for other purposes. If we do so, the risks related to our level of indebtedness could intensify. Our level of indebtedness increases the possibility that we may be unable to generate cash sufficient to pay, when due, the principal of, interest on or other amounts due in respect of our indebtedness. Our higher level of indebtedness, combined with our other financial obligations and contractual commitments, could:

- make it more difficult for us to satisfy our obligations with respect to our indebtedness, and any failure to comply with the obligations under any of our debt instruments, including restrictive covenants, could result in an event of default under our credit agreement, the indentures governing our senior notes and the agreements governing our other indebtedness;
- require us to dedicate a substantial portion of our cash flow from operations to payments on our indebtedness, thereby reducing funds available for working capital, capital expenditures, acquisitions and other corporate purposes;
- increase our vulnerability to adverse economic and industry conditions, which could place us at a competitive disadvantage;
- limit our flexibility in planning for, or reacting to, changes in our business and the industries in which we operate;
- limit our ability to borrow additional funds, or to dispose of assets to raise funds, if needed, for working capital, capital expenditures, acquisitions and other corporate purposes;
- reduce or delay investments and capital expenditures;
- cause any refinancing of our indebtedness to be at higher interest rates and require us to comply with more onerous covenants, which could further restrict our business operations; and
- prevent us from raising the funds necessary to repurchase all notes tendered to us upon the occurrence of certain changes of control.

Interest rate increases on our variable rate debt could materially adversely affect our profitability.

Interest rate risk affects us directly in our borrowing activities. Our interest expense, net was \$670.6 million for the year ended December 31, 2018. To manage our risk from market interest rates, we actively monitor the interest rates and the interest sensitive components to minimize the impact that changes in interest rates have on the fair value of assets, net income and cash flow. In 2018, a 1% increase or decrease in interest rates would have resulted in a change to our interest expense of approximately \$101 million.

Future sales of our common stock, or the perception that future sales could occur, may adversely affect our common stock price.

As of February 20, 2019, we had an aggregate of 80,571,271 shares of our common stock authorized but unissued and not reserved for specific purposes. In general, we may issue all of these shares without any action or approval by our stockholders. We have reserved 6,607,624 shares of our common stock for issuance under our employee stock purchase plan and our long-term incentive plans, of which 928,947 shares have been issued and 1,047,147 shares are issuable upon vesting of restricted stock awards, restricted stock units, and upon exercise of options granted as of February 20, 2019, including options to purchase approximately 10,854 shares exercisable as of February 20, 2019 or that will become exercisable within 60 days after February 20, 2019. We have reserved for issuance 1,500,000 shares of our common stock, 518,604 of which remain issuable, under our 401(k) and Retirement Savings Plan as of December 31, 2018. In addition, we may pursue acquisitions of competitors and related businesses and may issue shares of our common stock in connection with these acquisitions. Sales or issuances of a substantial number of shares of common stock, or the perception that such sales could occur, could adversely affect prevailing market prices of our common stock, and any sale or issuance of our common stock will dilute the ownership interests of existing stockholders.

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The market price and trading volume of our common stock may be volatile and our stock price could decline.

The trading price of shares of our common stock has from time to time fluctuated widely and in the future may be subject to similar fluctuations. The trading price of our common stock may be affected by a number of factors, including our operating results, changes in our earnings estimates, additions or departures of key personnel, our financial condition, legislative and regulatory changes, general conditions in the industries in which we operate, general economic conditions, and general conditions in the securities markets. Other risks described in this report could also materially and adversely affect our share price.

There is no guarantee that we will pay future dividends or repurchase shares at a level anticipated by stockholders, which could reduce returns to our stockholders. Decisions to declare future dividends on, or repurchase, our common stock will be at the discretion of our Board of Directors based upon a review of relevant considerations.

Since October 2016, our Board of Directors has declared quarterly cash dividend payments on our outstanding common stock. Future declarations of quarterly dividends and the establishment of future record and payment dates are subject to approval by our Board of Directors. Since 2001, our Board of Directors has approved various share repurchase programs, including the share repurchase program approved in 2018 for the repurchase of up to \$500.0 million of our common stock through July 31, 2019. The Board's determination to declare dividends on, or repurchase shares of, our common stock will depend upon our profitability and financial condition, contractual restrictions, restrictions imposed by applicable law and other factors that the board deems relevant. Based on an evaluation of these factors, the Board of Directors may determine not to declare future dividends at all, to declare future dividends at a reduced amount, not to repurchase shares or to repurchase shares at reduced levels compared to historical levels, any or all of which could reduce returns to our stockholders.

Our reported financial information will be affected by fluctuations in the exchange rate between the U.S. dollar and certain foreign currencies.

The results of our operations are exposed to foreign exchange rate fluctuations. We are exposed primarily to fluctuations in the exchange rate between the U.S. and Canadian dollars and the exchange rate between the U.S. dollar and the Euro. Upon translation, operating results may differ from our expectations. As we have expanded our international operations, our exposure to exchange rate fluctuations has increased. For the year ended December 31, 2018, foreign currency movements relative to the U.S. dollar positively impacted our revenue by approximately \$28 million and had a de minimis impact to our income before income taxes.

Regulatory Environment

Current and proposed regulation and legislation relating to our card services could limit our business activities, product offerings and fees charged and may have a significant impact on our business, results of operations and financial condition.

The Dodd-Frank Wall Street Reform and Consumer Protection Act (the “Dodd-Frank Act”), among other things, includes a sweeping reform of the regulation and supervision of financial institutions, as well as of the regulation of derivatives and capital market activities.

The full impact of the Dodd-Frank Act is not yet known because some of the final implementing regulations have not yet been issued by the requisite federal agencies. In addition, the Dodd-Frank Act mandates multiple studies, which could result in future legislative or regulatory action. In particular, the Government Accountability Office issued its study on whether it is necessary, in order to strengthen the safety and soundness of institutions or the stability of the financial system of the United States, to eliminate the exemptions to the definition of “bank” under the Bank Holding Company Act for certain institutions including limited purpose credit card banks and industrial loan companies. The study did not recommend the elimination of these exemptions. However, if legislation were enacted to eliminate these exemptions without any grandfathering of or accommodations for existing institutions, we could be required to become a bank holding company and cease certain of our activities that are not permissible for bank holding companies or divest our credit card bank subsidiary, Comenity Bank, or our industrial bank subsidiary, Comenity Capital Bank.

The Dodd-Frank Act created the CFPB, a federal consumer protection regulator with authority to make further changes to the federal consumer protection laws and regulations. The CFPB assumed rulemaking authority under the

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existing federal consumer financial protection laws, and enforces those laws against and examines certain non-depository institutions and insured depository institutions with total assets greater than \$10 billion and their affiliates.

Since October 2016, both Comenity Bank and Comenity Capital Bank are under the CFPB's supervision and the CFPB may, from time to time, conduct reviews of their practices. In addition, the CFPB's broad rulemaking authority is expected to impact their operations, including with respect to deferred interest products. For example, the CFPB's rulemaking authority may allow it to change regulations adopted in the past by other regulators including regulations issued under the Truth in Lending Act by the Board of Governors of the Federal Reserve System. The CFPB's ability to rescind, modify or interpret past regulatory guidance could increase our compliance costs and litigation exposure. Further, the CFPB has broad authority to prevent "unfair, deceptive or abusive" acts or practices and has taken enforcement action against other credit card issuers and financial services companies. Evolution of these standards could result in changes to pricing, practices, procedures and other activities relating to our credit card accounts in ways that could reduce the associated return. While the CFPB has taken public positions on certain matters, it is unclear what additional changes may be promulgated by the CFPB and what effect, if any, such changes would have on our credit accounts.

The Dodd-Frank Act authorizes certain state officials to enforce regulations issued by the CFPB and to enforce the Dodd-Frank Act's general prohibition against unfair, deceptive or abusive practices. To the extent that states enact requirements that differ from federal standards or courts adopt interpretations of federal consumer laws that differ from those adopted by the federal banking agencies, we may be required to alter products or services offered in some jurisdictions or cease offering products, which will increase compliance costs and reduce our ability to offer the same products and services to consumers nationwide.

Various federal and state laws and regulations significantly limit the retail credit card services activities in which we are permitted to engage. Such laws and regulations, among other things, limit the fees and other charges that we can impose on consumers, limit or proscribe certain other terms of our products and services, require specified disclosures to consumers, or require that we maintain certain licenses, qualifications and minimum capital levels. In some cases, the precise application of these statutes and regulations is not clear. In addition, numerous legislative and regulatory proposals are advanced each year which, if adopted, could have a material adverse effect on our profitability or further restrict the manner in which we conduct our activities. The CARD Act, as implemented by regulations issued under the Truth in Lending Act, acts to limit or modify certain credit card practices and requires increased disclosures to consumers. The credit card practices addressed by the rules include, but are not limited to, restrictions on the application of rate increases to existing and new balances, payment allocation, default pricing, imposition of late fees and two-cycle billing. The failure to comply with, or adverse changes in, the laws or regulations to which our business is subject, or adverse changes in their interpretation, could have a material adverse effect on our ability to collect our receivables and generate fees on the receivables, thereby adversely affecting our profitability.

In the normal course of business, from time to time, Comenity Bank and Comenity Capital Bank have been named as defendants in various legal actions, including arbitrations, class actions and other litigation arising in connection with their business activities. While historically the arbitration provision in each bank's customer agreement has generally

limited such bank's exposure to consumer class action litigation, there can be no assurance that the banks will be successful in enforcing the arbitration clause in the future. There may also be legislative, administrative or regulatory efforts to directly or indirectly prohibit the use of pre-dispute arbitration clauses.

Comenity Bank and Comenity Capital Bank are also involved, from time to time, in reviews, investigations, and proceedings (both formal and informal) by governmental agencies regarding the banks' business, which could subject the banks to significant fines, penalties, obligations to change its business practices or other requirements. In September 2015, each bank entered into a consent order with the FDIC in settlement of the FDIC's review regarding the marketing, promotion and sale of certain add-on products; these consent orders were terminated in August 2018.

The effect of the Dodd-Frank Act on our business and operations, which will depend upon final implementing regulations, the actions of our competitors, the behavior of other marketplace participants and its interpretation and enforcement by federal or state officials or regulators, could be significant. In addition, we may be required to invest significant management time and resources to address the provisions of the Dodd-Frank Act and the regulations that are required to be issued under it. The Dodd-Frank Act and any related legislation or regulations and their interpretation and enforcement may have a material impact on our business, results of operations and financial condition.

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Legislation relating to consumer privacy and security may affect our ability to collect data that we use in providing our loyalty and marketing services, which, among other things, could negatively affect our ability to satisfy our clients' needs.

The evolution of legal standards and regulations around data protection and consumer privacy may affect our business. The enactment of new or amended legislation or industry regulations pertaining to consumer, public or private sector privacy issues could have a material adverse impact on our marketing services, including placing restrictions upon the collection, sharing and use of information that is currently legally available. This, in turn, could materially increase our cost of collecting certain data. These types of legislation or industry regulations could also prohibit us from collecting or disseminating certain types of data, which could adversely affect our ability to meet our clients' requirements and our profitability and cash flow targets. In addition to the United States, Canadian and European Union regulations discussed below, we have expanded our marketing services through the acquisition of companies formed and operating in foreign jurisdictions that may be subject to additional or more stringent legislation and regulations regarding consumer or private sector privacy.

There are also a number of specific laws and regulations governing the collection and use of certain types of consumer data that are relevant to our various business and services. In the United States, federal and state laws such as the federal Gramm-Leach-Bliley Act and the Fair Credit Reporting Act, as amended by the Fair and Accurate Credit Transactions Act of 2003, make it more difficult to collect, share and use information that has previously been legally available and may increase our costs of collecting some data. Regulations under these acts give cardholders the ability to "opt out" of having information generated by their credit card purchases shared with other affiliated and unaffiliated parties or the public. Our ability to gather, share and utilize this data will be adversely affected if a significant percentage of the consumers whose purchasing behavior we track elect to "opt out," thereby precluding us and our affiliates from using their data.

In the United States, the federal Do-Not-Call Implementation Act makes it more difficult to telephonically communicate with prospective and existing customers. Similar measures were implemented in Canada beginning September 1, 2008. Regulations in both the United States and Canada give consumers the ability to "opt out," through a national do-not-call registry and state do-not-call registries of having telephone solicitations placed to them by companies that do not have an existing business relationship with the consumer. In addition, regulations require companies to maintain an internal do-not-call list for those who do not want the companies to solicit them through telemarketing. These regulations could limit our ability to provide services and information to our clients. Failure to comply with these regulations could have a negative impact on our reputation and subject us to significant penalties. Further, the Federal Communications Commission has approved interpretations of rules related to the Telephone Consumer Protection Act defining robo-calls broadly, which may affect our ability to contact customers and may increase our litigation exposure.

In the United States, the federal Controlling the Assault of Non-Solicited Pornography and Marketing Act of 2003 restricts our ability to send commercial electronic mail messages, the primary purpose of which is advertising or promoting a commercial product or service, to our customers and prospective customers. The act requires that a commercial electronic mail message provide the customers with an opportunity to opt-out from receiving future

commercial electronic mail messages from the sender. Failure to comply with the terms of this act could have a negative impact on our reputation and subject us to significant penalties.

Further, many state governments are reviewing or proposing the need for greater regulation of the collection, processing, sharing and use of consumer data for various marketing purposes. This may result in new laws or regulations imposing additional compliance requirements.

In Canada, the Personal Information Protection and Electronic Documents Act (“PIPEDA”) requires an organization to obtain a consumer’s consent to collect, use or disclose personal information. Under this act, consumer personal information may be used only for the purposes for which it was collected. We allow our customers to voluntarily “opt out” from receiving either one or both promotional and marketing mail or promotional and marketing electronic mail. Heightened consumer awareness of, and concern about, privacy may result in customers “opting out” at higher rates than they have historically. This would mean that a reduced number of customers would receive bonus and promotional offers and therefore those customers may collect fewer AIR MILES reward miles.

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Canada's Anti-Spam Legislation may restrict our ability to send "commercial electronic messages," defined to include text, sound, voice and image messages to email, or similar accounts, where the primary purpose is advertising or promoting a commercial product or service to our customers and prospective customers. The Act requires, in part, that a sender have consent to send a commercial electronic message, and provide the customers with an opportunity to opt out from receiving future commercial electronic email messages from the sender. Failure to comply with the terms of this Act or its regulations could have a negative impact on our reputation and subject us to significant monetary penalties.

On May 25, 2018, The General Data Protection Regulation, or GDPR, a European Union-wide legal framework to govern data collection, use and sharing and related consumer privacy rights came into force. The GDPR replaced the European Union Directive 95/46/EC and applies to and binds the 28 EU Member States. The GDPR details greater compliance obligations on organizations, including the implementation of a number of processes and policies around data collection and use. These, and other terms of the GDPR, could limit our ability to provide services and information to our customers. In addition, the GDPR includes significant new penalties for non-compliance, with fines up to the higher of €20 million (\$23 million as of December 31, 2018) or 4% of total annual worldwide revenue.

In general, GDPR, and other European Union and Member State specific privacy and data governance laws, could also lead to adaptation of our technologies or practices to satisfy local privacy requirements and standards that may be more stringent than in the U.S. Similarly, it is possible that in the future, U.S. and foreign jurisdictions may adopt legislation or regulations that impair our ability to effectively track consumers' use of our advertising services, such as the FTC's proposed "Do-Not-Track" standard or other legislation or regulations similar to EU Directive 2009/136/EC, commonly referred to as the "Cookie Directive," which directs EU Member States to ensure that accessing information on an internet user's computer, such as through a cookie, is allowed only if the internet user has given his or her consent.

In addition, in 2016, the EU-US Safe Harbor program ("Safe Harbor") was held to be invalid. Safe Harbor provided a valid legal basis for transfers of personal data from Europe Union to the United States. Although Safe Harbor is no longer valid, we have other legally recognized mechanisms in place, such as model contract clauses, that we believe allow for the transfer of customer and employee data from the European Union to the United States. If new challenges arise, or if there are changes in legal requirements, it could have an impact on how we move data from the European Union to entities outside the European Union, including to our affiliates or vendors.

There is also rapid development of new privacy laws and regulations elsewhere around the globe, including amendments of existing data protection laws to the scope of such laws and penalties for noncompliance. Failure to comply with these international data protection laws and regulations could have a negative impact on our reputation and subject us to significant penalties.

While all 50 U.S. states and the District of Columbia have enacted data breach notification laws, there is no such U.S. federal law generally applicable to our businesses. Data breach notification legislation has been proposed widely and

exists in specific countries and jurisdictions in which we conduct business. In Canada, final regulations relating to mandatory reporting of privacy breaches under PIPEDA came into force on November 1, 2018. Legislative and regulatory measures, such as mandatory breach notification provisions, impose, among other elements, strict requirements on reporting time frames and providing notice to individuals.

Legislation relating to consumer protection may affect our ability to provide our loyalty and marketing services, which, among other things, could negatively affect our ability to satisfy our clients' needs.

The enactment of new or amended legislation or industry regulations pertaining to consumer protection, or any failure to comply with such changes, could have a material adverse impact on our loyalty and marketing services. Such changes could result in a negative impact to our reputation, an adverse effect on our profitability or an increase in our litigation exposure.

For example, Ontario's Protecting Rewards Points Act (Consumer Protection Amendment), 2016, and additional related regulations effective January 2018, prohibit suppliers from entering into or amending consumer agreements to provide for the expiry of rewards points due to the passage of time alone, while permitting the expiry of rewards points if the underlying consumer agreement is terminated and that agreement provides that reward points expire upon termination. Similar legislation pertaining to the expiry of rewards points due to the passage of time alone was passed in Quebec in 2017.

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Technologies have been developed that can block the display of ads we serve for clients, which could limit our product offerings and adversely impact our financial results.

Technologies have been developed, and will likely continue to be developed, that can block the display of ads we serve for our clients, particularly advertising displayed on personal computers. Ad blockers, cookie blocking, and tracking protection lists (TPLs) are being offered by browser agents and device manufacturers to prevent ads from being displayed to consumers. We generate revenue from online advertising, including revenue resulting from the display of ads on personal computers. Revenue generated from the display of ads on personal computers has been impacted by these technologies from time to time. If these technologies continue to proliferate, in particular with respect to mobile platforms, our product offerings may be limited and our future financial results may be harmed.

Our bank subsidiaries are subject to extensive federal and state regulation that may require us to make capital contributions to them, and that may restrict the ability of these subsidiaries to make cash available to us.

Federal and state laws and regulations extensively regulate the operations of Comenity Bank, as well as Comenity Capital Bank. Many of these laws and regulations are intended to maintain the safety and soundness of Comenity Bank and Comenity Capital Bank, and they impose significant restraints on them to which other non-regulated entities are not subject. As a state bank, Comenity Bank is subject to overlapping supervision by the State of Delaware and the FDIC. As a Utah industrial bank, Comenity Capital Bank is subject to overlapping supervision by the FDIC and the State of Utah. Comenity Bank and Comenity Capital Bank must maintain minimum amounts of regulatory capital. If Comenity Bank and Comenity Capital Bank do not meet these capital requirements, their respective regulators have broad discretion to institute a number of corrective actions that could have a direct material effect on our financial statements. Comenity Bank and Comenity Capital Bank, as institutions insured by the FDIC, must maintain certain capital ratios, paid-in capital minimums and adequate allowances for loan loss. If either Comenity Bank or Comenity Capital Bank were to fail to meet any of the capital requirements to which it is subject, we may be required to provide them with additional capital, which could impair our ability to service our indebtedness. To pay any dividend, Comenity Bank and Comenity Capital Bank must each maintain adequate capital above regulatory guidelines. Accordingly, neither Comenity Bank nor Comenity Capital Bank may be able to make any of its cash or other assets available to us, including to service our indebtedness.

If our bank subsidiaries fail to meet certain criteria, we may become subject to regulation under the Bank Holding Company Act, which could force us to cease all of our non-banking activities and lead to a drastic reduction in our revenue and profitability.

If either of our depository institution subsidiaries failed to meet the criteria for the exemption from the definition of “bank” in the Bank Holding Company Act under which it operates (which exemptions are described below), and if we did not divest such depository institution upon such an occurrence, we would become subject to regulation under the Bank Holding Company Act. This would require us to cease certain of our activities that are not permissible for companies that are subject to regulation under the Bank Holding Company Act. One of our depository institution

subsidiaries, Comenity Bank, is a Delaware State FDIC-insured bank and a limited-purpose credit card bank located in Delaware. Comenity Bank will not be a “bank” as defined under the Bank Holding Company Act so long as it remains in compliance with the following requirements:

- it engages only in credit card operations;
- it does not accept demand deposits or deposits that the depositor may withdraw by check or similar means for payment to third parties;
- it does not accept any savings or time deposits of less than \$100,000, except for deposits pledged as collateral for its extensions of credit;
- it maintains only one office that accepts deposits; and
- it does not engage in the business of making commercial loans (except small business loans).

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Our other depository institution subsidiary, Comenity Capital Bank, is a Utah industrial bank that is authorized to do business by the State of Utah and the FDIC. Comenity Capital Bank will not be a “bank” as defined under the Bank Holding Company Act so long as it remains an industrial bank in compliance with the following requirements:

- it is an institution organized under the laws of a state which, on March 5, 1987, had in effect or had under consideration in such state’s legislature a statute which required or would require such institution to obtain insurance under the Federal Deposit Insurance Act; and
- it does not accept demand deposits that the depositor may withdraw by check or similar means for payment to third parties.

Operational and Other Risk

We rely on third party vendors to provide products and services. Our profitability could be adversely impacted if they fail to fulfill their obligations.

The failure of our suppliers to deliver products and services in sufficient quantities and in a timely manner could adversely affect our business. If our significant vendors were unable to renew our existing contracts, we might not be able to replace the related product or service at the same cost which would negatively impact our profitability.

Failure to safeguard our databases and consumer privacy could affect our reputation among our clients and their customers, and may expose us to legal claims.

Although we have extensive physical and cyber security controls and associated procedures, our data has in the past been and in the future may be subject to unauthorized access. In such instances of unauthorized access, the integrity of our data has in the past been and may in the future be affected. Security and privacy concerns may cause consumers to resist providing the personal data necessary to support our loyalty and marketing programs. Information security risks for large financial institutions have increased with the adoption of new technologies, including those used on mobile devices, to conduct financial and other business transactions, and the increased sophistication and activity level of threat actors. The use of our loyalty, marketing services or credit card programs could decline if any compromise of physical or cyber security occurred. In addition, any unauthorized release of customer information or any public perception that we released consumer information without authorization, could subject us to legal claims from our clients or their customers, consumers or regulatory enforcement actions, which may adversely affect our client relationships.

Loss of data center capacity, interruption due to cyber-attacks, loss of network links or inability to utilize proprietary software of third party vendors could affect our ability to timely meet the needs of our clients and their customers.

Our ability, and that of our third-party service providers, to protect our data centers against damage, loss or performance degradation from fire, power loss, network failure, cyber-attacks, including ransomware or denial of service attacks, and other disasters is critical. In order to provide many of our services, we must be able to store, retrieve, process and manage large amounts of data as well as periodically expand and upgrade our technology capabilities. Any damage to our data centers, or those of our third-party service providers, any failure of our network links that interrupts our operations or any impairment of our ability to use our software or the proprietary software of third party vendors, including impairments due to cyber-attacks, could adversely affect our ability to meet our clients' needs and their confidence in utilizing us for future services.

Our failure to protect our intellectual property rights may harm our competitive position, and litigation to protect our intellectual property rights or defend against third party allegations of infringement may be costly.

Third parties may infringe or misappropriate our trademarks or other intellectual property rights, which could have a material adverse effect on our business, financial condition or operating results. The actions we take to protect our trademarks and other proprietary rights may not be adequate. Litigation may be necessary to enforce our intellectual property rights, protect our trade secrets or determine the validity and scope of the proprietary rights of others. We may not be able to prevent infringement of our intellectual property rights or misappropriation of our proprietary information. Any infringement or misappropriation could harm any competitive advantage we currently derive or may derive from our proprietary rights. Third parties may also assert infringement claims against us. Any claims and any resulting litigation could subject us to significant liability for damages. An adverse determination in any litigation of this type could require us to design around a third party's patent or to license alternative technology from another party. In

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addition, litigation is time consuming and expensive to defend and could result in the diversion of our time and resources. Any claims from third parties may also result in limitations on our ability to use the intellectual property subject to these claims. Further, our competitors or other third parties may independently design around or develop similar technology, or otherwise duplicate our services or products in a way that would preclude us from asserting our intellectual property rights against them. In addition, our contractual arrangements may not effectively prevent disclosure of our intellectual property or confidential and proprietary information or provide an adequate remedy in the event of an unauthorized disclosure.

Our international operations, acquisitions and personnel subject us to complex U.S. and international laws and regulations, which if violated could subject us to penalties and other adverse consequences.

Our operations, acquisitions and employment of personnel outside the United States require us to comply with numerous complex laws and regulations of the U.S. government and the various international jurisdictions where we do business. These laws and regulations may apply to our company, or our individual directors, officers, employees or agents, and may restrict our operations, investment decisions or other activities. Specifically, we are subject to anti-corruption and anti-bribery laws and regulations, including, but not limited to, the U.S. Foreign Corrupt Practices Act, or FCPA; the U.K. Bribery Act 2010, or UKBA; and Canada's Corruption of Foreign Public Officials Act, or CFPOA. These laws generally prohibit providing anything of value to foreign officials for the purpose of influencing official decisions, obtaining or retaining business, or obtaining preferential treatment, and require us to maintain books and records that fairly and accurately reflect transactions and maintain an adequate system of internal accounting controls. As part of our business, we or our partners may do business with state-owned enterprises, the employees and representatives of which may be considered foreign officials for purposes of the FCPA, UKBA or CFPOA. There can be no assurance that our policies, procedures, training and compliance programs will effectively prevent violation of all U.S. and international laws and regulations with which we are required to comply. Violations of such laws and regulations could subject us to penalties that could adversely affect our reputation, business, financial condition or results of operations. In addition, some international jurisdictions in which we operate could subject us to other obstacles, including lack of a developed legal system, elevated levels of corruption, strict currency controls, adverse tax consequences or foreign ownership requirements, difficult or lengthy regulatory approvals, or lack of enforcement for non-compete agreements.

Anti-takeover provisions in our organizational documents and Delaware law may discourage or prevent a change of control, even if an acquisition would be beneficial to our stockholders, which could affect our stock price adversely and prevent or delay change of control transactions or attempts by our stockholders to replace or remove our current management.

Delaware law, as well as provisions of our certificate of incorporation, bylaws and debt instruments, could discourage unsolicited proposals to acquire us, even though such proposals may be beneficial to our stockholders. These include our Board's authority to issue shares of preferred stock without further stockholder approval.

In addition, we are subject to the provisions of Section 203 of the Delaware General Corporation Law, which may prohibit certain business combinations with stockholders owning 15% or more of our outstanding voting stock. These and other provisions in our certificate of incorporation, bylaws and Delaware law could make it more difficult for stockholders or potential acquirers to obtain control of our Board of Directors or initiate actions that are opposed by our then-current Board of Directors, including a merger, tender offer or proxy contest involving us. Any delay or prevention of a change of control transaction or changes in our Board of Directors could cause the market price of our common stock to decline or delay or prevent our stockholders from receiving a premium over the market price of our common stock that they might otherwise receive.

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Item 1B.Unresolved Staff Comments.

None.

Item 2.Properties.

As of December 31, 2018, we own one general office property and lease approximately 110 general office properties worldwide, comprised of approximately five million square feet. These facilities are used to carry out our operational, sales and administrative functions. Our principal facilities are as follows:

Location	Segment	Approximate Square Footage	Lease Expiration Date
Plano, Texas	Corporate	107,698	June 30, 2026
Columbus, Ohio	Corporate, Card Services	567,006	September 12, 2032
Toronto, Ontario, Canada	LoyaltyOne	199,539	March 31, 2033
Mississauga, Ontario, Canada	LoyaltyOne	50,908	November 30, 2019
Den Bosch, Netherlands	LoyaltyOne	132,482	December 31, 2033
Maasbree, Netherlands	LoyaltyOne	668,923	September 1, 2033
Wakefield, Massachusetts	Epsilon	184,411	December 31, 2020
Irving, Texas	Epsilon	221,898	June 30, 2026
Earth City, Missouri	Epsilon	116,783	April 30, 2022
West Chicago, Illinois	Epsilon	155,412	October 31, 2025
Bengaluru, India	Epsilon	308,807	October 10, 2028
Draper, Utah	Card Services	134,903	May 31, 2031
Columbus, Ohio	Card Services	103,161	December 31, 2027
Westminster, Colorado	Card Services	120,132	June 30, 2028
Couer D'Alene, Idaho	Card Services	114,000	July 31, 2038
Westerville, Ohio	Card Services	100,800	July 31, 2024
Wilmington, Delaware	Card Services	5,198	November 30, 2020

We believe our current facilities are suitable to our businesses and that we will be able to lease, purchase or newly construct additional facilities as needed.

Item 3.Legal Proceedings.

From time to time we are involved in various claims and lawsuits arising in the ordinary course of our business that we believe will not have a material effect on our business or financial condition, including claims and lawsuits alleging breaches of our contractual obligations.

Item 4.Mine Safety Disclosures.

Not applicable.

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Item 4A. Executive Officers of the Registrant.

The following table sets forth information concerning our Executive Officers as of December 31, 2018. Each of our Executive Officers is selected by our Board of Directors and holds office until his or her successor is elected and qualified.

Edward J. Heffernan President, Chief Executive Officer Age: 56
 Mr. Heffernan joined us in May 1998, and has served as a director since June 2009. From May 2000 until March 2009, Mr. Heffernan served as an executive vice president and chief financial officer and, prior to that, he was responsible for mergers and acquisitions. Before joining us, he served as vice president, mergers and acquisitions, for First Data Corporation from October 1994 to May 1998. Prior to that, he served as vice president, mergers and acquisitions for Citicorp from July 1990 to October 1994, and prior to that he served in corporate finance at Credit Suisse First Boston from June 1986 until July 1990. Mr. Heffernan holds a Bachelor's degree from Wesleyan University and an MBA from Columbia Business School.

Charles L. Horn Executive Vice President, Chief Financial Officer Age: 58
 Mr. Horn joined us in December 2009. From 1999 to November 2009, he served as senior vice president and chief financial officer for Builders Firstsource, Inc. From 1994 to 1999, he served as vice president, finance and treasury, for the retail operations of Pier 1 Imports, Inc. and as executive vice president and chief financial officer of Conquest Industries from 1992 to 1994. Mr. Horn served as a director and the chair of the audit committee of Moody National REIT I, Inc. from 2012 until 2017 when it was acquired by Moody National REIT II, Inc. where Mr. Horn is currently a director and the chair of the audit committee. Mr. Horn holds a Bachelor's degree in business administration from Abilene Christian University and an MBA from the University of Texas at Austin. Mr. Horn is a Certified Public Accountant in the state of Texas.

Bryan J. Kennedy Executive Vice President and President, Epsilon Age: 50
 Mr. Kennedy joined our wholly-owned subsidiary, Epsilon, in June 1996. Mr. Kennedy has served as president of Epsilon since January 2009 and of Conversant since December 2014. Prior to that, he served as chief operating officer for Epsilon since October 2001 along with various senior management and executive positions within Epsilon. Mr. Kennedy held senior management positions with Capstead Mortgage Corporation from June 1990 to August 1994. Mr. Kennedy holds a Bachelor's degree from Wheaton College and an MBA from Harvard Business School.

Melisa A. Miller Executive Vice President and President, Card Services Age: 60
 Ms. Miller joined us in February 2006 and assumed her current position in September 2011. Prior to assuming her current position, she served as senior vice president, chief client officer. Before joining us, Ms. Miller held a similar role with Experian, and prior to that she held several positions with Experian where she gained increasing responsibility in sales and client services roles during her 22 years of service.

Joseph L. Motes III Senior Vice President, General Counsel and Secretary Age: 57
Mr. Motes joined us in July 2015. Before joining us, Mr. Motes was with Akin, Gump, Strauss, Hauer & Feld, LLP for nearly 20 years, and was the partner and lead relationship manager for Alliance Data. Mr. Motes holds a Bachelor's degree in geology from Trinity University and a J.D. from Southern Methodist University Dedman School of Law, where he served as editor-in-chief of the SMU Law Review.

Bryan A. Pearson Executive Vice President and President, LoyaltyOne Age: 55
Mr. Pearson joined our wholly-owned subsidiary, LoyaltyOne, Co., in November 1992 and assumed his current position in 2006. Mr. Pearson served as president for the AIR MILES® Reward Program from March 1999 until October 2006 and from January 2015 until September 2017, and prior to becoming president, he held various senior management and executive positions within the AIR MILES Reward Program. Mr. Pearson held management positions with Alias Research Inc. from June 1991 until October 1992. Prior to that, he worked in brand marketing at Quaker Oats Company of Canada from July 1988 until June 1991. Mr. Pearson holds a BScH degree and an MBA from Queen's University.

Laura Santillan Senior Vice President, Chief Accounting Officer Age: 47
Ms. Santillan joined us in February 2004 and assumed her current position in February 2010. Ms. Santillan has served in various capacities of increasing responsibility, most recently as vice president, finance since October 2007 and senior vice president, finance since December 2009. Before joining the company, she served as senior manager of reporting for Dresser, Inc. from February 2002 to February 2004 and director of financial reporting for Wyndham International, Inc. from 1997 to 2002. Prior to that, she was with Ernst & Young LLP from 1993 to 1997. Ms. Santillan holds a Bachelor's degree from Southern Methodist University and is a Certified Public Accountant in the state of Texas.

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PART II

Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

Market Information

Our common stock is listed on the New York Stock Exchange, or NYSE, and trades under the symbol “ADS.”

Holder

As of February 20, 2019, the closing price of our common stock was \$173.42 per share, there were 52,997,685 shares of our common stock outstanding, and there were 98 holders of record of our common stock.

Dividends

We paid cash dividends per share during the periods presented as follows:

	Dividends Per Share	Amount (in millions)
Year Ended December 31, 2018		
First quarter	\$ 0.57	\$ 31.7
Second quarter	0.57	31.6
Third quarter	0.57	31.2
Fourth quarter	0.57	30.7
Total cash dividends paid	\$ 2.28	\$ 125.2
Year Ended December 31, 2017		
First quarter	\$ 0.52	\$ 29.0
Second quarter	0.52	29.0
Third quarter	0.52	28.8

Fourth quarter	0.52	28.7
Total cash dividends paid	\$ 2.08	\$ 115.5

On February 7, 2019, our Board of Directors declared a quarterly cash dividend of \$0.63 per share on our common stock, payable on March 19, 2019 to stockholders of record at the close of business on February 21, 2019.

Payment of future dividends is subject to declaration by our Board of Directors. Factors considered in determining dividends include, but are not limited to, our profitability, expected capital needs, and contractual restrictions. See also “Risk Factors—There is no guarantee that we will pay future dividends or repurchase shares at a level anticipated by stockholders, which could reduce returns to our stockholders.” Subject to these qualifications, we presently expect to continue to pay dividends on a quarterly basis.

Issuer Purchases of Equity Securities

In 2017, the Company’s Board of Directors authorized a stock repurchase program to acquire up to \$1.0 billion of the Company’s outstanding common stock through July 31, 2018. At July 31, 2018, \$280.3 million of this program expired unused.

On July 26, 2018, the Company’s Board of Directors authorized a new stock repurchase program to acquire up to \$500.0 million of the Company’s outstanding common stock from August 1, 2018 through July 31, 2019.

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The following table presents information with respect to purchases of our common stock made during the three months ended December 31, 2018:

Period	Total Number of Shares Purchased (1)	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs (2) (Dollars in millions)
During 2018:				
October 1-31	172,102	\$ 222.55	165,000	\$ 427.5
November 1-30	991,527	198.98	987,332	231.0
December 1-31	54,428	164.69	50,000	222.8
Total	1,218,057	\$ 200.78	1,202,332	\$ 222.8

(1) During the period represented by the table, 15,725 shares of our common stock were purchased by the administrator of our 401(k) and Retirement Saving Plan for the benefit of the employees who participated in that portion of the plan.

(2) In 2017, our Board of Directors authorized a stock repurchase program to acquire up to \$1.0 billion of our outstanding common stock through July 31, 2018. At July 31, 2018, \$280.3 million of this program expired unused.

On July 26, 2018, our Board of Directors authorized a new stock repurchase program to acquire up to \$500.0 million of our outstanding common stock from August 1, 2018 through July 31, 2019. Our authorization is subject to any restrictions pursuant to the terms of our credit agreements, senior note indentures, and applicable securities laws or otherwise.

Performance Graph

The following graph compares the yearly percentage change in cumulative total stockholder return on our common stock since December 31, 2013, with the cumulative total return over the same period of (1) the S&P 500 Index and (2) a peer group of sixteen companies selected by us.

The companies in the peer group index are CDK Global, Inc., Discover Financial Services, Equifax, Inc., Experian PLC, Fidelity National Information Services, Inc., Fiserv, Inc., Global Payments, Inc., MasterCard Incorporated, Nielsen Holdings plc, Omnicom Group Inc., Synchrony Financial, The Dun & Bradstreet Corporation, The Interpublic Group of Companies, Inc., Total System Services, Inc., Vantiv, Inc. and WPP plc.

Pursuant to rules of the SEC, the comparison assumes \$100 was invested on December 31, 2013 in our common stock and in each of the indices and assumes reinvestment of dividends, if any. Also pursuant to SEC rules, the returns of each of the companies in the peer group are weighted according to the respective company's stock market capitalization at the beginning of each period for which a return is indicated. Historical stock prices are not indicative of future stock price performance.

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	Alliance Data Systems Corporation	S&P 500	Peer Group Index
December 31, 2013	\$ 100.00	\$ 100.00	\$ 100.00
December 31, 2014	108.79	113.69	106.23
December 31, 2015	105.19	115.26	117.62
December 31, 2016	87.13	129.05	131.42
December 31, 2017	97.53	157.22	159.56
December 31, 2018	58.51	150.33	165.55

Our future filings with the SEC may “incorporate information by reference,” including this Form 10-K. Unless we specifically state otherwise, this Performance Graph shall not be deemed to be incorporated by reference and shall not constitute soliciting material or otherwise be considered filed under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended.

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Item 6. Selected Financial Data.

SELECTED HISTORICAL CONSOLIDATED FINANCIAL AND OPERATING INFORMATION

The following table sets forth our summary historical consolidated financial information for the periods ended and as of the dates indicated. You should read the following historical consolidated financial information along with “Management’s Discussion and Analysis of Financial Condition and Results of Operations” contained in this Form 10 K. The fiscal year financial information included in the table below is derived from our audited consolidated financial statements.

	Years Ended December 31,				
	2018	2017	2016	2015	2014
	(In millions, except per share amounts)				
Income statement data					
Total revenue	\$ 7,791.2	\$ 7,719.4	\$ 7,138.1	\$ 6,439.7	\$ 5,302.9
Cost of operations (exclusive of amortization and depreciation disclosed separately below)	4,220.9	4,269.9	4,276.8	3,814.4	3,218.8
Provision for loan loss	1,016.0	1,140.1	940.5	668.2	425.2
General and administrative	172.7	166.3	143.2	138.5	141.5
Regulatory settlement	—	—	—	64.6	—
Earn-out obligation	—	—	—	—	105.9
Depreciation and other amortization	196.1	183.1	167.1	142.1	109.7
Amortization of purchased intangibles	291.2	314.5	345.0	350.1	203.4
Total operating expenses	5,896.9	6,073.9	5,872.6	5,177.9	4,204.5
Operating income	1,894.3	1,645.5	1,265.5	1,261.8	1,098.4
Interest expense, net	670.6	564.4	428.5	330.2	260.5
Income before income taxes	1,223.7	1,081.1	837.0	931.6	837.9
Provision for income taxes	260.6	292.4	319.4	326.2	321.8
Net income	\$ 963.1	\$ 788.7	\$ 517.6	\$ 605.4	\$ 516.1
Less: Net income attributable to non-controlling interest	—	—	1.8	8.9	9.8
Net income attributable to common stockholders	\$ 963.1	\$ 788.7	\$ 515.8	\$ 596.5	\$ 506.3
Net income attributable to common stockholders per share:					
Basic	\$ 17.56	\$ 14.17	\$ 7.37	\$ 8.91	\$ 8.72
Diluted	\$ 17.49	\$ 14.10	\$ 7.34	\$ 8.85	\$ 7.87
Weighted average shares:					
Basic	54.9	55.7	58.6	61.9	56.4
Diluted	55.1	55.9	58.9	62.3	62.4

Dividends declared per share:	\$ 2.28	\$ 2.08	\$ 0.52	\$ —	\$ —
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	As of December 31,				
	2018	2017	2016	2015	2014
	(In millions)				
Balance sheet data					
Credit card and loan receivables, net	\$ 16,816.7	\$ 17,494.5	\$ 15,595.9	\$ 13,057.9	\$ 10,673.7
Redemption settlement assets, restricted	558.6	589.5	324.4	456.6	520.3
Total assets	30,387.7	30,684.8	25,514.1	22,349.9	20,188.2
Deferred revenue	875.3	966.9	931.5	844.9	1,013.2
Deposits	11,793.7	10,930.9	8,391.9	5,605.9	4,759.4
Non-recourse borrowings of consolidated securitization entities	7,651.7	8,807.3	6,955.4	6,482.7	5,181.1
Long-term and other debt, including current maturities	5,737.9	6,079.6	5,601.4	5,017.4	4,158.4
Total liabilities	28,055.6	28,829.5	23,855.9	20,172.5	17,556.2
Redeemable non-controlling interest	—	—	—	167.4	235.6
Total stockholders' equity	2,332.1	1,855.3	1,658.2	2,010.0	2,396.4
	Years Ended December 31,				
	2018	2017	2016	2015	2014
	(In millions)				
Cash flow data (1)					
Cash flows from operating activities	\$ 2,754.9	\$ 2,599.1	\$ 2,127.2	\$ 1,761.4	\$ 1,403.1
Cash flows from investing activities	\$ (1,872.0)	\$ (4,268.1)	\$ (4,291.5)	\$ (3,298.7)	\$ (4,572.2)
Cash flows from financing activities	\$ (1,217.9)	\$ 4,004.9	\$ 2,637.4	\$ 1,718.9	\$ 3,464.1
Other financial data (2)					
Adjusted EBITDA	\$ 2,465.7	\$ 2,218.2	\$ 2,095.8	\$ 1,909.9	\$ 1,597.2
Adjusted EBITDA, net	\$ 2,079.8	\$ 1,936.5	\$ 1,880.0	\$ 1,728.3	\$ 1,425.5
Segment operating data					
Credit card statements generated	300.7	296.7	279.4	242.3	212.0
Credit sales	\$ 30,702.3	\$ 31,001.6	\$ 29,271.3	\$ 24,736.1	\$ 18,948.2
Average credit card and loan receivables	\$ 17,412.1	\$ 16,185.5	\$ 14,085.8	\$ 11,364.6	\$ 8,750.1
AIR MILES reward miles issued	5,500.0	5,524.2	5,772.3	5,743.1	5,500.9
AIR MILES reward miles redeemed	4,482.0	4,552.1	7,071.6	4,406.3	4,100.7

(1) Adjusted to reflect the retrospective adoption of Accounting Standards Update, or ASU, 2016-18, "Restricted Cash." The effect of the adoption of the standard was to include restricted cash and restricted cash equivalents in the beginning-of-period and end-of-period cash and cash equivalents totals for the periods presented. See "Recently

Adopted Accounting Standards” under Note 2, “Summary of Significant Accounting Policies,” of the Notes to Consolidated Financial Statements for additional information.

- (2) See “Use of Non-GAAP Financial Measures” set forth in Item 7, “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” for a discussion of our use of adjusted EBITDA and adjusted EBITDA, net and a reconciliation to net income, the most directly comparable GAAP financial measure.

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Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations.

Overview

We are a leading global provider of data-driven marketing and loyalty solutions serving large, consumer-based businesses in a variety of industries. We offer a comprehensive portfolio of integrated outsourced marketing solutions, including customer loyalty programs, database marketing services, end-to-end marketing services, analytics and creative services, direct marketing services and private label and co-brand retail credit card programs. We focus on facilitating and managing interactions between our clients and their customers through all consumer marketing channels, including in-store, online, email, social media, mobile, direct mail and telephone. We capture and analyze data created during each customer interaction, leveraging the insight derived from that data to enable clients to identify and acquire new customers and to enhance customer loyalty. We believe that our services are more valued as businesses shift marketing resources away from traditional mass marketing toward targeted marketing programs that provide measurable returns on marketing investments. We operate in the following reportable segments: LoyaltyOne, Epsilon, and Card Services.

2018 Highlights and Recent Developments

- Total revenue increased 1% to \$7,791.2 million in 2018 compared to \$7,719.4 million in 2017.
- Net income increased 22% to \$963.1 million in 2018 compared to \$788.7 million in 2017, and earnings per diluted share increased 24% to \$17.49 in 2018 compared to \$14.10 in 2017.
- Adjusted EBITDA, net increased 7% to \$2,079.8 million in 2018 compared to \$1,936.5 million in 2017.
- We repurchased approximately 2.2 million shares of our common stock for \$443.2 million in 2018.
- We sold six credit card portfolios for cash consideration of approximately \$1,153.5 million.
- We paid dividends of \$125.2 million in 2018.

In the exercise of its business judgment, our Board of Directors has undertaken an evaluation of our current portfolio of businesses. In November 2018, we announced the exploration of strategic alternatives for Epsilon, including a potential sale of the business. In January 2019, we received preliminary bids for Epsilon and the process continues to advance. There can be no assurance that the exploration of strategic alternatives generally, or this process in particular, will result in any transaction or that a transaction will be consummated. Any final decision regarding strategic alternatives remains subject to approval by our Board of Directors.

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Consolidated Results of Operations

	Year Ended December 31,			% Change		
	2018	2017	2016	2018	2017	
	(in millions, except percentages)			to	to	
	2017	2016	2015	2017	2016	
Revenues						
Services	\$ 2,420.0	\$ 2,612.2	\$ 2,504.8	(7)	% 4	%
Redemption, net	676.3	935.3	993.6	(28)	(6)	
Finance charges, net	4,694.9	4,171.9	3,639.7	13	15	
Total revenue	7,791.2	7,719.4	7,138.1	1	8	
Operating expenses						
Cost of operations (exclusive of depreciation and amortization disclosed separately below)	4,220.9	4,269.9	4,276.8	(1)	—	
Provision for loan loss	1,016.0	1,140.1	940.5	(11)	21	
General and administrative	172.7	166.3	143.2	4	16	
Depreciation and other amortization	196.1	183.1	167.1	7	10	
Amortization of purchased intangibles	291.2	314.5	345.0	(7)	(9)	
Total operating expenses	5,896.9	6,073.9	5,872.6	(3)	3	
Operating income	1,894.3	1,645.5	1,265.5	15	30	
Interest expense						
Securitization funding costs	220.2	156.6	125.6	41	25	
Interest expense on deposits	165.7	125.1	84.7	32	48	
Interest expense on long-term and other debt, net	284.7	282.7	218.2	1	30	
Total interest expense, net	670.6	564.4	428.5	19	32	
Income before income tax	1,223.7	1,081.1	837.0	13	29	
Provision for income taxes	260.6	292.4	319.4	(11)	(8)	
Net income	\$ 963.1	\$ 788.7	\$ 517.6	22	% 52	%
Key Operating Metrics:						
Credit card statements generated	300.7	296.7	279.4	1	% 6	%
Credit sales	\$ 30,702.3	\$ 31,001.6	\$ 29,271.3	(1)	% 6	%
Average credit card and loan receivables	\$ 17,412.1	\$ 16,185.5	\$ 14,085.8	8	% 15	%
AIR MILES reward miles issued	5,500.0	5,524.2	5,772.3	—	% (4)	%
AIR MILES reward miles redeemed	4,482.0	4,552.1	7,071.6	(2)	% (36)	%

Year ended December 31, 2018 compared to the year ended December 31, 2017

Revenue. Total revenue increased \$71.8 million, or 1%, to \$7,791.2 million for the year ended December 31, 2018 from \$7,719.4 million for the year ended December 31, 2017. The net increase was due to the following:

- Services. Revenue decreased \$192.2 million, or 7%, to \$2,420.0 million for the year ended December 31, 2018 as a result of a \$94.0 million decrease in marketing services revenue due to declines in our agency and site-based display product offerings, a \$75.2 million decrease in merchant fee revenue due to increased royalty payments to our retailers associated with higher volumes and new clients, and a \$19.2 million decrease in other servicing fees charged to cardholders due in part to a decline in revenue from certain payment protection products.
- Redemption. Revenue decreased \$259.0 million, or 28%, to \$676.3 million for the year ended December 31, 2018. Upon adoption of ASC 606, certain redemption revenue for which we do not control the good or service prior to transferring it to the collector is recorded on a net basis, which reduced both redemption revenue and cost of operations by \$283.4 million for the year ended December 31, 2018. This decrease was partially offset by an increase of \$38.3 million in redemption revenue from our short-term loyalty programs due to an increase in the number of active programs in market as compared to the prior year.
- Finance charges, net. Revenue increased \$523.0 million, or 13%, to \$4,694.9 million for the year ended December 31, 2018. This increase was driven by an 8% increase in average credit card and loan receivables, which impacted revenue by \$485.9 million through a combination of recent credit card portfolio acquisitions and new client signings, and an increase in net finance charge yield of approximately 20 basis points, which increased revenue by \$37.1 million.

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Cost of operations. Cost of operations decreased \$49.0 million, or 1%, to \$4,220.9 million for the year ended December 31, 2018 as compared to \$4,269.9 million for the year ended December 31, 2017. The net decrease resulted from the following:

- Within the LoyaltyOne segment, cost of operations decreased \$230.6 million due to a \$237.7 million decrease in cost of redemptions. This decrease in cost of redemptions was driven by a \$283.4 million decrease related to the adoption of ASC 606 as discussed above, offset in part by the increase in cost of redemptions related to our short-term loyalty programs due to the increase in revenue.
 - Within the Epsilon segment, cost of operations decreased \$93.7 million, or 5%, due to a decrease in direct costs associated with a 4% decline in revenue.
- Within the Card Services segment, cost of operations increased \$298.3 million due to \$101.6 million in valuation adjustments to certain portfolios within credit card and loan receivables held for sale, a \$67.4 million increase in payroll and benefit expenses to support in-house collections and operational initiatives, and higher credit card processing costs attributable to increases in volume.

Provision for loan loss. Provision for loan loss decreased \$124.1 million, or 11%, to \$1,016.0 million for the year ended December 31, 2018 as compared to \$1,140.1 million for the year ended December 31, 2017, due to the change in credit card and loan receivables in each respective period, including the impact of the classification of credit card receivables held for sale, offset in part by an increase in net charge-offs.

General and administrative. General and administrative expenses increased \$6.4 million, or 4%, to \$172.7 million for the year ended December 31, 2018 as compared to \$166.3 million for year ended December 31, 2017, due to an increase in professional fees, medical benefits and charitable contributions, which were offset in part by a decrease in net foreign currency exchange losses realized and a decrease in incentive compensation driven by bonuses in 2017 to our non-executive associates resulting from tax reform benefits.

Depreciation and other amortization. Depreciation and other amortization increased \$13.0 million, or 7%, to \$196.1 million for the year ended December 31, 2018, as compared to \$183.1 million for the year ended December 31, 2017, due to additional assets placed into service from capital expenditures.

Amortization of purchased intangibles. Amortization of purchased intangibles decreased \$23.3 million, or 7%, to \$291.2 million for the year ended December 31, 2018, as compared to \$314.5 million for the year ended December 31, 2017, primarily due to certain fully amortized intangible assets, including customer databases and portfolio premiums.

Interest expense, net. Total interest expense, net increased \$106.2 million, or 19%, to \$670.6 million for the year ended December 31, 2018 as compared to \$564.4 million for the year ended December 31, 2017. The increase was due to the following:

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Securitization funding costs. Securitization funding costs increased \$63.6 million due to higher average interest rates, which increased funding costs by approximately \$36.6 million, and higher average borrowings, which increased funding costs by approximately \$27.0 million.

- Interest expense on deposits. Interest expense on deposits increased \$40.6 million due to higher average borrowings, which increased interest expense by approximately \$21.8 million, and higher average interest rates, which increased interest expense by approximately \$18.8 million.
- Interest expense on long-term and other debt, net. Interest expense on long-term and other debt, net increased \$2.0 million primarily due to a \$26.5 million increase in interest expense on term debt and a \$14.9 million increase in interest expense on the revolving line of credit due to higher average borrowings and higher average interest rates due to increases in the LIBOR rate. These increases were offset in part by a \$37.4 million decrease in interest expense on senior notes primarily due to the repayment of senior notes in December 2017 and April 2018.

Taxes. Income tax expense decreased \$31.8 million, or 11%, to \$260.6 million for the year ended December 31, 2018 from \$292.4 million for the year ended December 31, 2017, due to the reduction in the federal statutory rate pursuant to tax reform enacted in December 2017. The effective tax rate for the year ended December 31, 2018 decreased to 21.3% as compared to 27.0% for the year ended December 31, 2017. Additionally, income tax expense in the current year was positively impacted by a tax benefit associated with a foreign restructuring in the current year.

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These benefits were offset in part by the negative impact of the Supreme Court's decision in South Dakota v. Wayfair, Inc.

Year ended December 31, 2017 compared to the year ended December 31, 2016

Revenue. Total revenue increased \$581.3 million, or 8%, to \$7,719.4 million for the year ended December 31, 2017 from \$7,138.1 million for the year ended December 31, 2016. The net increase was due to the following:

- Services. Revenue increased \$107.4 million, or 4%, to \$2,612.2 million for the year ended December 31, 2017 primarily due to an increase in services provided to our Epsilon clients, driven by double-digit growth in the automotive, agency and digital CRM offerings as a result of new client signings and strength in existing client relationships. This increase was offset in part by a \$28.6 million decline in Card Services merchant fees as a result of increased royalty payments associated with higher volumes and new clients.
- Redemption. Revenue decreased \$58.3 million, or 6%, to \$935.3 million for the year ended December 31, 2017 as our short-term loyalty programs decreased \$78.6 million as a result of softness due to the number and timing of campaigns in 2017 as compared to the prior year. Redemption revenue for our coalition loyalty program increased \$20.3 million, as the prior year was negatively impacted \$284.5 million due to our change in the breakage rate from 26% to 20% in December 2016, offset by a 36% decrease in AIR MILES reward miles redeemed in 2017 as compared to the prior year.
- Finance charges, net. Revenue increased \$532.2 million, or 15%, to \$4,171.9 million for the year ended December 31, 2017. This increase was driven by an increase in average credit card and loan receivables, which increased revenue \$595.2 million through a combination of recent credit card portfolio acquisitions, including Signet in October 2017, and a 6% increase in credit sales. This increase was offset in part by an approximate 40 basis point decline in yield, primarily due to providing a two-month leniency period for cardholders in FEMA-designated "individual assistance" disaster areas impacted by recent hurricanes in the second half of 2017.

Cost of operations. Cost of operations decreased \$6.9 million to \$4,269.9 million for the year ended December 31, 2017 as compared to \$4,276.8 million for the year ended December 31, 2016. The net decrease resulted from the following:

- Within the LoyaltyOne segment, cost of operations decreased \$220.4 million due to a 24% decrease in cost of redemptions associated with the decrease in redemption revenue.
- Within the Epsilon segment, cost of operations increased \$121.0 million due to a 9%, or \$72.0 million, increase in direct processing expenses associated with the increase in revenue as well as a 5%, or \$49.0 million, increase in payroll and benefit expenses, including an increase of \$31.1 million associated with incentive compensation expense and commissions as compared to the prior year.
- Within the Card Services segment, cost of operations increased \$89.7 million. Payroll and benefit expenses increased \$71.2 million due to an increase in the number of associates to support growth and operational initiatives, and other operating expenses increased \$18.5 million as a result of higher credit card processing costs due to increases in volume associated with growth in credit card and loan receivables.

Provision for loan loss. Provision for loan loss increased \$199.6 million, or 21%, to \$1,140.1 million for the year ended December 31, 2017 as compared to \$940.5 million for the year ended December 31, 2016. The increase in the

provision for loan loss was driven by higher principal losses as well as an increase in credit card and loan receivables. The net charge-off rate was 6.0% for the year ended December 31, 2017 as compared to 5.1% for the year ended December 31, 2016. Delinquency rates were 5.1% of principal credit card and loan receivables at December 31, 2017 as compared to 4.8% at December 31, 2016.

General and administrative. General and administrative expenses increased \$23.1 million, or 16%, to \$166.3 million for the year ended December 31, 2017 as compared to \$143.2 million for year ended December 31, 2016, due to an increase in net foreign currency exchange losses recognized of \$7.8 million and a 16% increase in payroll and benefits expense, driven by a \$12.0 million increase in bonuses to our non-executive associates resulting from tax reform benefits.

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Depreciation and other amortization. Depreciation and other amortization increased \$16.0 million, or 10%, to \$183.1 million for the year ended December 31, 2017, as compared to \$167.1 million for the year ended December 31, 2016, due to additional assets placed into service from capital expenditures.

Amortization of purchased intangibles. Amortization of purchased intangibles decreased \$30.5 million, or 9%, to \$314.5 million for the year ended December 31, 2017, as compared to \$345.0 million for the year ended December 31, 2016, primarily due to certain fully amortized intangible assets at Epsilon and LoyaltyOne.

Interest expense, net. Total interest expense, net increased \$135.9 million, or 32%, to \$564.4 million for the year ended December 31, 2017 as compared to \$428.5 million for the year ended December 31, 2016. The increase was due to the following:

- Securitization funding costs. Securitization funding costs increased \$31.0 million due to higher average interest rates, which increased funding costs by approximately \$18.1 million, and higher average borrowings, which increased funding costs by approximately \$12.9 million.
- Interest expense on deposits. Interest expense on deposits increased \$40.4 million due to higher average borrowings, which increased interest expense by approximately \$25.9 million, and higher average interest rates, which increased interest expense by approximately \$14.5 million.
- Interest expense on long-term and other debt, net. Interest expense on long-term and other debt, net increased \$64.5 million primarily due to the issuance of new senior notes in October 2016 and March 2017, which increased interest expense by an aggregate of \$38.8 million. Additionally, interest expense on term debt increased \$19.0 million due to higher average borrowings and higher average interest rates due to increases in the LIBOR rate, and amortization of debt issuance costs increased \$4.8 million.

Taxes. Income tax expense decreased \$27.0 million, or 8%, to \$292.4 million for the year ended December 31, 2017 from \$319.4 million for the year ended December 31, 2016. The effective tax rate for the year ended December 31, 2017 decreased to 27.0% as compared to 38.2% for the year ended December 31, 2016. Our year-over-year effective tax rate decrease resulted primarily from the impact of the Tax Cuts and Jobs Act in December 2017, as the Company was required to write-down the value of our net U.S. deferred tax liability from 35% to 21% as a result of the change in the federal statutory tax rate. This benefit was partially offset by an increase in the valuation allowance for foreign tax credit carryforwards which are now no longer more likely than not to be utilized as a result of the tax reform legislation. Our 2016 effective tax rate was impacted by the mix of earnings between U.S. and foreign jurisdictions, particularly the decrease in lower taxed Canadian earnings related to the change in estimate of our breakage rate in December 2016.

Use of Non-GAAP Financial Measures

Adjusted EBITDA is a non-GAAP financial measure equal to net income, the most directly comparable financial measure based on accounting principles generally accepted in the United States of America, or GAAP, plus stock compensation expense, provision for income taxes, interest expense, net, depreciation and other amortization, and

amortization of purchased intangibles.

In 2018, adjusted EBITDA excluded costs related to the exploration of strategic alternatives for our Epsilon segment. In 2016, adjusted EBITDA excluded the impact of the cancellation of the AIR MILES Reward Program's five-year expiry policy on December 1, 2016. In 2015, adjusted EBITDA excluded costs associated with the consent orders with the FDIC, and in 2014, adjusted EBITDA excluded business acquisition costs related to the acquisition of Conversant and the contingent consideration incurred as a result of the earn-out obligation associated with the BrandLoyalty acquisition. These costs, as well as stock compensation expense, were not included in the measurement of segment adjusted EBITDA as the chief operating decision maker did not factor these expenses for purposes of assessing segment performance and decision making with respect to resource allocations.

Adjusted EBITDA, net is also a non-GAAP financial measure equal to adjusted EBITDA less securitization funding costs, interest expense on deposits and adjusted EBITDA attributable to the non-controlling interest. Effective April 1, 2016, we acquired the remaining 20% interest in BrandLoyalty, which increased our ownership percentage to 100%.

We use adjusted EBITDA and adjusted EBITDA, net as an integral part of our internal reporting to measure the performance of our reportable segments and to evaluate the performance of our senior management, and we believe it provides useful information to our investors regarding our performance and overall results of operations. Adjusted

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EBITDA and adjusted EBITDA, net are each considered an important indicator of the operational strength of our businesses. Adjusted EBITDA and adjusted EBITDA, net eliminate the uneven effect across all business segments of considerable amounts of non-cash depreciation of tangible assets and amortization of intangible assets, including certain intangible assets that were recognized in business combinations. A limitation of this measure, however, is that it does not reflect the periodic costs of certain capitalized tangible and intangible assets used in generating revenues in our businesses. Management evaluates the costs of such tangible and intangible assets, such as capital expenditures, investment spending and return on capital and therefore the effects are excluded from adjusted EBITDA and adjusted EBITDA, net. Adjusted EBITDA and adjusted EBITDA, net also eliminate the non-cash effect of stock compensation expense.

Adjusted EBITDA and adjusted EBITDA, net are not intended to be performance measures that should be regarded as an alternative to, or more meaningful than, either operating income or net income as indicators of operating performance or to cash flows from operating activities as a measure of liquidity. In addition, adjusted EBITDA and adjusted EBITDA, net are not intended to represent funds available for dividends, reinvestment or other discretionary uses, and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with GAAP.

The adjusted EBITDA and adjusted EBITDA, net measures presented in this Annual Report on Form 10-K may not be comparable to similarly titled measures presented by other companies, and may not be identical to corresponding measures used in our various agreements.

	Years Ended December 31,				
	2018	2017	2016	2015	2014
	(In millions)				
Net income	\$ 963.1	\$ 788.7	\$ 517.6	\$ 605.4	\$ 516.1
Stock compensation expense	80.8	75.1	76.5	91.3	72.5
Provision for income taxes	260.6	292.4	319.4	326.2	321.8
Interest expense, net	670.6	564.4	428.5	330.2	260.5
Depreciation and other amortization	196.1	183.1	167.1	142.1	109.7
Amortization of purchased intangibles	291.2	314.5	345.0	350.1	203.4
Impact of expiry (1)	—	—	241.7	—	—
Regulatory settlement (2)	—	—	—	64.6	—
Earn-out obligation (3)	—	—	—	—	105.9
Business acquisition costs (4)	—	—	—	—	7.3
Strategic transaction costs (5)	3.3	—	—	—	—
Adjusted EBITDA	\$ 2,465.7	\$ 2,218.2	\$ 2,095.8	\$ 1,909.9	\$ 1,597.2
Less: Securitization funding costs	220.2	156.6	125.6	97.1	91.1
Less: Interest expense on deposits	165.7	125.1	84.7	53.6	37.5
Less: Adjusted EBITDA attributable to non-controlling interest	—	—	5.5	30.9	43.1
Adjusted EBITDA, net	\$ 2,079.8	\$ 1,936.5	\$ 1,880.0	\$ 1,728.3	\$ 1,425.5

- (1) Represents the impact of the cancellation of the AIR MILES Reward Program's five-year expiry policy on December 1, 2016.
- (2) Represents costs associated with the consent orders with the FDIC to provide restitution to eligible customers and \$2.5 million in civil penalties.
- (3) Represents additional contingent consideration as a result of the earn-out obligation associated with the acquisition of our 60 percent ownership interest in BrandLoyalty in 2014.
- (4) Represents expenditures directly associated with the acquisition of Conversant in 2014.
- (5) Represents expenditures directly associated with strategic alternatives related to Epsilon.

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Segment Revenue and Adjusted EBITDA, net

	Year Ended December 31,			% Change			
	2018	2017	2016	2018 to 2017	2017 to 2016		
	(in millions, except percentages)						
Revenue:							
LoyaltyOne	\$ 1,068.4	\$ 1,303.5	\$ 1,337.9	(18)	%	(3)	%
Epsilon	2,175.1	2,272.1	2,155.2	(4)		5	
Card Services	4,597.6	4,170.6	3,675.0	10		13	
Corporate/Other	0.6	0.6	0.3	nm	*	nm	*
Eliminations	(50.5)	(27.4)	(30.3)	nm	*	nm	*
Total	\$ 7,791.2	\$ 7,719.4	\$ 7,138.1	1	%	8	%
Adjusted EBITDA, net:							
LoyaltyOne	\$ 254.2	\$ 256.7	\$ 308.9	(1)	%	(17)	%
Epsilon	475.1	475.7	480.2	—		(1)	
Card Services	1,496.0	1,344.9	1,213.3	11		11	
Corporate/Other	(145.5)	(140.8)	(122.4)	3		15	
Total	\$ 2,079.8	\$ 1,936.5	\$ 1,880.0	7	%	3	%

*not meaningful

Year ended December 31, 2018 compared to the year ended December 31, 2017

Revenue. Total revenue increased \$71.8 million, or 1%, to \$7,791.2 million for the year ended December 31, 2018 from \$7,719.4 million for the year ended December 31, 2017. The net increase was due to the following:

- LoyaltyOne. Revenue decreased \$235.1 million, or 18%, to \$1,068.4 million for the year ended December 31, 2018 primarily due to the adoption of ASC 606, which negatively impacted revenue by \$283.4 million. This decrease was offset in part by a 12% increase in revenue from our short-term loyalty programs primarily due to an increase in the number of active programs in market.
- Epsilon. Revenue decreased \$97.0 million, or 4%, to \$2,175.1 million for the year ended December 31, 2018 primarily due to declines in agency and site-based display product offerings as compared to the prior year.
- Card Services. Revenue increased \$427.0 million, or 10%, to \$4,597.6 million for the year ended December 31, 2018, driven by a \$523.0 million increase in finance charges, net as a result of an 8% increase in average credit card and loan receivables. This increase was offset in part by a decrease in servicing fees of \$96.0 million, as merchant fee revenue declined \$75.2 million due to increased royalty payments to our retailers associated with higher volumes and new clients, and other servicing fees charged to cardholders declined \$19.2 million due in part to a decline in revenue from certain payment protection products.

Adjusted EBITDA, net. Adjusted EBITDA, net increased \$143.3 million, or 7%, to \$2,079.8 million for the year ended December 31, 2018 from \$1,936.5 million for the year ended December 31, 2017. The net increase was due to the following:

- LoyaltyOne. Adjusted EBITDA, net decreased \$2.5 million, or 1%, to \$254.2 million for the year ended December 31, 2018, as a result of lower margin programs in key markets within our short-term loyalty programs and weakened performance in Asia.
- Epsilon. Adjusted EBITDA, net decreased \$0.6 million to \$475.1 million for the year ended December 31, 2018 due to the decrease in revenue, offset in part by a favorable revenue mix toward higher margin product offerings in the current year as compared to the prior year.
- Card Services. Adjusted EBITDA, net increased \$151.1 million, or 11%, to \$1,496.0 million for the year ended December 31, 2018. Adjusted EBITDA, net was positively impacted by an increase in finance charges, net and a decrease in the provision for loan loss, but offset in part by valuation adjustments to certain portfolios within credit card and loan receivables held for sale, higher funding costs, and an increase in payroll and benefit expenses to support in-house collections and operational initiatives.
- Corporate/Other. Adjusted EBITDA, net decreased \$4.7 million to a loss of \$145.5 million for the year ended December 31, 2018 due to an increase in professional fees, medical benefits and charitable contributions, which

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were offset by a decrease in net foreign currency exchange losses realized and a decrease in incentive compensation driven by bonuses in 2017 to our non-executive associates resulting from tax reform benefits.

Year ended December 31, 2017 compared to the year ended December 31, 2016

Revenue. Total revenue increased \$581.3 million, or 8%, to \$7,719.4 million for the year ended December 31, 2017 from \$7,138.1 million for the year ended December 31, 2016. The net increase was due to the following:

- LoyaltyOne. Revenue decreased \$34.4 million, or 3%, to \$1,303.5 million for the year ended December 31, 2017 as revenue from our short-term loyalty programs decreased \$78.6 million as a result of softness due to the number and timing of campaigns in 2017 as compared to the prior year. This decrease was offset in part by a \$44.2 million increase in revenue from our coalition loyalty program, as the prior year was negatively impacted \$284.5 million due to our change in the breakage rate from 26% to 20% in December 2016 but offset by a 36% decrease in AIR MILES reward miles redeemed in 2017.
- Epsilon. Revenue increased \$116.9 million, or 5%, to \$2,272.1 million for the year ended December 31, 2017 driven by double-digit growth in the automotive, agency and digital CRM offerings from a combination of new clients and strength in existing client relationships.
- Card Services. Revenue increased \$495.6 million, or 13%, to \$4,170.6 million for the year ended December 31, 2017, driven by a \$532.2 million increase in finance charges, net as a result of an increase in average credit card and loan receivables due to recent portfolio acquisitions and strong cardholder spending. Servicing fees decreased \$36.6 million, as merchant fees declined \$28.6 million due to increased royalty payments associated with higher volumes and new clients, and other servicing fees declined \$8.0 million.

Adjusted EBITDA, net. Adjusted EBITDA, net increased \$56.5 million, or 3%, to \$1,936.5 million for the year ended December 31, 2017 from \$1,880.0 million for the year ended December 31, 2016. The net increase was due to the following:

- LoyaltyOne. Adjusted EBITDA, net decreased \$52.2 million, or 17%, to \$256.7 million for the year ended December 31, 2017 primarily due to underperformance of our short-term loyalty programs in the current year as well as a decline in our coalition loyalty program driven by a decrease in AIR MILES reward miles redeemed and our change in the breakage rate. In the prior year, adjusted EBITDA, net was reduced by \$5.5 million of adjusted EBITDA attributable to the non-controlling interest. Effective April 1, 2016, we acquired the remaining 20% interest in BrandLoyalty to bring our ownership percentage to 100%.
- Epsilon. Adjusted EBITDA, net decreased \$4.5 million, or 1%, to \$475.7 million for the year ended December 31, 2017 due to the restoration of incentive compensation expense in 2017.
- Card Services. Adjusted EBITDA, net increased \$131.6 million, or 11%, to \$1,344.9 million for the year ended December 31, 2017. Adjusted EBITDA, net was positively impacted by an increase in finance charges, net, which was primarily offset in part by an increase in the provision for loan loss resulting from higher principal loss rates and an increase in credit card and loan receivables.
- Corporate/Other. Adjusted EBITDA, net decreased \$18.4 million to a loss of \$140.8 million for the year ended December 31, 2017, due to higher payroll and benefit costs, which included a \$12.0 million increase in bonuses to our non-executive associates resulting from tax reform benefits, as well as an increase in charitable contributions and higher net foreign currency exchange losses recognized in the current year.

Asset Quality

Our delinquency and net charge-off rates reflect, among other factors, the credit risk of our credit card and loan receivables, the success of our collection and recovery efforts, and general economic conditions.

Delinquencies. A credit card account is contractually delinquent when we do not receive the minimum payment by the specified due date on the cardholder's statement. Our policy is to continue to accrue interest and fee income on all credit card accounts beyond 90 days, except in limited circumstances, until the credit card account balance and all related interest and other fees are paid or charged-off, in the month during which an account becomes 180 days delinquent. When an account becomes delinquent, a message is printed on the credit cardholder's billing statement requesting payment. After an account becomes 30 days past due, a proprietary collection scoring algorithm automatically

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scores the risk of the account becoming further delinquent. The collection system then recommends a collection strategy for the past due account based on the collection score and account balance and dictates the contact schedule and collections priority for the account. If we are unable to make a collection after exhausting all in-house collection efforts, we may engage collection agencies and outside attorneys to continue those efforts.

The following table presents the delinquency trends of our credit card and loan receivables portfolio:

	December 31, 2018	% of Total		December 31, 2017	% of Total
(In millions, except percentages)					
Receivables outstanding - principal	\$ 16,869.9	100.0 %		\$ 17,705.1	100.0 %
Principal receivables balances contractually delinquent:					
31 to 60 days	303.2	1.8 %		301.5	1.7 %
61 to 90 days	207.9	1.3 %		191.3	1.1 %
91 or more days	443.4	2.6 %		409.6	2.3 %
Total	\$ 954.5	5.7 %		\$ 902.4	5.1 %

Net Charge-Offs. Our net charge-offs include the principal amount of losses from cardholders unwilling or unable to pay their account balances, as well as bankrupt and deceased credit cardholders, less recoveries and exclude charged-off interest, fees and fraud losses. Charged-off interest and fees reduce finance charges, net while fraud losses are recorded as an expense. Credit card and loan receivables, including unpaid interest and fees, are charged-off in the month during which an account becomes 180 days contractually past due, except in the case of customer bankruptcies or death. Credit card and loan receivables, including unpaid interest and fees, associated with customer bankruptcies or death are charged-off in each month subsequent to 60 days after the receipt of notification of the bankruptcy or death, but in any case, not later than the 180-day contractual time frame.

The net charge-off rate is calculated by dividing net charge-offs of principal receivables for the period by the average credit card and loan receivables for the period. Average credit card and loan receivables represent the average balance of the cardholder receivables at the beginning of each month in the periods indicated. The following table presents our net charge-offs for the periods indicated:

	Year Ended December 31,					
	2018		2017		2016	
(In millions, except percentages)						
Average credit card and loan receivables	\$ 17,412.1		\$ 16,185.5		\$ 14,085.8	
Net charge-offs of principal receivables	1,067.2		970.9		723.0	
	6.1	%	6.0	%	5.1	%

Net charge-offs as a percentage of average credit card and loan receivables

Liquidity and Capital Resources

Our primary sources of liquidity include cash generated from operating activities, our credit agreements and issuances of debt or equity securities, our credit card securitization program and deposits issued by Comenity Bank and Comenity Capital Bank. In addition to our efforts to renew and expand our current liquidity sources, we continue to seek new funding sources, including our plan to enter the consumer deposit market for Comenity Capital Bank in 2019.

Our primary uses of cash are for ongoing business operations, repayments of our debt, capital expenditures, investments or acquisitions, stock repurchases and dividends.

We may from time to time seek to retire or purchase our outstanding debt through cash purchases or exchanges for other securities, in open market purchases, privately negotiated transactions or otherwise. Such repurchases or exchanges, if any, will depend on prevailing market conditions, our liquidity requirements, contractual restrictions and other factors. The amounts involved may be material.

We believe that internally generated funds and other sources of liquidity discussed below will be sufficient to meet working capital needs, capital expenditures, and other business requirements for at least the next 12 months.

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Cash Flow Activity

Operating Activities. We generated cash flow from operating activities of \$2,754.9 million and \$2,599.1 million for the years ended December 31, 2018 and 2017, respectively. The increase in operating cash flows of \$155.8 million during the year ended December 31, 2018 was primarily due to an increase in profitability.

Investing Activities. Cash used in investing activities was \$1,872.0 million and \$4,268.1 million for the years ended December 31, 2018 and 2017, respectively. Significant components of investing activities are as follows:

- Redemption settlement assets. Cash decreased \$42.2 million for the year ended December 31, 2018 due to additional investments in corporate bonds within the redemption settlement assets. Cash decreased \$231.3 million for the year ended December 31, 2017 as we increased funding to the redemption settlement assets as a result of the breakage rate change in December 2016.
- Credit card and loan receivables. Cash decreased \$2,749.6 million and \$3,600.2 million for the years ended December 31, 2018 and 2017, respectively, due to growth in credit card and loan receivables in each respective year.
- Proceeds from sale of credit card and loan portfolios. During the year ended December 31, 2018, we received cash consideration of \$1,153.5 million from the sale of six credit card portfolios. During the year ended December 31, 2017, we received cash consideration of \$797.7 million from the sale of two credit card and loan portfolios.
- Payments for acquired businesses, net of cash. During the year ended December 31, 2017, we acquired credit card receivables and the associated accounts and assumed a portion of an existing customer care operation, including a facility sublease agreement and approximately 250 employees, from Signet for cash consideration of approximately \$945.6 million.
- Capital expenditures. Cash paid for capital expenditures was \$199.8 million and \$225.4 million for the years ended December 31, 2018 and 2017, respectively. We anticipate capital expenditures to continue to be approximately 3% of annual revenue.

Financing Activities. Cash used in financing activities was \$1,217.9 million for the year ended December 31, 2018, and cash provided by financing activities was \$4,004.9 million for the year ended December 31, 2017. Significant components of financing activities are as follows:

- Debt. Cash decreased \$317.7 million in net repayments for the year ended December 31, 2018, primarily due to the early repayment of \$500.0 million senior notes due in 2020. Cash increased \$355.3 million in net borrowings for the year ended December 31, 2017, primarily due to the issuance of €400.0 million senior notes due in 2022 and additional term loan and revolving line of credit net borrowings, offset in part by the repayment of \$400.0 million senior notes due in 2017.
- Non-recourse borrowings of consolidated securitization entities. Cash decreased \$1,156.4 million in net repayments for the year ended December 31, 2018 due to \$985.0 million in net repayments under the conduit facilities and \$171.4 million in net maturities under the asset-backed term notes. Cash increased \$1,852.2 million in net borrowings for the year ended December 31, 2017 due to \$1,410.0 million in net borrowings under the conduit facilities and \$442.2 million in net borrowings under the asset-backed term notes.
- Deposits. Cash increased \$864.1 million and \$2,543.2 million for the years ended December 31, 2018 and 2017, respectively, due to new issuances, offset in part by timing of maturities.
- Dividends. Cash paid for quarterly dividends and dividend equivalents was \$125.2 million and \$115.5 million for the years ended December 31, 2018 and 2017, respectively.

- Treasury shares. Cash paid for treasury shares was \$443.2 million and \$553.7 million for the years ended December 31, 2018 and 2017, respectively.

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Debt

Long-term and Other Debt

At December 31, 2018, our credit agreement, as amended, provided for a \$3,052.6 million term loan, subject to certain repayments, and a \$1,572.4 million revolving line of credit. The loans are scheduled to mature on June 14, 2022.

As of December 31, 2018, we had \$740.0 million outstanding under our revolving line of credit and total availability of \$832.4 million. Our total leverage ratio, as defined in our credit agreement, was 2.3 to 1 at December 31, 2018, as compared to the maximum covenant ratio of 3.5 to 1.

In April 2018, we redeemed our \$500.0 million outstanding 6.375% senior notes due April 1, 2020 at par plus accrued interest. We funded the redemption with borrowings under our revolving line of credit.

The BrandLoyalty credit agreement, as amended in June 2016, provided for a reduction in commitment on each of the uncommitted and committed revolving lines of credit of €25.0 million in August 2018, reducing the total capacity from €125.0 million to €75.0 million. As of December 31, 2018, we had €37.6 million (\$43.2 million) outstanding under the revolving lines of credit in the BrandLoyalty credit agreement.

As of December 31, 2018, we were in compliance with our debt covenants.

See Note 12, "Debt," of the Notes to Consolidated Financial Statements for additional information regarding our debt.

Deposits

We utilize money market deposits and certificates of deposit to finance the operating activities, including funding for our non-securitized credit card receivables, and fund securitization enhancement requirements of our bank subsidiaries, Comenity Bank and Comenity Capital Bank.

Comenity Bank and Comenity Capital Bank offer non-maturity deposit programs through contractual arrangements with various financial counterparties. As of December 31, 2018, Comenity Bank and Comenity Capital Bank had \$3.4 billion in money market deposits outstanding with interest rates ranging from 1.90% to 2.71%. Money market deposits are redeemable on demand by the customer and, as such, have no scheduled maturity date.

Comenity Bank and Comenity Capital Bank issue certificates of deposit in denominations of at least \$100,000 and \$1,000, respectively, in various maturities ranging between January 2019 and December 2023 and with effective annual interest rates ranging from 1.25% to 4.00%. As of December 31, 2018, we had \$8.4 billion of certificates of deposit outstanding. Certificate of deposit borrowings are subject to regulatory capital requirements.

Securitization Program

We sell a majority of the credit card receivables originated by Comenity Bank to WFN Credit Company, LLC, which in turn sells them to World Financial Network Credit Card Master Trust, World Financial Network Credit Card Master Note Trust, or Master Trust I, and World Financial Network Credit Card Master Trust III, or Master Trust III, or collectively, the WFN Trusts, as part of our credit card securitization program, which has been in existence since January 1996. We also sell our credit card receivables originated by Comenity Capital Bank to World Financial Capital Credit Company, LLC, which in turn sells them to World Financial Capital Master Note Trust, or the WFC Trust. These securitization programs are a principal vehicle through which we finance Comenity Bank's and Comenity Capital Bank's credit card receivables. Historically, we have used both public and private term asset-backed securitization transactions as well as private conduit facilities as sources of funding for our securitized credit card receivables. Private conduit facilities have been used to accommodate seasonality needs and to bridge to completion of asset-backed securitization transactions.

During the year ended December 31, 2018, Master Trust I issued \$1.3 billion of asset-backed term notes with various maturities ranging between February 2021 and October 2021, of which \$96.9 million were retained by us and eliminated from the consolidated balance sheets. Additionally, \$1.7 billion of asset-backed term notes matured and were repaid, of which \$386.2 million were retained by us and eliminated from the consolidated balance sheets.

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As of December 31, 2018, the WFN Trusts and the WFC Trust had approximately \$13.4 billion of securitized credit card receivables. Securitizations require credit enhancements in the form of cash, spread deposits, additional receivables and subordinated classes. The credit enhancement is principally based on the outstanding balances of the series issued by the WFN Trusts and the WFC Trust and by the performance of the credit card receivables in these credit card securitization trusts. We have secured and continue to secure the necessary commitments to fund our portfolio of securitized credit card receivables originated by Comenity Bank and Comenity Capital Bank. However, certain of these commitments are short-term in nature and subject to renewal. There is not a guarantee that these funding sources, when they mature, will be renewed on similar terms or at all as they are dependent on the asset-backed securitization markets at the time.

We have access to committed undrawn capacity through three conduit facilities to support the funding of our credit card receivables through Master Trust I, Master Trust III and the WFC Trust. As of December 31, 2018, total capacity under the conduit facilities was \$4.5 billion, of which \$2.8 billion had been drawn and was included in non-recourse borrowings of consolidated securitization entities in the consolidated balance sheets. Borrowings outstanding under each facility bear interest at a margin above LIBOR or the asset-backed commercial paper costs of each individual conduit provider. The conduits have varying maturities from November 2019 to September 2020 with variable interest rates ranging from 3.48% to 3.79% as of December 31, 2018.

In August 2018, Master Trust I amended its 2009-VFN conduit facility, increasing the capacity from \$800.0 million to \$1,180.0 million and extending the maturity to September 2020.

In August 2018, Master Trust III amended its 2009-VFC conduit facility, decreasing the capacity from \$1,680.0 million to \$1,300.0 million and extending the maturity to September 2020.

The following table shows the maturities of borrowing commitments as of December 31, 2018 for the WFN Trusts and the WFC Trust by year:

	2019	2020	2021	2022	Thereafter	Total
	(In millions)					
Term notes	\$ 1,574.0	\$ 1,467.2	\$ 1,852.1	\$ —	\$ —	\$ 4,893.3
Conduit facilities (1)	1,975.0	2,480.0	—	—	—	4,455.0
Total (2)	\$ 3,549.0	\$ 3,947.2	\$ 1,852.1	\$ —	\$ —	\$ 9,348.3

(1) Amount represents borrowing capacity, not outstanding borrowings.

(2)

Total amounts do not include \$1.8 billion of debt issued by the credit card securitization trusts, which was retained by us and has been eliminated in the consolidated financial statements.

Early amortization events as defined within each asset-backed securitization transaction are generally driven by asset performance. We do not believe it is reasonably likely that an early amortization event will occur due to asset performance. However, if an early amortization event were declared, the trustee of the particular credit card securitization trust would retain the interest in the receivables along with the excess interest income that would otherwise be paid to our bank subsidiary until the credit card securitization investors were fully repaid. The occurrence of an early amortization event would significantly limit or negate our ability to securitize additional credit card receivables.

See Note 12, "Debt," of the Notes to Consolidated Financial Statements for additional information regarding our securitized debt.

Stock Repurchase Programs

We had an authorized stock repurchase program to acquire up to \$1.0 billion of our outstanding common stock through July 31, 2018. At July 31, 2018, \$280.3 million of this program expired unused. On July 26, 2018, our Board of Directors authorized a new stock repurchase program to acquire up to \$500.0 million of our outstanding common stock from August 1, 2018 through July 31, 2019. As of December 31, 2018, we had \$222.8 million remaining under the stock repurchase program.

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For the year ended December 31, 2018, we acquired approximately 2.2 million shares of our common stock for \$443.2 million.

See “Stock Repurchase Programs” under Note 15, “Stockholders’ Equity,” of the Notes to Consolidated Financial Statements for additional information regarding our stock repurchase programs.

Dividends

For the year ended December 31, 2018, we paid quarterly cash dividends of \$0.57 per share for a total of \$125.2 million. For the year ended December 31, 2017, we paid quarterly cash dividends of \$0.52 per share for a total of \$115.5 million.

On February 7, 2019, our Board of Directors declared a quarterly cash dividend of \$0.63 per share on our common stock, payable on March 19, 2019 to stockholders of record at the close of business on February 21, 2019.

Contractual Obligations

In the normal course of business, we enter into various contractual obligations that may require future cash payments. Our future cash payments associated with our contractual obligations and commitments to make future payments by type and period as of December 31, 2018 are summarized below:

	2019	2020	2021	2022	2023	Thereafter	Total
	(In millions)						
Deposits (1)	\$ 6,787.0	\$ 2,325.8	\$ 1,538.5	\$ 1,091.4	\$ 538.4	\$ —	\$ 12,281.1
Non-recourse borrowings of consolidated securitization entities (1)	2,917.0	3,207.5	1,877.6	—	—	—	8,002.1
Long-term and other debt (1)	399.0	564.5	892.5	4,421.7	359.9	—	6,637.6
Operating leases	91.7	85.4	72.0	63.2	58.5	324.7	695.5
Capital leases	6.0	3.5	2.9	1.0	—	—	13.4
Software licenses	6.7	3.9	1.9	1.1	0.5	—	14.1
ASC 740 obligations (2)	—	—	—	—	—	—	—
	394.2	111.2	75.4	13.2	8.3	0.4	602.7

Purchase
obligations (3)

Total	\$ 10,601.6	\$ 6,301.8	\$ 4,460.8	\$ 5,591.6	\$ 965.6	\$ 325.1	\$ 28,246.5
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- (1) The deposits, non-recourse borrowings of consolidated securitization entities and long-term and other debt represent our estimated debt service obligations, including both principal and interest. Interest was based on the interest rates in effect as of December 31, 2018, applied to the contractual repayment period.
- (2) ASC 740 obligations do not reflect unrecognized tax benefits of \$293.6 million, of which the timing remains uncertain.
- (3) Purchase obligations are defined as an agreement to purchase goods or services that is enforceable and legally binding and specifying all significant terms, including the following: fixed or minimum quantities to be purchased; fixed, minimum or variable price provisions; and approximate timing of the transaction. The purchase obligation amounts disclosed above represent estimates of the minimum for which we are obligated and the time period in which cash outflows will occur. Purchase orders and authorizations to purchase that involve no firm commitment from either party are excluded from the above table. Purchase obligations include sponsor commitments under our AIR MILES Reward Program, minimum payments under support and maintenance contracts and agreements to purchase other goods and services.

We believe that we will have access to sufficient resources to meet these commitments.

Inflation and Seasonality

Although we cannot precisely determine the impact of inflation on our operations, we do not believe that we have been significantly affected by inflation. For the most part, we have relied on operating efficiencies from scale, technology and expansion in lower cost jurisdictions in select circumstances, as well as decreases in technology and communication costs, to offset increased costs of employee compensation and other operating expenses. With respect to seasonality, our revenues, earnings and cash flows are affected by increased consumer spending patterns leading up to and including the holiday shopping period in the third and fourth quarter and, to a lesser extent, during the first quarter as credit card and note receivable balances are paid down.

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Legislative and Regulatory Matters

Comenity Bank is subject to various regulatory capital requirements administered by the State of Delaware and the FDIC. Comenity Capital Bank is subject to regulatory capital requirements administered by both the FDIC and the State of Utah. Failure to meet minimum capital requirements can trigger certain mandatory and possibly additional discretionary actions by regulators. Under capital adequacy guidelines and the regulatory framework for prompt corrective action, both Comenity Bank and Comenity Capital Bank must meet specific capital guidelines that involve quantitative measures of its assets and liabilities as calculated under regulatory accounting practices. The capital amounts and classification are also subject to qualitative judgments by these regulators about components, risk weightings and other factors. Both Comenity Bank and Comenity Capital Bank are limited in the amounts that they can pay as dividends to us.

Quantitative measures established by regulations to ensure capital adequacy require Comenity Bank and Comenity Capital Bank to maintain minimum amounts and ratios of Common Equity Tier 1, Tier 1 and total capital to risk weighted assets and of Tier 1 capital to average assets. Comenity Bank and Comenity Capital Bank are considered well capitalized. The actual capital ratios and minimum ratios as of December 31, 2018 are as follows:

	Actual	Minimum Ratio for Capital Adequacy Purposes	Minimum Ratio to be Well Capitalized under Prompt Corrective Action Provisions
Comenity Bank			
Tier 1 capital to average assets	13.1 %	4.0 %	5.0 %
Common Equity Tier 1 capital to risk-weighted assets	14.6	4.5	6.5
Tier 1 capital to risk-weighted assets	14.6	6.0	8.0
Total capital to risk-weighted assets	15.9	8.0	10.0
Comenity Capital Bank			
Tier 1 capital to average assets	12.1 %	4.0 %	5.0 %
Common Equity Tier 1 capital to risk-weighted assets	14.4	4.5	6.5
Tier 1 capital to risk-weighted assets	14.4	6.0	8.0
Total capital to risk-weighted assets	15.7	8.0	10.0

In September 2015, each bank entered into a consent order with the FDIC in settlement of the FDIC's review regarding the marketing, promotion and sale of certain add-on products; these consent orders were terminated in August 2018.

In August 2014, the SEC adopted a number of rules that will change the disclosure, reporting and offering process for publicly registered offerings of asset-backed securities, including those offered under our credit card securitization program. A number of rules proposed by the SEC in 2010 and 2011, such as requiring group-level data for the underlying assets in credit card securitizations, were not adopted in 2014 but may be implemented by the SEC in the future with or without modifications. The SEC has also issued an advance notice of proposed rulemaking relating to the exemptions that our credit card securitization trusts rely on in our credit card securitization program to avoid registration as investment companies.

Regulations adopted by the FDIC, the SEC, the Federal Reserve and certain other federal regulators mandate a minimum five percent risk retention requirement for securitizations issued on and after December 24, 2016, known as Regulation RR. Such risk retention requirements may limit our liquidity by restricting the amount of asset-backed securities we are able to issue or affecting the timing of future issuances of asset-backed securities; we intend to satisfy such risk retention requirements by maintaining a seller's interest calculated in accordance with Regulation RR.

Discussion of Critical Accounting Estimates

Our discussion and analysis of our financial condition and results of operations is based upon our consolidated financial statements, which have been prepared in accordance with accounting policies that are described in the Notes to Consolidated Financial Statements. The preparation of the consolidated financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. We continually evaluate our judgments and estimates in determination of

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our financial condition and operating results. Estimates are based on information available as of the date of the financial statements and, accordingly, actual results could differ from these estimates, sometimes materially. Critical accounting estimates are defined as those that are both most important to the portrayal of our financial condition and operating results and require management's most subjective judgments. The primary critical accounting estimates are described below.

Allowance for Loan Loss.

We maintain an allowance for loan loss at a level that is appropriate to absorb probable losses inherent in credit card and loan receivables. The estimate of our allowance for loan loss considers uncollectible principal, interest and fees reflected in the credit card and loan receivables. While our estimation process includes historical data and analysis, there is a significant amount of judgment applied in selecting inputs and analyzing the results to determine the allowance for loan loss. We use a migration analysis to estimate the likelihood that a loan will progress through the various stages of delinquency. The considerations in these analyses include past and current credit card and loan performance, seasoning and growth, account collection strategies, economic conditions, bankruptcy filings, policy changes, payment rates and forecasting uncertainties. Given the same information, others may reach different reasonable estimates.

If we used different assumptions in estimating net charge-offs that could be incurred, the impact to the allowance for loan loss could have a material effect on our consolidated financial condition and results of operations. For example, a 100 basis point change in our estimate of incurred net loan losses could have resulted in a change of approximately \$176 million in the allowance for loan loss at December 31, 2018, with a corresponding change in the provision for loan loss.

Revenue Recognition.

We recognize revenue when control of the promised goods or services is transferred to the customer, in an amount that reflects the consideration we expect to be entitled to in exchange for those goods or services. In that determination, under ASC 606, we follow a five-step model that includes: (1) determination of whether a contract, an agreement between two or more parties that creates legally enforceable rights and obligations, exists; (2) identification of the performance obligations in the contract; (3) determination of the transaction price; (4) allocation of the transaction price to the performance obligations in the contract; and (5) recognition of revenue when (or as) the performance obligation is satisfied.

We enter into contracts with customers that may include multiple performance obligations. The transaction price is allocated to the separate performance obligations on a relative standalone selling price basis. If the standalone selling price is not directly observable, we estimate the standalone selling price based on either the adjusted market

assessment or cost plus a margin approach.

Certain of our contracts may provide for variable consideration. We estimate these amounts based on either the expected amount or most likely amount to be provided to the customer to determine the transaction price for the contract. The estimation method is consistent for contracts with similar terms and is applied consistently throughout each contract. The estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of the anticipated performance and all information that is reasonably available.

AIR MILES Reward Program. The AIR MILES Reward Program collects fees from its sponsors based on the number of AIR MILES reward miles issued and, in limited circumstances, the number of AIR MILES reward miles redeemed. Because management has determined that the earnings process is not complete at the time an AIR MILES reward mile is issued, the recognition of redemption and service revenue is deferred. Under certain of our contracts, a portion of the consideration is paid to us upon the issuance of AIR MILES reward miles and a portion is paid at the time of redemption and therefore, we do not have a redemption obligation related to these contracts.

Total consideration from the issuance of AIR MILES reward miles is allocated to three performance obligations: redemption, service, and brand, based on a relative standalone selling price basis.

The estimated standalone selling price for the redemption and the service performance obligations are based on cost plus a reasonable margin. The estimated standalone selling price of the brand performance obligation is determined using a relief from royalty approach. Accordingly, management determines the estimated standalone selling price by

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considering multiple inputs and methods, including discounted cash flows and available market data in consideration of applicable margins and royalty rates to utilize. The number of AIR MILES reward miles issued and redeemed are factored into the estimates, as management estimates the standalone selling prices and volumes over the term of the respective agreements in order to determine the allocation of consideration to each performance obligation delivered. The redemption performance obligation incorporates the expected number of AIR MILES reward miles to be redeemed, and therefore, the amount of redemption revenue recognized is subject to management's estimate of breakage, or those AIR MILES reward miles estimated to be unredeemed by the collector base. Additionally, the estimated life of an AIR MILES reward mile impacts the timing of revenue recognition.

Breakage and the life of an AIR MILES reward mile are based on management's estimate after viewing and analyzing various historical trends including vintage analysis, current run rates and other pertinent factors, such as the impact of macroeconomic factors and changes in the program structure.

Throughout 2017 and 2018, our estimated breakage rate remained 20%. Our cumulative redemption rate, which represents program to date redemptions divided by program to date issuance, is 69% as of December 31, 2018. We expect the ultimate redemption rate will approximate 80% based on our historical redemption patterns, statistical regression models, and consideration of enacted program changes, as applicable.

During 2017, we changed our estimated life of a mile from 42 months to 38 months, which had an impact to revenue of approximately \$20 million. Throughout 2018, our estimated life of an AIR MILES reward mile remained 38 months. We estimate that a change to the estimated life of an AIR MILES reward mile of one month would impact revenue by approximately \$4 million.

Any future changes in collector behavior could result in further changes in our estimates of breakage or life of an AIR MILES reward mile.

As of December 31, 2018, we had \$875.3 million in deferred revenue related to the AIR MILES Reward Program that will be recognized in the future. Further information is provided in Note 3, "Revenue," of the Notes to Consolidated Financial Statements.

Goodwill.

We test goodwill for impairment annually, as of July 31, or when events and circumstances change that would indicate the carrying amount may not be recoverable. In evaluating goodwill for impairment, we must estimate the fair value of the reporting units to which the goodwill relates. As of December 31, 2018, we had goodwill of

approximately \$3.8 billion. The following table presents the December 31, 2018 goodwill by reporting unit as well as the percentage by which fair value of the reporting units exceeded carrying value as of the 2018 annual impairment test:

Reporting Unit	Goodwill (In millions, except percentages)	Approximate Excess Fair Value %
Card Services	\$ 261.7	390 - 460%
LoyaltyOne excluding BrandLoyalty	183.7	410 - 440%
BrandLoyalty	509.5	30 - 40%
Epsilon excluding Conversant	1,235.8	30%
Conversant	1,650.3	≤ 10%
Total	\$ 3,841.0	

We estimated the fair value of the reporting units using both an income- and market-based approach. Our income-based approach utilizes a discounted cash flow analysis based on management's estimates of forecasted cash flows, with those cash flows discounted to present value using rates commensurate with the risks associated with those cash flows. The valuation includes assumptions related to revenue growth and profit performance, capital expenditures, the discount rate and other assumptions that are judgmental in nature. Changes in these estimates and assumptions could materially affect the results of our tests for goodwill impairment. The market-based approach involves an analysis of market multiples of revenues and earnings to a group of comparable public companies and recent transactions, if any, involving comparable companies. While the guideline companies in the market-based valuation method have comparability to the reporting units, they may not fully reflect the market share, product portfolio and operations of the reporting units. In addition, we also consult independent valuation experts in applying these valuation techniques.

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We generally base our measurement of the fair value of a reporting unit on a blended analysis of the present value of future discounted cash flows and the market-based valuation approach.

As with all assumptions, there is an inherent level of uncertainty and actual results, to the extent they differ from those assumptions, could have a material impact on fair value. For example, a reduction in customer demand would impact our assumed growth rate resulting in a reduced fair value, or multiples for similar type reporting units could deteriorate due to changes in technology or a downturn in economic conditions. Potential events or circumstances could have a negative effect on the estimated fair value. The loss of a major customer or program could have a significant impact on the future cash flows of the reporting unit(s).

We do not currently believe there is a reasonable likelihood that there will be a material change in estimates or assumptions used to test goodwill and other intangible assets for impairment. However, if actual results are not consistent with our estimates or assumptions, we may be exposed to an impairment charge that could be material.

Income Taxes.

We account for uncertain tax positions in accordance with Accounting Standards Codification, or ASC, 740, "Income Taxes." The application of income tax law is inherently complex. Laws and regulations in this area are voluminous and are often ambiguous. As such, we are required to make many subjective assumptions and judgments regarding our income tax exposures. Interpretations of, and guidance surrounding, income tax laws and regulations change over time. Changes in our subjective assumptions and judgments can materially affect amounts recognized in the consolidated balance sheets and statements of income. See Note 18, "Income Taxes," of the Notes to Consolidated Financial Statements for additional detail on our uncertain tax positions and further information regarding ASC 740.

Recent Accounting Pronouncements

See "Recently Issued Accounting Standards" under Note 2, "Summary of Significant Accounting Policies," of the Notes to Consolidated Financial Statements for a discussion of certain accounting standards that we have recently adopted and certain accounting standards that we have not yet been required to adopt and may be applicable to our future financial condition, results of operations or cash flow.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

Market Risk

Market risk is the risk of loss from adverse changes in market prices and rates. Our primary market risks include interest rate risk, credit risk and foreign currency exchange rate risk.

Interest Rate Risk. Interest rate risk affects us directly in our borrowing activities. Our interest expense, net was \$670.6 million for 2018. To manage our risk from market interest rates, we actively monitor interest rates and other interest sensitive components to minimize the impact that changes in interest rates have on the fair value of assets, net income and cash flow. To achieve this objective, we manage our exposure to fluctuations in market interest rates through the use of fixed-rate debt instruments to the extent that reasonably favorable rates are obtainable with such arrangements. In addition, we may enter into derivative instruments such as interest rate swaps and interest rate caps to mitigate our interest rate risk on related financial instruments or to lock the interest rate on a portion of our variable debt. We do not enter into derivative or interest rate transactions for trading or other speculative purposes.

The approach we use to quantify interest rate risk is a sensitivity analysis, which we believe best reflects the risk inherent in our business. This approach calculates the impact on pre-tax income from an instantaneous and sustained increase or decrease in interest rates of 1%. In 2018, a 1% increase or decrease in interest rates would have resulted in a change to our interest expense of approximately \$101 million. Our use of this methodology to quantify the market risk of financial instruments should not be construed as an endorsement of its accuracy or the appropriateness of the related assumptions.

Credit Risk. We are exposed to credit risk relating to the credit card loans we make to our clients' customers. Our credit risk relates to the risk that consumers using the private label or co-brand credit cards that we issue will not repay

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their revolving credit card loan balances. To minimize our risk of credit card loan charge-offs, we have developed automated proprietary scoring technology and verification procedures to make risk-based origination decisions when approving new accountholders, establishing or adjusting their credit limits and applying our risk-based pricing. We also utilize a proprietary collection scoring algorithm to assess accounts for collections efforts if they become delinquent; after exhausting all in-house collection efforts, we may engage collection agencies and outside attorneys to continue those efforts.

Foreign Currency Exchange Rate Risk. We are exposed to fluctuations in the exchange rate between the U.S. and the Canadian dollar and between the U.S. dollar and the Euro. For the year ended December 31, 2018, an additional 10% decrease in the strength of the Canadian dollar versus the U.S. dollar and the Euro versus the U.S. dollar would have resulted in an additional decrease in pre-tax income of approximately \$13 million and \$3 million, respectively. Conversely, a corresponding increase in the strength of the Canadian dollar or the Euro versus the U.S. dollar would result in a comparable increase to pre-tax income in these periods.

Item 8. Financial Statements and Supplementary Data.

Our consolidated financial statements begin on page F-1 of this Form 10-K.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure.

None.

Item 9A. Controls and Procedures.

Conclusion Regarding the Effectiveness of Disclosure Controls and Procedures

As of December 31, 2018, we carried out an evaluation under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures pursuant to Rule 13a-15 of the Securities Exchange Act of 1934. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that as of December 31, 2018, our disclosure controls and procedures are effective. Disclosure controls and procedures are controls and procedures designed to ensure that information required to be disclosed in our reports filed or submitted under the Securities Exchange Act of 1934 is recorded, processed, summarized and reported within the time periods

specified in the SEC's rules and forms and include controls and procedures designed to ensure that information we are required to disclose in such reports is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal controls over financial reporting are designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles in the United States.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree or compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of internal control over financial reporting. In conducting this evaluation, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control—Integrated Framework (2013). Based on this evaluation, management, with the participation of the Chief Executive Officer and Chief Financial Officer, concluded that our internal control over financial reporting was effective as of December 31, 2018.

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The effectiveness of internal control over financial reporting as of December 31, 2018, has been audited by Deloitte & Touche LLP, the independent registered public accounting firm who also audited our consolidated financial statements. Deloitte & Touche's attestation report on the effectiveness of our internal control over financial reporting appears on page F-3.

There have been no changes in our internal control over financial reporting (as defined in Rule 13a-15(f) of the Exchange Act) during the quarter ended December 31, 2018 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information.

None.

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PART III

Item 10. Directors, Executive Officers and Corporate Governance.

Incorporated by reference to the Proxy Statement for the 2019 Annual Meeting of our stockholders, which will be filed with the SEC not later than 120 days after December 31, 2018, except for the information included in Part I, “Item 4A. Executive Officers of the Registrant” herein.

Item 11. Executive Compensation.

Incorporated by reference to the Proxy Statement for the 2019 Annual Meeting of our stockholders, which will be filed with the SEC not later than 120 days after December 31, 2018.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

Incorporated by reference to the Proxy Statement for the 2019 Annual Meeting of our stockholders, which will be filed with the SEC not later than 120 days after December 31, 2018.

Item 13. Certain Relationships and Related Transactions, and Director Independence.

Incorporated by reference to the Proxy Statement for the 2019 Annual Meeting of our stockholders, which will be filed with the SEC not later than 120 days after December 31, 2018.

Item 14. Principal Accounting Fees and Services.

Incorporated by reference to the Proxy Statement for the 2019 Annual Meeting of our stockholders, which will be filed with the SEC not later than 120 days after December 31, 2018.

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PART IV

Item 15. Exhibits, Financial Statement Schedules.

a) The following documents are filed as part of this report:

- (1) Financial Statements
- (2) Financial Statement Schedule
- (3) The following exhibits are filed as part of this Annual Report on Form 10-K or, where indicated, were previously filed and are hereby incorporated by reference.

Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
3.1	(a)	<u>Third Amended and Restated Certificate of Incorporation of the Registrant.</u>	8-K	3.2	6/10/16
3.2	(a)	<u>Fifth Amended and Restated Bylaws of the Registrant.</u>	8-K	3.1	2/1/16
4	(a)	<u>Specimen Certificate for shares of Common Stock of the Registrant.</u>	10-Q	4	8/8/03
+10.1	(a)	<u>Alliance Data Systems Corporation Executive Deferred Compensation Plan, amended and restated effective January 1, 2018.</u>	8-K	10.1	11/24/17
+10.2	(a)	<u>Alliance Data Systems Corporation 2005 Long-Term Incentive Plan.</u>	DEF 14A	A	4/29/05
+10.3	(a)	<u>Amendment Number One to the Alliance Data Systems Corporation 2005 Long Term Incentive Plan, dated as of September 24, 2009.</u>	10-Q	10.8	11/9/09
+10.4	(a)	<u>Alliance Data Systems Corporation 2010 Omnibus Incentive Plan.</u>	DEF 14A	A	4/20/10
+10.5	(a)	<u>Alliance Data Systems Corporation 2015 Omnibus Incentive Plan.</u>	DEF 14A	B	4/20/15
+10.6	(a)	<u>Form of Time-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan.</u>	8-K	10.1	2/20/18

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+10.7	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2017 grant EBT).</u>	8-K	10.2	2/17/17
+10.8	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2017 grant rTSR).</u>	8-K	10.3	2/17/17
+10.9	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2017 grant EPS).</u>	8-K	10.4	2/17/17
+10.10	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2018 grant EBT).</u>	8-K	10.2	2/20/18
+10.11	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2018 grant rTSR).</u>	8-K	10.3	2/20/18

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Exhibit No.	Filer	Description	Incorporated by Reference Filing		
			Form	Exhibit	Date
+10.12	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2019 grant EBT).</u>	8-K	10.1	2/20/19
+10.13	(a)	<u>Form of Performance-Based Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan (2019 grant rTSR).</u>	8-K	10.2	2/20/19
+10.14	(a)	<u>Form of Non-Employee Director Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2005 Long Term Incentive Plan.</u>	10-Q	10.10	8/8/08
+10.15	(a)	<u>Form of Non-employee Director Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2010 Omnibus Incentive Plan.</u>	10-K	10.52	2/28/13
+10.16	(a)	<u>Form of Non-employee Director Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2015 Omnibus Incentive Plan.</u>	10-Q	10.6	8/7/17
+10.17	(a)	<u>Alliance Data Systems Corporation Non-Employee Director Deferred Compensation Plan.</u>	8-K	10.1	6/9/06
+10.18	(a)	<u>Form of Alliance Data Systems Associate Confidentiality Agreement.</u>	10-K	10.18	2/27/17
+10.19	(a)	<u>Form of Alliance Data Systems Corporation Indemnification Agreement for Officers and Directors.</u>	8-K	10.1	6/5/15
+10.20	(a)	<u>Alliance Data Systems Corporation 2015 Employee Stock Purchase Plan, effective July 1, 2015.</u>	DEF 14A	C	4/20/15
+10.21	(a)	<u>LoyaltyOne, Inc. Registered Retirement Savings Plan, as amended.</u>	10-Q	10.1	5/7/10
+10.22	(a)	<u>LoyaltyOne, Inc. Deferred Profit Sharing Plan, as amended.</u>	10-Q	10.2	5/7/10
+10.23	(a)	<u>LoyaltyOne, Inc. Canadian Supplemental Executive Retirement Plan, effective as of January 1, 2009.</u>	10-Q	10.3	5/7/10
+10.24	(a)	<u>Change in Control Severance Protection Agreement, dated as of December 13, 2016, between Edward Heffernan and ADS Alliance Data Systems, Inc.</u>	8-K	10.1	12/16/16
10.25	(a)	<u>Amended and Restated License to Use the Air Miles Trade Marks in Canada, dated as of July 24, 1998, by and between Air Miles International Holdings N.V. and Loyalty Management Group Canada</u>	S-1	10.43	1/13/00

Inc. (assigned by Air Miles International Holdings N.V. to Air Miles International Trading B.V. by a novation agreement dated as of July 18, 2001 and further assigned to AM Royalties Limited Partnership, a wholly owned subsidiary of Diversified Royalty Corp., in connection with an asset purchase agreement dated August 25, 2017).

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Exhibit No.	Filer	Description	Incorporated by Reference Filing		
			Form	Exhibit	Date
10.26	(a)	<u>Amended and Restated License to Use and Exploit the Air Miles Scheme in Canada, dated July 24, 1998, by and between Air Miles International Trading B.V. and Loyalty Management Group Canada Inc. as assigned by Air Miles International Trading B.V. to AM Royalties Limited Partnership, a wholly owned subsidiary of Diversified Royalty Corp., in connection with an asset purchase agreement dated August 25, 2017.</u>	S-1	10.44	1/13/00
10.27	(b)	<u>Second Amended and Restated Pooling and Servicing Agreement, dated as of January 17, 1996 as amended and restated as of September 17, 1999 and August 1, 2001, by and among WFN Credit Company, LLC, World Financial Network National Bank, and BNY Midwest Trust Company.</u>	8-K	4.6	8/31/01
	(c)				
10.28	(b)	<u>Second Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of May 19, 2004, among World Financial Network National Bank, WFN Credit Company, LLC and BNY Midwest Trust Company.</u>	8-K	4.1	8/4/04
	(c)				
	(d)				
10.29	(b)	<u>Third Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of March 30, 2005, among World Financial Network National Bank, WFN Credit Company, LLC and BNY Midwest Trust Company.</u>	8-K	4.1	4/5/05
	(c)				
	(d)				
10.30	(b)	<u>Fourth Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of June 13, 2007, among World Financial Network National Bank, WFN Credit Company, LLC and BNY Midwest Trust Company.</u>	8-K	4.1	6/15/07
	(d)				
10.31	(b)	<u>Fifth Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of October 26, 2007, among World Financial Network National Bank, WFN Credit Company, LLC and BNY Midwest Trust Company.</u>	8-K	4.1	10/31/07
	(c)				
	(d)				
10.32	(b)	<u>Sixth Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of May 27, 2008, among World Financial Network National Bank, WFN Credit Company, LLC, and The Bank of New York Trust Company, N.A.</u>	8-K	4.1	5/29/08
	(d)				
10.33	(b)	<u>Seventh Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of June 28, 2010, among World Financial Network National Bank, WFN Credit Company, LLC, and</u>	8-K	4.2	6/30/10
	(d)				

The Bank of New York Mellon Trust Company, N.A.

10.34	(b)	<u>Supplemental Agreement to Second Amended and Restated Pooling and Servicing Agreement, dated as of August 9, 2010, among World</u>	8-K	4.1	8/12/10
	(d)	<u>Financial Network National Bank, WFN Credit Company, LLC, and The Bank of New York Mellon Trust Company, N.A.</u>			
10.35	(b)	<u>Eighth Amendment to the Second Amended and Restated Pooling and Servicing Agreement, dated as of November 9, 2011, among World</u>	8-K	4.1	11/14/11
	(c)	<u>Financial Network Bank, WFN Credit Company, LLC, and The Bank of New York Mellon Trust Company, N.A.</u>			
	(d)				

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Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
10.36	(b)	<u>Ninth Amendment to Second Amended and Restated Pooling and Servicing Agreement, dated as of December 1, 2016, among</u>	8-K	4.1	12/2/16
	(c)	<u>Comenity Bank, WFN Credit Company, LLC, and MUFG Union Bank, N.A.</u>			
	(d)				
10.37	(b)	<u>Tenth Amendment to Second Amended and Restated Pooling and Servicing Agreement, dated as of August 16, 2018, among Comenity</u>	8-K	4.1	8/20/18
	(c)	<u>Bank, WFN Credit Company, LLC, and MUFG Union Bank, N.A.</u>			
	(d)				
10.38	(b)	<u>Collateral Series Supplement to Second Amended and Restated Pooling and Servicing Agreement, dated as of August 21, 2001,</u>	8-K	4.7	8/31/01
	(c)	<u>among WFN Credit Company, LLC, World Financial Network National Bank and BNY Midwest Trust Company.</u>			
	(d)				
10.39	(b)	<u>First Amendment to Collateral Series Supplement, dated as of</u>	8-K	4.3	11/20/02
	(c)	<u>November 7, 2002, among WFN Credit Company, LLC, World Financial Network National Bank and BNY Midwest Trust Company.</u>			
	(d)				
10.40	(b)	<u>Second Amendment to Collateral Series Supplement, dated as of July</u>	8-K	4.1	7/8/16
	(c)	<u>6, 2016, among WFN Credit Company, LLC, Comenity Bank and MUFG Union Bank, N.A.</u>			
	(d)				
10.41	(b)	<u>Transfer and Servicing Agreement, dated as of August 1, 2001,</u>	8-K	4.3	8/31/01
	(c)	<u>between WFN Credit Company, LLC, World Financial Network National Bank, and World Financial Network Credit Card Master Note Trust.</u>			
	(d)				
10.42	(b)	<u>First Amendment to the Transfer and Servicing Agreement, dated as</u>	8-K	4.2	11/20/02
	(c)	<u>of November 7, 2002, among WFN Credit Company, LLC, World Financial Network National Bank and World Financial Network Credit Card Master Note Trust.</u>			
	(d)				
10.43	(b)	<u>Third Amendment to the Transfer and Servicing Agreement, dated as</u>	8-K	4.2	8/4/04
	(c)	<u>of May 19, 2004, among WFN Credit Company, LLC, World Financial Network National Bank and World Financial Network Credit Card Master Note Trust.</u>			
	(d)				
10.44	(b)	<u>Fourth Amendment to the Transfer and Servicing Agreement, dated</u>	8-K	4.2	4/5/05
	(c)	<u>as of March 30, 2005, among WFN Credit Company, LLC, World</u>			

- (c) Financial Network National Bank and World Financial Network Credit Card Master Note Trust.
- (d)
- 10.45 (b) Fifth Amendment to the Transfer and Servicing Agreement, dated as of June 13, 2007, among WFN Credit Company, LLC, World Financial Network National Bank and World Financial Network Credit Card Master Note Trust. 8-K 4.2 6/15/07
- (d) Financial Network National Bank and World Financial Network Credit Card Master Note Trust.
- 10.46 (b) Sixth Amendment to the Transfer and Servicing Agreement, dated as of October 26, 2007, among WFN Credit Company, LLC, World Financial Network National Bank and World Financial Network Credit Card Master Note Trust. 8-K 4.2 10/31/07
- (c) Financial Network National Bank and World Financial Network Credit Card Master Note Trust.
- (d)
- 10.47 (b) Seventh Amendment to Transfer and Servicing Agreement, dated as of June 28, 2010, among World Financial Network National Bank, WFN Credit Company, LLC, and World Financial Network Credit Card Master Note Trust. 8-K 4.4 6/30/10
- (d) World Financial Network National Bank, WFN Credit Company, LLC, and World Financial Network Credit Card Master Note Trust.

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Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
10.48	(b) (d)	<u>Supplemental Agreement to Transfer and Servicing Agreement, dated as of August 9, 2010, among World Financial Network National Bank, WFN Credit Company, LLC, and World Financial Network Credit Card Master Note Trust.</u>	8-K	4.3	8/12/10
10.49	(b) (c) (d)	<u>Eighth Amendment to Transfer and Servicing Agreement, dated as of June 15, 2011, among World Financial Network National Bank, WFN Credit Company, LLC, and World Financial Network Credit Card Master Note Trust.</u>	8-K	4.1	6/15/11
10.50	(b) (c) (d)	<u>Ninth Amendment to Transfer and Servicing Agreement, dated as of November 9, 2011, among World Financial Network Bank, WFN Credit Company, LLC, and World Financial Network Credit Card Master Note Trust.</u>	8-K	4.3	11/14/11
10.51	(b) (c) (d)	<u>Tenth Amendment to the Transfer and Servicing Agreement, dated as of July 6, 2016, among Comenity Bank, WFN Credit Company, LLC and World Financial Network Credit Card Master Note Trust.</u>	8-K	4.4	7/8/16
10.52	(b) (c)	<u>Receivables Purchase Agreement, dated as of August 1, 2001, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	8-K	4.8	8/31/01
10.53	(b) (d)	<u>First Amendment to Receivables Purchase Agreement, dated as of June 28, 2010, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	8-K	4.3	6/30/10
10.54	(b) (d)	<u>Supplemental Agreement to Receivables Purchase Agreement, dated as of August 9, 2010, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	8-K	4.2	8/12/10
10.55	(b) (c) (d)	<u>Second Amendment to Receivables Purchase Agreement, dated as of November 9, 2011, between World Financial Network Bank and WFN Credit Company, LLC.</u>	8-K	4.2	11/14/11
10.56	(b) (c)	<u>Third Amendment to Receivables Purchase Agreement, dated as of July 6, 2016, between Comenity Bank and WFN Credit Company, LLC.</u>	8-K	4.2	7/8/16

	(d)				
10.57	(b)	<u>Master Indenture, dated as of August 1, 2001, between World Financial Network Credit Card Master Note Trust and BNY Midwest Trust Company.</u>	8-K	4.1	8/31/01
	(c)				
10.58	(b)	<u>Omnibus Amendment, dated as of March 31, 2003, among WFN Credit Company, LLC, World Financial Network Credit Card Master Trust, World Financial Network National Bank and BNY Midwest Trust Company.</u>	8-K	4	4/22/03
	(c)				
10.59	(b)	<u>Supplemental Indenture No. 1, dated as of August 13, 2003, between World Financial Network Credit Card Master Note Trust and BNY Midwest Trust Company.</u>	8-K	4.2	8/28/03
	(c)				
10.60	(b)	<u>Supplemental Indenture No. 2, dated as of June 13, 2007, between World Financial Network Credit Card Master Note Trust and BNY Midwest Trust Company.</u>	8-K	4.3	6/15/07
	(d)				

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Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
10.61	(b) (d)	<u>Supplemental Indenture No. 3, dated as of May 27, 2008, between World Financial Network Credit Card Master Note Trust and The Bank of New York Trust Company, N.A.</u>	8-K	4.2	5/29/08
10.62	(b) (d)	<u>Supplemental Indenture No. 4, dated as of June 28, 2010, between World Financial Network Credit Card Master Note Trust and The Bank of New York Mellon Trust Company, N.A.</u>	8-K	4.1	6/30/10
10.63	(b) (c) (d)	<u>Supplemental Indenture No. 5, dated as of February 20, 2013, between World Financial Network Credit Card Master Note Trust and Union Bank, N.A.</u>	8-K	4.2	2/22/13
10.64	(b) (c) (d)	<u>Supplemental Indenture No. 6 to Master Indenture, dated as of July 6, 2016, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.3	7/8/16
10.65	(b) (c) (d)	<u>Omnibus Amendment, dated as of July 10, 2017, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	7/11/17
10.66	(b) (c) (d)	<u>Agreement of Resignation, Appointment and Acceptance, dated as of June 26, 2012, by and among World Financial Network Bank, World Financial Network Credit Card Master Note Trust, The Bank of New York Mellon Trust Company, N.A., and Union Bank, N.A.</u>	8-K	4.1	6/26/12
10.67	(b) (c) (d)	<u>Agreement of Resignation, Appointment and Acceptance, dated as of June 26, 2012, by and among WFN Credit Company, LLC, The Bank of New York Mellon Trust Company, N.A., and Union Bank, N.A.</u>	8-K	4.2	6/26/12
10.68	(b) (c) (d)	<u>Series 2012-A Indenture Supplement, dated as of April 12, 2012, between World Financial Network Credit Card Master Note Trust and The Bank of New York Mellon Trust Company, N.A.</u>	8-K	4.1	4/16/12
10.69	(b)		8-K	4.1	10/10/12

	(c)	<u>Series 2012-D Indenture Supplement, dated as of October 5, 2012, between World Financial Network Credit Card Master Note Trust and Union Bank, N.A.</u>			
	(d)				
10.70	(b)	<u>Series 2015-B Indenture Supplement, dated as of August 21, 2015, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	8/25/15
	(c)				
	(d)				
10.71	(b)	<u>Series 2016-A Indenture Supplement, dated as of July 27, 2016, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	7/28/16
	(c)				
	(d)				
10.72	(b)	<u>Series 2016-C Indenture Supplement, dated as of November 3, 2016, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	11/4/16
	(c)				
	(d)				
10.73	(b)	<u>Series 2017-A Indenture Supplement, dated as of May 22, 2017, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	5/24/17
	(c)				
	(d)				

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Exhibit No.	Filer	Description	Incorporated by Reference Filing		
			Form	Exhibit	Date
10.74	(b) (c) (d)	<u>Series 2017-B Indenture Supplement, dated as of August 16, 2017, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	8/22/17
10.75	(b) (c) (d)	<u>Series 2017-C Indenture Supplement, dated as of November 15, 2017, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	11/17/17
10.76	(b) (c) (d)	<u>Series 2018-A Indenture Supplement, dated as of February 28, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	3/5/18
10.77	(b) (c) (d)	<u>Omnibus Amendment, dated as of May 3, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	5/4/18
10.78	(b) (c) (d)	<u>Series 2018-B Indenture Supplement, dated as of September 27, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	9/28/18
10.79	(b) (c) (d)	<u>First Amendment to Series 2018-B Indenture Supplement, dated as of November 7, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.2	11/8/18
10.80	(b) (c) (d)	<u>Series 2018-C Indenture Supplement, dated as of November 7, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>	8-K	4.1	11/8/18
10.81	(b)		8-K	4.1	2/20/19

	(c)	<u>Series 2019-A Indenture Supplement, dated as of February 20, 2019, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A.</u>			
10.82	(b)	<u>Amended and Restated Trust Agreement, dated as of August 1, 2001, between WFN Credit Company, LLC and Chase Manhattan Bank USA, National Association.</u>	8-K	4.4	8/31/01
	(c)				
10.83	(b)	<u>Administration Agreement, dated as of August 1, 2001, between World Financial Network Credit Card Master Note Trust and World Financial Network National Bank.</u>	8-K	4.5	8/31/01
	(c)				
10.84	(b)	<u>First Amendment to Administration Agreement, dated as of July 31, 2009, between World Financial Network Credit Card Master Note Trust and World Financial Network National Bank.</u>	8-K	4.1	7/31/09
	(d)				
10.85	(b)	<u>Second Amended and Restated Service Agreement, dated as of May 10, 2016, between Comenity Servicing LLC and Comenity Bank.</u>	8-K	99.1	5/16/16
	(c)				
	(d)				
10.86	(b)	<u>Amendment to Second Amended and Restated Service Agreement, dated April 10, 2017, between Comenity Servicing LLC and Comenity Bank.</u>	8-K	99.1	4/13/17
	(c)				
	(d)				

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Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
10.87	(b)	<u>Asset Representations Review Agreement, dated as of July 6, 2016, among Comenity Bank, WFN Credit Company, LLC, World Financial Network Credit Card Master Note Trust and FTI Consulting, Inc.</u>	8-K	10.1	7/8/16
	(c)				
	(d)				
10.88	(a)	<u>Receivables Purchase Agreement, dated as of September 28, 2001, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	10-Q	10.5	11/7/08
10.89	(a)	<u>First Amendment to Receivables Purchase Agreement, dated as of June 24, 2008, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	10-K	10.94	3/2/09
10.90	(a)	<u>Second Amendment to Receivables Purchase Agreement, dated as of March 30, 2010, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	10-K	10.127	2/28/11
10.91	(a)	<u>Supplemental Agreement to Receivables Purchase Agreement, dated as of August 9, 2010, between World Financial Network National Bank and WFN Credit Company, LLC.</u>	10-K	10.128	2/28/11
10.92	(a)	<u>Third Amendment to Receivables Purchase Agreement, dated as of September 30, 2011, between World Financial Network Bank and WFN Credit Company, LLC.</u>	10-Q	10.4	11/7/11
10.93	(a)	<u>World Financial Network Credit Card Master Trust III Amended and Restated Pooling and Servicing Agreement, dated as of September 28, 2001, among WFN Credit Company, LLC, World Financial Network National Bank, and The Chase Manhattan Bank, USA, National Association.</u>	10-Q	10.6	11/7/08
10.94	(a)	<u>First Amendment to the Amended and Restated Pooling and Servicing Agreement, dated as of April 7, 2004, among WFN Credit Company, LLC, World Financial Network National Bank, and The Chase Manhattan Bank, USA, National Association.</u>	10-Q	10.7	11/7/08
10.95	(a)	<u>Second Amendment to the Amended and Restated Pooling and Servicing Agreement, dated as of March 23, 2005, among WFN Credit Company, LLC, World Financial Network National Bank, and The Chase Manhattan Bank, USA, National Association.</u>	10-Q	10.8	11/7/08
10.96	(a)		10-Q	10.9	11/7/08

Third Amendment to the Amended and Restated Pooling and Servicing Agreement, dated as of October 26, 2007, among WFN Credit Company, LLC, World Financial Network National Bank, and Union Bank of California, N.A. (successor to JPMorgan Chase Bank, N.A.).

10.97	(a)	<u>Fourth Amendment to Amended and Restated Pooling and Servicing Agreement, dated as of March 30, 2010, among WFN Credit Company, LLC, World Financial Network National Bank, and Union Bank, N.A.</u>	10-Q	10.9	5/7/10
10.98	(a)	<u>Fifth Amendment to Amended and Restated Pooling and Servicing Agreement, dated as of September 30, 2011, among WFN Credit Company, LLC, World Financial Network Bank, and Union Bank, N.A.</u>	10-Q	10.3	11/7/11

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Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
10.99	(a)	<u>Sixth Amendment to Amended and Restated Pooling and Servicing Agreement, dated as of December 1, 2016, among WFN Credit Company, LLC, Comenity Bank, and Deutsche Bank Trust Company Americas.</u>	10-K	10.94	2/27/17
10.100	(a)	<u>Seventh Amendment to Amended and Restated Pooling and Servicing Agreement, dated as of September 1, 2017, among WFN Credit Company, LLC, Comenity Bank, and U.S. Bank National Association (successor to Deutsche Bank Trust Company Americas).</u>	10-K	10.96	2/27/18
10.101	(a)	<u>Supplemental Agreement to Amended and Restated Pooling and Servicing Agreement, dated as of August 9, 2010, among WFN Credit Company, LLC, World Financial Network National Bank, and Union Bank, N.A.</u>	10-K	10.134	2/28/11
10.102	(a)	<u>Receivables Purchase Agreement, dated as of September 29, 2008, between World Financial Capital Bank and World Financial Capital Credit Company, LLC.</u>	10-Q	10.3	11/7/08
10.103	(a)	<u>Amendment No. 1 to Receivables Purchase Agreement, dated as of June 4, 2010, between World Financial Capital Bank and World Financial Capital Credit Company, LLC.</u>	10-Q	10.11	8/9/10
10.104	(a)	<u>Transfer and Servicing Agreement, dated as of September 29, 2008, among World Financial Capital Credit Company, LLC, World Financial Capital Bank and World Financial Capital Master Note Trust.</u>	10-Q	10.4	11/7/08
10.105	(a)	<u>Amendment No. 1 to Transfer and Servicing Agreement, dated as of June 4, 2010, among World Financial Capital Credit Company, LLC, World Financial Capital Bank and World Financial Capital Master Note Trust.</u>	10-Q	10.12	8/9/10
10.106	(a)	<u>Master Indenture, dated as of September 29, 2008, between World Financial Capital Master Note Trust and U.S. Bank National Association, together with Supplemental Indenture Nos. 1 - 3.</u>	10-K	10.104	2/27/18
10.107	(a)	<u>Fourth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of February 28, 2014, between World Financial Network Credit Card Master Note Trust and Union Bank, N.A.</u>	10-K	10.129	2/27/15
10.108	(a)	<u>First Amendment to Fourth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of July 10, 2017, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A., formerly known as Union Bank, N.A.</u>	10-Q	10.8	8/7/17

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|---------|-----|--|------|--------|---------|
| 10.109 | (a) | <u>Second Amendment to Fourth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of December 1, 2017, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A., formerly known as Union Bank, N.A.</u> | 10-K | 10.109 | 2/27/18 |
| *10.110 | (a) | <u>Third Amendment to Fourth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of May 3, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A., formerly known as Union Bank, N.A.</u> | | | |

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Exhibit No.	Filer	Description	Incorporated by Reference		
			Form	Exhibit	Filing Date
*10.111	(a)	<u>Fourth Amendment to Fourth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of August 31, 2018, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A., formerly known as Union Bank, N.A.</u>			
*10.112	(a)	<u>Fifth Amendment to Fourth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of February 1, 2019, between World Financial Network Credit Card Master Note Trust and MUFG Union Bank, N.A., formerly known as Union Bank, N.A.</u>			
10.113	(a)	<u>Third Amended and Restated Series 2009-VFC1 Supplement, dated as of April 28, 2017, among WFN Credit Company, LLC, Comenity Bank and Deutsche Bank Trust Company Americas.</u>	10-Q	10.7	8/7/17
10.114	(a)	<u>First Amendment to Third Amended and Restated Series 2009-VFC1 Supplement, dated as of October 19, 2017, among WFN Credit Company, LLC, Comenity Bank and U.S. Bank National Association (successor to Deutsche Bank Trust Company Americas).</u>	10-Q	10.4	11/8/17
*10.115	(a)	<u>Second Amendment to Third Amended and Restated Series 2009-VFC1 Supplement, dated as of August 31, 2018, among WFN Credit Company, LLC, Comenity Bank and U.S. Bank National Association (successor to Deutsche Bank Trust Company Americas).</u>			
10.116	(a)	<u>Fifth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of November 1, 2016, between World Financial Capital Master Note Trust and Deutsche Bank Trust Company Americas.</u>	10-K	10.102	2/27/17
10.117	(a)	<u>First Amendment to Fifth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of November 1, 2017, between World Financial Capital Master Note Trust and U.S. Bank National Association (successor to Deutsche Bank Trust Company Americas).</u>	10-Q	10.5	11/8/17
10.118	(a)	<u>Second Amendment to Fifth Amended and Restated Series 2009-VFN Indenture Supplement, dated as of September 28, 2018, between World Financial Capital Master Note Trust and U.S. Bank National Association (successor to Deutsche Bank Trust Company Americas).</u>	10-Q	10.3	11/6/18
10.119	(a)	<u>Amendment and Restatement Agreement, dated as of June 9, 2016, including Amended and Restated Facilities Agreement, by and among Brand Loyalty Group B.V. and certain subsidiaries parties thereto, as borrowers and guarantors, Deutsche Bank AG, Amsterdam Branch (as Arranger), ING Bank N.V. (as Arranger, Agent and Security Agent), Coöperatieve Rabobank U.A. (as Arranger) and NIBC Bank N.V. (as Arranger).</u>	8-K	10.1	6/15/16

10.120	(a)	<u>Amended and Restated Credit Agreement, dated as of June 14, 2017, by and among Alliance Data Systems Corporation, certain subsidiaries parties thereto, as guarantors, Wells Fargo Bank, National Association, as Administrative Agent, and various other agents and lenders.</u>	8-K	10.1	6/19/17
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Exhibit No.	Filer	Description	Incorporated by Reference Filing		
			Form	Exhibit	Date
10.121	(a)	<u>First Amendment to Amended and Restated Credit Agreement and Incremental Amendment, dated as of June 16, 2017, by and among Alliance Data Systems Corporation, and certain subsidiaries parties thereto, as guarantors, Wells Fargo Bank, National Association, as Administrative Agent, and various other lenders.</u>	8-K	10.2	6/19/17
10.122	(a)	<u>Second Amendment to Amended and Restated Credit Agreement, dated as of July 5, 2018, by and among Alliance Data Systems Corporation, and certain subsidiaries parties thereto, as guarantors, Wells Fargo Bank, National Association, as Administrative Agent, and various other lenders.</u>	10-Q	10.2	8/7/18
10.123	(a)	<u>Indenture, dated July 29, 2014, by and among Alliance Data Systems Corporation, as issuer, and certain subsidiaries parties thereto, as guarantors, and Wells Fargo Bank, N.A., as trustee (including the form of the Company's 5.375% Senior Note due August 1, 2022).</u>	8-K	4.1	7/30/14
10.124	(a)	<u>Indenture, dated November 19, 2015, among Alliance Data Systems Corporation, certain of its subsidiaries as guarantor, U.S. Bank National Association, as trustee, Elavon Financial Services Limited, UK Branch, as paying agent, and Elavon Financial Services Limited, as registrar and transfer agent (including the form of the Company's 5.25% Senior Note due November 15, 2023).</u>	8-K	4.1	11/20/15
10.125	(a)	<u>Indenture, dated October 27, 2016, by and among Alliance Data Systems Corporation, as issuer, and certain subsidiaries parties thereto, as guarantors, and Regions Bank, as trustee (including the form of the Company's 5.875% Senior Note due November 1, 2021).</u>	8-K	4.1	10/28/16
10.126	(a)	<u>Indenture, dated March 14, 2017, among Alliance Data Systems Corporation, certain of its subsidiaries as guarantors and U.S. Bank National Association, as trustee, Elavon Financial Services DAC, UK Branch, as paying agent, and Elavon Financial Services DAC, as registrar and transfer agent (including the form of the Company's 4.500% Senior Note due March 15, 2022).</u>	8-K	4.1	3/14/17
*21	(a)	<u>Subsidiaries of the Registrant</u>			
*23.1	(a)	<u>Consent of Deloitte & Touche LLP</u>			
*31.1	(a)	<u>Certification of Chief Executive Officer of Alliance Data Systems Corporation pursuant to Rule 13a-14(a) promulgated under the Securities Exchange Act of 1934, as amended.</u>			
*31.2	(a)				

Certification of Chief Financial Officer of Alliance Data Systems Corporation pursuant to Rule 13a-14(a) promulgated under the Securities Exchange Act of 1934, as amended.

- *32.1 (a) Certification of Chief Executive Officer of Alliance Data Systems Corporation pursuant to Rule 13a-14(b) promulgated under the Securities Exchange Act of 1934, as amended, and Section 1350 of Chapter 63 of Title 18 of the United States Code.

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Exhibit No.	Filer	Description	Incorporated by Reference		Filing Date
			Form	Exhibit	
*32.2	(a)	<u>Certification of Chief Financial Officer of Alliance Data Systems Corporation pursuant to Rule 13a-14(b) promulgated under the Securities Exchange Act of 1934, as amended, and Section 1350 of Chapter 63 of Title 18 of the United States Code.</u>			
*101.INS	(a)	XBRL Instance Document			
*101.SCH	(a)	XBRL Taxonomy Extension Schema Document			
*101.CAL	(a)	XBRL Taxonomy Extension Calculation Linkbase Document			
*101.DEF	(a)	XBRL Taxonomy Extension Definition Linkbase Document			
*101.LAB	(a)	XBRL Taxonomy Extension Label Linkbase Document			
*101.PRE	(a)	XBRL Taxonomy Extension Presentation Linkbase Document			

* Filed herewith

+ Management contract, compensatory plan or arrangement

- (a) Alliance Data Systems Corporation
- (b) WFN Credit Company
- (c) World Financial Network Credit Card Master Trust
- (d) World Financial Network Credit Card Master Note Trust

Item 16. Form 10-K Summary.

None.

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ALLIANCE DATA SYSTEMS CORPORATION

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Alliance Data Systems Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Alliance Data Systems Corporation and subsidiaries (the “Company”) as of December 31, 2018 and 2017, the related consolidated statements of income, comprehensive income, stockholders’ equity, and cash flows for each of the three years in the period ended December 31, 2018, and the related notes and the schedule listed in the index at Item 15 (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company’s internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 26, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

Change in Accounting Principle

As discussed in Note 3 to the financial statements, the Company changed its method of accounting for revenue from contracts with customers in fiscal year 2018 due to adoption of the new revenue standard. The Company adopted the new revenue standard using a modified retrospective approach.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company’s financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Dallas, Texas

February 26, 2019

We have served as the Company's auditor since 1998.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Alliance Data Systems Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Alliance Data Systems Corporation and subsidiaries (the “Company”) as of December 31, 2018, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control — Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2018, of the Company and our report dated February 26, 2019, expressed an unqualified opinion on those financial statements and included an explanatory paragraph regarding the Company’s adoption of a new accounting standard.

Basis for Opinion

The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management’s Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Dallas, Texas

February 26, 2019

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ALLIANCE DATA SYSTEMS CORPORATION

CONSOLIDATED BALANCE SHEETS

	December 31,	
	2018	2017
	(In millions, except per share amounts)	
ASSETS		
Cash and cash equivalents	\$ 3,863.1	\$ 4,190.0
Accounts receivable, net, less allowance for doubtful accounts (\$5.3 and \$6.7 at December 31, 2018 and 2017, respectively)	923.9	822.3
Credit card and loan receivables:		
Credit card receivables – restricted for securitization investors	13,418.3	14,293.9
Other credit card and loan receivables	4,436.7	4,319.9
Total credit card and loan receivables	17,855.0	18,613.8
Allowance for loan loss	(1,038.3)	(1,119.3)
Credit card and loan receivables, net	16,816.7	17,494.5
Credit card and loan receivables held for sale	1,951.6	1,026.3
Inventories, net	251.9	234.1
Other current assets	345.9	348.9
Redemption settlement assets, restricted	558.6	589.5
Total current assets	24,711.7	24,705.6
Property and equipment, net	595.1	613.9
Deferred tax asset, net	47.0	28.1
Intangible assets, net	539.7	800.6
Goodwill	3,841.0	3,880.1
Other non-current assets	653.2	656.5
Total assets	\$ 30,387.7	\$ 30,684.8
LIABILITIES AND STOCKHOLDERS' EQUITY		
Accounts payable	\$ 558.3	\$ 651.2
Accrued expenses	421.0	442.8
Current portion of deposits	6,537.7	6,366.2
Current portion of non-recourse borrowings of consolidated securitization entities	2,717.6	1,339.9
Current portion of long-term and other debt	144.5	131.3
Other current liabilities	338.8	368.7
Deferred revenue	766.1	846.6
Total current liabilities	11,484.0	10,146.7
Deferred revenue	109.2	120.3
Deferred tax liability, net	256.6	211.2
Deposits	5,256.0	4,564.7
Non-recourse borrowings of consolidated securitization entities	4,934.1	7,467.4
Long-term and other debt	5,593.4	5,948.3
Other liabilities	422.3	370.9
Total liabilities	28,055.6	28,829.5

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Common stock, \$0.01 par value; authorized, 200.0 shares; issued, 113.0 shares and 112.8 shares at December 31, 2018 and 2017, respectively	1.1	1.1
Additional paid-in capital	3,172.4	3,099.8
Treasury stock, at cost, 59.6 shares and 57.4 shares at December 31, 2018 and 2017, respectively	(5,715.7)	(5,272.5)
Retained earnings	5,012.4	4,167.1
Accumulated other comprehensive loss	(138.1)	(140.2)
Total stockholders' equity	2,332.1	1,855.3
Total liabilities and stockholders' equity	\$ 30,387.7	\$ 30,684.8

See accompanying notes to consolidated financial statements.

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ALLIANCE DATA SYSTEMS CORPORATION

CONSOLIDATED STATEMENTS OF INCOME

	Years Ended December 31,		
	2018	2017	2016
	(In millions, except per share amounts)		
Revenues			
Services	\$ 2,420.0	\$ 2,612.2	\$ 2,504.8
Redemption, net	676.3	935.3	993.6
Finance charges, net	4,694.9	4,171.9	3,639.7
Total revenue	7,791.2	7,719.4	7,138.1
Operating expenses			
Cost of operations (exclusive of depreciation and amortization disclosed separately below)	4,220.9	4,269.9	4,276.8
Provision for loan loss	1,016.0	1,140.1	940.5
General and administrative	172.7	166.3	143.2
Depreciation and other amortization	196.1	183.1	167.1
Amortization of purchased intangibles	291.2	314.5	345.0
Total operating expenses	5,896.9	6,073.9	5,872.6
Operating income	1,894.3	1,645.5	1,265.5
Interest expense			
Securitization funding costs	220.2	156.6	125.6
Interest expense on deposits	165.7	125.1	84.7
Interest expense on long-term and other debt, net	284.7	282.7	218.2
Total interest expense, net	670.6	564.4	428.5
Income before income taxes	1,223.7	1,081.1	837.0
Provision for income taxes	260.6	292.4	319.4
Net income	\$ 963.1	\$ 788.7	\$ 517.6
Less: Net income attributable to non-controlling interest	—	—	1.8
Net income attributable to common stockholders	\$ 963.1	\$ 788.7	\$ 515.8
Net income attributable to common stockholders per share:			
Basic (Note 2)	\$ 17.56	\$ 14.17	\$ 7.37
Diluted (Note 2)	\$ 17.49	\$ 14.10	\$ 7.34
Weighted average shares:			
Basic (Note 2)	54.9	55.7	58.6
Diluted (Note 2)	55.1	55.9	58.9
Dividends declared per share:	\$ 2.28	\$ 2.08	\$ 0.52

See accompanying notes to consolidated financial statements.

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ALLIANCE DATA SYSTEMS CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Net income	\$ 963.1	\$ 788.7	\$ 517.6
Other comprehensive income (loss):			
Unrealized loss on securities available-for-sale	(3.1)	(7.3)	(1.7)
Tax benefit	1.1	0.2	0.2
Unrealized loss on securities available-for-sale, net of tax	(2.0)	(7.1)	(1.5)
Unrealized loss on cash flow hedges	(0.1)	(0.7)	(1.3)
Tax benefit	—	0.2	0.4
Unrealized loss on cash flow hedges, net of tax	(0.1)	(0.5)	(0.9)
Unrealized gain (loss) on net investment hedges	39.1	(72.3)	10.3
Tax benefit (expense)	(9.5)	26.2	(2.4)
Unrealized gain (loss) on net investment hedges, net of tax	29.6	(46.1)	7.9
Foreign currency translation adjustments	(25.4)	64.2	(18.9)
Other comprehensive income (loss), net of tax	2.1	10.5	(13.4)
Total comprehensive income, net of tax	\$ 965.2	\$ 799.2	\$ 504.2
Less: Comprehensive income attributable to non-controlling interest	—	—	1.2
Comprehensive income attributable to common stockholders	\$ 965.2	\$ 799.2	\$ 503.0

See accompanying notes to consolidated financial statements.

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ALLIANCE DATA SYSTEMS CORPORATION

CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

	Common Stock		Additional	Treasury	Retained	Accumulated	Total
	Shares	Amount	Paid-In	Stock	Earnings	Other	Stockholders'
	(In millions)		Capital			Comprehensive	Equity
						Loss	
January 1, 2016	112.1	\$ 1.1	\$ 2,981.1	\$ (3,927.4)	\$ 3,092.5	\$ (137.3)	\$ 2,010.0
Net income attributable to common stockholders	—	—	—	—	515.8	—	515.8
Accretion of non-controlling interest	—	—	—	—	(83.5)	—	(83.5)
Other comprehensive loss	—	—	—	—	—	(13.4)	(13.4)
Stock-based compensation	—	—	76.5	—	—	—	76.5
Repurchases of common stock	—	—	—	(805.7)	—	—	(805.7)
Dividends declared	—	—	—	—	(30.0)	—	(30.0)
Other	0.4	—	(11.5)	—	—	—	(11.5)
December 31, 2016	112.5	\$ 1.1	\$ 3,046.1	\$ (4,733.1)	\$ 3,494.8	\$ (150.7)	\$ 1,658.2
Net income attributable to common stockholders	—	—	—	—	788.7	—	788.7
Other comprehensive loss	—	—	—	—	—	10.5	10.5
Stock-based compensation	—	—	75.1	—	—	—	75.1
Repurchases of common stock	—	—	(14.3)	(539.4)	—	—	(553.7)
Dividends and dividend equivalent rights declared	—	—	—	—	(116.4)	—	(116.4)
Other	0.3	—	(7.1)	—	—	—	(7.1)
December 31, 2017	112.8	\$ 1.1	\$ 3,099.8	\$ (5,272.5)	\$ 4,167.1	\$ (140.2)	\$ 1,855.3
Net income attributable to common stockholders	—	—	—	—	963.1	—	963.1
	—	—	—	—	—	2.1	2.1

Other comprehensive income							
Stock-based compensation	—	—	80.8	—	—	—	80.8
Repurchases of common stock	—	—	—	(443.2)	—	—	(443.2)
Dividends and dividend equivalent rights declared	—	—	—	—	(125.9)	—	(125.9)
Cumulative effect adjustment to retained earnings in accordance with ASC 606	—	—	—	—	9.6	—	9.6
Cumulative effect adjustment to retained earnings in accordance with ASU 2016-01	—	—	—	—	(1.5)	—	(1.5)
Other	0.2	—	(8.2)	—	—	—	(8.2)
December 31, 2018	113.0	\$ 1.1	\$ 3,172.4	\$ (5,715.7)	\$ 5,012.4	\$ (138.1)	\$ 2,332.1

See accompanying notes to consolidated financial statements.

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ALLIANCE DATA SYSTEMS CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
CASH FLOWS FROM OPERATING ACTIVITIES:			
Net income	\$ 963.1	\$ 788.7	\$ 517.6
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	487.3	497.6	512.1
Deferred income taxes	16.3	(113.8)	(30.8)
Provision for loan loss	1,016.0	1,140.1	940.5
Non-cash stock compensation	80.8	75.1	76.5
Amortization of deferred financing costs	47.3	44.0	34.7
Change in breakage rate estimate	—	—	284.5
Change in other operating assets and liabilities, net of acquisitions:			
Change in deferred revenue	(17.5)	(27.0)	(222.7)
Change in accounts receivable	(93.0)	(10.3)	(95.6)
Change in accounts payable and accrued expenses	(93.7)	167.4	(9.6)
Change in other assets	(29.8)	(20.9)	(158.2)
Change in other liabilities	49.8	(24.9)	138.5
Originations of credit card and loan receivables held for sale	(4,799.0)	(8,709.4)	(7,366.3)
Sales of credit card and loan receivables held for sale	4,928.8	8,651.9	7,362.8
Other	198.5	140.6	143.2
Net cash provided by operating activities	2,754.9	2,599.1	2,127.2
CASH FLOWS FROM INVESTING ACTIVITIES:			
Change in redemption settlement assets	(42.2)	(231.3)	(74.9)
Change in credit card and loan receivables	(2,749.6)	(3,600.2)	(3,505.4)
Purchase of credit card portfolios	—	—	(1,008.1)
Proceeds from sale of credit card and loan portfolios	1,153.5	797.7	486.0
Payments for acquired businesses, net of cash	—	(945.6)	—
Capital expenditures	(199.8)	(225.4)	(207.0)
Purchases of other investments	(89.5)	(101.4)	(18.4)
Maturities/sales of other investments	47.4	42.5	39.2
Other	8.2	(4.4)	(2.9)
Net cash used in investing activities	(1,872.0)	(4,268.1)	(4,291.5)
CASH FLOWS FROM FINANCING ACTIVITIES:			
Borrowings under debt agreements	4,575.3	7,696.7	3,823.7
Repayments of borrowings	(4,893.0)	(7,341.4)	(3,222.8)
Non-recourse borrowings of consolidated securitization entities	3,714.6	5,172.5	4,404.4
Repayments/maturities of non-recourse borrowings of consolidated securitization entities	(4,871.0)	(3,320.3)	(3,930.0)

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Net increase in deposits	864.1	2,543.2	2,789.9
Acquisition of non-controlling interest	—	—	(360.7)
Payment of deferred financing costs	(25.8)	(65.7)	(33.9)
Proceeds from issuance of common stock	17.6	18.4	18.4
Dividends paid	(125.2)	(115.5)	(30.0)
Purchase of treasury shares	(443.2)	(553.7)	(798.8)
Other	(31.3)	(29.3)	(22.8)
Net cash (used in) provided by financing activities	(1,217.9)	4,004.9	2,637.4
Effect of exchange rate changes on cash, cash equivalents and restricted cash	(12.0)	10.3	14.0
Change in cash, cash equivalents and restricted cash	(347.0)	2,346.2	487.1
Cash, cash equivalents and restricted cash at beginning of year	4,314.7	1,968.5	1,481.4
Cash, cash equivalents and restricted cash at end of year	\$ 3,967.7	\$ 4,314.7	\$ 1,968.5
SUPPLEMENTAL CASH FLOW INFORMATION:			
Interest paid	\$ 719.8	\$ 551.4	\$ 405.1
Income taxes paid, net	\$ 234.0	\$ 344.1	\$ 466.6

See accompanying notes to consolidated financial statements.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. DESCRIPTION OF BUSINESS AND BASIS OF PRESENTATION

Description of the Business—Alliance Data Systems Corporation (“ADSC” or, including its consolidated subsidiaries and variable interest entities, the “Company”) is a leading global provider of data-driven marketing and loyalty solutions serving large, consumer-based businesses in a variety of industries. The Company offers a comprehensive portfolio of integrated outsourced marketing solutions, including customer loyalty programs, database marketing services, end-to-end marketing services, analytics and creative services, direct marketing services and private label and co-brand retail credit card programs. The Company focuses on facilitating and managing interactions between its clients and their customers through all consumer marketing channels, including in-store, online, email, social media, mobile, direct mail and telephone. The Company captures and analyzes data created during each customer interaction, leveraging the insight derived from that data to enable clients to identify and acquire new customers and enhance customer loyalty.

The Company operates in the following reportable segments: LoyaltyOne®, Epsilon®, and Card Services. LoyaltyOne provides coalition and short-term loyalty programs through the Canadian AIR MILES® Reward Program and BrandLoyalty Group B.V. (“BrandLoyalty”). Epsilon provides end-to-end, integrated direct marketing solutions that leverage transactional data to help clients more effectively acquire and build stronger relationships with their customers. Card Services encompasses credit card processing, billing and payment processing, customer care and collections services for private label retailers as well as private label and co-brand retail credit card and loan receivables financing, including securitization of certain credit card receivables that it underwrites from its private label and co-brand retail credit card programs.

Basis of Presentation—For purposes of comparability, certain prior period amounts have been reclassified to conform to the current year presentation in accordance with accounting principles generally accepted in the United States of America (“GAAP”). Specifically, certain statement of cash flows reclassifications were made for the adoption of Accounting Standards Update (“ASU”) 2016-18, “Restricted Cash.” The following table provides a reconciliation of cash and cash equivalents to the total of the amounts reported in the consolidated statements of cash flows:

	December 31, 2018	December 31, 2017	December 31, 2016
	(In millions)		
Cash and cash equivalents	\$ 3,863.1	\$ 4,190.0	\$ 1,859.2
Restricted cash included within other current assets (1)	60.7	50.4	51.2
	43.9	74.3	58.1

Restricted cash included within redemption settlement assets,
restricted (2)

Total cash, cash equivalents and restricted cash	\$ 3,967.7	\$ 4,314.7	\$ 1,968.5
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- (1) Includes cash restricted for interest repayments of non-recourse borrowings of consolidated securitized debt and other restricted cash within other current assets.
- (2) See Note 2, “Summary of Significant Accounting Policies,” for additional information regarding nature of restrictions on redemption settlement assets.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Principles of Consolidation—The accompanying consolidated financial statements include the accounts of ADSC and all subsidiaries in which the Company has a controlling financial interest. Controlling financial interest is determined by a majority ownership interest and the absence of substantive third party participating rights. All intercompany transactions have been eliminated.

In accordance with Accounting Standards Codification (“ASC”) 860, “Transfers and Servicing,” and ASC 810, “Consolidation,” the Company is the primary beneficiary of World Financial Network Credit Card Master Trust (“Master Trust”), World Financial Network Credit Card Master Note Trust (“Master Trust I”) and World Financial Network Credit Card Master Trust III (“Master Trust III”) (collectively, the “WFN Trusts”), and World Financial Capital Master Note Trust (the “WFC Trust”). The Company is deemed to be the primary beneficiary for the WFN Trusts and the WFC Trust, as it is the servicer for each of the trusts and is a holder of the residual interest. The Company, through

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

its involvement in the activities of these trusts, has the power to direct the activities that most significantly impact the economic performance of such trusts, and the obligation (or right) to absorb losses (or receive benefits) of the trusts that could potentially be significant. As such, the Company consolidates these trusts in its consolidated financial statements.

For investments in any entities in which the Company owns 50% or less of the outstanding voting stock but in which the Company has significant influence over operating and financial decisions, the Company applies the equity method of accounting. In cases where the Company's equity investment is less than 20% and significant influence does not exist, such investments are carried at cost.

Cash and Cash Equivalents—The Company considers all highly liquid investments with an original maturity of three months or less to be cash equivalents.

Accounts Receivable, net—Accounts receivable, net consist primarily of amounts receivable from customers, which are recorded at the invoiced amount and do not bear interest. The Company maintains an allowance for doubtful accounts for estimated losses inherent in its accounts receivable. The Company analyzes the appropriateness of its allowance for doubtful accounts based on its assessment of various factors, including historical experience, the age of the accounts receivable balance, customer creditworthiness, current economic trends, and changes in its customer payment terms and collection trends. Account balances are charged-off against the allowance after all reasonable means of collection have been exhausted and the potential for recovery is considered remote.

Credit Card and Loan Receivables—The Company sells a majority of the credit card receivables originated by Comenity Bank to WFN Credit Company, LLC, which in turn sells them to the WFN Trusts as part of a securitization program. The Company also sells certain of its credit card receivables originated by Comenity Capital Bank to World Financial Capital Credit Company, LLC which in turn sells them to the WFC Trust. The credit card receivables sold to each of the trusts are restricted for securitization investors. Credit card and loan receivables consist of credit card and loan receivables held for investment. All new originations of credit card and loan receivables are deemed to be held for investment at origination because management has the intent and ability to hold them for the foreseeable future. Management makes judgments about the Company's ability to fund these credit card and loan receivables through means other than securitization, such as money market deposits, certificates of deposit and other borrowings. In determining what constitutes the foreseeable future, management considers the short average life and homogenous nature of the Company's credit card and loan receivables. In assessing whether these credit card and loan receivables continue to be held for investment, management also considers capital levels and scheduled maturities of funding instruments used. Management believes that the assertion regarding its intent and ability to hold credit card and loan receivables for the foreseeable future can be made with a high degree of certainty given the maturity distribution of

the Company's money market deposits, certificates of deposit and other funding instruments; the historic ability to replace maturing certificates of deposits and other borrowings with new deposits or borrowings; and historic credit card payment activity. Due to the homogenous nature of the Company's credit card and loan receivables, amounts are classified as held for investment on an individual client portfolio basis.

Credit Card and Loan Receivables Held for Sale—Credit card and loan receivables held for sale are determined on an individual client portfolio basis. The Company carries these assets at the lower of aggregate cost or fair value. The fair value of the credit card and loan receivables held for sale is determined on an aggregate homogeneous portfolio basis. The Company continues to recognize finance fees on these credit card and loan receivables on the accrual basis. Cash flows associated with credit card portfolios that are purchased with the intent to sell are included in cash flows from operating activities. Cash flows associated with credit card and loan receivables originated or purchased for investment are classified as investing cash flows, regardless of a subsequent change in intent.

Transfers of Financial Assets—The Company accounts for transfers of financial assets under ASC 860, "Transfers and Servicing," as either sales or financings. Transfers of financial assets that result in sales accounting are those in which (1) the transfer legally isolates the transferred assets from the transferor, (2) the transferee has the right to pledge or exchange the transferred assets and no condition both constrains the transferee's right to pledge or exchange the assets and provides more than a trivial benefit to the transferor and (3) the transferor does not maintain effective control over the transferred assets. If the transfer of financial assets does not meet these criteria, the transfer is accounted for as a

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

financing. Transfers of financial assets that are treated as sales are removed from the Company's accounts with any realized gain or loss reflected in earnings during the period of sale.

Allowance for Loan Loss—The Company maintains an allowance for loan loss at a level that is appropriate to absorb probable losses inherent in credit card and loan receivables. The estimate of the allowance for loan loss covers uncollectible principal as well as unpaid interest and fees. The allowance for loan loss is evaluated monthly for appropriateness.

In estimating the allowance for principal loan losses, management utilizes a migration analysis of delinquent and current credit card and loan receivables. Migration analysis is a technique used to estimate the likelihood that a credit card or loan receivable will progress through the various stages of delinquency and to charge-off. The allowance is maintained through an adjustment to the provision for loan loss. Charge-offs of principal amounts, net of recoveries are deducted from the allowance.

In estimating the allowance for uncollectible unpaid interest and fees, the Company utilizes historical charge-off trends, analyzing actual charge-offs for the prior three months. The allowance is maintained through an adjustment to finance charges, net.

In evaluating the allowance for loan loss for both principal and unpaid interest and fees, management also considers factors that may impact loan loss experience, including seasoning and growth, account collection strategies, economic conditions, bankruptcy filings, policy changes, payment rates and forecasting uncertainties.

Redemption Settlement Assets, Restricted—The cash and investments related to the redemption fund for the AIR MILES Reward Program are subject to a security interest which is held in trust for the benefit of funding redemptions by collectors. These assets are restricted to funding rewards for the collectors by certain of the Company's sponsor contracts. The investments are stated at fair value, with the unrealized gains and losses, net of tax, reported as a component of accumulated other comprehensive loss, as the investments are classified as available-for-sale. As a result of the adoption of ASU 2016-01, "Recognition and Measurement of Financial Assets and Financial Liabilities," on January 1, 2018, the changes in the fair value of equity securities are recognized through net income.

Property and Equipment—Furniture, equipment, computer software and development, buildings and leasehold improvements are carried at cost, less accumulated depreciation and amortization. Land is carried at cost and is not depreciated. Depreciation and amortization for furniture, equipment and buildings, including capital leases, are computed on a straight-line basis, using estimated lives ranging from two to twenty-one years. Software development is capitalized in accordance with ASC 350-40, “Intangibles – Goodwill and Other – Internal–Use Software,” and is amortized on a straight-line basis over the expected benefit period, which ranges from two to seven years. Leasehold improvements are amortized over the remaining lives of the respective leases or the remaining useful lives of the improvements, whichever is shorter. Long-lived assets are tested for impairment when events or conditions indicate that the carrying value of an asset may not be fully recoverable from future cash flows.

Goodwill and Other Intangible Assets—Goodwill and indefinite lived intangible assets are not amortized, but are reviewed at least annually for impairment or more frequently if circumstances indicate that an impairment is probable, using the market comparable and discounted cash flow methods.

Separable intangible assets that have finite useful lives are amortized over those useful lives. The Company also defers costs related to the acquisition or licensing of data for the Company’s proprietary databases that are used in providing data products and services to customers. These costs are amortized over the useful life of the data, which ranges from one to five years.

Derivative Instruments—The Company uses derivatives to manage its exposure to various financial risks. The Company does not enter into derivatives for trading or other speculative purposes. Certain derivatives used to manage the Company’s exposure to foreign currency exchange rate movements are not designated as hedges and do not qualify for hedge accounting.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Derivatives Designated as Hedging Instruments—The Company assesses both at the hedge’s inception and on an ongoing basis, whether the derivatives that are used in the hedging transaction, including net investment hedges, have been highly effective in offsetting changes in the cash flows or remeasurement of the hedged items and whether the derivatives may be expected to remain highly effective in future periods.

The Company discontinues hedge accounting prospectively when (1) it determines that the derivative is no longer highly effective in offsetting changes in cash flow of the hedged item; (2) the derivative expires or is sold, terminated, or exercised; (3) it is no longer probable that the forecasted transaction will occur; or (4) it determines that designating the derivative as a hedging instrument is no longer appropriate.

Changes in the fair value of derivative instruments designated as hedging instruments, excluding any ineffective portion, are recorded in other comprehensive income (loss) until the hedged transactions affect net income. The ineffective portion of this hedging instrument is recognized through net income when the ineffectiveness occurs.

Derivatives not Designated as Hedging Instruments—Certain foreign currency exchange forward contracts are not designated as hedges as they do not meet the specific hedge accounting requirements of ASC 815, “Derivatives and Hedging.” Changes in the fair value of the derivative instruments not designated as hedging instruments are recorded in the consolidated statements of income as they occur.

Net Investment Hedges—The Company uses Euro-denominated debt to hedge a portion of its net investment in foreign subsidiaries against adverse movements in exchange rates. The effective portion of the foreign currency gains and losses related to the Euro-denominated debt is reported in accumulated other comprehensive loss in the Company’s consolidated balance sheets. The gains or losses will be subsequently reclassified into net income when the hedged net investment is either sold or substantially liquidated.

Other Investments—Other investments consist of marketable securities and U.S. Treasury bonds and are included in other current assets and other non-current assets in the Company’s consolidated balance sheets. The investments are classified as available-for-sale and are stated at fair value, with the unrealized gains and losses, net of tax, reported as a component of accumulated other comprehensive loss. As a result of the adoption of ASU 2016-01, “Recognition and Measurement of Financial Assets and Financial Liabilities,” on January 1, 2018, the changes in the fair value of equity securities are recognized through net income.

Revenue Recognition—Effective January 1, 2018, the Company adopted ASC 606, “Revenue from Contracts with Customers,” applying the modified retrospective method to those contracts that were not completed as of January 1, 2018. The Company recognizes revenues when control of the promised goods or services is transferred to the customer, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those goods or services. In that determination, under ASC 606, the Company follows a five-step model that includes: (1) determination of whether a contract, an agreement between two or more parties that creates legally enforceable rights and obligations, exists; (2) identification of the performance obligations in the contract; (3) determination of the transaction price; (4) allocation of the transaction price to the performance obligations in the contract; and (5) recognition of revenue when (or as) the performance obligation is satisfied.

Results for reporting periods beginning after January 1, 2018 are presented under ASC 606, while prior period amounts have not been adjusted and continue to be reported in accordance with the Company’s historic accounting under ASC 605. ASC 606 does not apply to financial instruments and other contractual rights or obligations.

See Note 3, “Revenue,” for more information about the Company’s revenue and the associated timing and basis of revenue recognition.

Earnings Per Share—Basic earnings per share is based only on the weighted average number of common shares outstanding, excluding any dilutive effects of options or other dilutive securities. Diluted earnings per share are based on the weighted average number of common and potentially dilutive common shares (dilutive stock options, unvested restricted stock and other dilutive securities outstanding during the year).

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The following table sets forth the computation of basic and diluted net income per share for the periods indicated:

	Years Ended December 31,		
	2018	2017	2016
	(In millions, except per share amounts)		
Numerator:			
Net income attributable to common stockholders	\$ 963.1	\$ 788.7	\$ 515.8
Less: Accretion of redeemable non-controlling interest	—	—	83.5
Net income attributable to common stockholders after accretion of redeemable non-controlling interest	\$ 963.1	\$ 788.7	\$ 432.3
Denominator:			
Weighted average shares, basic	54.9	55.7	58.6
Weighted average effect of dilutive securities:			
Net effect of dilutive stock options and unvested restricted stock	0.2	0.2	0.3
Denominator for diluted calculation	55.1	55.9	58.9
Net income attributable to common stockholders per share			
Basic	\$ 17.56	\$ 14.17	\$ 7.37
Diluted	\$ 17.49	\$ 14.10	\$ 7.34

For the year ended December 31, 2016, the Company adjusted the carrying amount of the redeemable non-controlling interest by \$83.5 million. Effective April 1, 2016, the Company acquired the remaining 20% interest in BrandLoyalty to bring its ownership percentage to 100%.

For the years ended December 31, 2018, 2017 and 2016, a de minimis amount of restricted stock units was excluded from each calculation of weighted average dilutive common shares as the effect would have been anti-dilutive.

Currency Translation—The assets and liabilities of the Company’s subsidiaries outside the U.S. are translated into U.S. dollars at the rates of exchange in effect at the balance sheet dates, primarily from Canadian dollars and Euros. Income and expense items are translated at the average exchange rates prevailing during the period. Gains and losses resulting from currency transactions are recognized currently in income and those resulting from translation of financial statements are included in accumulated other comprehensive loss. The Company recognized \$0.3 million and \$9.7 million in net foreign currency transaction losses for the years ended December 31, 2018 and 2017, respectively. Additionally, the Company recognized \$1.9 million in net foreign currency transaction gains for the year ended

December 31, 2016.

Leases —Rent expense on operating leases is recorded on a straight-line basis over the term of the lease agreement and includes executory costs.

Effective January 1, 2019, the Company adopted ASC 842, “Leases.” For additional information regarding the impact of the new leases standard, see “Recently Issued Accounting Standards.”

Marketing and Advertising Costs—The Company participates in various marketing and advertising programs, including collaborative arrangements with certain clients. The cost of marketing and advertising programs is expensed in the period incurred. The Company has recognized marketing and advertising expenses, including on behalf of its clients, of \$253.2 million, \$263.2 million and \$277.0 million for the years ended December 31, 2018, 2017 and 2016, respectively.

Stock Compensation Expense—The Company accounts for stock-based compensation in accordance with ASC 718, “Compensation – Stock Compensation.” Under the fair value recognition provisions, stock-based compensation expense is measured at the grant date based on the fair value of the award and is recognized ratably over the requisite service period.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Management Estimates—The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amount of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Recently Issued Accounting Standards

In February 2016, the Financial Accounting Standards Board (“FASB”) issued ASU 2016-02, “Leases,” ASC 842, that replaces existing lease guidance and requires lessees to record right-of-use assets and corresponding lease liabilities on the balance sheet. Companies will continue to classify leases as either finance or operating, with classification affecting the pattern of expense recognition in the statements of income. Companies may adopt ASC 842 using a modified retrospective approach or transition relief provided by ASU 2018-11, “Leases (Topic 842): Targeted Improvements,” that removes certain comparative period requirements and requires a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The Company adopted the standard on January 1, 2019 using the transition relief provided by ASU 2018-11.

During 2018, the Company completed its evaluation of ASC 842, including the impact on its policies, processes, systems and controls. As a result, the Company identified changes to and modified certain of its accounting policies and practices, including the implementation of new lease accounting software. Although there were no significant changes to the Company’s accounting systems or controls upon adoption of ASC 842, the Company modified certain of its existing controls and added new controls to incorporate the revisions made to its accounting policies and practices.

The Company elected the transition practical expedients permitted under ASC 842-10-65-1 under which it was not required to reassess (i) whether expired or existing contracts were or contained leases as defined by ASC 842, (ii) the classification of such leases, and (iii) whether previously capitalized initial direct costs qualified for capitalization under ASC 842. The Company also elected the practical expedient to use hindsight in determining the lease term. Additionally, the Company made the accounting policy election to account for lease and nonlease components as a single lease component for its identified asset classes.

The cumulative effect of the changes made to the consolidated January 1, 2019 balance sheet for the adoption of ASC 842 resulted in the following:

	Balance at December 31, 2018	Adjustments due to ASC 842 (In millions)	Balance at January 1, 2019
Consolidated Balance Sheet			
Right of use asset - operating	\$ —	\$ 451.0	\$ 451.0
Intangible assets, net	539.7	(2.1)	537.6
Other non-current assets	653.2	(0.8)	652.4
	1,192.9	448.1	1,641.0
Accrued expenses	421.0	(3.1)	417.9
Current operating lease liability	—	64.7	64.7
Other current liabilities	338.8	(5.6)	333.2
Long-term operating lease liability	—	468.5	468.5
Other liabilities	422.3	(76.4)	345.9
	1,182.1	448.1	1,630.2

Additionally, as part of the adoption of ASC 842, the Company's capital leases were recognized as finance leases at their existing carrying amounts effective January 1, 2019, and the accounting remained substantially unchanged. As of December 31, 2018, capital leases included within property and equipment, net in the Company's consolidated balance sheets totaled \$13.0 million, and capital leases included within long-term and other debt totaled \$12.6 million, including the current portion of \$5.6 million.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The Company's adoption of ASC 842 had no significant impact to our consolidated statements of income or consolidated statements of cash flows. Based on the evaluation of ASC 842, the Company does not expect it to have a material impact on its results of operations or cash flows in the periods after adoption.

ASC 842 also requires expanded qualitative and quantitative disclosure regarding the Company's leasing activities. These disclosures will be reflected beginning in the Company's Quarterly Report on Form 10-Q for the quarter ending March 31, 2019.

In June 2016, the FASB issued ASU 2016-13, "Measurement of Credit Losses on Financial Instruments." ASU 2016-13 requires entities to utilize a financial instrument impairment model to establish an allowance based on expected losses over the life of the exposure rather than a model based on an incurred loss approach. ASU 2016-13 also expands the disclosure requirements regarding an entity's assumptions, models, and methods for estimating the allowance. In addition, ASU 2016-13 modifies the impairment model for available-for-sale debt securities and provides for a simplified accounting model for purchased financial assets with credit deterioration since their origination. ASU 2016-13 is effective for interim and annual reporting periods beginning after December 15, 2019, with early adoption permitted beginning after December 15, 2018. The Company has formed a cross-functional implementation team and is in the process of determining key accounting interpretations, data requirements and necessary changes to its credit loss estimation methods, processes and systems as well as evaluating the impact that adoption of ASU 2016-13 will have on its consolidated financial statements.

In August 2017, the FASB issued ASU 2017-12, "Targeted Improvements to Accounting for Hedging Activities." ASU 2017-12 expands and refines the hedge accounting model for both financial and non-financial risk components, aligns the recognition and presentation of the effects of hedging instruments and hedged items in the financial statements, and makes certain targeted improvements to simplify the application of hedge accounting guidance related to the assessment of hedge effectiveness. ASU 2017-12 is effective for interim and annual reporting periods beginning after December 15, 2018, with early adoption permitted. The Company does not expect the adoption of ASU 2017-12 to have a material impact on its consolidated financial statements.

In February 2018, the FASB issued ASU 2018-02, "Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income." ASU 2018-02 allows for reclassification of stranded tax effects on items resulting from the change in the corporate tax rate as a result of H.R. 1, originally known as the Tax Cuts and Jobs Act of 2017, from accumulated other comprehensive income to retained earnings. Tax effects unrelated to H.R. 1 are permitted to be released from accumulated other comprehensive income using either the specific identification approach or the portfolio approach, based on the nature of the underlying item. ASU 2018-02 is effective for interim and annual reporting periods beginning after December 15, 2018, with early adoption permitted. The Company does not intend to

reclassify the stranded tax effects to retained earnings pursuant to ASU 2018-02 as these amounts do not have a material impact on its consolidated financial statements.

In August 2018, the FASB issued ASU 2018-13, “Changes to the Disclosure Requirements for Fair Value Measurement.” ASU 2018-13 modifies the disclosure requirements on fair value measurements from Accounting Standards Codification (“ASC”) 820, “Fair Value Measurement.” ASU 2018-13 is effective for interim and annual reporting periods beginning after December 15, 2019, with early adoption permitted. The Company is evaluating the impact that adoption of ASU 2018-13 will have on its consolidated financial statements.

In August 2018, the FASB issued ASU 2018-15, “Customer’s Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement that is a Service Contract.” ASU 2018-15 requires customers in a cloud computing arrangement that is a service contract to follow the internal-use software guidance in ASC 350-40, “Intangibles—Goodwill and Other—Internal-Use Software,” to determine which implementation costs may be capitalized. ASU 2018-15 is effective for interim and annual reporting periods beginning after December 15, 2019, with early adoption permitted. The amendments in ASU 2018-15 can be applied either retrospectively or prospectively to all implementation costs incurred after the date of adoption. The Company is evaluating the impact that adoption of ASU 2018-15 will have on its consolidated financial statements.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Recently Adopted Accounting Standards

In May 2014, the FASB issued ASU 2014-09, “Revenue from Contracts with Customers,” Accounting Standards Codification (“ASC”) 606, which requires an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods or services to customers. Companies may adopt ASC 606 using a full retrospective or modified retrospective method.

During 2017, the Company completed its evaluation of ASC 606, including the impact on its processes and controls, and differences in the timing and/or method of revenue recognition. As a result, the Company identified changes to and modified certain of its accounting policies and practices. Although there were no significant changes to the Company’s accounting systems or controls upon adoption of ASC 606, the Company modified certain of its existing controls to incorporate the revisions made to its accounting policies and practices.

The Company adopted the standard on January 1, 2018 using the modified retrospective method. The Company’s adoption of this standard did not have a material impact on its consolidated results of operations or cash flows. ASC 606 does not apply to financial instruments and other contractual rights or obligations (for example, interest income and late fees from credit card and loan receivables), and therefore, the Company’s finance charges, net were not affected by the adoption of the standard. Most revenue streams are recorded consistently under both ASC 605, “Revenue Recognition” and the new standard; however, the Company noted the following impacts:

- Upon the adoption of ASC 606, revenue associated with a database build was changed from recognizing revenue over the expected contract term upon client acceptance to over the build period in which the database is completed, because the Company’s performance does not create an asset with an alternative use and the Company has an enforceable right to payment for performance completed to date. The cumulative effect of the changes made to the consolidated January 1, 2018 balance sheet for the adoption of ASC 606 resulted in an increase in unbilled accounts receivable and accrued expenses, a reduction in deferred costs and deferred revenue and a net increase in retained earnings as follows:

	Balance at December 31, 2017	Adjustments due to ASC 606 (In millions)	Balance at January 1, 2018
Consolidated Balance Sheet			

Accounts receivable, net	\$ 822.3	\$ 22.4	\$ 844.7
Other current assets	348.9	(16.6)	332.3
Other non-current assets	656.5	(20.9)	635.6
	1,827.7	(15.1)	1,812.6
Accrued expenses	442.8	3.2	446.0
Other current liabilities	368.7	(14.3)	354.4
Other liabilities	370.9	(13.6)	357.3
	1,182.4	(24.7)	1,157.7
Retained earnings	4,167.1	9.6	4,176.7

- Further, ASC 606 impacted the presentation of revenue within the Company's coalition loyalty program. Upon the adoption of ASC 606, for the fulfillment of certain rewards where the AIR MILES® Reward Program does not control the goods or services before they are transferred to the collector, revenue is recorded on a net basis. This impact reduced both redemption revenue and cost of operations by \$283.4 million for the year ended December 31, 2018.
- ASC 606 also requires expanded disclosure regarding the nature, timing, and uncertainty of revenue transactions. See Note 3, "Revenue," for the Company's ASC 606 disclosures.

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In January 2016, the FASB issued ASU 2016-01, “Recognition and Measurement of Financial Assets and Financial Liabilities.” ASU 2016-01 requires that equity investments be measured at fair value with changes in fair value recognized in net income. For equity investments without readily determinable fair values, entities have the option to either measure these investments at fair value or at cost adjusted for changes in observable prices minus impairment. Additionally, ASU 2016-01 requires entities that elect the fair value option for financial liabilities to recognize changes in fair value related to instrument-specific credit risk in other comprehensive income. Finally, entities must assess valuation allowances for deferred tax assets related to available-for-sale debt securities in combination with their other deferred tax assets. The Company adopted this standard on January 1, 2018, resulting in a cumulative-effect adjustment of \$1.5 million, net of tax, that was reclassified from accumulated other comprehensive loss to retained earnings on the consolidated January 1, 2018 balance sheet.

In August 2016, the FASB issued ASU 2016-15, “Classification of Certain Cash Receipts and Cash Payments.” ASU 2016-15 makes eight targeted changes to how certain cash receipts and cash payments are presented and classified in the statement of cash flows. The Company’s adoption of this standard on January 1, 2018 did not have a material impact on its consolidated statements of cash flows.

In November 2016, the FASB issued ASU 2016-18, “Restricted Cash.” ASU 2016-18 requires entities to show the changes in the total of cash, cash equivalents, restricted cash and restricted cash equivalents in the statement of cash flows. The Company adopted this standard on January 1, 2018. The effect of the adoption of the standard was to include restricted cash and restricted cash equivalents in the beginning-of-period and end-of-period cash and cash equivalents totals. See Note 1, “Description of Business and Basis of Presentation,” for a reconciliation of cash and cash equivalents to the total of the amounts reported in the consolidated statements of cash flows.

3. REVENUE

Under ASC 606, revenue is recognized when control of the promised goods or services is transferred to the customer, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those goods or services. The Company’s contracts with its customers state the terms of sale, including the description, quantity, and price of the product or service purchased. Payment terms can vary by contract, but the period between invoicing and when payment is due is not significant. Taxes assessed on revenue-producing transactions are excluded from revenues.

The Company’s products and services are reported under three segments—LoyaltyOne, Epsilon and Card Services, and are listed below. The following table presents revenue disaggregated by major source, as well as geographic region based on the location of the subsidiary that generally correlates with the location of the customer:

Year Ended	Corporate/					
December 31, 2018	LoyaltyOne	Epsilon	Card Services	Other	Eliminations	Total
	(In millions)					

Disaggregation of Revenue
by Major Source:

Coalition loyalty program	\$ 352.3	\$ —	\$ —	\$ —	\$ —	\$ 352.3
Short-term loyalty programs	613.8	—	—	—	—	613.8
Technology services	—	1,048.1	—	—	(24.7)	1,023.4
Digital Media services	—	792.1	—	—	(20.1)	772.0
Agency services	—	334.9	—	—	(5.2)	329.7
Servicing fees, net	—	—	(97.3)	—	—	(97.3)
Other	90.7	—	—	0.6	(0.5)	90.8
Revenue from contracts with customers	\$ 1,056.8	\$ 2,175.1	\$ (97.3)	\$ 0.6	\$ (50.5)	\$ 3,084.7
Finance charges, net	—	—	4,694.9	—	—	4,694.9
Investment income	11.6	—	—	—	—	11.6
Total	\$ 1,068.4	\$ 2,175.1	\$ 4,597.6	\$ 0.6	\$ (50.5)	\$ 7,791.2

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Year Ended				Corporate/		
December 31, 2018	LoyaltyOne	Epsilon	Card Services	Other	Eliminations	Total
	(In millions)					
Disaggregation of Revenue by Geographic Region:						
United States	\$ 23.1	\$ 2,083.8	\$ 4,597.6	\$ 0.6	\$ (48.0)	\$ 6,657.1
Canada	411.3	16.3	—	—	(0.3)	427.3
Europe, Middle East and Africa	463.2	63.9	—	—	(0.4)	526.7
Asia Pacific	122.0	11.1	—	—	(1.8)	131.3
Other	48.8	—	—	—	—	48.8
Total	\$ 1,068.4	\$ 2,175.1	\$ 4,597.6	\$ 0.6	\$ (50.5)	\$ 7,791.2

LoyaltyOne

LoyaltyOne provides coalition and short-term loyalty programs through the Company's Canadian AIR MILES Reward Program and BrandLoyalty. The AIR MILES Reward Program is a coalition loyalty program for sponsors, who pay LoyaltyOne a fee per AIR MILES reward mile issued, in return for which LoyaltyOne provides all marketing, customer service, rewards and redemption management. BrandLoyalty designs, implements, conducts and evaluates innovative and tailor-made short-term loyalty programs for grocers worldwide.

Total consideration from the issuance of AIR MILES reward miles is allocated to three performance obligations: redemption, service, and brand, based on a relative standalone selling price basis. Because the standalone selling price is not directly observable for the three performance obligations, the Company estimates the standalone selling price for the redemption and the service performance obligations based on cost plus a reasonable margin. The Company estimates the standalone selling price of the brand performance obligation using a relief from royalty approach. Accordingly, management determines the estimated standalone selling price by considering multiple inputs and methods, including discounted cash flows and available market data in consideration of applicable margins and royalty rates to utilize. The number of AIR MILES reward miles issued and redeemed are factored into the estimates, as management estimates the standalone selling prices and volumes over the term of the respective agreements in order to determine the allocation of consideration to each performance obligation delivered. The redemption performance obligation incorporates the expected number of AIR MILES reward miles to be redeemed, and therefore, the amount of redemption revenue recognized is subject to management's estimate of breakage, or those AIR MILES reward miles estimated to be unredeemed by the collector base.

Redemption revenue is recognized at a point in time, as the AIR MILES reward miles are redeemed. For the fulfillment of certain rewards where the AIR MILES Reward Program does not control the goods or services before they are transferred to the collector, revenue is recorded on a net basis. Service revenue is recognized over time using

a time-elapsed output method, the estimated life of an AIR MILES reward mile. Revenue from the brand is recognized over time, using an output method, when an AIR MILES reward mile is issued. Revenue associated with both the service and brand is included in service revenue in the Company's consolidated statements of income.

The amount of revenue recognized in a period is subject to the estimate of breakage and the estimated life of an AIR MILES reward mile. Breakage and the life of an AIR MILES reward mile are based on management's estimate after viewing and analyzing various historical trends including vintage analysis, current run rates and other pertinent factors, such as the impact of macroeconomic factors and changes in the program structure. As of December 31, 2018, the breakage rate was 20% and the estimated life of an AIR MILES reward mile was 38 months.

The short-term loyalty programs typically last between 12 and 20 weeks, depending on the nature of the program, with contract terms usually less than one year in length. These programs are tailored for the specific retailer client and are designed to reward key customer segments based on their spending levels during defined campaign periods. Revenue is recognized at the point in time control passes from BrandLoyalty to the retailer.

Contract Liabilities. The Company records a contract liability when cash payments are received in advance of its performance, which applies to the service and redemption of an AIR MILES reward mile and the reward products for its short-term loyalty programs.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

A reconciliation of contract liabilities for the AIR MILES Reward Program is as follows:

	Deferred Revenue		Total
	Service	Redemption	
	(In millions)		
Balance at January 1, 2018	\$ 283.8	\$ 683.1	\$ 966.9
Cash proceeds	194.7	324.8	519.5
Revenue recognized (1)	(209.2)	(328.4)	(537.6)
Other	—	0.7	0.7
Effects of foreign currency translation	(21.3)	(52.9)	(74.2)
Balance at December 31, 2018	\$ 248.0	\$ 627.3	\$ 875.3
Amounts recognized in the consolidated balance sheets:			
Deferred revenue (current)	\$ 138.8	\$ 627.3	\$ 766.1
Deferred revenue (non-current)	\$ 109.2	\$ —	\$ 109.2

(1) Reported on a gross basis herein.

The deferred redemption obligation associated with the AIR MILES Reward Program is effectively due on demand from the collector base, thus the timing of revenue recognition is based on the redemption by the collector. Service revenue is amortized over the expected life of a mile, with the deferred revenue balance expected to be recognized into revenue in the amount of \$138.8 million in 2019, \$76.0 million in 2020, \$32.1 million in 2021, and \$1.1 million in 2022.

Additionally, contract liabilities for the Company's short-term loyalty programs are recognized in other current liabilities in the Company's consolidated balance sheets. The beginning balance as of January 1, 2018 was \$87.5 million and the closing balance as of December 31, 2018 was \$110.2 million, with the change due to cash payments received in advance of program performance revenue, offset in part by revenue recognized of approximately \$506.5 million during the year ended December 31, 2018.

Epsilon

Epsilon is a leading marketing services firm providing end-to-end, integrated marketing solutions that leverage rich data, analytics, creativity and technology to help clients more effectively acquire, retain and grow relationships with their customers.

The Company assesses the goods and services promised in its contracts with customers and identifies a performance obligation for each good or service that is distinct. Epsilon's product offerings and the associated performance

obligations for each product, included in services revenue in the Company's consolidated statements of income are as follows:

The Company assesses the goods and services promised in its contracts with customers and identifies a performance obligation for each good or service that is distinct. Epsilon's product offerings and the associated performance obligations for each product, included in services revenue in the Company's consolidated statements of income are as follows:

Product	Performance Obligation	Recognition	Basis of Revenue Recognition
Technology services	Professional services	Over time	Recognized over time as the services are performed.
	Email deployment	Point in time	Recognized at deployment.
	Customer lifecycle marketing	Point in time	Recognized at delivery.
Digital Media services	Digital campaign advertisement	Over time	Recognized on an output measure of the digital advertisement.
	Affiliate marketing advertisements	Point in time	Recognized at delivery.
	Data lists	Point in time	Recognized at delivery.
Agency services	Professional services	Over time	Recognized over time as the services are performed.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Epsilon generally enters into multi-year agreements with its customers; however, these contracts provide for termination without penalty with prior written notice. Under ASC 606, this results in a contract term shorter than the stated contractual term.

The Company's contracts with customers may include multiple performance obligations. The transaction price is allocated to the separate performance obligations on a relative standalone selling price basis. If the standalone selling price is not directly observable, the Company estimates the standalone selling price based on either the adjusted market assessment or cost plus a margin approach.

Certain of Epsilon's contracts may provide for variable consideration. The Company estimates these amounts based on either the expected amount or most likely amount to be provided to the customer to determine the transaction price for the contract. The estimation method is consistent for contracts with similar terms and is applied consistently throughout each contract. The estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of the anticipated performance and all information that is reasonably available.

The Company generates revenue from commission fees for transactions occurring on the Company's affiliate marketing networks. Commission fee revenue is recognized on a net basis as the Company acts as an agent.

Contract Liabilities. The Company records a contract liability when cash payments are received or due in advance of its performance. Contract liabilities for Epsilon are recognized in other current liabilities and other liabilities in the Company's consolidated balance sheets. The beginning balance as of January 1, 2018 was \$22.8 million and the closing balance as of December 31, 2018 was \$19.7 million.

Contract Costs. The Company recognizes an asset for the direct costs incurred to fulfill its contracts with customers to the extent it expects to recover those costs in accordance with ASC 340-40, "Other Assets and Deferred Costs – Contracts with Customers." As of December 31, 2018, the remaining unamortized contract costs were \$4.8 million. Contract fulfillment costs are generally deferred and amortized on a straight-line basis through the period in which the future performance obligation is satisfied. No impairment was recognized during the periods presented.

Card Services

Card Services is a provider of branded credit card programs, both private label and co-brand, that drive sales for its brand partners. For these private label and co-brand programs, Card Services provides risk management solutions, account origination, funding, transaction processing, customer care, collections and marketing services.

Finance charges, net. Finance charges, net represents revenue earned on customer accounts owned by the Company, and is recognized in the period in which it is earned. The Company recognizes earned finance charges, interest income and fees on credit card and loan receivables in accordance with the contractual provisions of the credit arrangements,

which are within the scope of ASC 310, "Receivables." Interest and fees continue to accrue on all credit card accounts beyond 90 days, except in limited circumstances, until the credit card account balance and all related interest and other fees are paid or charged-off, in the month during which an account becomes 180 days delinquent. Charge-offs for unpaid interest and fees as well as any adjustments to the allowance associated with unpaid interest and fees are recorded as a reduction to finance charges, net. Pursuant to ASC 310-20, "Receivables - Nonrefundable Fees and Other Costs," direct loan origination costs on credit card and loan receivables are deferred and amortized on a straight-line basis over a one-year period and recorded as a reduction to finance charges, net. As of December 31, 2018 and 2017, the remaining unamortized deferred costs related to loan origination were \$40.6 million and \$45.5 million, respectively.

Servicing fees, net. Servicing fees, net represents revenue earned from retailers and cardholders from processing and servicing accounts, and is recognized as such services are performed.

Revenue earned from retailers primarily consists of merchant and interchange fees, which are transaction fees charged to the merchant for the processing of credit card transactions. Merchant and interchange fees are recognized at a point in time upon the cardholder purchase.

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ALLIANCE DATA SYSTEMS CORPORATION

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Our credit card program agreements may also provide for payments to the retailer based on purchased volume or if certain contractual incentives are met, such as if the economic performance of the program exceeds a contractually defined threshold. These amounts are recorded as a reduction of revenue.

Revenue earned from cardholders primarily consists of monthly fees from the purchase of certain payment protection products purchased by our cardholders. The fees are based on the average cardholder account balance, and these products can be cancelled at any time by the cardholder. Revenue is recognized over time using a time-elapsed output method.

Contract Costs. The Company recognizes an asset for the incremental costs of obtaining or fulfilling a contract with the retailer for a credit card program agreement to the extent it expects to recover those costs, in accordance with ASC 340-40. As of December 31, 2018, the remaining unamortized contract costs were \$372.5 million and are included in other current assets and other non-current assets in the Company's consolidated balance sheets. Contract costs are deferred and amortized on a straight-line basis over the respective term of the agreement, which represents the period of service. Depending on the nature of the contract costs, the amortization is recorded as a reduction to revenue, or costs of operations, in the Company's consolidated statements of income. Amortization of contract costs recorded as a reduction to revenue totaled \$68.7 million for the year ended December 31, 2018. Amortization of contract costs recorded to cost of operations expense totaled \$9.8 million for the year ended December 31, 2018. No impairment was recognized during the periods presented.

Practical Expedients

The Company does not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less and (ii) contracts for which we recognize revenue at the amount to which the Company has the right to invoice for services performed.

The Company has elected the practical expedient from ASC 340-40 with respect to contract costs, and expenses the incremental costs as incurred for those costs that would otherwise be recognized with an amortization period of one year or less. These costs are primarily related to sales commissions, and such expensed incremental costs are recorded to cost of operations expense in the Company's consolidated statements of income.

4. ACQUISITIONS

2017 Acquisitions:

On October 20, 2017, the Company acquired credit card receivables and the associated accounts and assumed a portion of an existing customer care operation, including a facility sublease agreement and approximately 250 employees, from Signet Jewelers Limited ("Signet") for cash consideration of approximately \$945.6 million. This acquisition increases the Company's presence in the jewelry vertical. The Company determined these acquired activities and assets constituted a business under ASC 805, "Business Combinations," based on the nature of the inputs, processes and outputs acquired from the transaction. In addition, the parties entered into a long-term agreement under

which the Company became the primary issuer of private-label credit cards and related marketing services for Signet. The Company obtained control of the assets and assumed the liabilities on October 20, 2017, and the results of operations have been included since the date of acquisition in the Company's Card Services segment.

The Company engaged a third party specialist to assist it in the measurement of the fair value of the assets acquired. The fair value of the assets acquired exceeded the cost of the acquisition. Consequently, the Company reassessed the recognition and measurement of the identifiable assets acquired and liabilities assumed and concluded that the valuation procedures and resulting measures were appropriate. The excess value of the net assets acquired over the purchase price of \$7.9 million was recorded as a bargain purchase gain, which was included in cost of operations in the Company's consolidated statement of income for the year ended December 31, 2017.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The following table summarizes the fair values of the assets acquired and the liabilities assumed in the Signet acquisition as of October 20, 2017:

	As of October 20, 2017 (In millions)
Credit card receivables	\$ 906.3
Intangible assets	52.3
Total assets acquired	958.6
Other liabilities	0.2
Deferred tax liability	4.9
Total liabilities assumed	5.1
Net assets acquired	\$ 953.5
Total consideration paid	945.6
Gain on business combination	\$ 7.9

5. CREDIT CARD AND LOAN RECEIVABLES

The Company's credit card and loan receivables are the only portfolio segment or class of financing receivables. Quantitative information about the components of credit card and loan receivables is presented in the table below:

	December 31, 2018 (In millions)	December 31, 2017
Principal receivables	\$ 16,869.9	\$ 17,705.1
Billed and accrued finance charges	898.3	887.0
Other	86.8	21.7
Total credit card and loan receivables	17,855.0	18,613.8

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Less: Credit card receivables – restricted for securitization investors	13,418.3	14,293.9
Other credit card and loan receivables	\$ 4,436.7	\$ 4,319.9

Allowance for Loan Loss

The Company maintains an allowance for loan loss at a level that is appropriate to absorb probable losses inherent in credit card and loan receivables. The estimate of the allowance for loan loss covers uncollectible principal as well as unpaid interest and fees. The allowance for loan loss is evaluated monthly for appropriateness.

The following table presents the Company's allowance for loan loss for the years indicated:

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Balance at beginning of year	\$ 1,119.3	\$ 948.0	\$ 741.6
Provision for loan loss	1,016.0	1,140.1	940.5
Allowance associated with credit card and loan receivables transferred to held for sale	(54.8)	(27.9)	(31.1)
Change in estimate for uncollectible unpaid interest and fees	25.0	30.0	20.0
Recoveries	214.2	196.6	255.5
Principal charge-offs	(1,281.4)	(1,167.5)	(978.5)
Balance at end of year	\$ 1,038.3	\$ 1,119.3	\$ 948.0

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Net charge-offs include the principal amount of losses from credit cardholders unwilling or unable to pay their account balances, as well as bankrupt and deceased credit cardholders, less recoveries and exclude charged-off interest, fees and fraud losses. Charged-off interest and fees reduce finance charges, net while fraud losses are recorded as an expense. Credit card and loan receivables, including unpaid interest and fees, are charged-off in the month during which an account becomes 180 days contractually past due, except in the case of customer bankruptcies or death. Credit card and loan receivables, including unpaid interest and fees, associated with customer bankruptcies or death are charged-off in each month subsequent to 60 days after the receipt of notification of the bankruptcy or death, but in any case, not later than the 180-day contractual time frame.

The Company records the actual charge-offs for unpaid interest and fees as a reduction to finance charges, net. For the years ended December 31, 2018, 2017 and 2016, actual charge-offs for unpaid interest and fees were \$803.1 million, \$653.2 million and \$511.7 million, respectively.

Delinquencies

A credit card account is contractually delinquent if the Company does not receive the minimum payment by the specified due date on the cardholder's statement. It is the Company's policy to continue to accrue interest and fee income on all credit card accounts beyond 90 days, except in limited circumstances, until the credit card account balance and all related interest and other fees are paid or charged-off, in the month during which an account becomes 180 days delinquent. When an account becomes delinquent, a message is printed on the credit cardholder's billing statement requesting payment. After an account becomes 30 days past due, a proprietary collection scoring algorithm automatically scores the risk of the account becoming further delinquent. The collection system then recommends a collection strategy for the past due account based on the collection score and account balance and dictates the contact schedule and collections priority for the account. If the Company is unable to make a collection after exhausting all in-house collection efforts, the Company may engage collection agencies and outside attorneys to continue those efforts.

The following table presents the delinquency trends of the Company's credit card and loan receivables portfolio:

December 31, 2018	% of Total	December 31, 2017	% of Total
(In millions, except percentages)			

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Receivables outstanding - principal	\$ 16,869.9	100.0	%	\$ 17,705.1	100.0	%
Principal receivables balances contractually delinquent:						
31 to 60 days	303.2	1.8	%	301.5	1.7	%
61 to 90 days	207.9	1.3		191.3	1.1	
91 or more days	443.4	2.6		409.6	2.3	
Total	\$ 954.5	5.7	%	\$ 902.4	5.1	%

The practice of re-aging an account may affect credit card loan delinquencies and charge-offs. A re-age of an account is intended to assist delinquent cardholders who have experienced financial difficulties but who demonstrate both an ability and willingness to repay the amounts due. Accounts meeting specific defined criteria are re-aged when the cardholder makes one or more consecutive payments aggregating a certain pre-defined amount of their account balance. With re-aging, the outstanding balance of a delinquent account is returned to a current status. For the years ended December 31, 2018, 2017 and 2016, the Company's re-aged accounts represented 2.1%, 1.4% and 1.4%, respectively, of total credit card and loan receivables for each period and thus do not have a significant impact on the Company's delinquencies or net charge-offs. The Company's re-aging practices comply with regulatory guidelines.

Modified Credit Card Receivables

The Company holds certain credit card receivables for which the terms have been modified. The Company's modified credit card receivables include credit card receivables for which temporary hardship concessions have been granted and credit card receivables in permanent workout programs. These modified credit card receivables include concessions consisting primarily of a reduced minimum payment and an interest rate reduction. The temporary programs' concessions remain in place for a period no longer than twelve months, while the permanent programs remain in place through the payoff of the credit card receivables if the credit cardholder complies with the terms of the program.

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These concessions do not include the forgiveness of unpaid principal, but may involve the reversal of certain unpaid interest or fee assessments. In the case of the temporary programs, at the end of the concession period, credit card receivable terms revert to standard rates. These arrangements are automatically terminated if the customer fails to make payments in accordance with the terms of the program, at which time their account reverts back to its original terms.

Credit card receivables for which temporary hardship and permanent concessions were granted are each considered troubled debt restructurings and are collectively evaluated for impairment. Modified credit card receivables are evaluated at their present value with impairment measured as the difference between the credit card receivable balance and the discounted present value of cash flows expected to be collected. Consistent with the Company's measurement of impairment of modified credit card receivables on a pooled basis, the discount rate used for credit card receivables is the average current annual percentage rate the Company applies to non-impaired credit card receivables, which approximates what would have been applied to the pool of modified credit card receivables prior to impairment. In assessing the appropriate allowance for loan loss, these modified credit card receivables are included in the general pool of credit card receivables with the allowance determined under the contingent loss model of ASC 450-20, "Loss Contingencies." If the Company applied accounting under ASC 310-40, "Troubled Debt Restructurings by Creditors," to the modified credit card receivables in these programs, there would not be a material difference in the allowance for loan loss.

The Company had \$292.4 million and \$260.2 million, respectively, as a recorded investment in impaired credit card receivables with an associated allowance for loan loss of \$101.3 million and \$56.1 million, respectively, as of December 31, 2018 and 2017. These modified credit card receivables represented less than 2% of the Company's total credit card receivables as of both December 31, 2018 and 2017.

The average recorded investment in the impaired credit card receivables was \$340.9 million and \$230.4 million for the years ended December 31, 2018 and 2017, respectively.

Interest income on these modified credit card receivables is accounted for in the same manner as other accruing credit card receivables. Cash collections on these modified credit card receivables are allocated according to the same payment hierarchy methodology applied to credit card receivables that are not in such programs. The Company recognized \$27.9 million, \$19.7 million and \$18.9 million for the years ended December 31, 2018, 2017 and 2016, respectively, in interest income associated with modified credit card receivables during the period that such credit card receivables were impaired.

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The following tables provide information on credit card receivables that are considered troubled debt restructurings as described above, which entered into a modification program during the specified periods:

	Year Ended December 31, 2018			Year Ended December 31, 2017		
	Number of Restructurings (Dollars in millions)	Pre-modification Outstanding Balance	Post-modification Outstanding Balance	Number of Restructurings (Dollars in millions)	Pre-modification Outstanding Balance	Post-modification Outstanding Balance
Troubled debt restructurings – credit card receivables	501,906	\$ 621.4	\$ 620.7	201,772	\$ 261.1	\$ 260.7

The tables below summarize troubled debt restructurings that have defaulted in the specified periods where the default occurred within 12 months of their modification date:

	Year Ended December 31, 2018		Year Ended December 31, 2017	
	Number of Restructurings (Dollars in millions)	Outstanding Balance	Number of Restructurings	Outstanding Balance
Troubled debt restructurings that subsequently defaulted – credit card receivables	293,591	\$ 340.5	98,863	\$ 120.0

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Age of Credit Card and Loan Receivable Accounts

The following tables set forth, as of December 31, 2018 and 2017, the number of active credit card and loan receivable accounts with balances and the related principal balances outstanding, based upon the age of the active credit card and loan receivable accounts from origination:

Age of Accounts Since Origination	December 31, 2018				Percentage of	
	Number of Active Accounts with Balances (In millions, except percentages)	Percentage of Active Accounts with Balances		Principal Receivables Outstanding	Principal Receivables Outstanding	
0-12 Months	6.5	26.7	%	\$ 4,099.9	24.3	%
13-24 Months	4.2	17.1		2,887.8	17.1	
25-36 Months	3.1	13.0		2,428.9	14.4	
37-48 Months	2.2	9.1		1,795.0	10.7	
49-60 Months	1.7	7.1		1,367.2	8.1	
Over 60 Months	6.5	27.0		4,291.1	25.4	
Total	24.2	100.0	%	\$ 16,869.9	100.0	%

Age of Accounts Since Origination	December 31, 2017				Percentage of	
	Number of Active Accounts with Balances (In millions, except percentages)	Percentage of Active Accounts with Balances		Principal Receivables Outstanding	Principal Receivables Outstanding	
0-12 Months	7.4	27.3	%	\$ 4,110.0	23.2	%
13-24 Months	4.5	16.4		3,011.3	17.0	
25-36 Months	3.2	11.7		2,357.1	13.3	
37-48 Months	2.4	8.8		1,837.0	10.4	
49-60 Months	1.7	6.3		1,280.8	7.2	
Over 60 Months	8.1	29.5		5,108.9	28.9	
Total	27.3	100.0	%	\$ 17,705.1	100.0	%

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Credit Quality

The Company uses proprietary scoring models developed specifically for the purpose of monitoring the Company's obligor credit quality. The proprietary scoring models are used as a tool in the underwriting process and for making credit decisions. The proprietary scoring models are based on historical data and require various assumptions about future performance, which the Company updates periodically. Information regarding customer performance is factored into these proprietary scoring models to determine the probability of an account becoming 91 or more days past due at any time within the next 12 months. Obligor credit quality is monitored at least monthly during the life of an account. The following table reflects the composition of the Company's credit card and loan receivables by obligor credit quality as of December 31, 2018 and 2017:

	December 31, 2018		December 31, 2017		
	Total Principal Receivables Outstanding	Percentage of Principal Receivables Outstanding	Total Principal Receivables Outstanding	Percentage of Principal Receivables Outstanding	
Probability of an Account Becoming 91 or More Days Past Due or Becoming Charged-off (within the next 12 months)					
	(In millions, except percentages)				
No Score	\$ 249.0	1.5 %	\$ 210.6	1.2 %	
27.1% and higher	1,394.0	8.2	1,330.5	7.5	
17.1% - 27.0%	770.1	4.6	850.5	4.8	
12.6% - 17.0%	1,047.6	6.2	1,137.7	6.4	
3.7% - 12.5%	6,877.6	40.8	7,449.7	42.1	
1.9% - 3.6%	3,060.7	18.1	3,286.9	18.6	
Lower than 1.9%	3,470.9	20.6	3,439.2	19.4	
Total	\$ 16,869.9	100.0 %	\$ 17,705.1	100.0 %	

Transfer of Financial Assets

The Company originated loan receivables under one previous client agreement, and after origination, these loan receivables were sold to the client at par value plus accrued interest. These transfers qualified for sale treatment as they met the conditions established in ASC 860-10, "Transfers and Servicing." Following the sale, the client owned the loan receivables, assumed the risk of loss in the event of loan defaults and was responsible for all servicing functions related to the loan receivables. Effective July 2, 2018, the Company no longer originates loan receivables for this client. The loan receivables originated by the Company that had not yet been sold to the client were \$0.0 million and

\$126.9 million at December 31, 2018 and 2017, respectively, and were included in credit card and loan receivables held for sale in the Company's consolidated balance sheets and carried at the lower of cost or fair value. The carrying value of these loan receivables approximated fair value due to the short duration between the date of origination and sale. Originations and sales of these loan receivables held for sale were reflected as operating activities in the Company's consolidated statements of cash flows.

Portfolios Held for Sale

The Company has certain credit card portfolios held for sale, which are carried at the lower of cost or fair value, and were \$1,951.6 million and \$899.4 million as of December 31, 2018 and 2017, respectively.

During the year ended December 31, 2018, the Company transferred 11 credit card portfolios totaling approximately \$2.3 billion into credit card and loan receivables held for sale. The portfolios were transferred at the net carrying amount, which approximates the lower of cost or fair value and which is the measurement basis until the sale of the portfolios. The Company recorded valuation adjustments of \$101.6 million to reduce the value of certain portfolios within credit card and loan receivables held for sale for the year ended December 31, 2018.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

During the year ended December 31, 2018, the Company sold six credit card portfolios for cash consideration of approximately \$1,153.5 million and recognized approximately \$29.2 million in net gains on the transactions as follows:

- In June 2018, the Company sold one credit card portfolio for final cash consideration of approximately \$55.4 million and recognized a de minimis gain on the transaction.
- In October 2018, the Company sold two credit card portfolios for preliminary cash consideration of approximately \$246.4 million, subject to customary sale price adjustments, and recognized approximately \$4.6 million in gains on the transactions.
- In December 2018, the Company sold three credit card portfolios for preliminary cash consideration of approximately \$851.7 million, subject to customary sale price adjustments, and recognized approximately \$24.5 million in net gains on the transactions.

During the year ended December 31, 2017, the Company transferred seven credit card portfolios and one loan portfolio totaling approximately \$1.4 billion into credit card and loan receivables held for sale. The portfolios were transferred at the net carrying amount, which approximates the lower of cost or fair value and which is the measurement basis until the sale of the portfolios. The Company received cash consideration of approximately \$797.7 million from the sale of two credit card and loan portfolios, and the Company recognized total gains of \$23.3 million for the year ended December 31, 2017.

Portfolio Acquisitions

During the year ended December 31, 2017, the Company acquired approximately \$906.3 million of credit card receivables in connection with the Signet acquisition. For more information, see Note 4, “Acquisitions.”

Securitized Credit Card Receivables

The Company regularly securitizes its credit card receivables through its credit card securitization trusts, consisting of the WFN Trusts and the WFC Trust. The Company continues to own and service the accounts that generate credit card receivables held by the WFN Trusts and the WFC Trust. In its capacity as a servicer, each of the respective banks earns a fee from the WFN Trusts and the WFC Trust to service and administer the credit card receivables, collect payments and charge-off uncollectible receivables. These fees are eliminated and therefore are not reflected in the consolidated statements of income for the years ended December 31, 2018, 2017 and 2016.

The WFN Trusts and the WFC Trust are VIEs and the assets of these consolidated VIEs include certain credit card receivables that are restricted to settle the obligations of those entities and are not expected to be available to the Company or its creditors. The liabilities of the consolidated VIEs include non-recourse secured borrowings and other liabilities for which creditors or beneficial interest holders do not have recourse to the general credit of the Company.

During the initial phase of a securitization reinvestment period, the Company generally retains principal collections in exchange for the transfer of additional credit card receivables into the securitized pool of assets. During the amortization or accumulation period of a securitization, the investors' share of principal collections (in certain cases, up to a maximum specified amount each month) is either distributed to the investors or held in an account until it accumulates to the total amount due, at which time it is paid to the investors in a lump sum.

The Company is required to maintain minimum interests ranging from 4% to 10% of the securitized credit card receivables. This requirement is met through seller's interest and is supplemented through excess funding deposits. Excess funding deposits represent cash amounts deposited with the trustee of the securitizations.

Cash collateral, restricted deposits are generally released proportionately as investors are repaid, although some cash collateral, restricted deposits are released only when investors have been paid in full. None of the cash collateral, restricted deposits were required to be used to cover losses on securitized credit card receivables in the years ended December 31, 2018, 2017 and 2016, respectively.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The tables below present quantitative information about the components of total securitized credit card receivables, delinquencies and net charge-offs:

	December 31, 2018	December 31, 2017
	(In millions)	
Total credit card receivables – restricted for securitization investors	\$ 13,418.3	\$ 14,293.9
Principal amount of credit card receivables – restricted for securitization investors, 91 days or more past due	\$ 301.6	\$ 295.0

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Net charge-offs of securitized principal	\$ 927.0	\$ 741.1	\$ 583.8

6. INVENTORIES, NET

Inventories, net of \$251.9 million and \$234.1 million at December 31, 2018 and 2017, respectively, primarily consist of finished goods to be utilized as rewards in the Company's loyalty programs.

Inventories, net are stated at the lower of cost and net realizable value and valued primarily on a first-in-first-out basis. The Company records valuation adjustments to its inventories if the cost of inventory exceeds the amount it expects to realize from the ultimate sale or disposal of the inventory. These estimates are based on management's judgment regarding future market conditions and an analysis of historical experience.

7. OTHER INVESTMENTS

Other investments consist of marketable securities and U.S. Treasury bonds and are included in other current assets and other non-current assets in the Company's consolidated balance sheets. The principal components of other investments, which are carried at fair value, are as follows:

	December 31, 2018				December 31, 2017			
	Amortized Cost (In millions)	Unrealized Gains	Unrealized Losses	Fair Value	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Marketable securities	\$ 272.8	\$ 0.1	\$ (6.5)	\$ 266.4	\$ 207.3	\$ 0.2	\$ (2.5)	\$ 205.0
U.S. Treasury bonds	25.0	—	(0.1)	24.9	50.0	—	(0.1)	49.9
Total	\$ 297.8	\$ 0.1	\$ (6.6)	\$ 291.3	\$ 257.3	\$ 0.2	\$ (2.6)	\$ 254.9

The following tables show the unrealized losses and fair value for those investments that were in an unrealized loss position as of December 31, 2018 and 2017, aggregated by investment category and the length of time that individual securities have been in a continuous loss position:

	December 31, 2018		12 Months or Greater		Total	
	Less than 12 months Unrealized Fair Value (In millions)	Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses
Marketable securities	\$ 57.3	\$ (0.5)	\$ 164.0	\$ (6.0)	\$ 221.3	\$ (6.5)
U.S. Treasury bonds	—	—	24.9	(0.1)	24.9	(0.1)
Total	\$ 57.3	\$ (0.5)	\$ 188.9	\$ (6.1)	\$ 246.2	\$ (6.6)

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

	December 31, 2017		12 Months or Greater		Total	
	Less than 12 months					
	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses
	(In millions)					
Marketable securities	\$ 104.5	\$ (0.9)	\$ 67.3	\$ (1.6)	\$ 171.8	\$ (2.5)
U.S. Treasury bonds	49.9	(0.1)	—	—	49.9	(0.1)
Total	\$ 154.4	\$ (1.0)	\$ 67.3	\$ (1.6)	\$ 221.7	\$ (2.6)

The amortized cost and estimated fair value of the marketable securities and U.S. Treasury bonds at December 31, 2018 by contractual maturity are as follows:

	Amortized	
	Cost	Fair Value
	(In millions)	
Due in one year or less	\$ 54.5	\$ 54.4
Due after one year through five years	2.2	2.2
Due after five years through ten years	—	—
Due after ten years	241.1	234.7
Total	\$ 297.8	\$ 291.3

Market values were determined for each individual security in the investment portfolio. When evaluating the investments for other-than-temporary impairment, the Company reviews factors such as the length of time and extent to which fair value has been below cost basis, the financial condition of the security's issuer, and the Company's intent to sell the security and whether it is more likely than not that the Company will be required to sell the security before recovery of its amortized cost basis. The Company typically invests in highly-rated securities with low probabilities of default and has the intent and ability to hold the investments until maturity. As of December 31, 2018, the Company does not consider the investments to be other-than-temporarily impaired.

There were no realized gains or losses from the sale of investment securities for the years ended December 31, 2018, 2017 and 2016.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

8. REDEMPTION SETTLEMENT ASSETS

Redemption settlement assets consist of restricted cash and securities available-for-sale and are designated for settling redemptions by collectors of the AIR MILES Reward Program in Canada under certain contractual relationships with sponsors of the AIR MILES Reward Program. The principal components of redemption settlement assets, which are carried at fair value, are as follows:

	December 31, 2018				December 31, 2017			
	Amortized Cost (In millions)	Unrealized Gains	Unrealized Losses	Fair Value	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Restricted cash	\$ 43.9	\$ —	\$ —	\$ 43.9	\$ 74.3	\$ —	\$ —	\$ 74.3
Mutual funds	23.2	—	—	23.2	27.3	—	(1.3)	26.0
Corporate bonds	497.5	0.1	(6.1)	491.5	495.0	—	(5.8)	489.2
Total	\$ 564.6	\$ 0.1	\$ (6.1)	\$ 558.6	\$ 596.6	\$ —	\$ (7.1)	\$ 589.5

The following tables show the unrealized losses and fair value for those investments that were in an unrealized loss position as of December 31, 2018 and 2017, respectively, aggregated by investment category and the length of time that individual securities have been in a continuous loss position:

	December 31, 2018		December 31, 2017		Total	Unrealized Losses
	Less than 12 months Unrealized Fair Value (In millions)	Losses	12 Months or Greater Unrealized Fair Value	Losses		
Corporate bonds	\$ 31.2	\$ (0.1)	\$ 414.4	\$ (6.0)	\$ 445.6	\$ (6.1)
Total	\$ 31.2	\$ (0.1)	\$ 414.4	\$ (6.0)	\$ 445.6	\$ (6.1)

	December 31, 2017					
	Less than 12 months		12 Months or Greater		Total	
	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses
	(In millions)					
Mutual funds	\$ 26.0	\$ (1.3)	\$ —	\$ —	\$ 26.0	\$ (1.3)
Corporate bonds	328.0	(3.7)	161.2	(2.1)	489.2	(5.8)
Total	\$ 354.0	\$ (5.0)	\$ 161.2	\$ (2.1)	\$ 515.2	\$ (7.1)

The amortized cost and estimated fair value of the securities at December 31, 2018 by contractual maturity are as follows:

	Amortized Cost	Estimated Fair Value
	(In millions)	
Due in one year or less	\$ 118.4	\$ 117.9
Due after one year through five years	402.3	396.8
Total	\$ 520.7	\$ 514.7

Market values were determined for each individual security in the investment portfolio. When evaluating the investments for other-than-temporary impairment, the Company reviews factors such as the length of time and extent to which fair value has been below cost basis, the financial condition of the security's issuer, and the Company's intent to sell the security and whether it is more likely than not that the Company will be required to sell the security before recovery of its amortized cost basis. The Company typically invests in highly-rated securities with low probabilities of default and has the intent and ability to hold the investments until maturity. As of December 31, 2018, the Company does not consider the investments to be other-than-temporarily impaired.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

For the years ended December 31, 2018 and 2017, realized gains and losses from the sale of investment securities were de minimis. There were no realized gains or losses from the sale of investment securities for the year ended December 31, 2016.

9. PROPERTY AND EQUIPMENT

Property and equipment consist of the following:

	December 31,	
	2018	2017
	(In millions)	
Computer software and development	\$ 921.6	\$ 823.0
Furniture and equipment	422.8	387.3
Land, buildings and leasehold improvements	191.6	177.7
Capital leases	22.4	13.1
Construction in progress	63.5	76.5
Total	1,621.9	1,477.6
Accumulated depreciation and amortization	(1,026.8)	(863.7)
Property and equipment, net	\$ 595.1	\$ 613.9

Depreciation expense totaled \$98.2 million, \$101.2 million and \$97.7 million for the years ended December 31, 2018, 2017 and 2016, respectively, and includes purchased software and amortization of capital leases. Amortization expense on capitalized software totaled \$131.5 million, \$115.5 million and \$104.9 million for the years ended December 31, 2018, 2017 and 2016, respectively.

As of December 31, 2018 and 2017, the net amount of unamortized capitalized software costs included in the consolidated balance sheets was \$210.3 million and \$229.5 million, respectively.

10. INTANGIBLE ASSETS AND GOODWILL

Intangible Assets

Intangible assets consist of the following:

	December 31, 2018			
	Gross Assets (In millions)	Accumulated Amortization	Net	Amortization Life and Method
Finite Lived Assets				
Customer contracts and lists	\$ 1,126.4	\$ (773.9)	\$ 352.5	3-12 years—straight line
Premium on purchased credit card portfolios	286.0	(172.9)	113.1	3-13 years—straight line
Collector database	51.3	(49.9)	1.4	5 years—straight line
Publisher networks	140.2	(112.0)	28.2	5-7 years—straight line
Tradenames	75.8	(50.3)	25.5	8-15 years—straight line
Purchased data lists	10.7	(6.2)	4.5	1-5 years—straight line, accelerated
Favorable lease	6.0	(3.9)	2.1	6-10 years—straight line
	\$ 1,696.4	\$ (1,169.1)	\$ 527.3	
Indefinite Lived Assets				
Tradenames	12.4	—	12.4	Indefinite life
Total intangible assets	\$ 1,708.8	\$ (1,169.1)	\$ 539.7	

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

	December 31, 2017			
	Gross Assets (In millions)	Accumulated Amortization	Net	Amortization Life and Method
Finite Lived Assets				
Customer contracts and lists	\$ 1,143.5	\$ (625.5)	\$ 518.0	3-12 years—straight line
Premium on purchased credit card portfolios	321.6	(147.8)	173.8	3-13 years—straight line
Customer databases	63.6	(63.6)	—	3 years—straight line
Collector database	55.6	(53.5)	2.1	5 years—straight line
Publisher networks	140.2	(84.4)	55.8	5-7 years—straight line
Tradenames	77.3	(46.8)	30.5	8-15 years—straight line
Purchased data lists	11.3	(6.2)	5.1	1-5 years—straight line, accelerated
Favorable lease	6.0	(3.1)	2.9	6-10 years—straight line
	\$ 1,819.1	\$ (1,030.9)	\$ 788.2	
Indefinite Lived Assets				
Tradenames	12.4	—	12.4	Indefinite life
Total intangible assets	\$ 1,831.5	\$ (1,030.9)	\$ 800.6	

As part of the Signet acquisition in October 2017, the Company acquired \$52.3 million of intangible assets, consisting of \$35.9 million of customer relationships being amortized over a life of 3.0 years and \$16.4 million of marketing relationships being amortized over a life of 7.0 years. For more information on this acquisition, see Note 4, “Acquisitions.”

Amortization expense related to the intangible assets was approximately \$257.6 million, \$280.9 million and \$309.5 million for the years ended December 31, 2018, 2017 and 2016, respectively.

The estimated amortization expense related to intangible assets for the next five years and thereafter is as follows:

For
the Years Ending
December 31,
(In millions)

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2019	\$	204.6
2020		141.6
2021		79.3
2022		69.4
2023		14.3
Thereafter		18.1

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Goodwill

The changes in the carrying amount of goodwill for the years ended December 31, 2018 and 2017, respectively, are as follows:

	LoyaltyOne®Epsilon® (In millions)	Card Services	Corporate/ Other	Total	
Balance at January 1, 2017	\$ 653.3	\$ 2,885.7	\$ 261.7	\$ —	\$ 3,800.7
Effects of foreign currency translation	77.8	1.6	—	—	79.4
Balance at December 31, 2017	\$ 731.1	\$ 2,887.3	\$ 261.7	\$ —	\$ 3,880.1
Effects of foreign currency translation	(37.9)	(1.2)	—	—	(39.1)
Balance at December 31, 2018	\$ 693.2	\$ 2,886.1	\$ 261.7	\$ —	\$ 3,841.0

The Company completed annual impairment tests for goodwill on July 31, 2018, 2017 and 2016 and determined at each date that no impairment exists. No further testing of goodwill impairments will be performed until July 31, 2019, unless events occur or circumstances indicate an impairment is probable.

11. ACCRUED EXPENSES

Accrued expenses consist of the following:

	December 31,	
	2018	2017
	(In millions)	
Accrued payroll and benefits	\$ 242.2	\$ 247.2
Accrued taxes	24.0	64.6
Accrued other liabilities	154.8	131.0
Accrued expenses	\$ 421.0	\$ 442.8

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12. DEBT

Debt consists of the following:

Description	December 31, 2018 (Dollars in millions)	December 31, 2017	Maturity	Interest Rate
Long-term and other debt:				
2017 revolving line of credit	\$ 740.0	\$ 475.0	June 2022	(1)
2017 term loans	2,938.1	3,014.4	June 2022	(1)
BrandLoyalty credit agreement	183.7	198.0	June 2020	(2)
Senior notes due 2020	—	500.0	—	—
Senior notes due 2021	500.0	500.0	November 2021	5.875%
Senior notes due 2022	600.0	600.0	August 2022	5.375%
Senior notes due 2022 (€400.0 million)	458.8	479.9	March 2022	4.500%
Senior notes due 2023 (€300.0 million)	344.1	359.9	November 2023	5.250%
Capital lease obligations and other debt	12.6	8.8	Various – Jan 2019 – Aug 2022	2.90% to 4.98%
Total long-term and other debt	5,777.3	6,136.0		
Less: Unamortized debt issuance costs	39.4	56.4		
Less: Current portion	144.5	131.3		
Long-term portion	\$ 5,593.4	\$ 5,948.3		
Deposits:				
Certificates of deposit	\$ 8,395.1	\$ 7,526.0	Various – Jan 2019 – Dec 2023	1.25% to 4.00%
Money market deposits	3,424.3	3,429.4	Non-maturity	(3)
Total deposits	11,819.4	10,955.4		
Less: Unamortized debt issuance costs	25.7	24.5		
Less: Current portion	6,537.7	6,366.2		
Long-term portion	\$ 5,256.0	\$ 4,564.7		
Non-recourse borrowings of consolidated securitization entities:				
Fixed rate asset-backed term note securities	\$ 4,893.3	\$ 4,704.7	Various – Mar 2019 – Oct 2021	1.72% to 3.95%
Floating rate asset-backed term note securities	—	360.0	—	—

			Various – Nov 2019 –	
Conduit asset-backed securities	2,770.0	3,755.0	Sept 2020	(4)
Total non-recourse borrowings of consolidated securitization entities	7,663.3	8,819.7		
Less: Unamortized debt issuance costs	11.6	12.4		
Less: Current portion	2,717.6	1,339.9		
Long-term portion	\$ 4,934.1	\$ 7,467.4		

- (1) The interest rate is based upon the London Interbank Offered Rate (“LIBOR”) plus an applicable margin. At December 31, 2018, the weighted average interest rate was 4.22% and 4.27% for the revolving line of credit and term loans, respectively.
- (2) The interest rate is based upon the Euro Interbank Offered Rate plus an applicable margin. At December 31, 2018, the weighted average interest rate was 1.22% and 1.65% for the BrandLoyalty revolving line of credit and term loans, respectively.
- (3) The interest rates are based on the Federal Funds rate plus an applicable margin. At December 31, 2018, the interest rates ranged from 1.90% to 2.71%.
- (4) The interest rate is based upon LIBOR or the asset-backed commercial paper costs of each individual conduit provider plus an applicable margin. At December 31, 2018, the interest rates ranged from 3.48% to 3.79%.

At December 31, 2018, the Company was in compliance with its financial covenants.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Long-term and Other Debt

Credit Agreement

In June 2017, the Company, as borrower, and ADS Alliance Data Systems, Inc., ADS Foreign Holdings, Inc., Alliance Data Foreign Holdings, Inc., Aspen Marketing Services, LLC, Commission Junction LLC, Conversant LLC, Epsilon Data Management, LLC, Comenity LLC and Comenity Servicing LLC, as guarantors, entered into a credit agreement with various agents and lenders dated June 14, 2017 (the “2017 Credit Agreement”), replacing in its entirety the Company’s credit agreement dated July 10, 2013 (the “2013 Credit Agreement”), which was concurrently terminated, and amended the 2017 Credit Agreement on June 16, 2017 to increase the total amount of the borrowings.

At December 31, 2018, the 2017 Credit Agreement, as amended, provided for a \$3,052.6 million term loan (the “2017 Term Loan”), subject to certain principal repayments, and a \$1,572.4 million revolving credit facility (the “2017 Credit Facility”) with a U.S. \$65.0 million sublimit for Canadian dollar borrowings and a \$65.0 million sublimit for swing line loans. The 2017 Credit Agreement includes an uncommitted accordion feature of up to \$750.0 million in the aggregate allowing for future incremental borrowings, subject to certain conditions.

Total availability under the 2017 Credit Facility at December 31, 2018 was \$832.4 million.

The loans under the 2017 Credit Agreement are scheduled to mature on June 14, 2022. The 2017 Term Loan provides for aggregate principal payments of 2.5% of the initial term loan amount in each of the first and second year and 5% of the initial term loan amount in each of the third, fourth, and fifth year, payable in equal quarterly installments beginning on September 30, 2017. The 2017 Credit Agreement is unsecured.

The 2017 Credit Agreement contains the usual and customary negative covenants for transactions of this type, including, but not limited to, restrictions on the Company’s ability and in certain instances, its subsidiaries’ ability to consolidate or merge; substantially change the nature of its business; sell, lease, or otherwise transfer any substantial part of its assets; create or incur indebtedness; create liens; and make acquisitions. The negative covenants are subject to certain exceptions as specified in the 2017 Credit Agreement. The 2017 Credit Agreement also requires the Company to satisfy certain financial covenants, including a maximum total leverage ratio and a minimum ratio of consolidated operating EBITDA to consolidated interest expense, each as determined in accordance with the 2017 Credit Agreement. The 2017 Credit Agreement also includes customary events of default.

BrandLoyalty Credit Agreement

BrandLoyalty and certain of its subsidiaries, as borrower and guarantors, are parties to a credit agreement that provides for an A-1 term loan facility of €90.0 million and an A-2 term loan facility of €100.0 million, subject to certain principal repayments, a committed revolving line of credit of €62.5 million and an uncommitted revolving line of credit of €62.5 million, all of which mature in June 2020. The BrandLoyalty credit agreement provided for a reduction in commitment on each of the uncommitted and committed revolving lines of credit of €25.0 million in August 2018, for a committed revolving line of credit of €37.5 million and an uncommitted revolving line of credit of €37.5 million as of December 31, 2018.

As of December 31, 2018, amounts outstanding under the revolving lines of credit and the term loans under the BrandLoyalty credit agreement were €37.6 million and €122.5 million (\$43.2 million and \$140.5 million), respectively.

Senior Notes

The senior notes set forth below are each governed by their respective indenture that includes usual and customary negative covenants and events of default for transactions of these types. These senior notes are unsecured and are guaranteed on a senior unsecured basis by certain of the Company's existing and future domestic subsidiaries that guarantee its Credit Agreement, as amended, as described above.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Due 2020

In April 2018, the Company redeemed its \$500.0 million outstanding 6.375% senior notes due April 1, 2020 at par plus accrued interest. The Company funded the redemption with borrowings under its revolving line of credit.

Due 2021

In October 2016, the Company issued and sold \$500.0 million aggregate principal amount of 5.875% senior notes due November 1, 2021 (the “Senior Notes due 2021”). The Senior Notes due 2021 accrue interest on the principal amount at the rate of 5.875% per annum from October 27, 2016, payable semiannually in arrears, on May 1 and November 1 of each year, beginning on May 1, 2017.

Due 2022

In July 2014, the Company issued and sold \$600.0 million aggregate principal amount of 5.375% senior notes due August 1, 2022 (the “Senior Notes due 2022”). The Senior Notes due 2022 accrue interest on the principal amount at the rate of 5.375% per annum from July 29, 2014, payable semi-annually in arrears, on February 1 and August 1 of each year, beginning on February 1, 2015.

In March 2017, the Company issued and sold €400.0 million aggregate principal amount of 4.500% senior notes due March 15, 2022 (the “Senior Notes due 2022 (€400.0 million)”). Interest is payable semiannually in arrears, on March 15 and September 15 of each year, beginning on September 15, 2017. The Senior Notes due 2022 (€400.0 million) were admitted for listing on the Official List of the Irish Stock Exchange and are trading on the Global Exchange Market. The amount outstanding under the Senior Notes due 2022 (€400.0 million) was €400.0 million (\$458.8 million) as of December 31, 2018.

Due 2023

In November 2015, the Company issued and sold €300.0 million aggregate principal amount of 5.2500% senior notes due November 15, 2023 (the “Senior Notes due 2023”). The Senior Notes due 2023 accrue interest on the principal amount at the rate of 5.25% per annum from November 19, 2015, payable semiannually in arrears, on May 15 and

November 15 of each year, beginning on May 15, 2016. The Senior Notes due 2023 were admitted for listing on the Official List of the Irish Stock Exchange and are trading on the Global Exchange Market. The amount outstanding under the Senior Notes due 2023 was €300.0 million (\$344.1 million) as of December 31, 2018.

Deposits

Comenity Bank and Comenity Capital Bank issue certificates of deposit in denominations of at least \$100,000 and \$1,000, respectively, in various maturities ranging between January 2019 and December 2023 and with effective annual interest rates ranging from 1.25% to 4.00%, with a weighted average interest rate of 2.44%, at December 31, 2018. At December 31, 2017, interest rates ranged from 1.00% to 2.80%, with a weighted average interest rate of 1.86%. Interest is paid monthly and at maturity.

Comenity Bank and Comenity Capital Bank offer non-maturity deposit programs through contractual arrangements with various financial counterparties. Money market deposits are redeemable on demand by the customer and, as such, have no scheduled maturity date. As of December 31, 2018, Comenity Bank and Comenity Capital Bank had \$3.4 billion in money market deposits outstanding with annual interest rates ranging from 1.90% to 2.71%, with a weighted average interest rate of 2.59%. As of December 31, 2017, Comenity Bank and Comenity Capital Bank had \$3.4 billion in money market deposits outstanding with annual interest rates ranging from 1.26% to 2.37%, with a weighted average interest rate of 1.82%.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Non-Recourse Borrowings of Consolidated Securitization Entities

An asset-backed security is a security whose value and income payments are derived from and collateralized (or “backed”) by a specified pool of underlying assets. The sale of the pool of underlying assets to general investors is accomplished through a securitization process. The Company regularly sells its credit card receivables to its credit card securitization trusts, the WFN Trusts and the WFC Trust, which are consolidated on the balance sheets of the Company under ASC 860 and ASC 810. The liabilities of the consolidated VIEs include asset-backed securities for which creditors or beneficial interest holders do not have recourse to the general credit of the Company.

Asset-Backed Term Notes

For the year ended December 31, 2018, the following asset-backed term notes were issued by Master Trust I:

- In February 2018, the Company issued \$591.5 million of Series 2018-A asset-backed term notes, which mature in February 2021. The offering consisted of \$525.0 million of Class A notes with a fixed interest rate of 3.07% per year and \$66.5 million of notes that were retained by the Company and eliminated from the Company’s consolidated balance sheets.
- In September 2018, the Company issued \$337.5 million of Series 2018-B asset-backed term notes, which mature in September 2021. The offering consisted of \$300.0 million of Class A notes with a fixed interest rate of 3.46% per year, \$22.3 million of Class M notes with a fixed interest rate of 3.81% per year and \$15.2 million of notes which were retained by the Company and eliminated from the Company’s consolidated balance sheets.
- In November 2018, the Company issued \$337.5 million of Series 2018-C asset-backed term notes, which mature in October 2021. The offering consisted of \$300.0 million of Class A notes with a fixed interest rate of 3.55% per year, \$22.3 million of Class M notes with a fixed interest rate of 3.95% per year and \$15.2 million of notes which were retained by the Company and eliminated from the Company’s consolidated balance sheets.

For the year ended December 31, 2018, the following asset-backed term notes matured and were repaid:

- In February 2018, \$500.0 million of Series 2013-A asset-backed term notes, \$125.0 million of which were retained by the Company and eliminated from the Company’s consolidated balance sheets.
- In April 2018, \$500.0 million of Series 2015-A asset-backed term notes, \$140.0 million of which were retained by the Company and eliminated from the Company’s consolidated balance sheets.
- In August 2018, \$460.5 million of Series 2016-B asset-backed term notes, \$110.5 million of which were retained by the Company and eliminated from the Company’s consolidated balance sheets.
- In October 2018, \$266.7 million of Series 2012-C asset-backed term notes, \$10.7 million of which were retained by the Company and eliminated from the Company’s consolidated balance sheets.

In February 2019, Master Trust I issued \$562.5 million of Series 2019-A asset-backed term notes, which mature in February 2022. The offering consisted of \$500.0 million of Class A notes with a fixed interest rate of 3.14% per year, \$37.2 million of Class M notes with a fixed interest rate of 3.61% per year and \$25.3 million of notes that were retained by the Company and eliminated from the Company's consolidated balance sheets.

Conduit Facilities

The Company has access to committed undrawn capacity through three conduit facilities to support the funding of its credit card receivables through Master Trust I, Master Trust III and the WFC Trust. Borrowings outstanding under each facility bear interest at a margin above LIBOR or the asset-backed commercial paper costs of each individual conduit provider. The conduits have varying maturities from November 2019 to September 2020 with variable interest rates ranging from 3.48% to 3.79% as of December 31, 2018.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

In August 2018, Master Trust I amended its 2009-VFN conduit facility, increasing the capacity from \$800.0 million to \$1,180.0 million and extending the maturity to September 2020.

In August 2018, Master Trust III amended its 2009-VFC conduit facility, decreasing the capacity from \$1,680.0 million to \$1,300.0 million and extending the maturity to September 2020.

As of December 31, 2018, total capacity under the conduit facilities was \$4.5 billion, of which \$2.8 billion had been drawn and was included in non-recourse borrowings of consolidated securitization entities in the consolidated balance sheets.

Maturities

The future principal payments for the Company's debt as of December 31, 2018 are as follows:

Year	Long-Term and Other Debt (In millions)	Deposits	Non-Recourse Borrowings of Consolidated Securitization Entities
2019	\$ 144.6	\$ 6,540.2	\$ 2,719.0
2020	315.1	2,220.1	3,092.2
2021	655.4	1,473.9	1,852.1
2022	4,318.1	1,057.4	—
2023	344.1	527.8	—
Thereafter	—	—	—
Total maturities	5,777.3	11,819.4	7,663.3
Unamortized debt issuance costs	(39.4)	(25.7)	(11.6)
	\$ 5,737.9	\$ 11,793.7	\$ 7,651.7

13. DERIVATIVE INSTRUMENTS

The Company uses derivatives to manage risks associated with certain assets and liabilities arising from the potential adverse impact of fluctuations in interest rates and foreign currency exchange rates.

The Company limits its exposure on derivatives by entering into contracts with institutions that are established dealers who maintain certain minimum credit criteria established by the Company. At December 31, 2018, the Company does not maintain any derivative instruments subject to master agreements that would require the Company to post collateral or that contain any credit-risk related contingent features.

The Company enters into foreign currency derivatives to reduce the volatility of the Company's cash flows resulting from changes in foreign currency exchange rates associated with certain inventory transactions, some of which are designated as cash flow hedges. The Company generally hedges foreign currency exchange rate risks for periods of 12 months or less. As of December 31, 2018, the maximum term over which the Company is hedging its exposure to the variability of future cash flows associated with certain inventory transactions is 11 months.

Certain foreign currency exchange forward contracts are not designated as hedges as they do not meet the specific hedge accounting requirements of ASC 815, "Derivatives and Hedging." Changes in the fair value of the derivative instruments not designated as hedging instruments are recorded in the consolidated statements of income as they occur. Gains and losses on derivatives not designated as hedging instruments are included in other operating activities in the consolidated statements of cash flows for all periods presented.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The following tables present the fair values of the derivative instruments included within the Company's consolidated balance sheets as of December 31, 2018 and 2017:

	December 31, 2018		Balance Sheet Location	Maturity
	Notional Amount (In millions)	Fair Value		
Designated as hedging instruments:				
Foreign currency exchange hedges	\$ 5.2	\$ 0.3	Other current assets	January 2019 to April 2019
Foreign currency exchange hedges	\$ 20.3	\$ 0.3	Other current liabilities	March 2019 to November 2019
Not designated as hedging instruments:				
Foreign currency exchange forward contract	\$ 61.6	\$ 3.5	Other current assets	January 2019 to February 2019
	December 31, 2017		Balance Sheet Location	Maturity
	Notional Amount (In millions)	Fair Value		
Designated as hedging instruments:				
Foreign currency exchange hedges	\$ 2.9	\$ 0.1	Other current assets	August 2018 to October 2018
Foreign currency exchange hedges	\$ 19.3	\$ 0.3	Other current liabilities	January 2018 to October 2018
Not designated as hedging instruments:				
Foreign currency exchange forward contracts	\$ 168.0	\$ 15.9	Other current assets	February 2018
Foreign currency exchange forward contract	\$ 65.8	\$ 3.5	Other current liabilities	March 2018

Derivatives Designated as Hedging Instruments

For the year ended December 31, 2018, losses of \$0.1 million, net of tax, were recognized in other comprehensive income related to foreign currency exchange hedges designated as effective, gains of \$0.2 million, net of tax, were reclassified from accumulated other comprehensive income into net income (cost of operations), and a de minimis amount of ineffectiveness was recorded. Changes in the fair value of these hedges, excluding any ineffective portion are recorded in other comprehensive income (loss) until the hedged transactions affect net income. The ineffective portion of these cash flow hedges impacts net income when the ineffectiveness occurs. At December 31, 2018, \$0.2 million is expected to be reclassified from accumulated other comprehensive income into net income in the coming 12 months.

For the year ended December 31, 2017, losses of \$0.5 million, net of tax, were recognized in other comprehensive income related to foreign currency exchange hedges designated as effective. For the year ended December 31, 2017, gains of \$0.2 million, net of tax, were reclassified from accumulated other comprehensive income into net income (cost of operations), and \$0.1 million of ineffectiveness was recorded.

For the year ended December 31, 2016, losses of \$0.9 million, net of tax, were recognized in other comprehensive income related to foreign currency exchange hedges designated as effective, losses of \$0.6 million, net of tax, were reclassified from accumulated other comprehensive income into net income (cost of operations), and \$0.1 million of ineffectiveness was recorded.

Derivatives Not Designated as Hedging Instruments

For the years ended December 31, 2018, 2017 and 2016, the Company recognized gains of \$10.6 million, gains of \$12.5 million, and losses of \$0.1 million, respectively, related to foreign currency exchange forward contracts not designated as hedging instruments in general and administrative expense in the Company's consolidated statements of income.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Net Investment Hedges

The Company designated its Euro-denominated 5.250% senior notes due 2023 (€300.0 million) and €200.0 million of its Euro-denominated 4.500% senior notes due 2022 (€400.0 million) as a net investment hedge of its investment in BrandLoyalty, on a pre-tax basis. The net investment hedge is intended to reduce the volatility in stockholders' equity caused by the changes in foreign currency exchange rates of the Euro with respect to the U.S. dollar.

In February 2018, the Company de-designated its €500.0 million net investment hedge and re-designated €640.0 million of Euro-denominated senior notes as a net investment hedge of its investment in BrandLoyalty on an after-tax basis. The change in fair value of the net investment hedges due to remeasurement of the effective portion is recorded in other comprehensive income. The ineffective portion of this hedging instrument impacts net income when the ineffectiveness occurs.

For the years ended December 31, 2018, 2017 and 2016, the Company recorded unrealized gains of \$29.6, losses of \$46.1 million, and gains of \$7.9 million, net of tax, respectively, in other comprehensive income and no ineffectiveness was recorded on the net investment hedges.

14. COMMITMENTS AND CONTINGENCIES

AIR MILES Reward Program

The Company has entered into contractual arrangements with certain AIR MILES Reward Program sponsors that result in fees being billed to those sponsors upon the redemption of AIR MILES reward miles issued by those sponsors. The Company has obtained letters of credit and other assurances from those sponsors for the Company's benefit that expire at various dates. These letters of credit and other assurances totaled \$128.7 million at December 31, 2018, which exceeds the amount of the Company's estimate of its obligation to provide travel and other rewards upon the redemption of the AIR MILES reward miles issued by those sponsors.

The Company currently has an obligation to provide AIR MILES Reward Program collectors with travel and other rewards upon the redemption of AIR MILES reward miles. The Company believes that the redemption settlement assets, including the letters of credit and other assurances mentioned above, are sufficient to meet that obligation.

The Company has entered into certain long-term arrangements with airlines and other suppliers in connection with reward redemptions under the AIR MILES Reward Program. These long-term arrangements allow the Company to retain preferred pricing subject to meeting agreed upon annual volume commitments for rewards purchased.

Leases

The Company leases certain office facilities and equipment under noncancellable operating leases and is generally responsible for property taxes and insurance related to such facilities. Lease expense was \$111.8 million, \$128.7 million and \$111.3 million for the years ended December 31, 2018, 2017 and 2016, respectively.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Future annual minimum rental payments required under noncancellable operating and capital leases, some of which contain renewal options, as of December 31, 2018, are:

Year	Operating	Capital
	Leases	Leases
	(In millions)	
2019	\$ 91.7	\$ 6.0
2020	85.4	3.5
2021	72.0	2.9
2022	63.2	1.0
2023	58.5	—
Thereafter	324.7	—
Total	\$ 695.5	13.4
Less: Amount representing interest		(0.8)
Total present value of minimum lease payments		\$ 12.6

Regulatory Matters

Comenity Bank is regulated, supervised and examined by the State of Delaware and the Federal Deposit Insurance Corporation (“FDIC”). Comenity Bank remains subject to regulation by the Board of the Governors of the Federal Reserve System. The Company’s industrial bank, Comenity Capital Bank, is regulated, supervised and examined by the State of Utah and the FDIC. As of October 1, 2016, both Comenity Bank and Comenity Capital Bank are under the supervision of the Consumer Financial Protection Bureau (“CFPB”), a federal consumer protection regulator with authority to make further changes to the federal consumer protection laws and regulations, and the CFPB may, from time to time, conduct reviews of their practices.

Quantitative measures established by regulations to ensure capital adequacy require Comenity Bank and Comenity Capital Bank (collectively, the “Banks”) to maintain minimum amounts and ratios of Common Equity Tier 1, Tier 1 and total capital to risk weighted assets and of Tier 1 capital to average assets. Based on these guidelines, the Banks are considered well capitalized.

The actual capital ratios and minimum ratios as of December 31, 2018 are as follows:

	Actual	Minimum Ratio for Capital Adequacy Purposes	Minimum Ratio to be Well Capitalized under Prompt Corrective Action Provisions
Comenity Bank			
Tier 1 capital to average assets	13.1 %	4.0 %	5.0 %
Common Equity Tier 1 capital to risk-weighted assets	14.6	4.5	6.5
Tier 1 capital to risk-weighted assets	14.6	6.0	8.0
Total capital to risk-weighted assets	15.9	8.0	10.0
Comenity Capital Bank			
Tier 1 capital to average assets	12.1 %	4.0 %	5.0 %
Common Equity Tier 1 capital to risk-weighted assets	14.4	4.5	6.5
Tier 1 capital to risk-weighted assets	14.4	6.0	8.0
Total capital to risk-weighted assets	15.7	8.0	10.0

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The actual capital ratios and minimum ratios as of December 31, 2017 are as follows:

	Actual	Minimum Ratio for Capital Adequacy Purposes	Minimum Ratio to be Well Capitalized under Prompt Corrective Action Provisions
Comenity Bank			
Tier 1 capital to average assets	12.3 %	4.0 %	5.0 %
Common Equity Tier 1 capital to risk-weighted assets	13.5	4.5	6.5
Tier 1 capital to risk-weighted assets	13.5	6.0	8.0
Total capital to risk-weighted assets	14.8	8.0	10.0
Comenity Capital Bank			
Tier 1 capital to average assets	12.4 %	4.0 %	5.0 %
Common Equity Tier 1 capital to risk-weighted assets	14.0	4.5	6.5
Tier 1 capital to risk-weighted assets	14.0	6.0	8.0
Total capital to risk-weighted assets	15.3	8.0	10.0

Cardholders

The Company's Card Services segment is active in originating private label and co-brand credit cards in the United States. The Company reviews each potential customer's credit application and evaluates the applicant's financial history and ability and perceived willingness to repay. Credit card loans are made primarily on an unsecured basis. Cardholders reside throughout the United States and are not significantly concentrated in any one area.

Holders of credit cards issued by the Company have available lines of credit, which vary by cardholder. These lines of credit represent elements of risk in excess of the amount recognized in the financial statements. The lines of credit are subject to change or cancellation by the Company. At December 31, 2018, the Company had 59.4 million total accounts, including both active and inactive, having unused lines of credit averaging \$2,210 per account.

Legal Proceedings

From time to time the Company is involved in various claims and lawsuits arising in the ordinary course of business that it believes will not have a material effect on its business, financial condition or cash flows, including claims and lawsuits alleging breaches of the Company's contractual obligations.

15. STOCKHOLDERS' EQUITY

Stock Repurchase Programs

In January 2016, the Company's Board of Directors authorized a stock repurchase program to acquire up to \$500.0 million of the Company's outstanding common stock from January 1, 2016 through December 31, 2016. In February 2016, the Board of Directors authorized an increase to the stock repurchase program originally approved on January 1, 2016 to acquire an additional \$500.0 million of the Company's outstanding common stock through December 31, 2016, for a total authorization of \$1.0 billion.

In January 2017, the Company's Board of Directors authorized a stock repurchase program to acquire up to \$500.0 million of the Company's outstanding common stock from January 1, 2017 through December 31, 2017. In July 2017, the Company's Board of Directors authorized an increase to the stock repurchase program originally approved on January 1, 2017 to acquire an additional \$500.0 million of the Company's outstanding common stock through July 31, 2018, for a total stock repurchase authorization of up to \$1.0 billion. At July 31, 2018, \$280.3 million of this program expired unused.

On July 26, 2018, the Company's Board of Directors authorized a new stock repurchase program to acquire up to \$500.0 million of the Company's outstanding common stock from August 1, 2018 through July 31, 2019.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

For the year ended December 31, 2018, the Company acquired approximately 2.2 million shares of its common stock for \$443.2 million under its respective stock repurchase programs. The Company acquired approximately 0.8 million shares of its common stock for \$166.0 million under its previous stock repurchase program and acquired approximately 1.4 million shares of its common stock for \$277.2 million under its current stock repurchase program.

As of December 31, 2018, the Company had \$222.8 million remaining under its current stock repurchase program.

During the years ended December 31, 2017 and 2016, the Company repurchased approximately 2.3 million and 3.8 million shares of its common stock, respectively, for an aggregate amount of \$553.7 million and \$805.7 million, respectively.

Stock Compensation Plans

The Company has adopted equity compensation plans to advance the interests of the Company by rewarding certain employees for their contributions to the financial success of the Company and thereby motivating them to continue to make such contributions in the future.

The 2010 Omnibus Incentive Plan became effective July 1, 2010 and reserved 3,000,000 shares of common stock for grants of nonqualified stock options, incentive stock options, stock appreciation rights, restricted stock, restricted stock units, performance share awards, cash incentive awards, deferred stock units, and other stock-based and cash-based awards to selected officers, employees, non-employee directors and consultants who performed services for the Company or its affiliates, with only employees eligible to receive incentive stock options. The 2010 Omnibus Incentive Plan expired on June 30, 2015.

In March 2015, the Company's Board of Directors adopted the 2015 Omnibus Incentive Plan (the "2015 Plan"), which was subsequently approved by the Company's stockholders on June 3, 2015. The 2015 Plan became effective July 1, 2015 and expires on June 30, 2020. The 2015 Plan reserves 5,100,000 shares of common stock for grants of nonqualified stock options, incentive stock options, stock appreciation rights, restricted stock, restricted stock units, performance share awards, cash incentive awards, deferred stock units, and other stock-based and cash-based awards to selected officers, employees, non-employee directors and consultants performing services for the Company or its affiliates, with only employees being eligible to receive incentive stock options.

On June 5, 2015, the Company registered 5,100,000 shares of its common stock for issuance in accordance with the 2015 Plan pursuant to a Registration Statement on Form S-8, File No. 333-204758.

Beginning February 15, 2017, the restricted stock unit award agreements under the 2015 Plan provide for dividend equivalent rights (“DERs”), which entitle holders of restricted stock units to the same dividend value per share as holders of common stock. DERs are subject to the same vesting and other terms and conditions as the corresponding unvested restricted stock units. DERs are paid only when the underlying shares vest.

Terms of all awards under the 2015 Plan are determined by the Board of Directors or the compensation committee of the Board of Directors or its designee at the time of award.

Stock Compensation Expense

Under the fair value recognition provisions, stock-based compensation expense is measured at the grant date based on the fair value of the award and is recognized ratably over the requisite service period.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Total stock-based compensation expense recognized in the Company's consolidated statements of income for the years ended December 31, 2018, 2017 and 2016, is as follows:

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Cost of operations	\$ 57.5	\$ 50.3	\$ 56.0
General and administrative	23.3	24.8	20.5
Total	\$ 80.8	\$ 75.1	\$ 76.5

The income tax benefits related to stock-based compensation expense for the years ended December 31, 2018, 2017 and 2016 were \$15.4 million, \$15.6 million and \$22.7 million, respectively.

As the amount of stock-based compensation expense recognized is based on awards ultimately expected to vest, the amount recognized in the Company's results of operations has been reduced for estimated forfeitures. In connection with the Company's adoption of ASU 2016-09, the Company elected to continue to estimate forfeitures at each grant date, with forfeiture estimates to be revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Forfeitures were estimated based on the Company's historical experience. The Company's forfeiture rate was 5% for the years ended December 31, 2018, 2017 and 2016. As of December 31, 2018, there was approximately \$88.6 million of unrecognized expense, adjusted for estimated forfeitures, related to non-vested, stock-based equity awards granted to employees, which is expected to be recognized over a weighted average period of approximately 1.4 years.

Restricted Stock Unit Awards

During 2018, the Company awarded service-based, performance-based and market-based restricted stock units. In accordance with ASC 718, the Company recognizes the estimated stock-based compensation expense, net of estimated forfeitures, over the applicable service period.

For service-based and performance-based awards, the fair value of the restricted stock units was estimated using the Company's closing share price on the date of grant. Service-based restricted stock unit awards typically vest ratably over a three year period. Performance-based restricted stock unit awards typically vest ratably over a three year period

if specified performance measures tied to the Company's financial performance are met.

For the market-based award granted in 2018, the fair value of the restricted stock units was estimated utilizing Monte Carlo simulations of the Company's stock price correlation (0.43), expected volatility (27.1%) and risk-free rate (2.2%) over two-year time horizons matching the performance period. Upon determination of the market condition, the restrictions will lapse with respect to the entire award on February 15, 2020, provided that the participant is employed by the Company on such vesting date.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The following table summarizes restricted stock unit activity under the Company's equity compensation plans:

	Market- Based	Performance- Based	Service- Based	Total	Weighted Average Fair Value
Balance at January 1, 2016	—	446,366	275,538	721,904	\$ 238.37
Shares granted	—	277,036	175,456	452,492	195.97
Shares vested	—	(233,604)	(95,829)	(329,433)	230.21
Shares forfeited	—	(45,479)	(22,787)	(68,266)	246.28
Balance at December 31, 2016	—	444,319	332,378	776,697	\$ 216.89
Shares granted	28,172	282,311	126,051	436,534	229.37
Shares vested	—	(188,929)	(96,723)	(285,652)	248.70
Shares forfeited (1)	—	(87,122)	(32,647)	(119,769)	211.69
Balance at December 31, 2017	28,172	450,579	329,059	807,810	\$ 207.45
Shares granted	28,057	263,542	138,160	429,759	233.98
Shares vested	—	(188,680)	(130,823)	(319,503)	224.62
Shares forfeited	—	(102,199)	(18,955)	(121,154)	227.66
Balance at December 31, 2018	56,229	423,242	317,441	796,912	\$ 218.81
Outstanding and Expected to Vest				703,186	\$ 239.98

(1) Includes the cancellation of 50,215 performance-based shares granted in 2016 and accounted for as such under ASC 718.

The total fair value of restricted stock units vested was \$71.8 million, \$71.0 million and \$75.8 million for the years ended December 31, 2018, 2017 and 2016, respectively. The aggregate intrinsic value of restricted stock units outstanding and expected to vest was \$105.5 million at December 31, 2018. The weighted-average remaining contractual life for unvested restricted stock units was 1.4 years at December 31, 2018.

Stock Options

Stock option awards are granted with an exercise price equal to the market price of the Company's stock on the date of grant. Options typically vest ratably over three years and expire ten years after the date of grant.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

The following table summarizes stock option activity under the Company's equity compensation plans:

	Outstanding		Exercisable	
	Options	Weighted Average Exercise Price	Options	Weighted Average Exercise Price
Balance at January 1, 2016	73,360	\$ 49.84	73,053	\$ 49.96
Options granted	—	—		
Options exercised	(54,275)	54.21		
Options forfeited	(219)	20.16		
Balance at December 31, 2016	18,866	\$ 37.60	18,864	\$ 37.60
Options granted	—	—		
Options exercised	(7,004)	60.85		
Options forfeited	(3)	35.56		
Balance at December 31, 2017	11,859	\$ 23.87	11,859	\$ 23.87
Options granted	—	—		
Options exercised	(886)	12.70		
Options forfeited	(119)	2.74		
Balance at December 31, 2018	10,854	\$ 25.01	10,854	\$ 25.01
Vested and Expected to Vest	10,854	\$ 25.01		

Based on the market value on their respective exercise dates, the total intrinsic value of stock options exercised was approximately \$0.2 million, \$1.2 million and \$8.5 million for the years ended December 31, 2018, 2017 and 2016, respectively. The aggregate intrinsic value of the outstanding and exercisable stock options as of December 31, 2018 was approximately \$1.4 million. The weighted average remaining contractual life of stock options vested and exercisable as of December 31, 2018 was approximately 2.1 years. The Company received a de minimis amount of cash proceeds from stock options exercised during the year ended December 31, 2018.

Dividends

During the year ended December 31, 2018, the Company declared quarterly cash dividends of \$0.57 per share, for a total of \$125.9 million. The Company paid cash dividends and dividend equivalents aggregating \$125.2 million for the year ended December 31, 2018, and \$0.7 million of dividend equivalents were accrued but not yet paid at December 31, 2018.

During the year ended December 31, 2017, the Company declared quarterly cash dividends of \$0.52 per share, for a total of \$116.4 million. The Company paid cash dividends aggregating \$115.5 million for the year ended December 31, 2018, and \$0.9 million of dividend equivalents were accrued but not yet paid at December 31, 2017.

On February 7, 2019, the Company's Board of Directors declared a quarterly cash dividend of \$0.63 per share on the Company's common stock, payable on March 19, 2019 to stockholders of record at the close of business on February 21, 2019.

16. EMPLOYEE BENEFIT PLANS

Employee Stock Purchase Plan

In March 2015, the Company's Board of Directors adopted the 2015 Employee Stock Purchase Plan (the "2015 ESPP"), which was subsequently approved by the Company's stockholders on June 3, 2015. The 2015 ESPP became effective July 1, 2015 with no definitive expiration date. The Company's Board of Directors may at any time and for any reason terminate or amend the 2015 ESPP. No employee may purchase more than \$25,000 in stock under the 2015 ESPP in any calendar year, and no employee may purchase stock under the 2015 ESPP if such purchase would cause the employee to own more than 5% of the voting power or value of the Company's common stock. The 2015 ESPP provides for six month offering periods, commencing on the first trading day of the first and third calendar quarter of each year

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

and ending on the last trading day of each subsequent calendar quarter. The purchase price of the common stock upon exercise shall be 85% of the fair market value of shares on the applicable purchase date as determined by averaging the high and low trading prices of the last trading day of the six-month period. An employee may elect to pay the purchase price of such common stock through payroll deductions. The 2015 ESPP provides for the issuance of any remaining shares available for issuance under the 2005 ESPP, which were 441,327 shares at June 30, 2015. The 2015 ESPP reserved an additional 1,000,000 shares of the Company's common stock for issuance under the 2015 Plan, bringing the maximum number of shares reserved for issuance under the 2015 ESPP to 1,441,327 shares, subject to adjustment as provided in the 2015 ESPP.

On June 5, 2015, the Company registered 1,441,327 shares of its common stock for issuance in accordance with the 2015 ESPP pursuant to a Registration Statement on Form S-8, File No. 333-204759.

During the year ended December 31, 2018, the Company issued 109,414 shares of common stock under the 2015 ESPP at a weighted-average issue price of \$160.41. Since its adoption on July 1, 2015, 341,515 shares of common stock have been issued, with 1,099,812 shares available for issuance under the 2015 ESPP.

2015 Omnibus Incentive Plan

The 2015 Omnibus Incentive Plan authorizes the compensation committee to grant cash-based and other equity-based or equity-related awards, including deferred stock units. The maximum cash amount that may be awarded to any single participant in any one calendar year may not exceed \$7.5 million. See Note 15, "Stockholders' Equity," for more information about the 2015 Plan.

401(k) Retirement Savings Plan

The Alliance Data Systems 401(k) and Retirement Savings Plan is a defined contribution plan that is qualified under Section 401(k) of the Internal Revenue Code of 1986. The Company amended its 401(k) and Retirement Savings Plan effective December 10, 2014. The 401(k) and Retirement Savings Plan is an IRS-approved safe harbor plan design that eliminates the need for most discrimination testing. Eligible employees can participate in the 401(k) and Retirement Savings Plan immediately upon joining the Company and after 180 days of employment begin receiving company matching contributions. In addition, "seasonal" or "on-call" employees must complete a year of eligibility

service before they may participate in the 401(k) and Retirement Savings Plan. The 401(k) and Retirement Savings Plan permits eligible employees to make Roth elective deferrals, effective November 1, 2012, which are included in the employee's taxable income at the time of contribution, but not when distributed. Regular, or Non-Roth, elective deferrals made by employees, together with contributions by the Company to the 401(k) and Retirement Savings Plan, and income earned on these contributions, are not taxable to employees until withdrawn from the 401(k) and Retirement Savings Plan. The 401(k) and Retirement Savings Plan covers U.S. employees, who are at least 18 years old, of ADS Alliance Data Systems, Inc., one of the Company's wholly-owned subsidiaries, and any other subsidiary or affiliated organization that adopts this 401(k) and Retirement Savings Plan. Employees of the Company, and all of its U.S. subsidiaries, are currently covered under the 401(k) and Retirement Savings Plan.

The Company matches an employee's contribution dollar-for-dollar up to five percent of the employee's eligible compensation. All company matching contributions are immediately vested. Company matching contributions for the years ended December 31, 2018, 2017 and 2016 were \$44.8 million, \$41.6 million and \$38.0 million, respectively.

The participants in the plan can direct their contributions and the Company's matching contribution to numerous investment options, including the Company's common stock. On July 20, 2001, the Company registered 1,500,000 shares of its common stock for issuance in accordance with its 401(k) and Retirement Savings Plan pursuant to a Registration Statement on Form S-8, File No. 333-65556. As of December 31, 2018, 518,604 of such shares remain available for issuance.

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Group Retirement Savings Plan and Deferred Profit Sharing Plan (LoyaltyOne)

The Company provides for its Canadian employees the Group Retirement Savings Plan of the Loyalty Group (“GRSP”), which is a group retirement savings plan registered with the Canada Revenue Agency. Contributions made by Canadian employees on their behalf or on behalf of their spouse to the GRSP, and income earned on these contributions, are not taxable to employees until withdrawn from the GRSP. Employee contributions eligible for company match may not exceed the overall maximum allowed by the Income Tax Act (Canada); the maximum tax-deductible GRSP contribution is set by the Canada Revenue Agency each year. The Deferred Profit Sharing Plan (“DPSP”) is a legal trust registered with the Canada Revenue Agency. Eligible full-time employees can participate in the GRSP after three months of employment and eligible part-time employees after six months of employment. Employees become eligible to receive company matching contributions into the DPSP on the first day of the calendar quarter following twelve months of employment. Based on the eligibility guidelines, the Company matches an employee’s contribution dollar-for-dollar up to five percent of the employee’s eligible compensation. Contributions made to the DPSP reduce an employee’s maximum contribution amounts to the GRSP under the Income Tax Act (Canada) for the following year. All company matching contributions into the DPSP vest after receipt of one continuous year of DPSP contributions. LoyaltyOne matching and discretionary contributions were \$1.7 million, \$1.9 million and \$1.8 million for the years ended December 31, 2018, 2017 and 2016, respectively.

Executive Deferred Compensation Plan and the Canadian Supplemental Executive Retirement Plan

The Company also maintains an Executive Deferred Compensation Plan (“EDCP”). The EDCP permits a defined group of management and highly compensated employees to defer on a pre-tax basis a portion of their base salary and incentive compensation (as defined in the EDCP) payable for services rendered. Deferrals under the EDCP are unfunded and subject to the claims of the Company’s creditors. Each participant in the EDCP is 100% vested in their account, and account balances accrue interest at a rate established and adjusted periodically by the committee that administers the EDCP.

The Company provides a Canadian Supplemental Executive Retirement Plan for a defined group of management and highly compensated employees of LoyaltyOne, Co., one of the Company’s wholly-owned subsidiaries. Similar to the EDCP, participants may defer on a pre-tax basis a portion of their compensation and bonuses payable for services rendered and to receive certain employer contributions.

As of December 31, 2018 and 2017, the Company's outstanding liability related to these plans and included in accrued expenses in the Company's consolidated balance sheets was \$63.2 million and \$55.3 million, respectively.

17. ACCUMULATED OTHER COMPREHENSIVE LOSS

The changes in each component of accumulated other comprehensive loss, net of tax effects, are as follows:

	Net Unrealized Gains (Losses)	Net Unrealized Gains (Losses) on Cash Flow Hedges	Net Unrealized Gains (Losses) on Net Investment Hedges	Foreign Currency Translation Adjustments (1)	Accumulated Other Comprehensive Loss
Balance as of January 1, 2016	\$ (0.1)	\$ 1.3	\$ (3.8)	\$ (134.7)	\$ (137.3)
Changes in other comprehensive income (loss)	(1.5)	(0.9)	7.9	(18.9)	(13.4)
Balance at December 31, 2016	\$ (1.6)	\$ 0.4	\$ 4.1	\$ (153.6)	\$ (150.7)
Changes in other comprehensive income (loss)	(7.1)	(0.5)	(46.1)	64.2	10.5
Balance at December 31, 2017	\$ (8.7)	\$ (0.1)	\$ (42.0)	\$ (89.4)	\$ (140.2)
Changes in other comprehensive income (loss)	(2.0)	(0.1)	29.6	(25.4)	2.1
Balance at December 31, 2018	\$ (10.7)	\$ (0.2)	\$ (12.4)	\$ (114.8)	\$ (138.1)

(1) Primarily related to the impact of changes in the Canadian dollar and Euro foreign currency exchange rates.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Reclassifications from accumulated other comprehensive loss into net income for each of the periods presented were not material. Additionally, as of January 1, 2018, a cumulative-effect adjustment of \$1.5 million, net of tax, was reclassified from accumulated other comprehensive loss to retained earnings related to the adoption of ASU 2016-01, “Recognition and Measurement of Financial Assets and Financial Liabilities.” For more information, see Note 2, “Summary of Significant Accounting Policies.”

18. INCOME TAXES

The Company files a consolidated federal income tax return. The components of income before income taxes and income tax expense are as follows:

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Components of income before income taxes:			
Domestic	\$ 1,046.6	\$ 889.9	\$ 864.1
Foreign	177.1	191.2	(27.1)
Total	\$ 1,223.7	\$ 1,081.1	\$ 837.0
Components of income tax expense:			
Current			
Federal	\$ 130.2	\$ 316.7	\$ 269.8
State	61.1	30.3	42.2
Foreign	53.0	59.2	38.2
Total current	244.3	406.2	350.2
Deferred			
Federal	56.1	(96.7)	2.2
State	18.2	1.0	2.4
Foreign	(58.0)	(18.1)	(35.4)
Total deferred	16.3	(113.8)	(30.8)
Total provision for income taxes	\$ 260.6	\$ 292.4	\$ 319.4

A reconciliation of recorded federal provision for income taxes to the expected amount computed by applying the federal statutory rate for all periods to income before income taxes is as follows:

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Expected expense at statutory rate	\$ 257.0	\$ 378.4	\$ 292.9
Increase (decrease) in income taxes resulting from:			
State income taxes, net of federal benefit	62.6	19.5	29.0
Foreign rate differential	10.4	(27.5)	(1.3)
Foreign restructuring	(48.0)	—	—
Impact of 2017 Tax Reform	(29.7)	(64.9)	—
Non-deductible expenses (non-taxable income)	3.4	(5.8)	1.5
Other	4.9	(7.3)	(2.7)
Total	\$ 260.6	\$ 292.4	\$ 319.4

H.R. 1, originally known as the Tax Cuts and Jobs Act of 2017 (the “2017 Tax Reform”) was enacted on December 22, 2017. The 2017 Tax Reform permanently reduced the corporate tax rate to 21% from 35%, effective January 1, 2018 and implemented a change from a system of worldwide taxation with deferral to a hybrid territorial system. For the year ended December 31, 2018, the Company recorded an income tax benefit of approximately \$29.7 million related to the impact of the 2017 Tax Reform rate differential as a result of certain tax accounting method changes related to projects initiated in 2018.

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Deferred tax assets and liabilities consist of the following:

	December 31,	
	2018	2017
	(In millions)	
Deferred tax assets		
Deferred revenue	\$ 10.6	\$ 18.5
Allowance for doubtful accounts	267.0	282.4
Net operating loss carryforwards and other carryforwards	60.8	97.0
Stock-based compensation and other employee benefits	24.4	23.2
Accrued expenses and other	66.3	84.5
Total deferred tax assets	429.1	505.6
Valuation allowance	(36.3)	(76.4)
Deferred tax assets, net of valuation allowance	392.8	429.2
Deferred tax liabilities		
Deferred income	\$ 409.8	\$ 364.3
Depreciation	79.2	37.9
Intangible assets	113.4	210.1
Total deferred tax liabilities	602.4	612.3
Net deferred tax liability	\$ (209.6)	\$ (183.1)
Amounts recognized in the consolidated balance sheets:		
Non-current assets	\$ 47.0	\$ 28.1
Non-current liabilities	(256.6)	(211.2)
Total – Net deferred tax liability	\$ (209.6)	\$ (183.1)

At December 31, 2018, included in the Company's U.S. tax returns are approximately \$15.7 million of U.S. federal net operating loss carryovers ("NOLs") and approximately \$33.8 million of foreign tax credits that expire at various times through the year 2034. Pursuant to Section 382 of the Internal Revenue Code, the Company's utilization of such NOLs is subject to an annual limitation. At December 31, 2018, the Company has state income tax NOLs of approximately \$363.7 million and state credits of approximately \$10.0 million available to offset future state taxable income. The state NOLs and credits will expire at various times through the year 2037. The Company has \$128.1 million of foreign NOLs, \$4.1 million of foreign capital losses, and \$3.1 million of a foreign minimum alternative tax credit at December 31, 2018. The foreign NOLs and capital losses have an unlimited carryforward period and the foreign minimum alternative tax credit expires at various times through 2033. The Company does not believe it is more likely than not that the NOLs or capital losses will be utilized and has therefore, in accordance with ASC 740-10-30, "Income Taxes—Overall—Initial Measurement," established a full valuation allowance against them. The Company's valuation allowance decreased \$40.1 million during the year ended December 31, 2018, due primarily to the utilization of a tax

carryforward to offset an unrecognized tax benefit. The Company's valuation allowance increased \$31.7 million and \$2.5 million during the years ended December 31, 2017 and 2016, respectively.

U.S. income tax has not been recognized on the excess of the amount for financial reporting over the tax basis of investments in certain foreign subsidiaries that is indefinitely reinvested outside the United States. The Company intends to permanently reinvest the undistributed earnings of these foreign subsidiaries in its operations outside the United States to support its international growth. As of December 31, 2018, the excess is approximately \$146.8 million. Generally, the taxes associated with the \$146.8 million of undistributed earnings will not be subject to further U.S. income taxes and any additional state and local or foreign withholding taxes are immaterial.

Should certain substantial changes in the Company's ownership occur, there could be an annual limitation on the amount of carryovers and credits that can be utilized. The impact of such a limitation would likely not be significant.

As a result of the adoption of ASU 2016-09 in 2017, the net tax benefit or expense resulting from the vesting of restricted shares and other employee stock programs is now recorded as a component of income tax expense. Prior to the

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adoption of ASU 2016-09, the net tax expense related to stock-based compensation recorded in additional paid-in capital was approximately \$1.7 million for the year ended December 31, 2016.

The net tax impact of the change in the carrying value of the Euro-denominated Senior Notes due 2022 and 2023 due to foreign exchange fluctuations that was recorded directly to other comprehensive income was an expense of \$9.5 million, a benefit of \$26.2 million and an expense of \$2.4 million for the years ended December 31, 2018, 2017 and 2016, respectively.

A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows (in millions):

Balance at January 1, 2016	\$ 156.6
Increases related to prior years' tax positions	22.5
Decreases related to prior years' tax positions	(12.1)
Increases related to current year tax positions	31.4
Settlements during the period	(3.1)
Lapses of applicable statutes of limitation	(3.3)
Balance at December 31, 2016	\$ 192.0
Increases related to prior years' tax positions	9.3
Decreases related to prior years' tax positions	(15.7)
Increases related to current year tax positions	33.0
Settlements during the period	(6.7)
Lapses of applicable statutes of limitation	(3.6)
Balance at December 31, 2017	\$ 208.3
Increases related to prior years' tax positions	41.3
Decreases related to prior years' tax positions	(9.6)
Increases related to current year tax positions	61.5
Settlements during the period	(1.0)
Lapses of applicable statutes of limitation	(4.2)
Balance at December 31, 2018	\$ 296.3

Included in the balance at December 31, 2018 are tax positions reclassified from deferred income taxes. Deductibility or taxability is highly certain for these tax positions but there is uncertainty about the timing of such deductibility or taxability. As a result of the passage of the 2017 Tax Reform, any rate differential between the reserved tax position and the related deferred tax asset or liability, along with interest and penalties, could impact the annual effective tax rate. This timing uncertainty could also accelerate the payment of cash to the taxing authority to an earlier period.

The Company recognizes potential accrued interest and penalties related to unrecognized tax benefits in income tax expense. The Company has potential cumulative interest and penalties with respect to unrecognized tax benefits of approximately \$66.7 million, \$41.6 million and \$39.4 million at December 31, 2018, 2017 and 2016, respectively. For the years ended December 31, 2018, 2017 and 2016, the Company recorded approximately \$24.4 million, \$5.5 million and \$8.1 million, respectively, in potential interest and penalties with respect to unrecognized tax benefits.

At December 31, 2018, 2017 and 2016, the Company had unrecognized tax benefits of approximately \$247.7 million, \$170.0 million and \$121.4 million, respectively that, if recognized, would impact the effective tax rate. It is likely that there will be a change in the amount of unrecognized tax benefits within the next 12 months related to a tax accounting method change in 2019. We estimate that this change in unrecognized tax benefits within the next 12 months could be a decrease of up to approximately \$70 million, a significant portion of which relates to timing items that would not have an impact to the effective tax rate.

The Company files income tax returns in the U.S. federal jurisdiction and in many state and foreign jurisdictions. With some exceptions, the tax returns filed by the Company are no longer subject to U.S. federal income tax examinations for the years before 2015, state and local examinations for years before 2014 or foreign income tax examinations for years before 2013.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

19. FINANCIAL INSTRUMENTS

In accordance with ASC 825, “Financial Instruments,” the Company is required to disclose the fair value of financial instruments for which it is practical to estimate fair value. To obtain fair values, observable market prices are used if available. In some instances, observable market prices are not readily available and fair value is determined using present value or other techniques appropriate for a particular financial instrument. These techniques involve judgment and as a result are not necessarily indicative of the amounts the Company would realize in a current market exchange. The use of different assumptions or estimation techniques may have a material effect on the estimated fair value amounts.

Fair Value of Financial Instruments—The estimated fair values of the Company’s financial instruments are as follows:

	December 31, 2018		December 31, 2017	
	Carrying Amount	Fair Value	Carrying Amount	Fair Value
	(In millions)			
Financial assets				
Credit card and loan receivables, net	\$ 16,816.7	\$ 17,472.7	\$ 17,494.5	\$ 18,427.8
Credit card and loan receivables held for sale	1,951.6	1,995.5	1,026.3	1,067.6
Redemption settlement assets, restricted	558.6	558.6	589.5	589.5
Other investments	291.3	291.3	254.9	254.9
Derivative instruments	3.8	3.8	16.0	16.0
Financial liabilities				
Derivative instruments	0.3	0.3	3.8	3.8
Deposits	11,793.7	11,768.7	10,930.9	10,937.1
Non-recourse borrowings of consolidated securitization entities	7,651.7	7,626.9	8,807.3	8,805.3
Long-term and other debt	5,737.9	5,767.8	6,079.6	6,186.4

The following techniques and assumptions were used by the Company in estimating fair values of financial instruments as disclosed herein:

Credit card and loan receivables, net — The Company utilizes a discounted cash flow model using unobservable inputs, including estimated yields (interest and fee income), loss rates, payment rates and discount rates to estimate the fair value measurement of the credit card and loan receivables.

Credit card and loan receivables held for sale — The Company utilizes a discounted cash flow model using unobservable inputs, including forecasted yields and net charge-off estimates to estimate the fair value measurement of the credit card portfolios held for sale. Loan receivables held for sale are recorded at the lower of cost or fair value, and their carrying amount approximates fair value due to the short duration of the holding period of the loan receivables prior to sale.

Redemption settlement assets, restricted — Redemption settlement assets, restricted are recorded at fair value based on quoted market prices for the same or similar securities.

Other investments — Other investments consist of marketable securities and U.S. Treasury bonds and are included in other current assets and other non-current assets in the consolidated balance sheets. Other investments are recorded at fair value based on quoted market prices for the same or similar securities.

Deposits — The fair value is estimated based on the current observable market rates available to the Company for similar deposits with similar remaining maturities.

Non-recourse borrowings of consolidated securitization entities — The fair value is estimated based on the current observable market rates available to the Company for similar debt instruments with similar remaining maturities or quoted market prices for the same transaction.

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Long-term and other debt — The fair value is estimated based on the current observable market rates available to the Company for similar debt instruments with similar remaining maturities or quoted market prices for the same transaction.

Derivative instruments — The Company’s foreign currency cash flow hedges are recorded at fair value based on a discounted cash flow analysis on the expected cash flows of each derivative. This analysis reflected the contractual terms of the derivatives, including the period to maturity, and used observable market-based inputs. The fair value of the foreign currency forward contracts is estimated based on published quotations of spot foreign currency rates and forward points which are converted into implied foreign currency rates.

Financial Assets and Financial Liabilities Fair Value Hierarchy

ASC 820, “Fair Value Measurements and Disclosures,” establishes a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value. These tiers include:

- Level 1, defined as observable inputs such as quoted prices in active markets;
- Level 2, defined as inputs other than quoted prices in active markets that are either directly or indirectly observable; and
- Level 3, defined as unobservable inputs where little or no market data exists, therefore requiring an entity to develop its own assumptions.

Financial instruments are considered Level 3 when their values are determined using pricing models, discounted cash flow methodologies or similar techniques and at least one significant model assumption or input is unobservable. Level 3 financial instruments also include those for which the determination of fair value requires significant management judgment or estimation. The use of different techniques to determine fair value of these financial instruments could result in different estimates of fair value at the reporting date.

The following tables provide information for the assets and liabilities carried at fair value measured on a recurring basis as of December 31, 2018 and 2017:

	Fair Value Measurements at December 31, 2018 Using		
Balance at December 31, 2018	Level 1	Level 2	Level 3

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	(In millions)			
Mutual funds (1)	\$ 23.2	\$ 23.2	\$ —	\$ —
Corporate bonds (1)	491.5	—	491.5	—
Marketable securities (2)	266.4	25.0	241.4	—
U.S. Treasury bonds (2)	24.9	24.9	—	—
Derivative instruments (3)	3.8	—	3.8	—
Total assets measured at fair value	\$ 809.8	\$ 73.1	\$ 736.7	\$ —
Derivative instruments (3)	\$ 0.3	\$ —	\$ 0.3	\$ —
Total liabilities measured at fair value	\$ 0.3	\$ —	\$ 0.3	\$ —

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

	Balance at December 31, 2017 (In millions)	Fair Value Measurements at December 31, 2017 Using		
		Level 1	Level 2	Level 3
Mutual funds (1)	\$ 26.0	\$ 26.0	\$ —	\$ —
Corporate bonds (1)	489.2	—	489.2	—
Marketable securities (2)	205.0	10.1	194.9	—
U.S. Treasury bonds (2)	49.9	49.9	—	—
Derivative instruments (3)	16.0	—	16.0	—
Total assets measured at fair value	\$ 786.1	\$ 86.0	\$ 700.1	\$ —
Derivative instruments (3)	\$ 3.8	\$ —	\$ 3.8	\$ —
Total liabilities measured at fair value	\$ 3.8	\$ —	\$ 3.8	\$ —

(1) Amounts are included in redemption settlement assets in the consolidated balance sheets.

(2) Amounts are included in other current assets and other non-current assets in the consolidated balance sheets.

(3) Amounts are included in other current assets and other current liabilities in the consolidated balance sheets.

There were no transfers between Levels 1 and 2 within the fair value hierarchy for the years ended December 31, 2018 and 2017.

Financial Instruments Disclosed but Not Carried at Fair Value

The following tables provide assets and liabilities disclosed but not carried at fair value as of December 31, 2018 and 2017:

Financial assets:	Fair Value Measurements at December 31, 2018			
	Total	Level 1	Level 2	Level 3
	(In millions)			

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Credit card and loan receivables, net	\$ 17,472.7	\$ —	\$ —	\$ 17,472.7
Credit card and loan receivables held for sale	1,995.5	—	—	1,995.5
Total	\$ 19,468.2	\$ —	\$ —	\$ 19,468.2
Financial liabilities:				
Deposits	\$ 11,768.7	\$ —	\$ 11,768.7	\$ —
Non-recourse borrowings of consolidated securitization entities	7,626.9	—	7,626.9	—
Long-term and other debt	5,767.8	—	5,767.8	—
Total	\$ 25,163.4	\$ —	\$ 25,163.4	\$ —

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

	Fair Value Measurements at December 31, 2017			
	Total (In millions)	Level 1	Level 2	Level 3
Financial assets:				
Credit card and loan receivables, net	\$ 18,427.8	\$ —	\$ —	\$ 18,427.8
Credit card and loan receivables held for sale	1,067.6	—	—	1,067.6
Total	\$ 19,495.4	\$ —	\$ —	\$ 19,495.4
Financial liabilities:				
Deposits	\$ 10,937.1	\$ —	\$ 10,937.1	\$ —
Non-recourse borrowings of consolidated securitization entities	8,805.3	—	8,805.3	—
Long-term and other debt	6,186.4	—	6,186.4	—
Total	\$ 25,928.8	\$ —	\$ 25,928.8	\$ —

20. PARENT-ONLY FINANCIAL STATEMENTS

The following ADSC financial statements are provided in accordance with the rules of the Securities and Exchange Commission, which require such disclosure when the restricted net assets of consolidated subsidiaries exceed 25 percent of consolidated net assets. Certain of the Company's subsidiaries may be restricted in distributing cash or other assets to ADSC, which could be utilized to service its indebtedness. The stand-alone parent-only financial statements are presented below.

Balance Sheets

	December 31,	
	2018	2017
	(In millions)	
Assets:		
Cash and cash equivalents	\$ 0.1	\$ 0.1
Investment in subsidiaries	8,606.0	8,203.9
Other assets	20.1	95.3

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Total assets	\$ 8,626.2	\$ 8,299.3
Liabilities:		
Current debt	\$ 114.4	\$ 76.2
Long-term debt	5,427.7	5,797.5
Intercompany liabilities	395.9	177.8
Other liabilities	356.1	392.5
Total liabilities	6,294.1	6,444.0
Stockholders' equity	2,332.1	1,855.3
Total liabilities and stockholders' equity	\$ 8,626.2	\$ 8,299.3

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Statements of Income

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Interest from loans to subsidiaries	\$ 17.9	\$ 13.8	\$ 11.8
Dividends from subsidiaries	810.1	360.6	438.4
Total revenue	828.0	374.4	450.2
Interest expense, net	281.2	278.9	214.9
Other expenses, net	(0.4)	12.9	(1.3)
Total expenses	280.8	291.8	213.6
Income before income taxes and equity in undistributed net income of subsidiaries	547.2	82.6	236.6
Benefit for income taxes	7.0	322.7	75.2
Income before equity in undistributed net income of subsidiaries	554.2	405.3	311.8
Equity in undistributed net income of subsidiaries	408.9	383.4	205.8
Net income	\$ 963.1	\$ 788.7	\$ 517.6

Statements of Comprehensive Income

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Net income	\$ 963.1	\$ 788.7	\$ 517.6
Other comprehensive (loss) income, net of tax	29.6	(46.1)	6.6
Total comprehensive income, net of tax	\$ 992.7	\$ 742.6	\$ 524.2

Statements of Cash Flows

	Years Ended December 31,		
	2018	2017	2016
	(In millions)		
Net cash provided by operating activities	\$ 82.3	\$ 72.3	\$ 2.0
Investing activities:			
Loans to subsidiaries	—	—	(102.0)
Investment in subsidiaries	—	(164.0)	—
Dividends received	810.1	360.6	436.4
Net cash provided by investing activities	810.1	196.6	334.4

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Financing activities:			
Borrowings under debt agreements	4,527.0	7,673.6	3,571.5
Repayments of borrowings	(4,838.3)	(7,232.4)	(3,167.9)
Payment of deferred financing costs	(4.6)	(33.7)	(11.6)
Purchase of treasury shares	(443.2)	(553.7)	(798.8)
Dividends paid	(125.2)	(115.5)	(30.0)
Proceeds from issuance of common stock	17.6	18.4	18.4
Other	(25.7)	(25.6)	(21.9)
Net cash used in financing activities	(892.4)	(268.9)	(440.3)
Change in cash, cash equivalents and restricted cash	—	—	(103.9)
Cash, cash equivalents and restricted cash at beginning of year	0.1	0.1	104.0
Cash, cash equivalents and restricted cash at end of year	\$ 0.1	\$ 0.1	\$ 0.1

The adoption of ASU 2016-18, “Restricted Cash,” on January 1, 2018 had no impact to the parent-only statements of cash flows.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

21. SEGMENT INFORMATION

Operating segments are defined by ASC 280, “Segment Reporting,” as components of an enterprise about which separate financial information is available that is evaluated regularly by the chief operating decision maker in deciding how to allocate resources and in assessing performance. The Company’s chief operating decision maker is the President and Chief Executive Officer. The operating segments are reviewed separately because each operating segment represents a strategic business unit that generally offers different products.

The Company operates in the following reportable segments: LoyaltyOne, Epsilon, and Card Services. Segment operations consist of the following:

- LoyaltyOne provides coalition and short-term loyalty programs through the Company’s Canadian AIR MILES Reward Program and BrandLoyalty;
- Epsilon provides end-to-end, integrated marketing solutions that leverage rich data, analytics, creativity and technology to help clients more effectively acquire, retain and grow relationships with their customers; and
- Card Services provides risk management solutions, account origination, funding, transaction processing, customer care, collections and marketing services for the Company’s private label and co-brand credit card programs.

Corporate and other immaterial businesses are reported collectively as an “all other” category labeled “Corporate/Other.” Income taxes are not allocated to the segments in the computation of segment operating profit for internal evaluation purposes and have also been included in “Corporate/Other.”

Year Ended			Card	Corporate/		
December 31, 2018	LoyaltyOne	Epsilon	Services	Other	Eliminations	Total
	(In millions)					
Revenues	\$ 1,068.4	\$ 2,175.1	\$ 4,597.6	\$ 0.6	\$ (50.5)	\$ 7,791.2
Income (loss) before income taxes	\$ 153.8	\$ 147.0	\$ 1,381.6	\$ (458.7)	\$ —	\$ 1,223.7
Interest expense, net	5.6	0.2	385.9	278.9	—	670.6
Operating income (loss)	159.4	147.2	1,767.5	(179.8)	—	1,894.3
Depreciation and amortization	84.8	293.7	101.1	7.7	—	487.3
	10.0	34.2	13.3	23.3	—	80.8

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Stock compensation expense						
Strategic transaction costs	—	—	—	3.3	—	3.3
Adjusted EBITDA (1)	254.2	475.1	1,881.9	(145.5)	—	2,465.7
Less: Securitization funding costs	—	—	220.2	—	—	220.2
Less: Interest expense on deposits	—	—	165.7	—	—	165.7
Adjusted EBITDA, net (1)	\$ 254.2	\$ 475.1	\$ 1,496.0	\$ (145.5)	\$ —	\$ 2,079.8
Capital expenditures	\$ 34.0	\$ 106.5	\$ 53.8	\$ 5.5	\$ —	\$ 199.8
Total assets	\$ 2,200.2	\$ 4,159.0	\$ 23,904.2	\$ 124.3	\$ —	\$ 30,387.7

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

Year Ended				Corporate/		
December 31, 2017	LoyaltyOne (In millions)	Epsilon	Card Services	Other	Eliminations	Total
Revenues	\$ 1,303.5	\$ 2,272.1	\$ 4,170.6	\$ 0.6	\$ (27.4)	\$ 7,719.4
Income (loss) before income taxes	\$ 161.6	\$ 134.3	\$ 1,235.7	\$ (450.5)	\$ —	\$ 1,081.1
Interest expense, net	5.4	0.2	281.7	277.1	—	564.4
Operating income (loss)	167.0	134.5	1,517.4	(173.4)	—	1,645.5
Depreciation and amortization	81.7	309.7	98.4	7.8	—	497.6
Stock compensation expense	8.0	31.5	10.8	24.8	—	75.1
Adjusted EBITDA (1)	256.7	475.7	1,626.6	(140.8)	—	2,218.2
Less: Securitization funding costs	—	—	156.6	—	—	156.6
Less: Interest expense on deposits	—	—	125.1	—	—	125.1
Adjusted EBITDA, net (1)	\$ 256.7	\$ 475.7	\$ 1,344.9	\$ (140.8)	\$ —	\$ 1,936.5
Capital expenditures	\$ 55.2	\$ 107.2	\$ 54.2	\$ 8.8	\$ —	\$ 225.4
Total assets	\$ 2,215.5	\$ 4,391.8	\$ 23,974.1	\$ 103.4	\$ —	\$ 30,684.8

Year Ended				Corporate/		
December 31, 2016	LoyaltyOne (In millions)	Epsilon	Card Services	Other	Eliminations	Total
Revenues	\$ 1,337.9	\$ 2,155.2	\$ 3,675.0	\$ 0.3	\$ (30.3)	\$ 7,138.1
Income (loss) before income taxes	\$ (27.3)	\$ 123.2	\$ 1,108.0	\$ (366.9)	\$ —	\$ 837.0
Interest expense, net	3.3	—	210.3	214.9	—	428.5
Operating income (loss)	(24.0)	123.2	1,318.3	(152.0)	—	1,265.5
Depreciation and amortization	86.6	325.2	91.2	9.1	—	512.1
	10.1	31.8	14.1	20.5	—	76.5

Stock compensation expense						
Impact of expiry	241.7	—	—	—		241.7
Adjusted EBITDA (1)	314.4	480.2	1,423.6	(122.4)	—	2,095.8
Less: Securitization funding costs	—	—	125.6	—	—	125.6
Less: Interest expense on deposits	—	—	84.7	—	—	84.7
Less: Adjusted EBITDA attributable to non-controlling interest	5.5	—	—	—	—	5.5
Adjusted EBITDA, net (1)	\$ 308.9	\$ 480.2	\$ 1,213.3	\$ (122.4)	\$ —	\$ 1,880.0
Capital expenditures	\$ 31.9	\$ 119.8	\$ 49.4	\$ 5.9	\$ —	\$ 207.0
Total assets	\$ 1,901.7	\$ 4,543.1	\$ 18,949.7	\$ 119.6	\$ —	\$ 25,514.1

(1) Adjusted EBITDA is a non-GAAP financial measure equal to net income, the most directly comparable financial measure based on GAAP plus stock compensation expense, provision for income taxes, interest expense, net, depreciation and other amortization, and amortization of purchased intangibles. In 2018, adjusted EBITDA excluded costs related to the exploration of strategic alternatives for our Epsilon segment. In 2016, adjusted EBITDA excluded the impact of the cancellation of the AIR MILES Reward Program's five-year expiry policy on December 1, 2016.

Adjusted EBITDA, net is also a non-GAAP financial measure equal to adjusted EBITDA less securitization funding costs, interest expense on deposits and adjusted EBITDA attributable to the non-controlling interest. Effective April 1, 2016, we acquired the remaining 20% interest in BrandLoyalty to bring our ownership percentage to 100%. Adjusted EBITDA and adjusted EBITDA, net are presented in accordance with ASC 280 as they are the primary performance metrics utilized to assess performance of the segments.

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

With respect to information concerning principal geographic areas, revenues are based on the location of the subsidiary that generally correlates with the location of the customer. Effective January 1, 2018, the Company adopted ASC 606, “Revenue from Contracts with Customers,” applying the modified retrospective method to those contracts that were not completed as of January 1, 2018. Results for reporting periods beginning after January 1, 2018 are presented under ASC 606, while prior period amounts have not been adjusted and continue to be reported in accordance with the Company’s historic accounting under ASC 605. Information concerning principal geographic areas is as follows:

	United States (In millions)	Canada	Europe, Middle East and Africa	Asia Pacific	Other	Total
Revenues						
Year Ended						
December 31, 2018	\$ 6,657.1	\$ 427.3 (1)	\$ 526.7	\$ 131.3	\$ 48.8	\$ 7,791.2
Year Ended						
December 31, 2017	\$ 6,336.1	\$ 742.8	\$ 485.1	\$ 140.4	\$ 15.0	\$ 7,719.4
Year Ended						
December 31, 2016	\$ 5,730.3	\$ 706.5	\$ 537.4	\$ 154.5	\$ 9.4	\$ 7,138.1
Long Lived Assets						
December 31, 2018	\$ 4,693.1	\$ 261.0	\$ 698.6	\$ 22.5	\$ 0.8	\$ 5,676.0
December 31, 2017	\$ 4,910.5	\$ 297.0	\$ 750.2	\$ 20.5	\$ 1.0	\$ 5,979.2

(1) Upon adoption of ASC 606, certain redemption revenue for which we do not control the good or service prior to transferring it to the collector is recorded on a net basis, which reduced both redemption revenue and cost of operations by \$283.4 million for the year ended December 31, 2018.

22. QUARTERLY RESULTS OF OPERATIONS (UNAUDITED)

Unaudited quarterly results of operations for the years ended December 31, 2018 and 2017 are presented below.

	Quarter Ended			
	March 31, 2018	June 30, 2018	September 30, 2018	December 31, 2018
	(In millions, except per share amounts)			
Revenues	\$ 1,884.2	\$ 1,903.9	\$ 1,947.2	\$ 2,055.9
Operating expenses	1,506.4	1,483.6	1,425.2	1,481.7
Operating income	377.8	420.3	522.0	574.2
Interest expense, net	159.2	165.7	168.9	176.8
Income before income taxes	218.6	254.6	353.1	397.4
Provision for income taxes	54.7	36.8	56.6	112.5
Net income	\$ 163.9	\$ 217.8	\$ 296.5	\$ 284.9
Net income attributable to common stockholders per share:				
Basic	\$ 2.96	\$ 3.94	\$ 5.41	\$ 5.28
Diluted	\$ 2.95	\$ 3.93	\$ 5.39	\$ 5.25

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ALLIANCE DATA SYSTEMS CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS – (CONTINUED)

	Quarter Ended			
	March 31, 2017	June 30, 2017	September 30, 2017	December 31, 2017
	(In millions, except per share amounts)			
Revenues	\$ 1,879.0	\$ 1,821.8	\$ 1,912.4	\$ 2,106.2
Operating expenses	1,526.6	1,470.4	1,433.5	1,643.4
Operating income	352.4	351.4	478.9	462.8
Interest expense, net	125.2	137.5	145.3	156.4
Income before income taxes	227.2	213.9	333.6	306.4
Provision for income taxes	80.8	76.2	100.4	35.0
Net income	\$ 146.4	\$ 137.7	\$ 233.2	\$ 271.4
Net income attributable to common stockholders per share:				
Basic	\$ 2.60	\$ 2.48	\$ 4.21	\$ 4.91
Diluted	\$ 2.58	\$ 2.47	\$ 4.20	\$ 4.88

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, Alliance Data Systems Corporation has duly caused this annual report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

ALLIANCE DATA SYSTEMS
CORPORATION

By: /S/ EDWARD J. HEFFERNAN
Edward J. Heffernan
President and Chief Executive Officer

DATE: February 26, 2019

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of Alliance Data Systems Corporation and in the capacities and on the dates indicated.

Name	Title	Date
/S/ EDWARD J. HEFFERNAN Edward J. Heffernan	President, Chief Executive Officer and Director	February 26, 2019
/S/ CHARLES L. HORN Charles L. Horn	Executive Vice President and Chief Financial Officer	February 26, 2019
/S/ LAURA SANTILLAN Laura Santillan	Senior Vice President and Chief Accounting Officer	February 26, 2019
/S/ BRUCE K. ANDERSON Bruce K. Anderson	Director	February 26, 2019
/S/ ROGER H. BALLOU Roger H. Ballou	Director	February 26, 2019
/S/ KELLY J. BARLOW Kelly J. Barlow	Director	February 26, 2019
/S/ E. LINN DRAPER, JR., PH.D.	Director	February 26, 2019

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E. Linn Draper, Jr., Ph.D.

/S/ KENNETH R. JENSEN Kenneth R. Jensen	Director	February 26, 2019
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/S/ ROBERT A. MINICUCCI Robert A. Minicucci	Chairman of the Board, Director	February 26, 2019
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/S/ TIMOTHY J. THERIAULT Timothy J. Theriault	Director	February 26, 2019
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/S/ LAURIE A. TUCKER Laurie A. Tucker	Director	February 26, 2019
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SCHEDULE II

ALLIANCE DATA SYSTEMS CORPORATION

CONSOLIDATED VALUATION AND QUALIFYING ACCOUNTS

Description	Balance at	Charged to	Charged to	Write-Offs	Balance at
	Beginning	Costs and	Other	Net of	End of
	Year	Expenses	Accounts	Recoveries	Year
	(In millions)				
Allowance for Doubtful Accounts—Accounts receivable:					
Year Ended December 31, 2018	\$ 6.7	\$ 6.6	\$ —	\$ (8.0)	\$ 5.3
Year Ended December 31, 2017	\$ 4.5	\$ 7.7	\$ —	\$ (5.5)	\$ 6.7
Year Ended December 31, 2016	\$ 4.0	\$ 2.4	\$ 0.8	\$ (2.7)	\$ 4.5

(1) Accounts written off during the year, net of recoveries and foreign exchange impact.