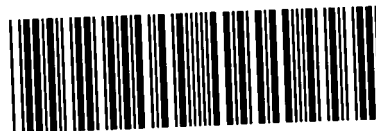


Company Registration No. 09298216 (England and Wales)

FISERV UK HOLDING LIMITED
REPORT AND FINANCIAL STATEMENTS
FOR THE YEAR ENDED
31 DECEMBER 2018

SATURDAY



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COMPANIES HOUSE

FISERV UK HOLDING LIMITED

COMPANY INFORMATION

Directors	Mr Derek Dyamond Mr Peter Holbrook Mr Lee Cameron Mr William Jones
Company number	09298216
Registered office	Eversheds House 70 Great Bridgewater Street Manchester M1 5ES
Auditor	RSM UK Audit LLP Chartered Accountants Davidson House Forbury Square Reading Berkshire RG1 3EU
Business address	First Floor The Porter Building 1 Brunel Way Slough Berkshire SL1 1XL

FISERV UK HOLDING LIMITED

STRATEGIC REPORT

FOR THE YEAR ENDED 31 DECEMBER 2018

The directors present the strategic report for the year ended 31 December 2018.

Fair review of the business

The principal activity of the company is that of an investment holding company. The company made no changes in its investment portfolio in the year.

During the year the company received dividends totalling £39,547,347 from group companies. Ordinary dividends of £39,547,347 were paid out to group companies.

Principal risk and uncertainties

As a holding company, the results of the company are subject to a number of risks. The principal risk and uncertainties affecting the company is related to its investments. The company is exposed to the risk of deterioration in business performance in its group undertakings which may have an adverse effect on the carrying value of the company's investments.

Financial risk management

The company makes little use of financial instruments other than an operational bank account so its exposure to price risk, credit risk, liquidity risk and cash flow risk is not material for the assessment of the assets, liabilities, financial position and profit or loss of the company.

Key performance indicators

Given the straightforward nature of the company, the directors do not consider there to be any key performance indicators necessary for the analysis of the business.

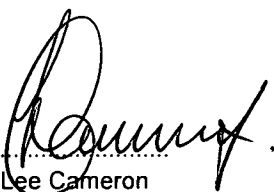
Environment

The company recognises the importance of its environmental responsibilities, and designs and implements policies to reduce any damage that might be caused by the company's activities.

Future developments

The directors aim to maintain the management policies in addition to seeking new investment opportunities which will in turn strengthen the group.

On behalf of the board


.....
Mr Lee Cameron
Director

Date: 26/9/19.
.....

FISERV UK HOLDING LIMITED

DIRECTORS' REPORT

FOR THE YEAR ENDED 31 DECEMBER 2018

The directors present their annual report and financial statements for the year ended 31 December 2018.

Directors

The directors who held office during the year and up to the date of signature of the financial statements were as follows:

Mr Derek Dyamond	
Mr Peter Holbrook	
Mr David Gillingham	(Resigned 23 November 2018)
Mr John Smith	(Resigned 31 August 2018)
Mr Lee Cameron	(Appointed 23 November 2018)
Mr William Jones	(Appointed 23 November 2018)

Results and dividends

The results for the year are set out on page 6.

Ordinary dividends were paid amounting to £39,547,347. The directors do not recommend payment of a further dividend. During the year dividends totalling £39,547,347 were received.

Qualifying third party indemnity provisions

The company has made qualifying third party indemnity provisions for the benefit of its directors during the year. These provisions remain in force at the reporting date.

Auditor

The auditor, RSM UK Audit LLP, is deemed to be reappointed under section 487(2) of the Companies Act 2006.

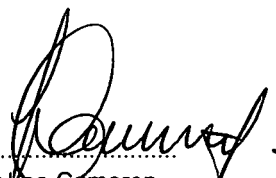
Strategic report

The company has chosen in accordance with Companies Act 2006, s. 414C(11) to set out in the company's strategic report information required by Large and Medium-sized Companies and Groups (Accounts and Reports) Regulations 2008, Sch. 7 to be contained in the directors' report. It has done so in respect of business activities, risk and future developments.

Statement of disclosure to auditor

So far as each person who was a director at the date of approving this report is aware, there is no relevant audit information of which the company's auditor is unaware. Additionally, each director has taken all the necessary steps that they ought to have taken as a director in order to make themselves aware of all relevant audit information and to establish that the company's auditor is aware of that information.

On behalf of the board


.....
Mr Lee Cameron
Director

Date: 26/9/19.

FISERV UK HOLDING LIMITED

DIRECTORS' RESPONSIBILITIES STATEMENT

FOR THE YEAR ENDED 31 DECEMBER 2018

The directors are responsible for preparing the Strategic Report and the Directors' Report and the financial statements in accordance with applicable law and regulations.

Company law requires the directors to prepare financial statements for each financial year. Under that law the directors have elected to prepare the financial statements in accordance with United Kingdom Generally Accepted Accounting Practice (United Kingdom Accounting Standards and applicable law). Under company law the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the company and of the profit or loss of the company for that period. In preparing these financial statements, the directors are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and accounting estimates that are reasonable and prudent;
- state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the financial statements;
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the company will continue in business.

The directors are responsible for keeping adequate accounting records that are sufficient to show and explain the company's transactions and disclose with reasonable accuracy at any time the financial position of the company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF FISERV UK HOLDING LIMITED

Opinion

We have audited the financial statements of Fiserv UK Holding Limited (the 'company') for the year ended 31 December 2018 which comprise the statement of comprehensive income, the statement of financial position, the statement of changes in equity and notes to the financial statements, including a summary of significant accounting policies. The financial reporting framework that has been applied in their preparation is applicable law and United Kingdom Accounting Standards, including FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" (United Kingdom Generally Accepted Accounting Practice).

In our opinion, the financial statements:

- give a true and fair view of the state of the company's affairs as at 31 December 2018 and of its profit for the year then ended;
- have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice;
- have been prepared in accordance with the requirements of the Companies Act 2006.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of the company in accordance with the ethical requirements that are relevant to our audit of the financial statements in the UK, including the FRC's Ethical Standard, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Conclusions relating to going concern

We have nothing to report in respect of the following matters in relation to which the ISAs (UK) require us to report to you where:

- the directors' use of the going concern basis of accounting in the preparation of the financial statements is not appropriate; or
- the directors have not disclosed in the financial statements any identified material uncertainties that may cast significant doubt about the company's ability to continue to adopt the going concern basis of accounting for a period of at least twelve months from the date when the financial statements are authorised for issue.

Other information

The other information comprises the information included in the annual report, other than the financial statements and our auditor's report thereon. The directors are responsible for the other information. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether there is a material misstatement in the financial statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in this regard.

Opinions on other matters prescribed by the Companies Act 2006

In our opinion, based on the work undertaken in the course of the audit:

- the information given in the strategic report and the directors' report for the financial year for which the financial statements are prepared is consistent with the financial statements; and
- the strategic report and the directors' report have been prepared in accordance with applicable legal requirements.

INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF FISERV UK HOLDING LIMITED (CONTINUED)

Matters on which we are required to report by exception

In the light of the knowledge and understanding of the company and its environment obtained in the course of the audit, we have not identified material misstatements in the strategic report and the directors' report.

We have nothing to report in respect of the following matters where the Companies Act 2006 requires us to report to you if, in our opinion:

- adequate accounting records have not been kept, or returns adequate for our audit have not been received from branches not visited by us; or
- the financial statements are not in agreement with the accounting records and returns; or
- certain disclosures of directors' remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit.

Responsibilities of directors

As explained more fully in the directors' responsibilities statement set out on page 3, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the directors are responsible for assessing the company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the company or to cease operations, or have no realistic alternative but to do so.

Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

A further description of our responsibilities for the audit of the financial statements is located on the Financial Reporting Council's website at: <http://www.frc.org.uk/auditorsresponsibilities>. This description forms part of our auditor's report.

Use of our report

This report is made solely to the company's members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the company and the company's members as a body, for our audit work, for this report, or for the opinions we have formed.

RSM UK Audit LLP

Neil Mellor (Senior Statutory Auditor)

For and on behalf of RSM UK Audit LLP, Statutory Auditor

Chartered Accountants

Davidson House

Forbury Square

Reading

Berkshire, RG1 3EU

27 September 2019

FISERV UK HOLDING LIMITED

STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 31 DECEMBER 2018

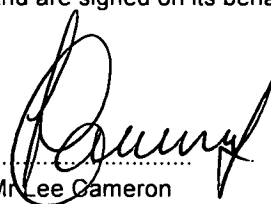
		2018 £	2017 £
	Notes		
Turnover		-	-
Administrative expenses		6,112	(7,546)
Interest receivable and similar income	7	39,547,347	6,305,964
Profit before taxation		39,553,459	6,298,418
Tax on profit	8	-	-
Profit for the financial year		39,553,459	6,298,418

The Income Statement has been prepared on the basis that all operations are continuing operations.

FISERV UK HOLDING LIMITED**STATEMENT OF FINANCIAL POSITION****AS AT 31 DECEMBER 2018**

	Notes	2018 £	£	2017 £	£
Fixed assets					
Investments	10		8,500,002		8,500,002
Current assets					
Debtors	12	43,991		1,692,294	
Cash at bank and in hand		13,120		7,849	
		57,111		1,700,143	
Creditors: amounts falling due within one year	13	(42,466)		(1,691,610)	
Net current assets			14,645		8,533
Total assets less current liabilities			8,514,647		8,508,535
Capital and reserves					
Called up share capital	15		13		13
Share premium account	16		8,499,999		8,499,999
Profit and loss reserves	16		14,635		8,523
Total equity			8,514,647		8,508,535

The financial statements were approved by the board of directors and authorised for issue on 26/9/19 and are signed on its behalf by:



 Mr Lee Cameron
 Director

FISERV UK HOLDING LIMITED

STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31 DECEMBER 2018

	Notes	Share capital £	Share premium account £	Profit and loss reserves £	Total £
Balance at 1 January 2017		13	8,499,999	4,809	8,504,821
Year ended 31 December 2017:					
Profit and total comprehensive income for the year		-	-	6,298,418	6,298,418
Dividends	9	-	-	(6,294,704)	(6,294,704)
Balance at 31 December 2017		13	8,499,999	8,523	8,508,535
Year ended 31 December 2018:					
Profit and total comprehensive income for the year		-	-	39,553,459	39,553,459
Dividends	9	-	-	(39,547,347)	(39,547,347)
Balance at 31 December 2018		13	8,499,999	14,635	8,514,647

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2018

1 Accounting policies

Company information

Fiserv UK Holding Limited is a private company limited by shares domiciled and incorporated in England and Wales. The registered office is Eversheds House, 70 Great Bridgewater Street, Manchester, M1 5ES.

The company's principal activities are disclosed in the Strategic Report.

Accounting convention

These financial statements have been prepared in accordance with FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" ("FRS 102") and the requirements of the Companies Act 2006, including the provisions of the Large and Medium-sized Companies and Groups (Accounts and Reports) Regulations 2008.

The financial statements are prepared in sterling, which is the functional currency of the company. Monetary amounts in these financial statements are rounded to the nearest £1, unless otherwise stated.

The financial statements have been prepared on the historical cost convention. The principal accounting policies adopted are set out below.

This company is a qualifying entity for the purposes of FRS 102, being a member of a group where the parent of that group prepares publicly available consolidated financial statements, including this company, which are intended to give a true and fair view of the assets, liabilities, financial position and profit or loss of the group. The company has therefore taken advantage of exemptions from the following disclosure requirements:

- Section 4 'Statement of Financial Position' – Reconciliation of the opening and closing number of shares;
- Section 7 'Statement of Cash Flows' – Presentation of a statement of cash flow and related notes and disclosures;
- Section 33 'Related Party Disclosures' – Compensation for key management personnel.

The company has taken advantage of the exemption under section 401 of the Companies Act 2006 not to prepare consolidated accounts. The financial statements present information about the company as an individual entity and not about its group.

Fiserv UK Holding Limited is a wholly owned subsidiary of Fiserv Inc. and the results of Fiserv UK Holding Limited are included in the consolidated financial statements of Fiserv Inc. which are available from 255 Fiserv Drive, Brookfield, WI 53008-0979, United States of America.

Going concern

At the time of approving the financial statements, the directors have a reasonable expectation that the company has adequate resources to continue in operational existence for the foreseeable future. Thus the directors continue to adopt the going concern basis of accounting in preparing the financial statements.

Fixed asset investments

Interests in subsidiaries are initially measured at cost and subsequently measured at cost less any accumulated impairment losses. The investments are assessed for impairment at each reporting date and any impairment losses or reversals of impairment losses are recognised immediately in profit or loss.

A subsidiary is an entity controlled by the company. Control is the power to govern the financial and operating policies of the entity so as to obtain benefits from its activities.

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2018

1 Accounting policies (Continued)

Cash and cash equivalents

Cash and cash equivalents are basic financial instruments and include cash in hand and deposits held at call with banks.

Financial instruments

The company has elected to apply the provisions of Section 11 'Basic Financial Instruments' and Section 12 'Other Financial Instruments Issues' of FRS 102 to all of its financial instruments.

Financial instruments are recognised when the company becomes party to the contractual provisions of the instrument.

Financial assets and liabilities are offset, with the net amounts presented in the financial statements, when there is a legally enforceable right to set off the recognised amounts and there is an intention to settle on a net basis or to realise the asset and settle the liability simultaneously.

Basic financial assets

Basic financial assets, which include amounts due by group undertakings and cash and bank balances, are initially measured at transaction price including transaction costs and are subsequently carried at amortised cost using the effective interest method unless the arrangement constitutes a financing transaction, where the financial asset is measured at the present value of the future receipts discounted at a market rate of interest.

Impairment of financial assets

Financial assets, other than those held at fair value through profit and loss, are assessed for indicators of impairment at each reporting end date.

Financial assets are impaired where there is objective evidence that, as a result of one or more events that occurred after the initial recognition of the financial asset, the estimated future cash flows have been affected. If an asset is impaired, the impairment loss is the difference between the carrying amount and the present value of the estimated cash flows discounted at the asset's original effective interest rate. The impairment loss is recognised in profit or loss.

If there is a decrease in the impairment loss arising from an event occurring after the impairment was recognised, the impairment is reversed. The reversal is such that the current carrying amount does not exceed what the carrying amount would have been, had the impairment not previously been recognised. The impairment reversal is recognised in profit or loss.

Derecognition of financial assets

Financial assets are derecognised only when the contractual rights to the cash flows from the asset expire or are settled, or when the company transfers the financial asset and substantially all the risks and rewards of ownership to another entity, or if some significant risks and rewards of ownership are retained but control of the asset has transferred to another party that is able to sell the asset in its entirety to an unrelated third party.

Classification of financial liabilities

Financial liabilities and equity instruments are classified according to the substance of the contractual arrangements entered into. An equity instrument is any contract that evidences a residual interest in the assets of the company after deducting all of its liabilities.

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2018

1 Accounting policies (Continued)

Basic financial liabilities

Basic financial liabilities, including loans from fellow group companies and other creditors are initially recognised at transaction price unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future payments discounted at a market rate of interest.

Debt instruments are subsequently carried at amortised cost, using the effective interest rate method.

Derecognition of financial liabilities

Financial liabilities are derecognised when, and only when, the company's contractual obligations are discharged, cancelled, or they expire.

Equity instruments

Equity instruments issued by the company are recorded at the fair value of proceeds received, net of direct issue costs. Dividends payable on equity instruments are recognised as liabilities once they are no longer at the discretion of the company.

Taxation

Due to trading losses incurred in the year, there is no current tax expense recognised in these financial statements. Similarly, deferred tax assets are recognised only to the extent that the directors consider it is more likely than not that there will be suitable taxable profits from which the future reversal of the underlying timing differences can be deducted. Accordingly, no deferred tax asset has been recognised in these financial statements.

Foreign exchange

Transactions in currencies other than the functional currency (foreign currency) are initially recorded at the exchange rate prevailing on the date of the transaction.

Monetary assets and liabilities denominated in foreign currencies are translated at the rate of exchange ruling at the reporting date. Non-monetary assets and liabilities denominated in foreign currencies are translated at the rate ruling at the date of the transaction, or, if the asset or liability is measured at fair value, the rate when that fair value was determined.

All translation differences are taken to profit or loss, except to the extent that they relate to gains or losses on non-monetary items recognised in other comprehensive income, when the related translation gain or loss is also recognised in other comprehensive income.

Other income

Dividend income from investments in subsidiaries is recognised when the company's right to receive payment is established.

2 Judgements and key sources of estimation uncertainty

In the application of the company's accounting policies, the directors are required to make judgements, estimates and assumptions about the carrying amount of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised where the revision affects only that period, or in the period of the revision and future periods where the revision affects both current and future periods.

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2018

2 Judgements and key sources of estimation uncertainty (Continued)

Key sources of estimation uncertainty

The estimates and assumptions which have a significant risk of causing a material adjustment to the carrying amount of assets and liabilities are as follows.

Fixed asset investments

The recoverable amount of investments in subsidiaries is based on budgets and forecasts prepared by the directors. These budgets and forecasts are based on the directors' in depth knowledge of the industry and specific market sectors in which subsidiaries trade. The budgets are forecasts and contain a number of key estimates, such as the expected future sales and costs, discount rate, terminal value and retention rates of customers. Changes in these estimates could significantly alter the directors assessment of the carrying value of the investments, which are currently valued at £8,500,002 (2017: £8,500,002) as shown in note 10.

3 Employees

The company had no employees in the current or prior year.

4 Directors' remuneration

The directors are remunerated through other group companies. The directors' services to the company did not occupy a significant amount of their time. As such, the directors do not consider that they received any remuneration for their incidental services to the company for the year.

5 Operating profit/(loss)

	2018	2017
	£	£
Operating profit/(loss) for the year is stated after charging/(crediting):		
Exchange (gains)/losses	(14,880)	160
	<u> </u>	<u> </u>

6 Auditor's remuneration

	2018	2017
	£	£
Fees payable to the company's auditor and its associates:		
For audit services		
Audit of the financial statements of the company	2,300	2,250
	<u> </u>	<u> </u>
For other services		
Taxation compliance services	-	1,100
All other non-audit services	1,635	1,550
	<u> </u>	<u> </u>
	1,635	2,650
	<u> </u>	<u> </u>

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED) FOR THE YEAR ENDED 31 DECEMBER 2018

7 Interest receivable and similar income

	2018 £	2017 £
Income from fixed asset investments		
Income from shares in group undertakings	39,547,347	6,305,964

8 Taxation

There is no corporation tax or deferred tax charge in the current or prior year.

The total tax charge for the year included in the income statement can be reconciled to the profit before tax multiplied by the standard rate of tax as follows:

	2018 £	2017 £
Profit before taxation	39,553,459	6,298,418
Expected tax charge based on the standard rate of corporation tax in the UK of 19.00% (2017: 19.25%)	7,515,157	1,212,445
Tax effect of income not taxable in determining taxable profit	(7,513,996)	(1,213,898)
Group relief	(1,161)	1,453
Taxation charge for the year	-	-

Reductions on the UK corporation tax rate to 17% (effective from 1 April 2020) have been substantively enacted. These changes will reduce the company's future tax charge accordingly.

9 Dividends

	2018 £	2017 £
Final paid	39,547,347	6,294,704

10 Fixed asset investments

	Notes	2018 £	2017 £
Investments in subsidiaries	11	8,500,002	8,500,002

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED) FOR THE YEAR ENDED 31 DECEMBER 2018

10 Fixed asset investments (Continued)

Movements in fixed asset investments

	Shares in group undertakings £
Cost	
At 1 January 2018 & 31 December 2018	8,500,002
Carrying amount	
At 31 December 2018	8,500,002
At 31 December 2017	8,500,002

11 Subsidiaries

Details of the company's subsidiaries at 31 December 2018 are as follows:

Name of undertaking	Registered office	Nature of business	Class of shares held	% Held	
				Direct	Indirect
Checkfree Solutions Limited	b)	Distribution and service of financial software	Ordinary	100.00	
Checkfree Solutions S.A.	c)	Distribution and service of financial software	Ordinary	100.00	
Fiserv (ASPAC) Pte. Ltd.	f)	Distribution and service of financial software	Ordinary	100.00	
Fiserv (Europe) Limited	d)	Marketing, installation and maintenance of the Signature Banking System	Ordinary	100.00	
Fiserv Australia Pty. Limited	g)	Regional support services	Ordinary	100.00	
Fiserv Polska Sp. z o.o.	e)	Regional support services	Ordinary	100.00	
Fiserv Solutions International Private Limited	h)	Regional support services	Ordinary	100.00	
Fiserv Worldwide Holdings Limited	a)	Holding company	Ordinary	100.00	
PT Fiserv Indonesia	i)	Regional support services	Ordinary	100.00	

a) Eversheds House, 70 Great Bridgewater Street, Manchester, M1 5ES, United Kingdom.

b) Eversheds House, 70 Great Bridgewater Street, Manchester, M1 5ES, United Kingdom.

c) 5 Rue Heienhaff, L-1736 Luxembourg, Grand Duchy of Luxembourg.

d) Eversheds House, 70 Great Bridgewater Street, Manchester, M1 5ES, United Kingdom.

e) Królewska, 16, 00-001 Warszawa, Poland.

f) 12 Marina Boulevard, #26-04, Marina Bay Financial Centre Tower 3, Singapore 018982.

g) Level 13, 90 Arthur Street, North Sydney, NSW 2060, Australia.

h) First Floor, Annexe Building, 30, Nizamuddin East, Delhi, India, 110013.

i) CEO Suite Jakarta, Wisma GKBA, 39th Floor, Jl. Jend. Sudirman No. 28, Jakarta, 10210, Indonesia.

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED) FOR THE YEAR ENDED 31 DECEMBER 2018

12 Debtors

	2018 £	2017 £
Amounts falling due within one year:		
Amounts owed by group undertakings	43,991	1,692,294

13 Creditors: amounts falling due within one year

	2018 £	2017 £
Amounts due to group undertakings	34,666	1,685,850
Accruals and deferred income	7,800	5,760
	42,466	1,691,610

14 Financial instruments

	2018 £	2017 £
Carrying amount of financial assets		
Debt instruments measured at amortised cost	43,991	1,692,294
Carrying amount of financial liabilities		
Measured at amortised cost	42,466	1,691,610

15 Share capital

	2018 £	2017 £
Ordinary share capital		
Issued and fully paid		
10 Ordinary shares of £1 each	10	10
3 Ordinary B shares of £1 each	3	3
	13	13

All ordinary shares and ordinary B shares have attached to them full voting, dividend and capital distribution (including on winding up) rights; they do not confer any rights of redemption.

16 Reserves

Share premium

Share premium is the consideration received for shares issued above their nominal value, net of transaction costs.

Profit and loss reserves

Cumulative profit and loss net of distributions to owners.

FISERV UK HOLDING LIMITED

NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2018

17 Controlling party

The immediate parent company is Fiserv Worldwide Solutions Inc. a company incorporated in the United States of America (registered office: 255 Fiserv Drive, Brookfield, WI 53008-0979, United States of America).

The ultimate parent company is Fiserv Inc. a company incorporated in the United States of America (registered office: 255 Fiserv Drive, Brookfield, WI 53008-0979, United States of America). Fiserv Inc. heads both the smallest and largest group of undertakings for which group accounts including Fiserv UK Holding Limited are prepared. Copies of the financial statements of Fiserv Inc. are available from its registered office.

The directors do not consider there to be one ultimate controlling party.

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

FORM 10-K

- ☒ 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: 0-14948

Fiserv, Inc.

(Exact Name of Registrant as Specified in Its Charter)

Wisconsin
(State or Other Jurisdiction
of Incorporation or Organization)

39-1506125
(I.R.S. Employer
Identification No.)

255 Fiserv Dr., Brookfield, WI 53045

(Address of Principal Executive Offices, Including Zip Code)

Registrant's telephone number, including area code: (262) 879-5000

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

Title of Each Class
Common Stock, par value \$0.01 per share

Name of Each Exchange on Which Registered
The NASDAQ Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act: None

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 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 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 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, a smaller reporting company, or an emerging growth company. See the 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 ☐ 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 Exchange Act). Yes ☐ No ☒

The aggregate market value of the common stock of the registrant held by non-affiliates as of June 29, 2018 (the last trading day of the second fiscal quarter) was \$30,024,669,916 based on the closing price of the registrant's common stock on the NASDAQ Global Select Market on that date. The number of shares of the registrant's common stock, \$0.01 par value per share, outstanding at February 15, 2019 was 391,586,971.

DOCUMENTS INCORPORATED BY REFERENCE

Part III of this report incorporates information by reference to the registrant's proxy statement for its 2019 annual meeting of shareholders, which proxy statement will be filed with the Securities and Exchange Commission no later than 120 days after the close of the fiscal year ended December 31, 2018.

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FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains “forward-looking statements” intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. Forward-looking statements include those that express a plan, belief, expectation, estimation, anticipation, intent, contingency, future development or similar expression, and can generally be identified as forward-looking because they include words such as “believes,” “anticipates,” “expects,” “could,” “should” or words of similar meaning. Statements that describe our future plans, objectives or goals are also forward-looking statements. The forward-looking statements in this report involve significant risks and uncertainties, and a number of factors, both foreseen and unforeseen, could cause actual results to differ materially from our current expectations. The factors that could cause Fiserv’s actual results to differ materially include, among others: the possibility that Fiserv and First Data Corporation (“First Data”) may be unable to achieve expected synergies and operating efficiencies in the proposed merger with First Data within the expected time frames or at all and to successfully integrate the operations of First Data into those of Fiserv; such integration may be more difficult, time-consuming or costly than expected; revenues following the merger may be lower than expected, including for possible reasons such as unexpected costs, charges or expenses resulting from the transaction; operating costs, customer loss and business disruption (including, without limitation, difficulties in maintaining relationships with employees, customers, clients or suppliers) may be greater than expected following the merger; the retention of certain key employees; the occurrence of any event, change or other circumstances that could give rise to the termination of the merger agreement with First Data; the outcome of any legal proceedings that may be instituted against Fiserv, First Data and others related to the merger agreement with First Data; unforeseen risks relating to liabilities of Fiserv or First Data may exist; shareholder approval or other conditions to the completion of the merger may not be satisfied, or the regulatory approvals required for the transaction may not be obtained on the terms expected or on the anticipated schedule; the amount of the costs, fees, expenses and charges related to the transaction, including the costs, fees, expenses and charges related to any financing arrangements entered into in connection with the transaction; and the parties’ ability to meet expectations regarding the timing, completion and accounting and tax treatments of the transaction. Fiserv and First Data are subject to, among other matters, changes in customer demand for their products and services; pricing and other actions by competitors; general changes in local, regional, national and international economic conditions and the impact they may have on Fiserv and First Data and their customers and Fiserv’s and First Data’s assessment of that impact; rapid technological developments and changes, and the ability of Fiserv’s and First Data’s technology to keep pace with a rapidly evolving marketplace; the impact of a security breach or operational failure on Fiserv’s and First Data’s business; the effect of proposed and enacted legislative and regulatory actions in the United States and internationally affecting the financial services industry as a whole and/or Fiserv and First Data and their subsidiaries individually or collectively; regulatory supervision and oversight, and Fiserv’s and First Data’s ability to comply with government regulations; the impact of Fiserv’s and First Data’s strategic initiatives; Fiserv’s and First Data’s ability to continue to introduce competitive new products and services on a timely, cost-effective basis; the ability to contain costs and expenses; the protection and validity of intellectual property rights; the outcome of pending and future litigation and governmental proceedings; acts of war and terrorism; and other factors discussed in this report under the heading “Risk Factors” and in First Data’s filings with the Securities and Exchange Commission, and in other documents the companies file with the Securities and Exchange Commission. You should consider these factors carefully in evaluating forward-looking statements and are cautioned not to place undue reliance on such statements, which speak only as of the date of this report. We undertake no obligation to update forward-looking statements to reflect events or circumstances occurring after the date of this report. We are not including the information provided on the websites referenced herein as part of, or incorporating such information by reference into, this Annual Report on Form 10-K.

PART I

In this report, all references to “we,” “us,” “our” and “Fiserv” refer to Fiserv, Inc. (“Fiserv”), a Wisconsin corporation, and, unless the context otherwise requires, its consolidated subsidiaries.

Item 1. Business

Overview

Fiserv, Inc. is a leading global provider of financial services technology. We are publicly traded on the NASDAQ Global Select Market and part of the S&P 500 Index. We serve over 12,000 clients worldwide, including banks, credit unions, investment management firms, leasing and finance companies, billers, retailers, and merchants. We provide account processing systems; electronic payments processing products and services, such as electronic bill payment and presentment services, account-to-account transfers, person-to-person payments, debit and credit card processing and services, and payments infrastructure services; internet and mobile banking systems; and related services, including card and print personalization services, item processing and source capture services, loan origination and servicing products, and fraud and risk management products and services. Most of the services we provide are necessary for our clients to operate their businesses and are, therefore, non-discretionary in nature. Our operations are principally located in the United States where we operate data and transaction processing centers, provide technology support, develop software and payment solutions, and offer consulting services.

In 2018, we had \$5.8 billion in total revenue, \$1.8 billion in operating income and \$1.6 billion of net cash provided by operating activities from continuing operations. Processing and services revenue, which in 2018 represented 85% of our total revenue, is primarily generated from account- and transaction-based fees under contracts that generally have terms of three to five years and high renewal rates.

We have grown our business by developing highly specialized product and service enhancements, extending our capabilities through innovation, welcoming new clients, selling additional products and services to existing clients, and acquiring businesses that complement ours, all of which have enabled us to deliver a wide range of integrated products and services and have created new opportunities for growth.

We originally incorporated in Delaware in 1984 and reincorporated as a Wisconsin corporation in 1992. Our headquarters are located at 255 Fiserv Drive, Brookfield, Wisconsin 53045, and our telephone number is (262) 879-5000.

On January 16, 2019, we announced that we had entered into a definitive merger agreement to acquire First Data in an all-stock transaction for an equity value of approximately \$22 billion as of the announcement. The transaction is expected to close during the second half of 2019, subject to customary closing conditions, regulatory approvals and shareholder approval for both companies. First Data is a global leader in commerce-enabling technology and solutions for merchants, financial institutions, and card issuers.

Our operations are reported in the Payments and Industry Products (“Payments”) and Financial Institution Services (“Financial”) business segments.

Payments

The businesses in our Payments segment provide financial institutions and other companies with the products and services required to process electronic payment transactions and to offer their customers access to financial services and transaction capability through digital channels. Financial institutions and other companies have increasingly relied on third-party providers for those products and services, either on a licensed software or outsourced basis. This is driven by the increasing number of payment transactions being completed electronically as our clients’ customers seek the convenience of 24-hour digital access to their financial accounts. Within the Payments segment, we primarily provide electronic bill payment and presentment services, internet and mobile banking software and services, account-to-account transfers, person-to-person payment services, debit and credit card processing and services, payments infrastructure services, and other electronic payments software and services. Our businesses in this segment also provide card and print personalization services, investment account processing services for separately managed accounts, and fraud and risk management products and services. Our products and services in the Payments segment include:

Electronic Payments

Our electronic payments business is comprised of electronic bill payment and presentment services and other electronic payment services for businesses and consumers, such as person-to-person payments, account-to-account transfers, account opening and funding, and small business invoicing and payments. Our principal electronic bill payment and presentment product, CheckFree® RXP®, allows our clients’ customers: to manage household bills via an easy-to-use, online tool; to view

billing and payment information; to pay and manage all of their bills in one place; and to complete same-day or next-day bill payments to a wide range of billers and others.

Our person-to-person payments services allow consumers a convenient way to send and receive money while offering financial institutions the opportunity to generate new transaction-based revenue, attract new accounts and increase loyalty among existing customers. More than 2,500 financial institutions have agreed to offer person-to-person payments services through Fiserv to their customers as of December 31, 2018. In addition to Fiserv's own service, Popmoney[®], we partner with Early Warning Services, LLC to offer a turnkey implementation of its Zelle[®] real-time person-to-person payments service. Our turnkey solution simplifies the implementation of Zelle by providing interface, risk management, alerting, settlement and other services to clients.

Digital Channels

Our principal digital consumer and business banking products are Architect[™], Corillian Online[®], Corillian[®] Business Online, Mobiliti[™], Mobiliti Business[™], and SecureNow[™]. Our Corillian product suite supports multiple lines of banking businesses and has been designed to be highly scalable to meet the evolving needs of our clients. This structure enables our clients to deploy new services by adding and integrating applications, such as electronic bill payment, person-to-person payments and personal financial management tools, to any internet connected point-of-presence. Our Mobiliti product suite provides a variety of mobile banking and payments services to our clients and their customers via mobile browser, downloadable application for smartphones and tablets, text message, and Amazon[®] Echo Alexa voice banking. We also provide the advanced capabilities of Corillian Online and Mobiliti as an outsourced service, known as Corillian Online ASP and Mobiliti ASP. Our Architect product suite supports online, mobile and tablet banking for retail and small business customers on a single platform. Each of these suites enables customers to complete balance inquiries, view their transaction history, make bill payments, and transfer funds between accounts and other people. As of December 31, 2018, we had approximately 2,300 Mobiliti ASP clients. Our SecureNow product delivers real-time cybersecurity defense capability designed specifically for digital financial services and integrates industry-leading controls into a single platform, and is pre-integrated with key Fiserv digital assets, including Corillian Online, Architect and other Fiserv platforms for rapid deployment.

Biller Solutions

Our biller business provides electronic billing and payment services to companies that deliver bills to their customer base, such as utilities, telephone and cable companies, lending institutions, and insurance providers, enabling our biller clients to reduce costs, collect payments faster through multiple channels, increase customer satisfaction, and provide customers flexible, easy-to-use ways to view and pay their bills. Our clients' customers access our electronic billing and payment systems by viewing or paying a bill through a financial institution's bill payment application, using a biller's website, mobile application, automated phone system or customer service representative, leveraging www.mycheckfree.com, or by paying in person at one of more than 29,000 nationwide walk-in payment locations operated by our agents. These diverse options allow our clients' customers to view and pay bills wherever, whenever and however they feel most comfortable. Furthermore, because our biller clients are able to receive all of these services from us, we can eliminate the operational complexity and expense of supporting multiple vendor systems or in-house developed systems.

Enterprise Payments Solutions

Our enterprise payments business provides financial institutions with the infrastructure they need to process non-card-based electronic payments, including ACH, wire and instant payments, and to manage associated information flows. Clients may use the Dovetail payment platform applications on a licensed or hosted basis, and as an add-on to existing legacy technology or as a stand-alone comprehensive modern payments platform.

Card Services

Our card services business is a leader in electronic funds transfer services and provides a total payments solution through a variety of products and services. We provide thousands of financial institution clients with a full range of credit and debit processing services, including: ATM monitoring, tokenization, loyalty and reward programs, real-time person-to-person payments, customized authorization processing, gateway processing to payment settlement for networks, and risk management products. We own and operate the Accel[®] network, which serves more than 3,000 financial institutions with funds access at over 500,000 ATMs and which incorporates CardFree CashSM access as well as EMV[™] chip and traditional magnetic stripe cards. Our Accel network point of sale support delivers comprehensive coverage of PIN and signature authentication support at physical and electronic commerce merchants across the country. Our digital enablement capability provides our clients' customers with mobile-based, customizable card management and alert tools that drive engagement and revenue for card issuers, and our risk management tools and portfolio management services are integrated with real-time fraud decisioning. On

October 31, 2018, we acquired the debit card processing, ATM Managed Services, and MoneyPass® surcharge-free network of Elan Financial Services, a unit of U.S. Bancorp, enabling access to over 52,000 surcharge-free ATMs.

Output Solutions

Our output solutions business provides business communication products and services to clients across a wide variety of industries, including financial services, healthcare, retail, utilities, and travel and entertainment. Our products and services include: electronic document management through our electronic document delivery products and services; card manufacturing; personalization and mailing; statement production and mailing; design and fulfillment of direct mail services; forms distribution; laser printing and mailing; branded merchandise; and office supplies.

Investment Services

Our investment services business provides financial planning, portfolio management and trading, model management, performance measurement, and reporting products and services to financial service organizations, including broker dealers, registered investment advisors, banks, asset managers and insurance companies that deliver financial advice and managed account products to U.S. retail investors. Our investment services business also supports global institutional asset managers and asset servicers with portfolio accounting, performance analytics, fee billing and revenue management, and post-trade processing technology. Our primary product, the Unified Wealth Platform, is a real-time portfolio management, trading and reporting system used by some of the largest brokerage firms and asset managers in the U.S. offering managed accounts.

Risk Management and Other Solutions

Our risk management business provides financial and risk management products and services that deliver operating efficiencies and management insight that enable our clients to protect and grow their businesses. Our enterprise performance management and financial control offerings include budgeting and planning, financial accounting, and automated reconciliation and account certification tools to facilitate a robust assessment environment and efficient close process for our clients. These solutions are further complemented by fraud detection and mitigation through our predictive analytics service, Fraud Risk and Anti-Money Laundering Compliance Management, as well as our SmarterPay™ deposit risk product.

Financial

The businesses in our Financial segment provide financial institutions with the products and services they need to run their operations. By licensing software from third parties or outsourcing their processing requirements by contracting with third-party processors, financial institutions are typically able to reduce costs and enhance their products, services, capacity and capabilities. For example, the licensing of software reduces the need for costly technical expertise within a financial institution, and outsourcing processing operations reduces the infrastructure and other costs required to operate systems internally. Within the Financial segment, we provide financial institutions with account processing services, item processing and source capture services, loan origination and servicing products, cash management and consulting services, and other products and services that support numerous types of financial transactions. Many of the products and services that we sell are integrated with solutions from our Payments segment such as electronic bill payment and presentment, internet and mobile banking, debit processing and network services, and person-to-person payments. Our products and services in the Financial segment include:

Account Processing

We provide account servicing and management technology products and services to our depository institution clients, as well as a range of integrated, value-added banking products and services. Account processing solutions are the principal systems that enable a financial institution to operate systems that process customer deposit and loan accounts, an institution's general ledger, central information files and other financial information. These solutions also include extensive security, report generation and other features that financial institutions need to process transactions for their customers, as well as to comply with applicable regulations. Although many of our clients contract to obtain a majority of their processing requirements from us, our software design allows clients to start with one application and, as needed, add applications and features developed by us or by third parties. We support a broad range of client-owned peripheral devices manufactured by a variety of vendors, which reduces a new client's initial conversion expenses, enhances existing clients' ability to change technology and broadens our market opportunity.

The principal account processing solutions used by our bank clients are Cleartouch®, DNA®, Precision®, Premier®, Signature® and TotalPlus®. The principal account processing solutions primarily used by our credit union clients are CharlotteSM, CubicPlus®, CUnity™, CUSA®, DataSafe®, DNA®, Galaxy®, OnCU®, Portico®, Spectrum™ and XP2®. The Signature and DNA systems are available both domestically and internationally. In addition, we offer Agiliti™ as a software-as-a-service solution to

the U.K. financial institutions. Account processing solutions are generally offered as an outsourced service or as licensed software for installation on client-owned or -hosted computer systems.

Item Processing

Our item processing business offers products and services to financial institutions. Through the Fiserv® Clearing Network, we provide check clearing and image exchange services. Other products and services include image archive with online retrieval, in-clearings, exceptions and returns, statements and fraud detection. We also provide consulting services, business operations services and related software products that promote change in deposit behavior to transition check capture from branch and teller channels to digital self-service deposit channels, including mobile, merchant and ATM.

Lending and Other Solutions

In March 2018, we sold a 55% interest of our Lending Solutions business, retaining 45% ownership interests in two joint ventures, which include automotive loan origination and servicing products, as well as the LoanServ™ mortgage and consumer loan servicing platform. Other businesses in this segment provide products and services for ACH and treasury management, case management and resolution, and source capture optimization to the financial services industry. Our offerings include Immediate FundsSM, PEP+®, and our remote deposit capture solutions branded as Source Capture Solutions®.

Our Strategy

Our aspiration is to move money and information in a way that moves the world. Our purpose is to deliver superior value for our clients through leading technology, targeted innovation and excellence in everything we do. We are focused on operating businesses where we have: deep industry expertise that enables us to serve the market with high effectiveness; a strong competitive position, currently or via a clear path in the foreseeable future; long-term, trusted client relationships that are based on recurring services and transactions; differentiated solutions that deliver value to our clients through integration and innovation; and strong management to execute strategies in a disciplined manner. Consistent with this focus, we continue to operate our business in accordance with the following strategic framework:

- *Portfolio Management.* We expect to acquire businesses when we identify: a compelling strategic need, such as a product, service or technology that helps meet client demand; an opportunity to change industry dynamics; a way to achieve business scale; or similar considerations. We expect to divest businesses that are not in line with our market, product or financial strategies.
- *Client Relationship Value.* We plan to increase the number and breadth of our client relationships by, among other actions: continuing to integrate our products and services; introducing new products and services that are aligned with market needs; combining products and services to deliver enhanced, integrated value propositions; and improving the quality of our client service and support.
- *Operational Effectiveness.* We believe we can improve the quality of our client delivery while reducing our costs by using the opportunities created by our size and scale. For example, we are using our consolidated buying power and optimizing our facilities to create cost savings.
- *Capital Discipline.* We intend to make capital allocation decisions that offer the best prospects for our long-term growth and profitability, which may include, among other matters, internal investment, repayment of debt, repurchases of our own shares or acquisitions.
- *Innovation.* We seek to be an innovation leader, utilizing our assets and capabilities to be at the forefront of our industry and enable our clients to deliver best-in-class results.

Servicing the Market

The markets for our account and transaction processing services have specific needs and requirements, with strong emphasis placed by clients on quality, security, integration with other product lines, service reliability, timely introduction of new products and features, flexibility and value. We believe that our financial strength and primary focus on the financial services industry enhances our ability to meet these needs and service our clients. In addition, we believe that our dedication to providing excellent client service and support no matter the size of the client and our commitment of substantial resources to training and technical support helps us to identify and fulfill the needs of our clients.

Product Development

To meet the changing technology needs of our clients, we continually develop, maintain and enhance our products and systems. Our development and technology centers apply the expertise of multiple teams to design, develop and maintain specialized processing systems. Our account processing systems are designed to meet the preferences and diverse requirements of the international, national, regional or local market-specific financial service environments of our clients. In developing our products, we use current software development principles, such as service-oriented architecture, to create efficiencies, and we stress interaction with and responsiveness to the needs of our clients.

Intellectual Property

We regard our software, transaction processing services and related products as proprietary, and we utilize a combination of patent, copyright, trademark and trade secret laws, internal security practices, and employee and third party non-disclosure agreements to protect our intellectual property assets. Our patents cover innovations relating to numerous financial software products and services, and we continue, where appropriate, to seek and secure patents with respect to our ongoing innovations. We believe that we possess all proprietary rights necessary to conduct our business.

Competition

The market for technology products and services in the financial industry is highly competitive. Our principal competitors include other vendors of financial services technology, data processing affiliates of large companies, and processing centers owned and operated as user cooperatives. Outside the U.S., our primary competitors include global and local IT product and services companies, as well as payment service providers and processors. We expect competition to continue to increase as new companies enter our markets and existing competitors expand their product lines and services. Some of these competitors possess substantially greater financial, sales and marketing resources than we do and have substantial flexibility in competing with us, including through the use of integrated product offerings and through pricing. Competitive factors for our business include product quality, security, integration with other product lines, service reliability, timely introduction of new products and features, flexibility and value. We believe that we compete favorably in each of these categories. Additional information about competition in our segments is provided below.

Payments

The businesses in our Payments segment compete with a number of competitors, including ACI Worldwide, Inc., Fidelity National Information Services, Inc. ("FIS"), First Data Corporation, Jack Henry and Associates Inc. ("Jack Henry"), KUBRA Data Transfer, Ltd., MasterCard Incorporated, NCR Corporation, Paymentech, LLC, Paymentus Corporation, PayPal Holdings, Inc., Q2 Holdings, Inc., R.R. Donnelley & Sons Company, Total System Services, Inc., Visa Inc., The Western Union Company and Worldpay, Inc. In addition to traditional payments competitors, large technology, media and other providers are increasingly seeking to provide or facilitate a wide range of point of sale and non-point of sale payments. These newer competitors include, but are not limited to, Alphabet Inc., Amazon.com, Inc., Apple Inc., Facebook, Inc., Intuit Inc., Samsung Group, Starbucks Corporation and Wal-Mart Stores, Inc. Existing and potential financial institution and biller clients could also develop and use their own in-house systems instead of our products and services. In addition, many companies that provide solutions to the financial services industry are consolidating, creating larger competitors with greater resources and broader product lines.

Financial

Our products and services in the Financial segment compete in several different market segments and geographies, including with large, diversified software and service companies and independent suppliers of software products. Existing and potential financial institution clients could also develop and use their own in-house systems. In addition, we compete with vendors that offer similar transaction processing products and services to financial institutions, including Black Knight Financial Technology Solutions LLC, Computer Services, Inc., Finastra Limited, FIS, Infosys Ltd., International Business Machines Corporation, Jack Henry, Oracle Corporation, SAP SE and Temenos Group AG.

Government Regulation

The regulations that apply to the delivery of financial services are complex and evolve continuously. Except with respect to certain products and services, Fiserv and its subsidiaries are generally not directly subject to federal or state regulations applicable to financial institutions such as banks and credit unions. However, as a provider of services to these financial institutions, our operations are examined on a regular basis by various state and federal regulatory authorities and representatives of the Federal Financial Institutions Examination Council, which is a formal interagency body empowered to prescribe uniform principles, standards and report forms for the federal examination of financial institutions and to make

recommendations to promote uniformity in the supervision of financial institutions. Also, state and federal regulations may require our financial institution clients to include certain provisions in their contracts with service providers like us, such as those related to security and privacy, and to conduct ongoing monitoring and risk management for third party relationships. In addition, independent auditors annually review many of our operations to provide internal control evaluations for our clients and their auditors.

In conducting our direct-to-consumer businesses, including our walk-in bill payment, online bill payment, digital disbursements, and Popmoney person-to-person payment services, we are directly subject to various federal and state laws, rules and regulations including those relating to the movement of money. In order to comply with our obligations under applicable laws, we are required, among other matters, to comply with licensing and reporting requirements, to implement operating policies and procedures necessary to comply with anti-money laundering laws, to comply with capital requirements, to protect the privacy and security of our clients' information, and to undergo periodic audits and examinations.

Since the enactment of the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank Act"), there have been substantial reforms to the supervision and operation of the financial services industry, including numerous new regulations that have imposed compliance costs and, in some cases, limited revenue sources for us and our clients. Among other things, the Dodd-Frank Act established the Consumer Financial Protection Bureau ("CFPB"), which is empowered to conduct rule-making and supervision related to, and enforcement of, federal consumer financial protection laws. The CFPB has issued guidance that applies to, and conducts direct examinations of, "supervised banks and nonbanks" as well as "supervised service providers" like us. In addition, federal and state agencies have begun to propose and enact cybersecurity and privacy regulations, such as the Cybersecurity Requirements for Financial Services Companies issued by the New York State Department of Financial Services in 2017 and the California Consumer Privacy Act passed by the California legislature in 2018. Also, regulations adopted outside the U.S., such as the European Union General Data Protection Regulation which became effective in 2018, impact our non-U.S. operations and to some extent our U.S. operations due to the potential extraterritorial application of these regulations. New regulations could, among other things, require us to make significant additional investments to comply with them, modify our products or services or the manner in which they are provided, or limit or change the amount or types of revenue we are able to generate.

Employees

We have over 24,000 employees globally, many of whom are specialists in our information management centers and related product and service businesses. This service support network includes employees with backgrounds in computer science and the financial industry, as well as employees with direct experience in payments, financial institutions and other financial services environments. Our employees provide expertise in: programming, software development, modification and maintenance; computer operations, network control and technical support; client services and training; business process outsourcing; item and mortgage processing; system conversions; sales and marketing; and account management.

The service nature of our business makes our employees an important corporate asset. Although the market for qualified personnel is competitive, we have not experienced significant difficulty with hiring or retaining our staff of top industry professionals. In assessing a potential acquisition candidate, we emphasize the quality and stability of the acquisition candidate's employees.

Available Information

Our website address is www.fiserv.com. We are not including the information provided on our website as a part of, or incorporating it by reference into, this Annual Report on Form 10-K. We make available free of charge (other than an investor's own internet access charges) through our website our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to these reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to, the Securities and Exchange Commission.

Item 1A. Risk Factors

You should carefully consider each of the risks described below, together with all of the other information contained in this Annual Report on Form 10-K, before making an investment decision with respect to our securities. If any of the following risks develop into actual events, our business, results of operations or financial condition could be materially and adversely affected and you may lose all or part of your investment.

Risks Relating to Our Existing Business

We operate in a competitive business environment and may not be able to compete effectively.

The markets for our services are highly competitive from new and existing competitors. Our principal competitors include other vendors of financial services technology, data processing affiliates of large companies, and processing centers owned and operated as user cooperatives. Our competitors vary in size and in the scope and breadth of the services they offer. Many of our larger existing and potential clients have historically developed their key applications in-house. As a result, we often compete against our existing or potential clients' in-house capabilities. We expect that the markets in which we compete will continue to attract new well-funded competitors and new technologies, including large technology, media and other companies not historically in the financial services industry, start-ups and international providers of similar products and services to ours. We cannot provide any assurance that we will be able to compete successfully against current or future competitors or that competitive pressures faced by us in the markets in which we operate will not materially and adversely affect our business, results of operations and financial condition.

If we fail to adapt our products and services to changes in technology or in the marketplace, or if our ongoing efforts to upgrade our technology are not successful, we could lose clients or have trouble attracting new clients, and our ability to grow may be limited.

The markets for our products and services are characterized by constant technological changes, frequent introductions of new products and services, and increasing client expectations. Our ability to enhance our current products and services and to develop and introduce innovative products and services that address the increasingly sophisticated needs of our clients and their customers will significantly affect our future success. We may not be successful in developing, marketing or selling new products and services that meet these demands or achieve market acceptance. In addition, the success of certain of our products and services rely, in part, on financial institutions, billers and other third parties to promote the use of our products and services by their customers. If we are unsuccessful in offering products or services that gain market acceptance, or if third parties insufficiently promote our products and services, it would likely have a material adverse effect on our ability to retain existing clients, to attract new ones and to grow profitably.

If we are unable to renew client contracts at favorable terms, we could lose clients and our results of operations and financial condition may be adversely affected.

Failure to achieve favorable renewals of client contracts could negatively impact our business. Our contracts with clients generally run for a period of three to five years. At the end of the contract term, clients have the opportunity to renegotiate their contracts with us or to consider whether to engage one or more of our competitors to provide products and services. If we are not successful in achieving high renewal rates and favorable contract terms, our results of operations and financial condition may be materially and adversely affected.

Consolidations in the banking and financial services industry could adversely affect our revenue by eliminating existing or potential clients and making us more dependent on fewer clients.

Mergers, consolidations and failures of financial institutions reduce the number of our clients and potential clients, which could adversely affect our revenue. If our clients merge with or are acquired by other entities that are not our clients, or that use fewer of our services, they may discontinue or reduce their use of our services. It is also possible that the larger financial institutions that result from mergers or consolidations could have greater leverage in negotiating terms with us or could decide to perform in-house some or all of the services which we currently provide or could provide. Any of these developments could have a material adverse effect on our business, results of operations and financial condition.

Security incidents or other technological risks involving our systems and data, or those of our clients or vendors, could expose us to liability or damage our reputation.

Our operations depend on receiving, storing, processing and transmitting sensitive information pertaining to our business, our associates, our clients and their customers. Any unauthorized access, intrusion, infiltration, network disruption, denial of service or similar incident could disrupt the integrity, continuity, security and trust of our systems or data, or the systems or data of our clients or vendors. These events could create costly litigation, significant financial liability, increased regulatory scrutiny,

financial sanctions and a loss of confidence in our ability to serve clients and cause current or potential clients to choose another service provider, all of which could have a material adverse impact on our business. In addition, as threats continue to evolve, we may be required to invest significant additional resources to modify and enhance our information security and controls or to investigate and remediate any security vulnerabilities. Although we believe that we maintain a robust program of information security and controls and none of the events that we have encountered to date have materially impacted us, we may not be able to prevent a material event in the future, and the impact of a material event could have a material adverse effect on our business, results of operations and financial condition.

Operational failures and resulting interruptions in the availability of our products or services could harm our business and reputation.

Our business depends heavily on the reliability of our processing and other systems. An operational failure and the resulting service interruption could harm our business or cause us to lose clients. An operational failure could involve the hardware, software, data, networks or systems upon which we rely to deliver our services and could be caused by our actions, the actions of third parties or events over which we may have limited or no control. Events that could cause operational failures include, but are not limited to, hardware and software defects or malfunctions, computer denial-of-service and other cyberattacks, human error, earthquakes, hurricanes, floods, fires, natural disasters, power losses, disruptions in telecommunications services, fraud, military or political conflicts, terrorist attacks, computer viruses or other malware, or other events. Interruptions of service could damage our relationship with clients and could cause us to incur substantial expenses, including those related to the payment of service credits or other liabilities. A prolonged interruption of our services or network could cause us to experience data loss or a reduction in revenue, and significantly impact our clients' businesses and the customers they serve. In addition, a significant interruption of service could have a negative impact on our reputation and could cause our current and potential clients to choose another service provider. Any of these developments could have a material adverse impact on our business, results of operations and financial condition.

We may experience software defects, development delays or installation difficulties, which would harm our business and reputation and expose us to potential liability.

Our services are based on sophisticated software and computer systems, and we may encounter delays when developing new applications and services. Further, the software underlying our services may contain undetected errors or defects when first introduced or when new versions are released. In addition, we may experience difficulties in installing or integrating our technology on systems or with other programs used by our clients. Defects in our software, errors or delays in the processing of electronic transactions or other difficulties could result in interruption of business operations, delay in market acceptance, additional development and remediation costs, diversion of technical and other resources, loss of clients, negative publicity or exposure to liability claims. Although we attempt to limit our potential liability through disclaimers and limitation of liability provisions in our license and client agreements, we cannot be certain that these measures will successfully limit our liability.

A heightened regulatory environment in the financial services industry may have an adverse impact on our clients and our business.

Since the enactment of the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank Act"), a number of substantial regulations affecting the supervision and operation of the financial services industry within the United States have been adopted, including those that establish the Consumer Financial Protection Bureau ("CFPB"). The CFPB has issued guidance that applies to, and conducts direct examinations of, "supervised banks and nonbanks" as well as "supervised service providers" like us. In addition, federal and state governments and governmental authorities outside the U.S. have adopted or are pursuing numerous additional regulations impacting the financial services industry, including regulations related to cybersecurity and data privacy. To the extent this oversight or regulation negatively impacts the business, operations or financial condition of our clients, our business and results of operations could be materially and adversely affected because, among other matters, our clients could have less capacity to purchase products and services from us, could decide to avoid or abandon certain lines of business, or could seek to pass on increased costs to us by negotiating price reductions. Additional regulation, examination and oversight of us could require us to modify the manner in which we contract with or provide products and services to our clients; directly or indirectly limit how much we can charge for our services; require us to invest additional time and resources to comply with such oversight and regulations; or limit our ability to update our existing products and services, or require us to develop new ones. Any of these events, if realized, could have a material adverse effect on our business, results of operations and financial condition.

If we fail to comply with applicable regulations, our businesses could be harmed.

If we fail to comply with regulations applicable to our business, including cybersecurity and data privacy regulations, we could be exposed to litigation or regulatory proceedings, our client relationships and reputation could be harmed, and we could be inhibited in our ability to obtain new clients, which could have a material adverse impact on our business, results of operations and financial condition. In addition, the future enactment of more restrictive laws or rules on the federal or state level, or, with respect to our international operations, in foreign jurisdictions on the national, provincial, state or other level, could have a material adverse impact on our business, results of operations and financial condition.

Our failure to comply with a series of complex regulations in our payments businesses could subject us to liability.

Certain of our subsidiaries are licensed as money transmitters in those jurisdictions where such licensure is required. In connection with such licensure, we are required to demonstrate and maintain certain levels of net worth and liquidity and to file periodic reports. In addition, our direct-to-consumer payments businesses, including our walk-in bill payment, online bill payment, digital disbursements, and Popmoney person-to-person payment services, are subject to federal regulation in the United States, including anti-money laundering regulations and certain restrictions on transactions to or from certain individuals or entities. The complexity of these regulations will continue to increase our cost of doing business. In addition, any violations of law may result in civil or criminal penalties against us and our officers, or the prohibition against us providing money transmitter services in particular jurisdictions.

If we fail to comply with the applicable requirements of NACHA and the payment card networks, they could seek to fine us, suspend us or terminate our registrations which could adversely affect our business.

We are subject to rules of the National Automated Clearing House Association (“NACHA”) as well as card association and network rules governing Visa, MasterCard, American Express, Discover or other similar organizations, including the Payment Card Industry Data Security Standard enforced by the major card brands. The rules of NACHA and the card networks are set by their respective boards, and the card network rules may be influenced by card issuers, some of which offer competing transaction processing services. If we fail to comply with these rules, we could be fined, our certifications could be suspended, or our certifications could be terminated. The suspension or termination of our certifications, or any changes to the association and network rules, that we do not successfully address, or any other action by the card networks to restrict our ability to process transactions over such networks, could limit our ability to provide transaction processing services to clients and result in a reduction of revenue or increased costs of operation, which, in either case, could have a material adverse effect on our business and results of operations.

We may be sued for infringing the intellectual property rights of others.

Third parties may claim that we are infringing their intellectual property rights. We may expose ourselves to additional liability if we agree to indemnify our clients against third party infringement claims. If the owner of intellectual property establishes that we are, or a client which we are obligated to indemnify is, infringing its intellectual property rights, we may be forced to change our products or services, and such changes may be expensive or impractical, or we may need to seek royalty or license agreements from the owner of such rights. If we are unable to agree on acceptable terms, we may be required to discontinue the sale of key products or halt other aspects of our operations. We may also be liable for financial damages for a violation of intellectual property rights, and we may incur expenses in connection with indemnifying our clients against losses suffered by them. Any adverse result related to violation of third party intellectual property rights could materially and adversely harm our business, results of operations and financial condition. Even if intellectual property claims brought against us are without merit, they may result in costly and time-consuming litigation and may require significant attention from our management and key personnel.

Misappropriation of our intellectual property and proprietary rights could impair our competitive position.

Our ability to compete depends upon proprietary systems and technology. We actively seek to protect our proprietary rights. Nevertheless, unauthorized parties may attempt to copy aspects of our services or to obtain and use information that we regard as proprietary. The steps we have taken may not prevent misappropriation of technology. Agreements entered into for that purpose may not be enforceable or provide us with an adequate remedy. Effective patent, trademark, service mark, copyright and trade secret protection may not be available in every country in which our applications and services are made available. Misappropriation of our intellectual property or potential litigation concerning such matters could have a material adverse effect on our business, results of operations and financial condition.

Acquisitions subject us to risks, including increased debt, assumption of unforeseen liabilities and difficulties in integrating operations.

A major contributor to our growth in revenue and earnings since our inception has been our ability to identify, acquire and integrate complementary businesses. We anticipate that we will continue to seek to acquire complementary businesses, products and services. We may not be able to identify suitable acquisition candidates or complete acquisitions in the future, which could adversely affect our future growth; or businesses that we acquire may not perform as well as expected or may be more difficult to integrate and manage than expected, which could adversely affect our business and results of operations. We may not be able to integrate all aspects of acquired businesses successfully or realize the potential benefits of bringing them together. In addition, the process of integrating these acquisitions may disrupt our business and divert our resources.

These risks may arise for a number of reasons: we may not be able to find suitable businesses to acquire at affordable valuations or on other acceptable terms; we may face competition for acquisitions from other potential acquirers; we may need to borrow money or sell equity or debt securities to the public to finance future acquisitions and the terms of these financings may be adverse to us; changes in accounting, tax, securities or other regulations could increase the difficulty or cost for us to complete acquisitions; we may incur unforeseen obligations or liabilities in connection with acquisitions; we may need to devote unanticipated financial and management resources to an acquired business; we may not realize expected operating efficiencies or product integration benefits from an acquisition; we could enter markets where we have minimal prior experience; and we may experience decreases in earnings as a result of non-cash impairment charges.

We may be obligated to indemnify the purchasers of businesses pursuant to the terms of the relevant purchase and sale agreements.

We have in the past and may in the future sell businesses. In connection with sales of businesses, we may make representations and warranties about the businesses and their financial affairs and agree to retain certain liabilities associated with our operation of the businesses prior to their sale. Our obligation to indemnify the purchasers and agreement to retain liabilities could have a material adverse effect on our business, results of operations and financial condition.

The failure to attract and retain key personnel could have a material adverse effect on our business.

We depend on the experience, skill and contributions of our senior management and other key employees. If we fail to attract, motivate and retain highly qualified management, technical, compliance and sales personnel, our future success could be harmed. Our senior management provides strategic direction for our company, and if we lose members of our leadership team, our management resources may have to be diverted from other priorities to address this loss. Our products and services require sophisticated knowledge of the financial services industry, applicable regulatory and industry requirements, computer systems, and software applications, and if we cannot hire or retain the necessary skilled personnel, we could suffer delays in new product development, experience difficulty complying with applicable requirements or otherwise fail to satisfy our clients' demands.

Our business may be adversely impacted by U.S. and global market and economic conditions.

For the foreseeable future, we expect to continue to derive most of our revenue from products and services we provide to the financial services industry. Given this concentration, we are exposed to the global economic conditions in the financial services industry. A prolonged poor economic environment could result in significant decreases in demand by current and potential clients for our products and services and in the number and dollar amount of transactions we process, which could have a material adverse effect on our business, results of operations and financial condition.

The market for our electronic transaction services continues to evolve and may not continue to develop or grow rapidly enough to sustain profitability.

If the number of electronic transactions does not continue to grow, or if consumers or businesses do not continue to adopt our services, it could have a material adverse effect on our business, results of operations and financial condition. We believe future growth in the electronic transactions market will be driven by a combination of factors including speed, cost, ease-of-use, security and quality of products and services offered to consumers and businesses.

Uncertainties in the interpretation and application of the 2017 Tax Cuts and Jobs Act could cause us to modify current estimates about the impact that it will have on us, which could negatively impact our anticipated earnings and have an adverse effect on our results of operations and cash flow.

On December 22, 2017, the U.S. government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "Tax Act"). The Tax Act significantly revises the U.S. corporate income tax code by, among other things, lowering corporate income tax rates, implementing a territorial-style tax system and imposing a repatriation tax on deemed repatriated earnings of foreign subsidiaries. Our financial results for 2018 included additional income tax expense of

approximately \$19 million resulting from new interpretive guidance issued by the Internal Revenue Service. Further analysis of this complex legislation or future regulations or guidance from the Internal Revenue Service, the Securities and Exchange Commission or the Financial Accounting Standards Board could cause us to adjust current estimates in future periods, which could impact our earnings and have an adverse effect on our results of operations and cash flow.

Our balance sheet includes significant amounts of goodwill and intangible assets. The impairment of a significant portion of these assets would negatively affect our results of operations.

Our balance sheet includes goodwill and intangible assets that represent 70% of our total assets at December 31, 2018. These assets consist primarily of goodwill and identified intangible assets associated with our acquisitions. On at least an annual basis, we assess whether there have been impairments in the carrying value of goodwill. In addition, we review intangible assets for impairment whenever events or changes in circumstances indicate the carrying amount of the asset may not be recoverable. If the carrying value of the asset is determined to be impaired, then it is written down to fair value by a charge to operating earnings. An impairment of a significant portion of goodwill or intangible assets could have a material negative effect on our results of operations.

Increased leverage may harm our financial condition and results of operations.

As of December 31, 2018, we had approximately \$6.0 billion of debt. We and our subsidiaries may incur additional indebtedness in the future. Our indebtedness could: decrease our ability to obtain additional financing for working capital, capital expenditures, general corporate or other purposes; limit our flexibility to make acquisitions; increase our cash requirements to support the payment of interest; limit our flexibility in planning for, or reacting to, changes in our business and our industry; and increase our vulnerability to adverse changes in general economic and industry conditions. Our ability to make payments of principal and interest on our indebtedness depends upon our future performance, which will be subject to general economic conditions and financial, business and other factors affecting our consolidated operations, many of which are beyond our control. In addition, if our outstanding senior notes are downgraded to below investment grade, we may incur additional interest expense. If we are unable to generate sufficient cash flow from operations in the future to service our debt and meet our other cash requirements, we may be required, among other things: to seek additional financing in the debt or equity markets; to refinance or restructure all or a portion of our indebtedness; or to reduce or delay planned capital or operating expenditures. Such measures might not be sufficient to enable us to service our debt and meet our other cash requirements. In addition, any such financing, refinancing or sale of assets might not be available at all or on economically favorable terms.

Risks Relating to the Proposed Merger with First Data

The merger is subject to a number of conditions to our and First Data's obligations to complete the merger, which, if not fulfilled, or not fulfilled in a timely manner, may result in termination of the merger agreement.

Our and First Data's respective obligations to effect the merger are subject to the satisfaction at or prior to the effective time of the merger of the following conditions:

- First Data's stockholders must approve the consummation of the merger;
- our shareholders must approve the issuance of shares to First Data shareholders in connection with the merger;
- the shares of our common stock that will be issued in the merger must have been approved for listing on NASDAQ;
- our Form S-4 registration statement filed in connection with the merger must become effective under the Securities Act of 1933 and no stop order suspending its effectiveness may be in effect;
- no injunctions or decrees by any relevant governmental entity that prevent the merger may be outstanding;
- all requisite regulatory approvals, both antitrust or otherwise and both U.S. and non-U.S., must have been obtained;
- subject to certain exceptions and materiality standards provided in the merger agreement, the representations and warranties of the other party must be true and correct;
- the other party must have performed or complied with in all material respects all of its obligations under the merger agreement;
- each party must have received a tax opinion from its respective counsel to the effect that the merger will constitute a "reorganization" under the Internal Revenue Code; and

- our board of directors must have adopted amended by-laws and we must have taken all other steps necessary to effect the governance structure of the combined company as contemplated in the merger agreement.

Many of the conditions to completion of the merger are not within our or First Data's control, and we cannot predict when, or if, these conditions will be satisfied. If any of these conditions are not satisfied or waived prior to October 16, 2019, which date may be extended once to January 16, 2020, and extended a second time to April 16, 2020, it is possible that the merger agreement may be terminated. Although we and First Data have agreed in the merger agreement to use reasonable best efforts, subject to certain limitations, to complete the merger as promptly as practicable, these and other conditions to the completion of the merger may fail to be satisfied. In addition, satisfying the conditions to and completion of the merger may take longer, and could cost more, than we expect. We cannot predict whether and when these other conditions will be satisfied. Furthermore, the requirements for obtaining the required clearances and approvals could delay the completion of the merger for a significant period of time or prevent them from occurring. Any delay in completing the merger may adversely affect the cost savings and other benefits that we expect to achieve if the merger and the integration of the companies' respective businesses are completed within the expected timeframe. There can be no assurance that all required regulatory approvals will be obtained, or obtained prior to the termination date.

The merger is subject to the receipt of consents and clearances from domestic and foreign regulatory authorities that may impose conditions that could have a material adverse effect on us following the merger, or, if not obtained, could prevent the completion of the merger.

Before the merger can be completed, waiting periods must expire or terminate under applicable antitrust laws, including the HSR Act, and various approvals, consents or clearances must be obtained from certain other U.S. and non-U.S. regulatory authorities. In deciding whether to grant antitrust or regulatory clearances, the relevant authorities will consider the effect of the merger on competition in the case of competition authorities and a variety of other factors, in the case of other authorities. Although we and First Data have agreed in the merger agreement to use reasonable best efforts to make certain governmental filings and, subject to certain limitations, obtain the required governmental authorizations, as the case may be, there can be no assurance that the relevant authorizations will be obtained.

The governmental authorities from which these authorizations are required have broad discretion in administering the governing regulations. The terms and conditions of approvals that are granted may require that the parties divest certain businesses, assets, or products prior to or after the closing of the merger or impose requirements, limitations, costs or restrictions on the conduct of us following the closing of the merger. At any time before or after completion of the merger, notwithstanding the termination of the waiting period under the Hart-Scott-Rodino Act, the U.S. Department of Justice or the Federal Trade Commission, or any state or foreign governmental entity, could take such action under the antitrust laws as each deems necessary or desirable in the public interest, including seeking to enjoin the completion of the merger or seeking divestiture of substantial assets of ours or First Data. Private parties also may seek to take legal action under the antitrust laws under certain circumstances.

Under the terms of the merger agreement, subject to certain conditions, both parties are required to use reasonable best efforts to obtain all of the foregoing authorizations or approvals. Notwithstanding the foregoing, "reasonable best efforts" does not require us in connection with obtaining Hart-Scott-Rodino clearance or any other approval required pursuant to any other antitrust or competition law in the United States to (i) defend any lawsuit or challenge any other action by any governmental entity adversely affecting the parties' ability to complete the merger, (ii) sell, divest or otherwise encumber any asset or business or (iii) agree to any limits or restrictions on certain actions.

There can be no assurance that regulators will not impose terms, conditions, requirements, limitations, costs or restrictions that would delay the completion of the merger, impose additional material costs on or limit the revenues of us after the merger, or limit some of the cost savings and other benefits that we expect following completion of the merger. In addition, we cannot provide any assurance that any such terms, conditions, requirements, limitations, costs, or restrictions will not result in the abandonment of the merger. In addition, disruptions in government operations, such as the recent shutdown of the U.S. government, could cause delay in obtaining approvals or increase processing times. Any delay in completing the merger or any modification to the merger currently contemplated may adversely affect the timing and amount of cost savings and other benefits that are expected to be achieved from the merger. There can be no assurance that all required regulatory approvals will be obtained, or obtained prior to the termination date.

Failure to complete the merger could negatively impact our stock price and have a material adverse effect on our results of operations, cash flows and financial position.

If the merger is not completed for any reason, including as a result of failure to obtain all requisite regulatory approvals, if our shareholders fail to approve the issuance of shares to First Data shareholders in connection with the merger or if First Data's shareholders fail to approve the consummation of the merger, our ongoing businesses may be materially adversely affected and, without realizing any of the benefits of having completed the merger, we would be subject to a number of risks, including the following:

- we may experience negative reactions from the financial markets, including negative impacts on their respective stock prices;
- we and our respective subsidiaries may experience negative reactions from their respective customers, distributors, suppliers, vendors, landlords, joint venture partners and other business partners;
- we will still be required to pay certain significant costs relating to the merger, such as costs associated with terminating the financing as well as legal, accounting, financial advisor and printing fees;
- we may be required to pay a cash termination fee equal to \$665 million as required by the merger agreement;
- the merger agreement places certain restrictions on the conduct of the respective businesses pursuant to the terms of the merger agreement, which may have delayed or prevented the respective companies from undertaking business opportunities that, absent the merger agreement, may have been pursued;
- matters relating to the merger (including integration planning) require substantial commitments of time and resources by each company's management, which could have resulted in the distraction of each company's management from ongoing business operations and pursuing other opportunities that could have been beneficial to the companies; and
- litigation related to any failure to complete the merger or related to any enforcement proceeding commenced against us to perform our obligations under the merger agreement.

If the merger is not completed, the risks described above may materialize and they may have a material adverse effect on our results of operations, cash flows, financial position and stock prices.

Our and First Data's business relationships may be subject to disruption due to uncertainty associated with the merger, which could have a material adverse effect on our results of operations, cash flows and financial position following the merger.

Parties with which we or First Data do business may experience uncertainty associated with the merger, including with respect to our or First Data's current or future business relationships following the merger. Our and First Data's business relationships may be subject to disruption as customers, distributors, suppliers, vendors, landlords, joint venture partners and other business partners may attempt to delay or defer entering into new business relationships, negotiate changes in existing business relationships or consider entering into business relationships with parties other than us or First Data following the merger. These disruptions could have a material and adverse effect on our or First Data's results of operations, cash flows and financial position, regardless of whether the merger is completed, as well as a material and adverse effect on our ability to realize the expected cost savings and other benefits of the merger. The risk, and adverse effect, of any disruption could be exacerbated by a delay in completion of the merger or termination of the merger agreement.

Uncertainties associated with the merger may cause a loss of management personnel and other key employees, which could adversely affect our future business and operations following the merger.

We depend on the experience and industry knowledge of officers and other key employees to execute our business plans. Our success after the merger will depend in part upon our ability to retain key management personnel and other key employees. Our and First Data's current and prospective employees may experience uncertainty about their roles following the merger or other concerns regarding the timing and completion of the merger or our operations following the merger, any of which may have an adverse effect on our or First Data's ability to attract or retain key management and other key personnel. If we or First Data are unable to retain personnel, including our and First Data's key management, who are critical to the future operations of the companies, we could face disruptions in our operations, loss of existing customers, loss of key information, expertise or know-how and unanticipated additional recruitment and training costs. In addition, the loss of key personnel could diminish the anticipated benefits of the merger. No assurance can be given that we, following the merger, will be able to retain or attract key management personnel and other key employees to the same extent that we and First Data have previously been able to retain or attract their own employees.

The merger agreement subjects us and First Data to restrictions on our respective business activities prior to the effective time of the merger.

The merger agreement subjects us and First Data to restrictions on our respective business activities prior to the effective time of the merger. The merger agreement obligates us and First Data to generally operate its businesses in the ordinary course until the effective time of the merger and to use its reasonable best efforts to maintain and preserve intact its business organization and advantageous business relationships on its actions. These restrictions could prevent us and First Data from pursuing certain business opportunities that arise prior to the effective time of the merger and are outside the ordinary course of business.

We may not be able to obtain our preferred form of debt financing in connection with the merger and on anticipated terms.

We expect to fund the refinancing of certain outstanding indebtedness of First Data and its subsidiaries on the closing date, making of cash payments in lieu of fractional shares as part of the merger consideration, and paying of fees and expenses related to the merger, the refinancing and the related transactions using a combination of cash on hand, the issuance of \$12 billion in debt securities, the incurrence of \$5 billion in borrowings under a new senior unsecured term loan facility, and borrowings under our revolving credit facility. We have executed a \$5 billion senior unsecured term loan facility and amendments to our existing revolving credit facility to increase the size of that facility and make other changes, although drawing under each facility is subject to certain conditions. With respect to the plan to issue \$12 billion in debt securities, there is a risk that the markets will not allow us to execute this financing plan, or that such financing will not be available on favorable terms. As a result, we may need to pursue other options to refinance the outstanding debt of First Data and its subsidiaries and fund these other amounts, including borrowing amounts under the bridge facility, which may result in less favorable financing terms that could increase costs and/or adversely impact the operations of the combined company.

Risks Relating to Fiserv Following the Proposed Merger with First Data

We may be unable to integrate the business of First Data successfully or realize the anticipated benefits of the merger.

The merger involves the combination of two companies that currently operate as independent public companies. The combination of two independent businesses is complex, costly and time consuming, and we and First Data will be required to devote significant management attention and resources to integrating our and First Data's business practices and operations. Potential difficulties that we may encounter as part of the integration process include the following:

- the inability to successfully combine the business of First Data in a manner that permits us to achieve, on a timely basis, or at all, the enhanced revenue opportunities and cost savings and other benefits anticipated to result from the merger;
- complexities associated with managing the combined businesses, including difficulty addressing possible differences in corporate cultures and management philosophies and the challenge of integrating complex systems, technology, networks and other assets of each of the companies in a seamless manner that minimizes any adverse impact on customers, suppliers, employees and other constituencies; and
- potential unknown liabilities and unforeseen increased expenses or delays associated with the merger.

In addition, we and First Data have operated and, until the completion of the merger, will continue to operate, independently. It is possible that the integration process could result in:

- diversion of the attention of each company's management; and
- the disruption of, or the loss of momentum in, each company's ongoing businesses or inconsistencies in standards, controls, procedures and policies.

Any of these issues could adversely affect our ability to maintain relationships with customers, suppliers, employees and other constituencies or achieve the anticipated benefits of the merger, or could reduce our earnings or otherwise adversely affect the business and financial results following the merger.

Our indebtedness following completion of the merger will be substantially greater than our indebtedness prior to completion of the merger. This increased level of indebtedness could adversely affect us, including by decreasing our business flexibility and increasing our interest expense.

As of December 31, 2018, we had total indebtedness of approximately \$6 billion and First Data had total indebtedness of approximately \$18 billion. Upon completion of the merger, we expect to incur acquisition-related debt financing of approximately \$17 billion, all of which is expected to be used to refinance certain outstanding indebtedness of First Data and its subsidiaries on the closing date, pay cash in lieu of fractional shares as part of the merger consideration, and pay fees and expenses related to the merger, the refinancing and the related transactions. In addition, we have obtained an increase of \$1.5 billion in the commitments available to us under our existing revolving credit facility, which increase is subject to the closing of the merger and certain other conditions. Accordingly, our indebtedness following completion of the merger will be substantially greater than our indebtedness prior to completion of the merger. Our substantially increased indebtedness following completion of the merger could have the effect, among other things, of reducing our flexibility to respond to changing business and economic conditions. In addition, the amount of cash required to pay interest on our increased indebtedness levels will increase following completion of the transaction, and thus the demands on our cash resources will be greater than the amount of cash flows required to service our indebtedness prior to the merger. We will also incur various costs and expenses associated with the financing of the merger. The increased levels of indebtedness following completion of the merger could also reduce funds available to fund our efforts to integrate the business of First Data and realize the expected benefits of the merger and to engage in investments in product development, for working capital, capital expenditures, acquisitions and other general corporate purposes, and may create competitive disadvantages for us relative to other companies with lower debt levels. If we do not achieve the expected benefits and cost savings from the merger, or if the financial performance of the combined company does not meet current expectations, then our ability to service our indebtedness, or to reduce leverage levels based on debt repayment or cash flow generation, may be adversely impacted.

The indebtedness we incur under our new \$5 billion term loan facility in connection with the merger and any indebtedness we incur under our revolving credit facility will bear interest at variable interest rates. If interest rates increase, variable rate debt will create higher debt service requirements, which could adversely affect our cash flows. In addition, our credit ratings impact the cost and availability of future borrowings and, accordingly, our cost of capital. Our ratings reflect each rating organization's opinion of our financial strength, operating performance and ability to meet its debt obligations. In connection with the debt financing, it is anticipated that we will seek ratings of its indebtedness from Moody's Investors Service, Inc. and S&P Global Ratings. There can be no assurance that we will achieve a particular rating or maintain a particular rating in the future or that our ratings will not be adversely affected by the factors described above.

Moreover, we may be required to raise substantial additional financing to fund working capital, capital expenditures, acquisitions or other general corporate requirements. Our ability to arrange additional financing will depend on, among other factors, our financial position and performance, as well as prevailing market conditions and other factors beyond our control. We cannot assure you that it will be able to obtain additional financing on terms acceptable to us or at all.

The estimated potential synergies attributable to the merger may vary from expectations.

We may fail to realize the anticipated benefits and synergies expected from the merger, which could adversely affect our business, financial condition and operating results. The success of the merger will depend, in significant part, on our ability to successfully integrate the acquired business, grow the revenue of the combined company and realize the anticipated strategic benefits and synergies from the combination. We believe that the addition of First Data will complement our strategy by providing scale and revenue diversity, accelerate our growth strategy and enable us to have a strong global footprint. However, achieving these goals requires growth of the revenue of the combined company and realization of the targeted cost synergies expected from the merger. This growth and the anticipated benefits of the transaction may not be realized fully or at all, or may take longer to realize than expected. Actual operating, technological, strategic and revenue opportunities, if achieved at all, may be less significant than expected or may take longer to achieve than anticipated. If we are not able to achieve these objectives and realize the anticipated benefits and synergies expected from the merger within the anticipated timing or at all, our business, financial condition and operating results may be adversely affected.

We expect to incur substantial expenses related to the merger and integration.

We expect to incur substantial expenses in connection with the merger and the related integration. There are a large number of processes, policies, procedures, operations, technologies and systems that may need to be integrated, including purchasing, accounting and finance, sales, payroll, pricing and benefits. While we have assumed that a certain level of expenses will be incurred, there are many factors beyond our control that could affect the total amount or the timing of the integration expenses. Moreover, many of the expenses that will be incurred are, by their nature, difficult to estimate accurately. These expenses could, particularly in the near term, exceed the savings that we expect to achieve from the elimination of duplicative expenses and the realization of economies of scale and cost savings. These integration expenses may result in us taking significant charges against earnings following the completion of the merger, and the amount and timing of such charges are uncertain at present.

Our future results following the merger will suffer if we do not effectively manage our expanded operations.

Following the merger, the size of our business will increase significantly beyond the current size of either our or First Data's business. Our future success will depend, in part, upon our ability to manage this expanded business, which will pose substantial challenges for management, including challenges related to the management and monitoring of new operations and associated increased costs and complexity. We may also face increased scrutiny from governmental authorities as a result of the significant increase in the size of its business. There can be no assurances that we will be successful or that it will realize the expected operating efficiencies, cost savings, revenue enhancements or other benefits currently anticipated from the merger.

Following the merger, our business may be adversely affected by geopolitical, regulatory and other risks associated with operations outside of the United States and we may incur higher than anticipated costs and may become more susceptible to these risks.

After completion of the merger, we will have significantly expanded our international presence by offering merchant acquiring, processing and issuing services outside of the United States, including in Argentina, Brazil, Germany, India, Ireland, the Netherlands, Poland and the United Kingdom, where First Data's principal non-U.S. operations are currently located. Our revenues derived from these and other non-U.S. operations will be subject to additional risks, including those resulting from social and geopolitical instability and unfavorable political or diplomatic developments, all of which could negatively impact our financial results. For example, the United Kingdom's decision to leave the European Union may add cost and complexity in various aspects of our business as United Kingdom and European Union laws and regulations diverge. We will also be subject to potential non-U.S. governmental intervention and new laws and new regulations that we were not previously subject to, which could increase costs and may have potential negative effects on our business.

The merger may result in a loss of customers, distributors, suppliers, vendors, landlords, joint venture partners or other business partners and may result in the termination of existing contracts.

Following the merger, some of our or First Data's customers, distributors, suppliers, vendors, landlords, joint venture partners and other business partners may terminate or scale back their current or prospective business relationships with us. Some customers may not wish to source a larger percentage of their needs from a single company or may feel that we are too closely allied with one of their competitors. In addition, we and First Data have contracts with customers, distributors, suppliers, vendors, landlords, joint venture partners and other business partners that may require us or First Data to obtain consents from these other parties in connection with the merger, which may not be obtained on favorable terms or at all. If relationships with customers, distributors, suppliers, vendors, landlords, joint venture partners and other business partners are adversely affected by the merger, or if we, following the merger, lose the benefits of our or First Data's contracts, our business and financial performance could suffer.

Following the merger, First Data's Global Business Solutions business, as integrated into Fiserv, will depend, in part, on merchant relationships and alliances. If we are unable to maintain these relationships and alliances, our business may be adversely affected.

After completion of the merger, our alliance structures are expected to continue, as they did at First Data, to take different forms, including consolidated subsidiaries, equity method investments, and revenue sharing arrangements. Under First Data's current alliance program (and as is expected to continue with the combined company), a bank or other institution forms an alliance with First Data on an exclusive basis, either contractually or through a separate legal entity. Merchant contracts may be contributed to the alliance by First Data and/or the bank or institution. The banks and other institutions generally provide card association sponsorship, clearing, and settlement services and typically act as a merchant referral source when the institution has an existing banking or other relationship with such merchant. First Data provides transaction processing and related functions. Both First Data and its alliance partners may also provide management, sales, marketing, and other administrative services. The alliance structure allows First Data to be the processor for multiple financial institutions, any one of which may

be selected by the merchant as its bank partner. First Data's Global Business Solutions business, and the combined company, is expected to continue to be, dependent, in part, on merchant relationships, alliances, and other distribution channels. First Data is working, and we expect the combined company to continue to work, with alliance partners to grow their businesses. There can be no guarantee that First Data's, or the combined company's, efforts will be successful and that First Data, or the combined company, will achieve growth in merchant relationships, alliances, and other distribution channels. In addition, First Data's contractual arrangements with merchants and merchant alliance partners are, and the combined company's are expected to continue to be, for fixed terms and may also allow for early termination upon the occurrence of certain events. There can be no assurance that First Data, or the combined company, will be able to renew contractual arrangements with these merchants or merchant alliance partners on similar terms or at all. Following the merger, the loss of merchant relationships or alliance and financial institution partners could negatively impact our business and result in a reduction of its revenue and profit.

New Omaha Holdings L.P. may sell a substantial amount of our common stock shortly after the completion of the merger as certain restrictions on sales expire, and these sales could cause the price of our common stock to fall.

Pursuant to a shareholder agreement, New Omaha Holdings L.P. ("New Omaha"), which is expected to own approximately 16% of our outstanding shares upon the closing of the merger transaction, is prohibited from selling shares of our common stock for the first three months following the completion of the merger. After the three-month anniversary of the completion of the merger, New Omaha may sell such shares, subject to certain limitations contained in the shareholder agreement. Additionally, under the registration rights agreement, we have granted New Omaha registration rights, which permit, among others, underwritten offerings. The registration rights agreement will terminate when the aggregate ownership percentage of the issued and outstanding shares of our common stock held by New Omaha and its affiliate transferees falls below 2% and such shares may be freely sold without restrictions.

New Omaha may have influence over us following completion of the merger and its interests may conflict with other shareholders.

Upon completion of the merger, New Omaha is expected to own approximately 16% of our issued and outstanding shares and is expected to be our largest shareholder. Concurrently with the execution of the merger agreement, we entered into a shareholder agreement and the registration rights agreement with New Omaha, which give New Omaha certain rights. Under the shareholder agreement, New Omaha may designate a director to serve on our board of directors in accordance with the terms thereof until the aggregate ownership percentage of our issued and outstanding shares of common stock held by New Omaha and its affiliate transferees first falls below 5%. The shareholder agreement will terminate when the aggregate ownership percentage of our outstanding shares held by New Omaha and certain of its affiliates falls below 3%. Although there are various restrictions on New Omaha's ability to take certain actions with respect to us and our shareholders (including certain standstill provisions for so long as New Omaha's aggregate ownership percentage of the issued and outstanding shares of our common stock remains at or above 5%), New Omaha may seek to influence, and may be able to influence, us through its appointment of a director to our board of directors and its share ownership.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

As of December 31, 2018, we operated data, development, item processing and support centers in approximately 95 cities. We owned buildings in five locations, and the more than 100 remaining locations where we operated our businesses are subject to leases. We believe that the facilities and equipment that we own and lease are well maintained, are in good operating condition, and are adequate for our business needs. However, we may choose to combine existing operations to enhance business integration. We maintain our own, and contract with multiple service providers to provide, processing back-up in the event of a disaster. We also maintain copies of data and software used in our business in locations that are separate from our facilities.

Item 3. Legal Proceedings

In the normal course of business, we or our subsidiaries are named as defendants in lawsuits in which claims are asserted against us. In the opinion of management, the liabilities, if any, which may ultimately result from such lawsuits are not expected to have a material adverse effect on our consolidated financial statements.

Item 4. Mine Safety Disclosures

Not applicable.

EXECUTIVE OFFICERS OF THE REGISTRANT

The names of our executive officers as of February 21, 2019, together with their ages, positions and business experience are described below:

<u>Name</u>	<u>Age</u>	<u>Title</u>
Jeffery W. Yabuki	58	President, Chief Executive Officer and Director
Robert W. Hau	53	Chief Financial Officer and Treasurer
Lynn S. McCreary	59	Chief Legal Officer and Secretary
Devin B. McGranahan	49	Senior Group President
Kevin J. Schultz	61	Executive Vice President, President, International Group
Byron C. Velehr	55	Chief Administrative Officer

Mr. Yabuki has been a director and our President and Chief Executive Officer since 2005. Before joining Fiserv, Mr. Yabuki served as executive vice president and chief operating officer of H&R Block, Inc., a financial services firm, from 2002 to 2005. From 2001 to 2002, he served as executive vice president of H&R Block and from 1999 to 2001, he served as the president of H&R Block International. From 1987 to 1999, Mr. Yabuki held various executive positions with the American Express Company, a financial services firm, including president and chief executive officer of American Express Tax and Business Services, Inc.

Mr. Hau has served as Chief Financial Officer since 2016. Before joining Fiserv, Mr. Hau served as executive vice president and chief financial officer at TE Connectivity Ltd., a global technology company that designs and manufactures highly engineered connectivity and sensor products, from 2012 to 2016. From 2009 to 2012, he served as executive vice president and chief financial officer at Lennox International Inc., a provider of products and services in the heating, air conditioning, and refrigeration markets; and from 2006 to 2009, he served as vice president and chief financial officer for the aerospace business group of Honeywell International, Inc., a technology and manufacturing company. Mr. Hau joined Honeywell (initially AlliedSignal) in 1987 and served in a variety of senior financial leadership positions, including vice president and chief financial officer for the company's aerospace electronic systems unit and for its specialty materials business group.

Ms. McCreary has served as Chief Legal Officer and Secretary since 2013. Ms. McCreary joined Fiserv in 2010 as senior vice president and deputy general counsel. Prior to joining Fiserv, Ms. McCreary was an attorney with the law firm of Bryan Cave LLP from 1996 to 2010, including serving as managing partner of its San Francisco, California office from its opening in 2008 to 2010. Ms. McCreary began her career in financial services with positions at Citicorp Person-to-Person and Metropolitan Life Insurance Company's mortgage subsidiary, Metmor Financial, Inc.

Mr. McGranahan has served as Senior Group President since 2018 and joined Fiserv in 2016 as group president, Billing and Payments Group. Before joining Fiserv, Mr. McGranahan served as a senior partner at McKinsey & Company, a global management consulting firm. While there, he held a variety of senior management roles, including leader of the global insurance practice from 2013 to 2016 and co-chair of the global senior partner election committee from 2013 to 2015. In addition, Mr. McGranahan served as co-leader of the North America financial services practice from 2009 to 2016. He joined McKinsey in 1992 and served in a variety of other leadership positions prior to 2009, including leader of the North American property and casualty practice and managing partner of the Pittsburgh office.

Mr. Schultz has served as Executive Vice President and President, International Group since 2018. Mr. Schultz joined Fiserv as group president, Digital Banking Group in 2014. Prior to joining Fiserv, Mr. Schultz served as president of global financial services at First Data Corporation, a global payment processing company, from 2009 to 2011, and as global head of processing services at Visa Inc. from 2007 to 2009. He has more than 30 years of experience in the payments and financial services industry, including a variety of other senior leadership roles at Visa Inc. and Global Payments Inc., an electronic transaction processing service provider.

Mr. Velehr has served as Chief Administrative Officer since 2018. Mr. Velehr joined Fiserv in 2013 as group president, Depository Institution Services Group. Prior to joining Fiserv, Mr. Velehr served in a succession of senior executive positions with The Dun & Bradstreet Corporation, a provider of commercial information and business insight solutions, from 2005 to 2013, most recently as president of international and global operations. He also previously served as president and chief operating officer of Northstar Systems International, Inc., a developer of wealth management software (now part of SEI Investments Company), from 2004 to 2005. Mr. Velehr has more than 25 years of experience in the financial services and technology industries, including a variety of executive leadership roles at Merrill Lynch and Strong Capital Management.

PART II

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

Market Price Information

Our common stock is traded on the NASDAQ Global Select Market under the symbol "FISV." At December 31, 2018, our common stock was held by 1,796 shareholders of record and by a significantly greater number of shareholders who hold shares in nominee or street name accounts with brokers. We have never paid dividends on our common stock, and we do not anticipate paying dividends in the foreseeable future. For additional information regarding our expected use of capital, refer to the discussion in this report under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations – Liquidity and Capital Resources."

Issuer Purchases of Equity Securities

The table below sets forth information with respect to purchases made by or on behalf of us or any "affiliated purchaser" (as defined in Rule 10b-18(a)(3) under the Securities Exchange Act of 1934) of shares of our common stock during the three months ended December 31, 2018:

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs (1)	Maximum Number of Shares that May Yet Be Purchased Under the Plans or Programs (1)
October 1-31, 2018	3,000,000	\$ 79.16	3,000,000	31,896,000
November 1-30, 2018	2,860,000	77.93	2,860,000	29,036,000
December 1-31, 2018	3,076,000	74.24	3,076,000	25,960,000
Total	<u>8,936,000</u>		<u>8,936,000</u>	

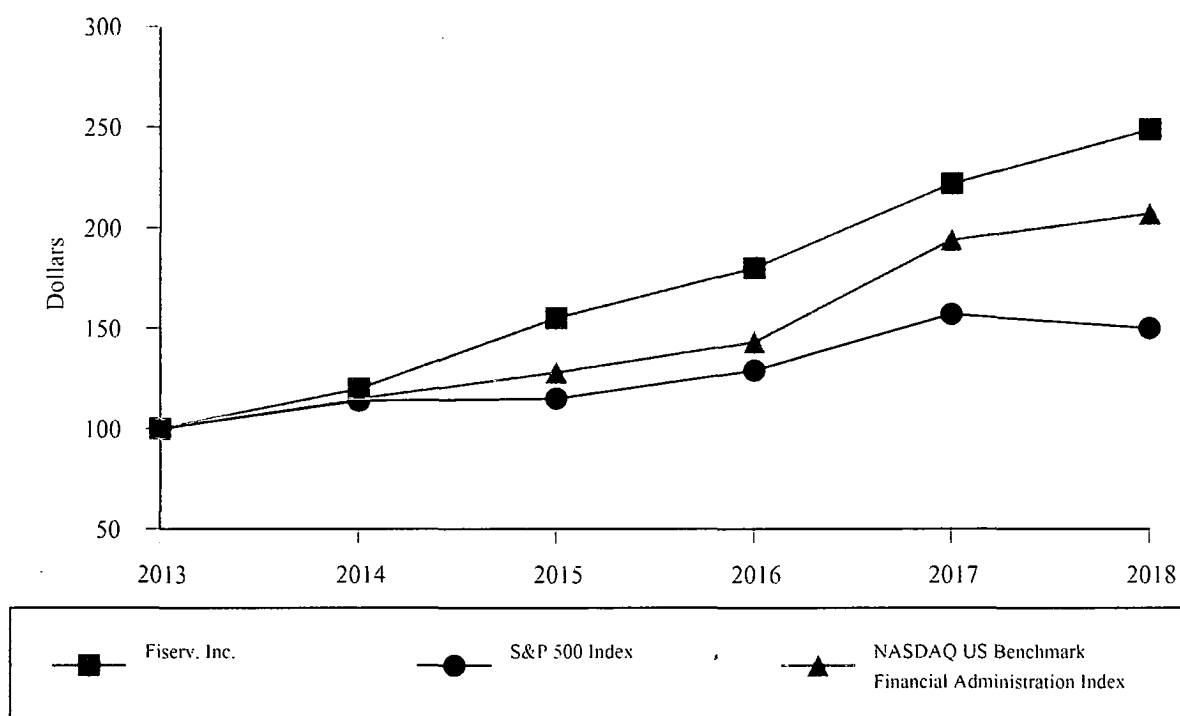
- (1) On each of November 16, 2016 and August 8, 2018, our board of directors authorized the purchase of up to 30.0 million shares of our common stock. These authorizations do not expire. On January 16, 2019, we announced that we had entered into a definitive merger agreement to acquire First Data. We deferred share repurchases as of January 16, 2019 until the close of the First Data acquisition, which is expected to occur during the second half of 2019, subject to customary closing conditions, regulatory approvals and shareholder approval for both companies.

Stock Performance Graph

The stock performance graph and related information presented below is not deemed to be “soliciting material” or to be “filed” with the Securities and Exchange Commission or subject to Regulation 14A or 14C under the Securities Exchange Act of 1934 or to the liabilities of Section 18 of the Securities Exchange Act of 1934 and will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934, except to the extent we specifically incorporate it by reference into such a filing.

The following graph compares the cumulative total shareholder return on our common stock for the five years ended December 31, 2018 with the S&P 500 Index and the NASDAQ US Benchmark Financial Administration Index. The graph assumes that \$100 was invested on December 31, 2013 in our common stock and each index and that all dividends were reinvested. No cash dividends have been declared on our common stock. The comparisons in the graph are required by the Securities and Exchange Commission and are not intended to forecast or be indicative of possible future performance of our common stock.

COMPARISON OF FIVE YEAR CUMULATIVE TOTAL RETURN AMONG FISERV, INC., S&P 500 INDEX,
AND NASDAQ US BENCHMARK FINANCIAL ADMINISTRATION INDEX
(ASSUMES INITIAL INVESTMENT OF \$100 AND REINVESTMENT OF DIVIDENDS)



	December 31,					
	2013	2014	2015	2016	2017	2018
Fiserv, Inc.	\$ 100	\$ 120	\$ 155	\$ 180	\$ 222	\$ 249
S&P 500 Index	100	114	115	129	157	150
NASDAQ US Benchmark Financial Administration Index	100	115	128	143	194	207

Item 6. Selected Financial Data

The following data should be read in conjunction with the consolidated financial statements and accompanying notes included elsewhere in this Annual Report on Form 10-K. The selected historical data presented below has been affected by acquisitions and dispositions, transactional gains recorded by our unconsolidated affiliate, debt extinguishment and refinancing activities, the tax effects related to share-based payment awards, and by the Tax Cuts and Jobs Act enacted in December 2017. In addition, total assets and long-term debt have been adjusted on a retrospective basis for the adoption of Accounting Standards Update (“ASU”) No. 2015-17, *Balance Sheet Classification of Deferred Taxes*, and ASU No. 2015-03, *Simplifying the Presentation of Debt Issuance Costs* effective December 31, 2015. Accordingly, current deferred tax assets have been reclassified to noncurrent assets and liabilities, and certain debt issuance costs previously included within other long-term assets have been reclassified as a reduction in long-term debt. Effective January 1, 2018, we adopted ASU No. 2014-09, *Revenue from Contracts with Customers*, and its related amendments using the modified retrospective transition approach applied to all contracts. Under this transition approach, prior period amounts have not been restated. All per share amounts are presented on a split-adjusted basis to retroactively reflect the two-for-one stock split that was completed in the first quarter of 2018.

(In millions, except per share data)	2018	2017	2016	2015	2014
Total revenue	\$ 5,823	\$ 5,696	\$ 5,505	\$ 5,254	\$ 5,066
Income from continuing operations	\$ 1,187	\$ 1,232	\$ 930	\$ 712	\$ 754
Income from discontinued operations	—	14	—	—	—
Net income	<u>\$ 1,187</u>	<u>\$ 1,246</u>	<u>\$ 930</u>	<u>\$ 712</u>	<u>\$ 754</u>
Net income per share - basic:					
Continuing operations	\$ 2.93	\$ 2.92	\$ 2.11	\$ 1.52	\$ 1.52
Discontinued operations	—	0.03	—	—	—
Total	<u>\$ 2.93</u>	<u>\$ 2.95</u>	<u>\$ 2.11</u>	<u>\$ 1.52</u>	<u>\$ 1.52</u>
Net income per share - diluted:					
Continuing operations	\$ 2.87	\$ 2.86	\$ 2.08	\$ 1.49	\$ 1.49
Discontinued operations	—	0.03	—	—	—
Total	<u>\$ 2.87</u>	<u>\$ 2.89</u>	<u>\$ 2.08</u>	<u>\$ 1.49</u>	<u>\$ 1.49</u>
Total assets	\$ 11,262	\$ 10,289	\$ 9,743	\$ 9,340	\$ 9,308
Long-term debt (including current maturities)	5,959	4,900	4,562	4,293	3,790
Shareholders' equity	2,293	2,731	2,541	2,660	3,295

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

Management's discussion and analysis of financial condition and results of operations is provided as a supplement to our consolidated financial statements and accompanying notes to help provide an understanding of our financial condition, the changes in our financial condition and our results of operations. Our discussion is organized as follows:

- *Overview.* This section contains background information on our company and the services and products that we provide, acquisitions and dispositions, our enterprise priorities, and the trends affecting our industry in order to provide context for management's discussion and analysis of our financial condition and results of operations.
- *Critical accounting policies and estimates.* This section contains a discussion of the accounting policies that we believe are important to our financial condition and results of operations and that require judgment and estimates on the part of management in their application. In addition, all of our significant accounting policies, including critical accounting policies, are summarized in Note 1 to the accompanying consolidated financial statements.
- *Results of operations.* This section contains an analysis of our results of operations presented in the accompanying consolidated statements of income by comparing the results for the year ended December 31, 2018 to the results for the year ended December 31, 2017 and by comparing the results for the year ended December 31, 2017 to the results for the year ended December 31, 2016.
- *Liquidity and capital resources.* This section provides an analysis of our cash flows and a discussion of our outstanding debt and commitments at December 31, 2018.

Overview

Company Background

We are a leading global provider of financial services technology. We provide account processing systems, electronic payments processing products and services, internet and mobile banking systems, and related services. We serve over 12,000 clients worldwide, including banks, credit unions, investment management firms, leasing and finance companies, billers, retailers, and merchants. The majority of our revenue is generated from recurring account- and transaction-based fees under contracts that generally have terms of three to five years and high renewal rates. Most of the services we provide are necessary for our clients to operate their businesses and are, therefore, non-discretionary in nature.

Our operations are principally located in the United States and are comprised of the Payments and Industry Products (“Payments”) segment and the Financial Institution Services (“Financial”) segment. The Payments segment primarily provides electronic bill payment and presentment services, internet and mobile banking software and services, account-to-account transfers, person-to-person payment services, debit and credit card processing and services, payments infrastructure services, and other electronic payments software and services. Our businesses in this segment also provide card and print personalization services, investment account processing services for separately managed accounts, and fraud and risk management products and services. The Financial segment provides financial institutions with account processing services, item processing and source capture services, loan origination and servicing products, cash management and consulting services, and other products and services that support numerous types of financial transactions. Corporate and Other primarily consists of intercompany eliminations, amortization of acquisition-related intangible assets, unallocated corporate expenses and other activities that are not considered when management evaluates segment performance, such as gains on sales of businesses and associated transition services.

On February 21, 2018, our board of directors declared a two-for-one stock split of our common stock and a proportionate increase in the number of our authorized shares of common stock. The additional shares were distributed on March 19, 2018 to shareholders of record at the close of business on March 5, 2018. Our common stock began trading at the split-adjusted price on March 20, 2018. All share and per share amounts are retroactively presented on a split-adjusted basis.

Acquisitions and Dispositions

We frequently review our portfolio to ensure we have the right set of businesses to execute on our strategy. We expect to acquire businesses when we identify: a compelling strategic need, such as a product, service or technology that helps meet client demand; an opportunity to change industry dynamics; a way to achieve business scale; or similar considerations. We expect to divest businesses that are not in line with our market, product or financial strategies.

On January 16, 2019, we announced that we had entered into a definitive merger agreement to acquire First Data in an all-stock transaction for an equity value of approximately \$22 billion as of the announcement. The transaction is expected to close during the second half of 2019, subject to customary closing conditions, regulatory approvals and shareholder approval for both companies. First Data is a global leader in commerce-enabling technology and solutions for merchants, financial institutions, and card issuers.

On October 31, 2018, we acquired the debit card processing, ATM Managed Services, and Money Pass[®] surcharge-free network of Elan Financial Services, a unit of U.S. Bancorp, for approximately \$660 million including estimated post-closing working capital adjustments, contingent consideration related to earn-out provisions and future payments under a transition services agreement in excess of fair value. This acquisition, included within the Payments segment, deepens our presence in debit card processing, broadens our client reach and scale, and provides new solutions to enhance the value proposition for our existing debit solution clients.

During 2017, we completed four acquisitions for an aggregate purchase price of \$384 million, net of acquired cash, along with earn-out provisions. In January 2017, we completed our acquisition of Online Banking Solutions, Inc. (“OBS”), a provider of cash management and digital business banking solutions that complement and enrich our existing solutions. In July 2017, we acquired the assets of PCLender, LLC (“PCLender”), a leader in internet-based mortgage software and mortgage lending technology solutions. The OBS and PCLender acquisitions are included in the Financial segment as their products are integrated across a number of our account processing solutions and will enable our bank and credit union clients to better serve their commercial and mortgage customers. In August 2017, we acquired Dovetail Group Limited (“Dovetail”), a leading provider of bank payments and liquidity management solutions. In September 2017, we completed our acquisition of Monitise plc (“Monitise”), a provider of digital solutions that enables innovative digital banking experiences for leading financial institutions worldwide. The Dovetail and Monitise acquisitions are included in the Payments segment and are expected to further enable us to help financial institutions around the world transform their payments infrastructure and to expand our digital leadership, respectively.

In 2016, we acquired the Convenience Pay Services business of Hewlett Packard Enterprise Company and completed our purchase of the Community Financial Services business of ACI Worldwide, Inc. for an aggregate purchase price of \$265 million. These acquisitions expand our biller solution offerings and enhance our suite of digital banking and payments solutions, and are included in the Payments segment.

In March 2018, we sold a 55% interest of our Lending Solutions business, which was reported within the Financial segment, retaining 45% ownership interests in two joint ventures (the "Lending Joint Ventures"), in conjunction with this transaction, we entered into transition services agreements to provide, at fair value, various administrative, business process outsourcing, technical and data center related services for defined periods to the Lending Joint Ventures. We received gross sale proceeds of \$419 million from the transactions. In addition, in January 2018, we completed the sale of the retail voucher business acquired in our 2017 acquisition of Monitise for proceeds of £37 million (\$50 million), and in May 2017, we sold our Australian item processing business, which was reported within the Financial segment, for approximately \$17 million.

During 2017, StoneRiver Group, L.P. ("StoneRiver"), a joint venture in which we own a 49% interest and account for under the equity method, recognized a net gain on the sale of a business, and in 2016, recognized a net gain on the sale of a business interest. Our pre-tax share of the net gains and related expenses on these transactions was \$26 million in 2017 and \$146 million in 2016, with related tax expenses of \$9 million and \$54 million, respectively. In addition, we received cash dividends of \$2 million, \$45 million and \$151 million in 2018, 2017 and 2016, respectively, from StoneRiver, which were funded from the sale transactions.

Enterprise Priorities

We continue to implement a series of strategic initiatives to move money and information in a way that moves the world. These strategic initiatives include active portfolio management of our businesses, enhancing the overall value of our existing client relationships, improving operational effectiveness, being disciplined in our allocation of capital, and differentiating our products and services through innovation. Our key enterprise priorities for 2019 are to: (i) continue to build high-quality revenue while meeting our earnings goals; (ii) enhance client relationships with an emphasis on digital and payment solutions; and (iii) deliver innovation and integration which enables differentiated value for our clients. We also expect to devote significant resources to completing the First Data merger and, subject to closing, to integrating First Data into our operations.

Industry Trends

The market for products and services offered by financial institutions continues to evolve rapidly. The traditional financial industry and other market entrants regularly introduce and implement new payment, deposit, risk management, lending, and investment products, and the distinctions among the products and services traditionally offered by different types of financial institutions continue to narrow as they seek to serve the same customers. At the same time, the evolving regulatory and cybersecurity landscape has continued to create a challenging operating environment for financial institutions. For example, legislation such as the Dodd-Frank Wall Street Reform and Consumer Protection Act has generated, and may continue to generate, new regulations impacting the financial industry. These conditions are driving heightened interest in solutions that help financial institutions win and retain customers, generate incremental revenue, comply with regulations and enhance operating efficiency. Examples of these solutions include electronic payments and delivery methods such as internet, mobile and tablet banking, sometimes referred to as "digital channels."

The focus on digital channels by both financial institutions and their customers, as well as the growing volume and types of payment transactions in the marketplace, continues to elevate the data and transaction processing needs of financial institutions. We expect that financial institutions will continue to invest significant capital and human resources to process transactions, manage information, maintain regulatory compliance and offer innovative new services to their customers in this rapidly evolving and competitive environment. We anticipate that we will benefit over the long term from the trend of financial institutions moving from in-house technology to outsourced solutions as they seek to remain current on technology changes in an evolving marketplace. We believe that economies of scale in developing and maintaining the infrastructure, technology, products, services and networks necessary to be competitive in such an environment are essential to justify these investments, and we anticipate that demand for products that facilitate customer interaction with financial institutions, including electronic transactions through digital channels, will continue to increase, which we expect to create revenue opportunities for us.

In addition to the trends described above, the financial institutions marketplace has experienced change in composition as well. During the past 25 years, the number of financial institutions in the United States has declined at a relatively steady rate of approximately 3% per year, primarily as a result of voluntary mergers and acquisitions. Rather than reducing the overall market, these consolidations have transferred accounts among financial institutions. If a client loss occurs due to merger or acquisition, we receive a contract termination fee based on the size of the client and how early in the contract term the contract is terminated. These fees can vary from period to period. Our revenue is diversified, and we have clients that span the entire range of financial institutions in terms of asset size and business model, with our 50 largest financial institution clients

representing less than 25% of our annual revenue. Our focus on long-term client relationships and recurring, transaction-oriented products and services has also reduced the impact that consolidation in the financial services industry has had on us. We believe that the integration of our products and services creates a compelling value proposition for our clients by providing, among other things, new sources of revenue and opportunities to reduce their costs. Furthermore, we believe that our sizable and diverse client base, combined with our position as a leading provider of non-discretionary, recurring revenue-based products and services, gives us a solid foundation for growth.

Critical Accounting Policies and Estimates

Our consolidated financial statements and accompanying notes have been prepared in accordance with accounting principles generally accepted in the United States, which require management to make estimates, judgments and assumptions that affect the reported amount of assets, liabilities, revenue and expenses. We continually evaluate the accounting policies and estimates that we use to prepare our consolidated financial statements, including for recently adopted accounting pronouncements, and base our estimates on historical experience and assumptions that we believe are reasonable in light of current circumstances. Actual amounts and results could differ materially from these estimates.

Acquisitions

From time to time, we make strategic acquisitions that may have a material impact on our consolidated results of operations or financial position. We allocate the purchase price of acquired businesses to the assets acquired and liabilities assumed in the transaction at their estimated fair values. The estimates used to determine the fair value of long-lived assets, such as intangible assets, can be complex and require significant judgments. We use information available to us to make fair value determinations and engage independent valuation specialists, when necessary, to assist in the fair value determination of significant acquired long-lived assets. While we use our best estimates and assumptions as a part of the purchase price allocation process, our estimates are inherently uncertain and subject to refinement. As a result, during the measurement period, which may be up to one year from the acquisition date, we record adjustments to the assets acquired and liabilities assumed, with the corresponding offset to goodwill. Upon the conclusion of the measurement period or final determination of the values of assets acquired or liabilities assumed, whichever comes first, any subsequent adjustments are recorded to our consolidated statements of income. We are also required to estimate the useful lives of intangible assets to determine the amount of acquisition-related intangible asset amortization expense to record in future periods. We periodically review the estimated useful lives assigned to our intangible assets to determine whether such estimated useful lives continue to be appropriate.

Goodwill and Acquired Intangible Assets

We review the carrying value of goodwill for impairment annually, or more frequently if events or circumstances indicate the carrying value may not be recoverable. Goodwill is tested for impairment at a reporting unit level, determined to be at an operating segment level or one level below. When reviewing goodwill for impairment, we consider the amount of excess fair value over the carrying value of each reporting unit, the period of time since a reporting unit's last quantitative test, the extent a reorganization or disposition changes the composition of one or more of our reporting units, and other factors to determine whether or not to first perform a qualitative test. When performing a qualitative test, we assess numerous factors to determine whether it is more likely than not that the fair value of our reporting units are less than their respective carrying values. Examples of qualitative factors that we assess include our share price, our financial performance, market and competitive factors in our industry, and other events specific to our reporting units. If we conclude that it is more likely than not that the fair value of a reporting unit is less than its carrying value, we perform a quantitative impairment test.

The quantitative impairment test compares the fair value of the reporting unit to its carrying value, and recognizes an impairment loss for the amount by which a reporting unit's carrying amount exceeds its fair value, without exceeding the total amount of goodwill allocated to that reporting unit. We determine the fair value of a reporting unit based primarily on the present value of estimated future cash flows. Determining the fair value of a reporting unit involves judgment and the use of significant estimates and assumptions, which include assumptions regarding the revenue growth rates and operating margins used to calculate estimated future cash flows, risk-adjusted discount rates, and future economic and market conditions.

Our most recent impairment assessment in the fourth quarter of 2018 determined that our goodwill was not impaired as the estimated fair values of the respective reporting units substantially exceeded the carrying values.

We review acquired intangible assets for impairment whenever events or changes in circumstances indicate the carrying amount of the asset may not be recoverable. Recoverability is assessed by comparing the carrying amount of the asset to the undiscounted future cash flows expected to be generated by the asset. Measurement of any impairment loss is based on estimated fair value. Given the significance of our goodwill and intangible asset balances, an adverse change in fair value could result in an impairment charge, which could be material to our consolidated financial statements.

Revenue Recognition

We generate revenue from the delivery of processing, service and product solutions. Revenue is measured based on consideration specified in a contract with a customer, and excludes any amounts collected on behalf of third parties. We recognize revenue when we satisfy a performance obligation by transferring control over a product or service to a customer which may be at a point in time or over time. As a practical expedient, we do not adjust the transaction price for the effects of a significant financing component if, at contract inception, the period between customer payment and the transfer of goods or services is expected to be one year or less. Contracts with customers are evaluated on a contract-by-contract basis as contracts may include multiple types of goods and services as described below.

Processing and Services

Processing and services revenue is generated from account- and transaction-based fees for data processing, transaction processing, electronic billing and payment services, electronic funds transfer and debit processing services; consulting and professional services; and software maintenance for ongoing client support.

We recognize processing and services revenues in the period in which the specific service is performed unless they are not deemed distinct from other goods or services in which revenue would then be recognized as control is transferred of the combined goods and services. Our arrangements for processing and services typically consist of an obligation to provide specific services to our customers on a when and if needed basis (a stand-ready obligation) and revenue is recognized from the satisfaction of the performance obligations in the amount billable to the customer. These services are typically provided under a fixed or declining (tier-based) price per unit based on volume of service; however, pricing for services may also be based on minimum monthly usage fees. Fees for our processing and services arrangements are typically billed and paid on a monthly basis.

Product

Product revenue is generated from integrated print and card production sales, as well as software license sales. For software license agreements that are distinct, we recognize software license revenue upon delivery, assuming a contract is deemed to exist. Revenue for arrangements with customers that include significant customization, modification or production of software such that the software is not distinct is typically recognized over time based upon efforts expended, such as labor hours, to measure progress towards completion. For arrangements involving hosted licensed software for the customer, a software element is considered present to the extent the customer has the contractual right to take possession of the software at any time during the hosting period without significant penalty and it is feasible for the customer to either operate the software on their own hardware or contract with another vendor to host the software.

Significant Judgments

We use the following methods, inputs, and assumptions in determining amounts of revenue to recognize. For multi-element arrangements, we account for individual goods or services as a separate performance obligation if they are distinct, the good or service is separately identifiable from other items in the arrangement, and if a customer can benefit from it on its own or with other resources that are readily available to the customer. If these criteria are not met, the promised goods or services are accounted for as a combined performance obligation. Determining whether goods or services are distinct performance obligations that should be accounted for separately may require significant judgment.

Technology or service components from third parties are frequently embedded in or combined with our applications or service offerings. Whether we recognize revenue based on the gross amount billed to a customer or the net amount retained involves judgment that depends on the relevant facts and circumstances including the level of contractual responsibilities and obligations for delivering solutions to end customers.

The transaction price is determined based on the consideration to which we will be entitled in exchange for transferring products or services to the customer. We include any fixed charges within our contracts as part of the total transaction price. To the extent that variable consideration is not constrained, we include an estimate of the variable amount, as appropriate, within the total transaction price and update our assumptions over the duration of the contract. We may constrain the estimated transaction price in the event of a high degree of uncertainty as to the final consideration amount owed because of an extended length of time over which the fees may be adjusted. The transaction price (including any discounts) is allocated between separate goods and services in a multi-element arrangement based on their relative standalone selling prices. For items that are not sold separately, we estimate the standalone selling prices using available information such as market conditions and internally approved pricing guidelines. Significant judgment may be required to determine standalone selling prices for each performance obligation and whether it depicts the amount we expect to receive in exchange for the related good or service.

Contract modifications occur when we and our customers agree to modify existing customer contracts to change the scope or price (or both) of the contract or when a customer terminates some, or all, of the existing services provided by us. When a contract modification occurs, it requires us to exercise judgment to determine if the modification should be accounted for as: (i) a separate contract, (ii) the termination of the original contract and creation of a new contract, or (iii) a cumulative catch up adjustment to the original contract. Further, contract modifications require the identification and evaluation of the performance obligations of the modified contract, including the allocation of revenue to the remaining performance obligations and the period of recognition for each identified performance obligation.

Additional information about our revenue recognition policies is included within Note 2 to the consolidated financial statements.

Results of Operations

Components of Revenue and Expenses

The following summary describes the components of revenue and expenses as presented in our consolidated statements of income.

Processing and Services

Processing and services revenue, which in 2018 represented 85% of our total revenue, is primarily generated from account- and transaction-based fees under contracts that generally have terms of three to five years. Processing and services revenue is most reflective of our business performance as a significant amount of our total operating profit is generated by these services. Cost of processing and services includes costs directly associated with providing services to clients and includes the following: personnel; equipment and data communication; infrastructure costs, including costs to maintain software applications; client support; depreciation and amortization; and other operating expenses.

Product

Product revenue, which in 2018 represented 15% of our total revenue, is primarily derived from integrated print and card production sales, as well as software license sales. Cost of product includes costs directly associated with the products sold and includes the following: costs of materials and software development; personnel; infrastructure costs; depreciation and amortization; and other costs directly associated with product revenue.

Selling, General and Administrative Expenses

Selling, general and administrative expenses primarily consist of: salaries, wages, commissions and related expenses paid to sales personnel, administrative employees and management; advertising and promotional costs; depreciation and amortization; and other selling and administrative expenses.

Financial Results

The following table presents certain amounts included in our consolidated statements of income, the relative percentage that those amounts represent to revenue and the change in those amounts from year to year. This information should be read together with the consolidated financial statements and accompanying notes.

(In millions)			Percentage of Revenue ⁽¹⁾			Increase (Decrease)			
Year ended December 31,	2018	2017	2016	2018	2017	2016	2018 vs. 2017	2017 vs. 2016	
Revenue:									
Processing and services	\$4,975	\$4,833	\$4,625	85.4 %	84.8 %	84.0 %	\$ 142	3 %	\$ 208
Product	848	863	880	14.6 %	15.2 %	16.0 %	(15)	(2)%	(17)
Total revenue	5,823	5,696	5,505	100.0 %	100.0 %	100.0 %	127	2 %	191
Expenses:									
Cost of processing and services	2,324	2,291	2,212	46.7 %	47.4 %	47.8 %	33	1 %	79
Cost of product	745	733	747	87.9 %	84.9 %	84.9 %	12	2 %	(14)
Sub-total	3,069	3,024	2,959	52.7 %	53.1 %	53.8 %	45	1 %	65
Selling, general and administrative	1,228	1,150	1,101	21.1 %	20.2 %	20.0 %	78	7 %	49
Gain on sale of businesses	(227)	(10)	—	(3.9)%	(0.2)%	—	217	n/m	10
Total expenses	4,070	4,164	4,060	69.9 %	73.1 %	73.8 %	(94)	(2)%	104
Operating income	1,753	1,532	1,445	30.1 %	26.9 %	26.2 %	221	14 %	87
Interest expense	(193)	(176)	(163)	(3.3)%	(3.1)%	(3.0)%	17	10 %	13
Loss on early debt extinguishment	(14)	—	—	(0.2)%	—	—	14	n/m	—
Non-operating income (loss)	9	2	(7)	0.2 %	—	(0.1)%	7	n/m	9
Income from continuing operations before income taxes and income from investments in unconsolidated affiliates	\$ 1,555	\$ 1,358	\$ 1,275	26.7 %	23.8 %	23.2 %	\$ 197	15 %	\$ 83

- (1) Percentage of revenue is calculated as the relevant revenue, expense, income or loss amount divided by total revenue, except for cost of processing and services and cost of product amounts which are divided by the related component of revenue.

(In millions)

Year ended December 31,	Payments	Financial	Corporate and Other	Total
Total revenue:				
2018	\$ 3,467	\$ 2,395	\$ (39)	\$ 5,823
2017	3,234	2,530	(68)	5,696
2016	3,090	2,477	(62)	5,505
Revenue growth:				
2018	\$ 233	\$ (135)	\$ 29	\$ 127
2018 percentage	7%	(5)%		2%
2017	\$ 144	\$ 53	\$ (6)	\$ 191
2017 percentage	5%	2 %		3%
Operating income:				
2018	\$ 1,122	\$ 798	\$ (167)	\$ 1,753
2017	1,034	849	(351)	1,532
2016	943	823	(321)	1,445
Operating income growth:				
2018	\$ 88	\$ (51)	\$ 184	\$ 221
2018 percentage	9%	(6)%		14%
2017	\$ 91	\$ 26	\$ (30)	\$ 87
2017 percentage	10%	3 %		6%
Operating margin:				
2018	32.3%	33.3 %		30.1%
2017	32.0%	33.5 %		26.9%
2016	30.5%	33.2 %		26.2%
Operating margin growth: ⁽¹⁾				
2018	30 bps	(20) bps		320 bps
2017	150 bps	30 bps		70 bps

(1) Represents the basis point growth or decline in operating margin.

Total Revenue

Total revenue increased \$127 million, or 2%, in 2018 and increased \$191 million, or 3%, in 2017 compared to the prior years.

Revenue in our Payments segment increased \$233 million, or 7%, in 2018 and increased \$144 million, or 5%, in 2017 compared to the prior years. Revenue from acquired businesses contributed 2% and 1% in 2018 and 2017, respectively, to Payments segment revenue growth. Revenue growth at our card services business contributed approximately 2% and 2.5% in 2018 and 2017, respectively, to the Payments segment revenue growth largely due to increased transaction volumes. Increased volumes also drove revenue growth contributions of 1% in both 2018 and 2017 from our electronic payments business and 1% in 2018 from our biller solutions business.

Revenue in our Financial segment decreased \$135 million, or 5%, in 2018 and increased \$53 million, or 2%, in 2017 compared to the prior years. Dispositions, including the Lending Solutions business, reduced Financial segment revenue growth by 9% in 2018 and 1% in 2017 compared to the prior years. Partially offsetting the decline in 2018, our account processing businesses contributed 2.5% of revenue growth to the Financial segment. Our lending solutions business contributed approximately 2% to the Financial segment revenue growth in 2017, driven by increased volumes.

Revenue at Corporate and Other increased \$29 million in 2018 compared to 2017, primarily due to transition services revenue from the Lending Joint Ventures. Revenue at Corporate and Other was relatively consistent in 2017 and 2016.

Total Expenses

Total expenses decreased \$94 million, or 2%, in 2018 and increased \$104 million, or 3%, in 2017 compared to the prior years. Total expenses as a percentage of total revenue was 69.9%, 73.1% and 73.8% in 2018, 2017 and 2016, respectively. Total expenses and total expenses as a percentage of total revenue were reduced by the \$227 million gain on sale of a 55% interest of our Lending Solutions business in 2018 and by the \$10 million gain on sale of our Australian item processing business in 2017.

Cost of processing and services as a percentage of processing and services revenue was 46.7%, 47.4% and 47.8% in 2018, 2017 and 2016, respectively. Cost of processing and services as a percentage of processing and services revenue was favorably impacted by operating leverage in our recurring revenue businesses in both 2018 and 2017. In 2018, this included improvements of approximately 80 basis points from scalable revenue growth in our Payments segment, and approximately 60 basis points from our account processing businesses driven by product mix and expense management. Cost of processing and services as a percentage of processing and services revenue improvement in 2018 was partially offset by approximately 50 basis points from client-focused incremental investments.

Cost of product as a percentage of product revenue was 87.9% in 2018 and was consistent at 84.9% in 2017 and 2016. Cost of product as a percentage of product revenue in 2018 was largely impacted by additional expenses associated with product development, as well as by approximately 130 basis points due to a decrease in higher-margin software license revenue.

Selling, general and administrative expenses as a percentage of total revenue was 21.1%, 20.2% and 20.0% in 2018, 2017 and 2016, respectively. The disposition of a 55% interest of our Lending Solutions business negatively impacted selling, general and administrative expenses as a percentage of total revenue in 2018 by approximately 50 basis points. Increased costs associated with acquisitions negatively impacted selling, general and administrative expenses as a percentage of total revenue by approximately 30 basis points in 2018 and 40 basis points in 2017 compared to the prior years.

The gain on sale of businesses of \$227 million in 2018 and \$10 million in 2017 resulted from the sales of a 55% interest of our Lending Solutions business and our Australian item processing business, respectively.

Operating Income and Operating Margin

Total operating income increased \$221 million, or 14%, in 2018 and increased \$87 million, or 6%, in 2017 compared to the prior years. Total operating margin increased to 30.1% in 2018 from 26.9% in 2017 and 26.2% in 2016.

Operating income in our Payments segment increased \$88 million, or 9%, in 2018 and increased \$91 million, or 10%, in 2017 compared to the prior years. Operating margin was 32.3%, 32.0% and 30.5% in 2018, 2017 and 2016, respectively, increasing 30 basis points in 2018 and 150 basis points in 2017. Scalable revenue growth positively impacted Payments segment operating margin by approximately 120 basis points and 200 basis points in 2018 and 2017, respectively. Payments segment operating margin improvement was partially offset by 30 basis points in 2018 and 50 basis points in 2017 as a result of acquisitions, and by approximately 50 basis points in 2018 from client-focused incremental investments.

Operating income in our Financial segment decreased \$51 million, or 6%, in 2018 and increased \$26 million, or 3%, in 2017 compared to the prior years. Operating margin was 33.3%, 33.5% and 33.2% in 2018, 2017 and 2016, respectively, decreasing 20 basis points in 2018 and increasing 30 basis points in 2017. Financial segment operating margin in 2018 was reduced by approximately 130 basis points due to the disposition of a 55% interest of our Lending Solutions business and 20 basis points from client-focused incremental investments, partially offset by contributions of approximately 130 basis points from our account processing businesses related to product mix and expense management. Financial segment operating margin in 2017 was positively impacted by approximately 70 basis points from scalable revenue growth, partially offset by 30 basis points from increased expenses associated with incremental investments in innovation-based solutions.

The operating loss in Corporate and Other decreased \$184 million in 2018 and increased \$30 million in 2017 compared to the prior years. Corporate and Other was favorably impacted by gains of \$227 million and \$10 million from the sales of a 55% interest of our Lending Solutions business in 2018 and our Australian item processing business in 2017, respectively. The operating loss in Corporate and Other in 2018 compared to 2017 was primarily impacted by increased professional services expenses for data center consolidation and acquisition integration activities. The operating loss increase in 2017 was primarily attributable to increased acquisition and related integration costs of \$12 million and increased employee benefit expenses, including severance, of \$20 million.

Interest Expense

Interest expense increased \$17 million, or 10%, in 2018 and increased \$13 million, or 8%, in 2017 compared to the prior years. The interest expense increase in 2018 was primarily attributable to the issuance of \$2.0 billion of fixed-rate senior notes. Higher average variable interest rates and higher average outstanding debt contributed approximately \$7 million and \$6 million, respectively, to increased interest expense in 2017 compared to 2016.

Loss on Early Debt Extinguishment

In 2018, we completed a cash tender offer for and redemption of our \$450 million aggregate principal amount of 4.625% senior notes due October 2020, which resulted in a pre-tax loss on early debt extinguishment of \$14 million.

Non-Operating Income (Loss)

Non-operating income in 2018 includes \$4 million of interest income and \$5 million related to the fulfillment of our stand-ready obligations to perform over the term of the Lending Joint Ventures debt guarantees and the associated release from risk. Non-operating income of \$2 million in 2017 was primarily attributable to an unrealized gain on a foreign currency hedge related to our Monitise acquisition. The non-operating loss in 2016 was attributable to a non-cash write-off of a \$7 million cost-method investment.

Income Tax Provision

Income tax provision as a percentage of income from continuing operations before income from investments in unconsolidated affiliates was 24.3%, 11.6% and 38.6% in 2018, 2017 and 2016, respectively. The rate in 2018 was impacted by the enactment of the Tax Cuts and Jobs Act (the "Tax Act"), as further described below, which reduced the U.S. federal corporate tax rate from 35 percent to 21 percent. The rate in 2017 decreased by 20.3% attributable to the Tax Act, and by 3.6% attributable to excess tax benefits from share-based compensation awards recognized as a reduction in the income tax provision as a result of the 2017 adoption of Accounting Standards Update 2016-09, *Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*.

On December 22, 2017, the U.S. government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act. The Tax Act made broad changes to the U.S. tax code, including, but not limited to, (1) reducing the U.S. federal corporate tax rate from 35 percent to 21 percent beginning in 2018; (2) requiring companies to pay a one-time transition tax on certain un-repatriated earnings of foreign subsidiaries; (3) generally eliminating U.S. federal income taxes on dividends from foreign subsidiaries; (4) requiring U.S. federal taxable income to include certain earnings of controlled foreign corporations; and (5) creating a new limitation on deductible interest expense. The provisions of the Tax Act decreased our 2017 effective tax rate by 20.3%, primarily due to the re-evaluation of the net deferred tax liability to reflect the lower federal tax rate of 21 percent.

Income from Investments in Unconsolidated Affiliates

Our share of net income from the Lending Joint Ventures and StoneRiver is reported as income from investments in unconsolidated affiliates and the related tax expense is reported within the income tax provision in the consolidated statements of income. Income from investments in unconsolidated affiliates of \$10 million in 2018 was primarily comprised of our share of earnings from the Lending Joint Ventures. During 2017, StoneRiver recognized a net gain on the sale of a business, and in 2016, recognized a net gain on the sale of a business interest, resulting in our share of StoneRiver income of \$32 million and \$147 million in 2017 and 2016, respectively.

Income from Discontinued Operations

Income from discontinued operations in 2017 included a litigation settlement related to a prior disposition of \$19 million, net of income tax of \$7 million, and earnings related to an acquired business held for sale.

Net Income Per Share - Diluted from Continuing Operations

Net income per share-diluted from continuing operations was \$2.87, \$2.86 and \$2.08 in 2018, 2017 and 2016, respectively. Net income per share-diluted from continuing operations in 2018 was favorably impacted by a gain of \$0.37 per share on the sale of a 55% interest of our Lending Solutions business. Net income per share-diluted from continuing operations was favorably impacted by discrete income tax benefits associated with the Tax Act of \$0.64 per share in 2017 and from our share of net investment gains, primarily from StoneRiver capital transactions, of \$0.05 and \$0.20 per share in 2017 and 2016, respectively. Net income per share-diluted from continuing operations was negatively impacted in 2018, 2017 and 2016 by merger and integration costs of \$0.17, \$0.11 and \$0.08 per share, respectively. The amortization of acquisition-related intangible assets also

reduced net income per share-diluted from continuing operations by \$0.31, \$0.25 and \$0.23 per share in 2018, 2017 and 2016, respectively.

Liquidity and Capital Resources

General

Our primary liquidity needs in the ordinary course of business are: (i) to fund normal operating expenses; (ii) to meet the interest and principal requirements of our outstanding indebtedness; and (iii) to fund capital expenditures and operating lease payments. We believe these needs will be satisfied using cash flow generated by our operations, along with our cash and cash equivalents of \$415 million and available borrowings under our revolving credit facility of \$850 million at December 31, 2018. See below under “First Data Acquisition Financing” for a description of our planned financing to fund the First Data acquisition. The following table summarizes our operating cash flow and capital expenditure amounts for the years ended December 31, 2018 and 2017, respectively.

(In millions)	Year Ended December 31,		Increase (Decrease)	
	2018	2017	\$	%
Income from continuing operations	\$ 1,187	\$ 1,232	\$ (45)	
Depreciation and amortization	556	444	112	
Share-based compensation	73	63	10	
Deferred income taxes	133	(247)	380	
Gain on sale of businesses	(227)	(10)	(217)	
Loss on early debt extinguishment	14	—	14	
Income from investments in unconsolidated affiliates	(10)	(32)	22	
Dividends from unconsolidated affiliates	2	45	(43)	
Non-cash impairment charges	3	18	(15)	
Net changes in working capital and other	(179)	(30)	(149)	
Operating cash flow	<u>\$ 1,552</u>	<u>\$ 1,483</u>	<u>\$ 69</u>	<u>5%</u>
Capital expenditures	<u>\$ 360</u>	<u>\$ 287</u>	<u>\$ 73</u>	<u>25%</u>

Our net cash provided by operating activities, or operating cash flow, was \$1.55 billion in 2018, an increase of 5% compared to \$1.48 billion in 2017. This increase was primarily due to improved operating results, partially offset by an approximate \$30 million impact of accounts receivable timing, other working capital fluctuations including a \$23 million tax payment resulting from new guidance issued by the Internal Revenue Service regarding the Tax Act, and \$43 million of lower cash dividends received from StoneRiver. The dividends received in 2018 and 2017 represented returns on our investment and are reported in cash flows from operating activities.

Our current policy is to use our operating cash flow primarily to fund capital expenditures, for share repurchases (after the closing of the First Data acquisition), and acquisitions, and to repay debt rather than to pay dividends. Our capital expenditures were approximately 6% and 5% of our total revenue in 2018 and 2017, respectively.

Share Repurchases

We purchased \$1.91 billion and \$1.17 billion of our common stock in 2018 and 2017, respectively. On each of November 16, 2016 and August 8, 2018, our board of directors authorized the purchase of up to 30.0 million shares of our common stock. As of December 31, 2018, we had approximately 26.0 million shares remaining under these authorizations. Shares repurchased are generally held for issuance in connection with our equity plans. We deferred share repurchases as of January 16, 2019 until the close of the First Data acquisition, as described below, which is expected to occur during the second half of 2019, subject to customary closing conditions, regulatory approvals and shareholder approval for both companies.

Acquisitions and Dispositions

On January 16, 2019, we announced that we had entered into a definitive merger agreement to acquire First Data in an all-stock transaction for an equity value of approximately \$22 billion as of the announcement. The transaction is expected to close during the second half of 2019, subject to customary closing conditions, regulatory approvals and shareholder approval for both

companies. First Data is a global leader in commerce-enabling technology and solutions for merchants, financial institutions, and card issuers.

On October 31, 2018, we acquired the debit card processing, ATM Managed Services, and Money Pass[®] surcharge-free network of Elan Financial Services, a unit of U.S. Bancorp, for approximately \$660 million including estimated post-closing working capital adjustments, contingent consideration related to earn-out provisions and future payments under a transition services agreement in excess of fair value. We funded this acquisition by utilizing existing availability under our revolving credit facility.

We completed four acquisitions in 2017 for an aggregate purchase price of \$384 million, net of acquired cash, and two acquisitions in 2016 for an aggregate purchase price of \$265 million. We funded these acquisitions by utilizing a combination of available cash and existing availability under our revolving credit facility.

During 2018, we sold a 55% interest of our Lending Solutions business, retaining 45% ownership interests in two joint ventures. We received gross sale proceeds of \$419 million from the transactions. In addition, we completed the sale of the retail voucher business acquired in our 2017 acquisition of Monitise for proceeds of £37 million (\$50 million). In 2017, we sold our Australian item processing business for approximately \$17 million.

Indebtedness

<u>(In millions)</u>	December 31,	
	2018	2017
Revolving credit facility	\$ 1,129	\$ 1,068
2.7% senior notes due 2020	848	846
4.75% senior notes due 2021	399	398
3.5% senior notes due 2022	697	696
3.8% senior notes due 2023	992	—
3.85% senior notes due 2025	895	894
4.2% senior notes due 2028	990	—
4.625% senior notes due 2020	—	449
Term loan	—	540
Other borrowings	9	9
Total debt (including current maturities)	<u>\$ 5,959</u>	<u>\$ 4,900</u>

At December 31, 2018, our debt consisted primarily of \$4.8 billion of fixed-rate senior notes and \$1.1 billion of revolving credit facility borrowings. Interest on our senior notes is paid semi-annually. We were in compliance with all financial debt covenants during 2018. Additional information about our debt structure and associated instruments is included in Note 6 to the consolidated financial statements.

Revolving Credit Facility

In September 2018, we entered into an amended and restated revolving credit agreement that restated our existing \$2.0 billion revolving credit agreement with a syndicate of banks and extended its maturity from April 2020 to September 2023. Borrowings under the amended and restated revolving credit facility continue to bear interest at a variable rate based on LIBOR or on a base rate, plus in each case a specified margin based on our long-term debt rating in effect from time to time. There are no significant commitment fees and no compensating balance requirements. The amended and restated revolving credit facility contains various restrictions and covenants that require us, among other things, to (1) limit our consolidated indebtedness as of the end of each fiscal quarter to no more than three and one-half times our consolidated net earnings before interest, taxes, depreciation, amortization, non-cash charges and expenses and certain other adjustments (“EBITDA”) during the period of four fiscal quarters then ended, subject to certain exceptions, and (2) maintain EBITDA of at least three times our consolidated interest expense as of the end of each fiscal quarter for the period of four fiscal quarters then ended. On February 6, 2019, we entered into an amendment to the amended and restated revolving credit facility to (1) amend the maximum leverage ratio covenant to permit us to elect to increase the permitted maximum leverage ratio from three and one-half times our EBITDA to either four times or four and one-half times our EBITDA for a specified period following certain acquisitions and (2) permit us to make drawings under the revolving credit facility on the closing date of our acquisition of First Data subject to only limited conditions.

On February 15, 2019, we entered into a second amendment to our existing revolving credit agreement in order to increase the aggregate commitments available thereunder by \$1.5 billion and to make certain additional amendments to facilitate the operation of the combined business following the merger. The increased commitments and additional amendments will become effective upon the satisfaction or waiver of conditions that are substantially similar to the conditions to funding under the term loan facility described under “First Data Acquisition Financing” below.

Senior Notes

In September 2018, we completed an offering of \$2.0 billion of senior notes comprised of \$1.0 billion aggregate principal amount of 3.8% senior notes due in October 2023 and \$1.0 billion aggregate principal amount of 4.2% senior notes due in October 2028. The notes pay interest semi-annually on April 1 and October 1, commencing on April 1, 2019. The interest rate applicable to these notes is subject to an increase of up to two percent in the event that the credit rating assigned to such notes is downgraded below investment grade. The indentures governing the senior notes contain covenants that, among other matters, limit (1) our ability to consolidate or merge with or into, or convey, transfer or lease all or substantially all of our properties and assets to, another person, (2) our and certain of our subsidiaries’ ability to create or assume liens, and (3) our and certain of our subsidiaries’ ability to engage in sale and leaseback transactions.

We used the net proceeds from the offering described above to repay the outstanding principal balance of \$540 million under our term loan and the outstanding borrowings under our amended and restated revolving credit facility totaling \$1.1 billion. In addition, we commenced a cash tender offer in September 2018 for any and all of our outstanding \$450 million aggregate principal amount of 4.625% senior notes due October 2020. Upon expiration of the tender offer on September 26, 2018, \$246 million was tendered and \$253 million was paid to all holders of such tendered notes in October 2018. In October 2018, we also retired the remaining outstanding \$204 million aggregate principal amount of 4.625% senior notes.

Debt Guarantees

In connection with the sale of a 55% interest of our Lending Solutions business in March 2018, we have guaranteed underlying debt of the Lending Joint Ventures and do not anticipate that the Lending Joint Ventures will fail to fulfill their debt obligations. This debt is comprised of variable-rate term loan facilities for an aggregate amount of \$350 million in senior unsecured debt and variable-rate revolving credit facilities for an aggregate amount of \$35 million with a syndicate of banks. These debt facilities mature in March 2023, and there are no outstanding borrowings on the revolving credit facilities as of December 31, 2018. We have not made any payments under the guarantees, nor have we been called upon to do so.

First Data Acquisition Financing

In connection with the definitive merger agreement to acquire First Data, on January 16, 2019, we entered into a bridge facility commitment letter pursuant to which a group of financial institutions committed to provide a 364-day senior unsecured bridge term loan facility in an aggregate principal amount of \$17 billion for the purpose of refinancing certain indebtedness of First Data and its subsidiaries on the closing date of the merger, making cash payments in lieu of fractional shares as part of the merger consideration, and paying fees and expenses related to the merger, the refinancing and the related transactions.

On February 15, 2019, we entered into a new term loan credit agreement with a syndicate of financial institutions pursuant to which such financial institutions have committed to provide us with a senior unsecured term loan facility in an aggregate principal amount of \$5.0 billion, consisting of \$1.5 billion in commitments to provide loans with a three-year maturity and \$3.5 billion in commitments to provide loans with a five-year maturity. The aggregate principal amount of the commitments under the term loan credit agreement have replaced a corresponding amount of the commitments in respect of the bridge facility in accordance with the terms of the bridge facility commitment letter. As a result, there are now \$12.0 billion in bridge facility commitments remaining. We expect to replace these remaining commitments with permanent financing in the form of the issuance of debt securities prior to the closing of the merger.

The availability of loans under the term loan facility is subject to the satisfaction or waiver of certain conditions that are substantially consistent with the conditions to the funding of the bridge facility, including (i) the closing of the merger substantially concurrently with the funding of such loans, (ii) the absence of a material adverse effect with respect to First Data since January 16, 2019, (iii) the truth and accuracy in all material respects of certain representations and warranties, (iv) the receipt of certain certificates, and (v) the receipt of certain financial statements. Loans drawn under the term loan facility will be subject to amortization at an annual rate of 5% for the first two years and 7.5% thereafter (with loans outstanding under the five-year tranche subject to amortization at an annual rate of 10% after the fourth anniversary of the commencement of amortization), with accrued and unpaid amortization amounts required to be paid on the last business day in December of each year. Borrowings under the term loan facility will bear interest at variable rates based on LIBOR or on a base rate plus, in each case, a specified margin based on our long-term debt rating in effect from time to time. We are also required to pay a ticking fee that will accrue on the aggregate undrawn commitments under the term loan facility at a per annum rate based upon our long-

term debt rating in effect from time to time. The term loan credit agreement contains affirmative, negative and financial covenants, and events of default, that are substantially the same as those set forth in our existing revolving credit facility, as amended as described above.

Other

Access to capital markets impacts our cost of capital, our ability to refinance maturing debt and our ability to fund future acquisitions. Our ability to access capital on favorable terms depends on a number of factors, including general market conditions, interest rates, credit ratings on our debt securities, perception of our potential future earnings and the market price of our common stock. As of December 31, 2018, we had a corporate credit rating of Baa2 with a stable outlook from Moody's Investors Service, Inc. ("Moody's") and BBB with a stable outlook from Standard & Poor's Ratings Services ("S&P") on our senior unsecured debt securities. Such credit ratings were both affirmed in connection with our definitive merger agreement to acquire First Data.

The interest rates payable on our senior notes and revolving credit facility are subject to adjustment from time to time if Moody's or S&P changes the debt rating applicable to the notes. If the ratings from Moody's or S&P decrease below investment grade, the per annum interest rates on the senior notes are subject to increase by up to two percent. In no event will the total increase in the per annum interest rates exceed two percent above the original interest rates, nor will the per annum interest rate be reduced below the original interest rate applicable to the senior notes.

Off-Balance Sheet Arrangements and Contractual Obligations

We do not participate in, nor have we created, any off-balance sheet variable interest entities or other off-balance sheet financing. The following table details our contractual obligations at December 31, 2018:

(In millions)	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years
Long-term debt including interest ⁽¹⁾⁽²⁾	\$ 7,131	\$ 224	\$ 1,646	\$ 3,127	\$ 2,134
Minimum operating lease payments ⁽¹⁾	430	94	137	91	108
Purchase obligations ⁽¹⁾	500	239	127	11	123
Income tax obligations	49	3	38	8	—
Total	<u>\$ 8,110</u>	<u>\$ 560</u>	<u>\$ 1,948</u>	<u>\$ 3,237</u>	<u>\$ 2,365</u>

(1) Interest, operating lease and purchase obligations are reported on a pre-tax basis.

(2) The calculations assume that only mandatory debt repayments are made, no additional refinancing or lending occurs, and the variable rate on the revolving credit facility is priced at the rate in effect as of December 31, 2018.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Market risk refers to the risk that a change in the level of one or more market prices, interest rates, currency exchange rates, indices, correlations or other market factors, such as liquidity, will result in losses for a certain financial instrument or group of financial instruments. We are exposed primarily to interest rate risk and market price risk on outstanding debt, investments of subscriber funds and foreign currency. Our senior management actively monitors these risks.

We manage our debt structure and interest rate risk through the use of fixed- and floating-rate debt. Based on our outstanding debt with variable interest rates at December 31, 2018, a 1% increase in our borrowing rate would increase annual interest expense in 2019 by approximately \$11 million.

In connection with processing electronic payments transactions, the funds we receive from subscribers are invested into short-term, highly liquid investments from the time we collect the funds until payments are made to the applicable recipients. Subscriber funds are not included in our consolidated balance sheets and can fluctuate significantly based on consumer bill payment and debit card activity. During 2018, the subscriber funds daily average balance approximated \$1.3 billion. A 1% increase or decrease in applicable interest rates would not have a material impact on our annual income from continuing operations.

We conduct business in the United States and in foreign countries and are exposed to foreign currency risk from changes in the value of underlying assets and liabilities of our non-U.S. dollar denominated foreign investments and foreign currency transactions. We have entered into foreign currency forward exchange contracts with total notional values of approximately

\$202 million as of December 31, 2018 to hedge foreign currency exposure to the Indian Rupee. In 2018, approximately 6% of our total revenue was from clients in foreign countries. Risk can be estimated by measuring the impact of a near-term adverse movement of 10% in foreign currency rates against the U.S. dollar. If these rates were 10% higher or lower at December 31, 2018, there would not have been a material impact on our annual income from continuing operations or financial position.

Item 8. Financial Statements and Supplementary Data

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Fiserv, Inc.
Consolidated Statements of Income

In millions, except per share data
Year ended December 31,

	2018	2017	2016
Revenue:			
Processing and services	\$ 4,975	\$ 4,833	\$ 4,625
Product	848	863	880
Total revenue	<u>5,823</u>	<u>5,696</u>	<u>5,505</u>
Expenses:			
Cost of processing and services	2,324	2,291	2,212
Cost of product	745	733	747
Selling, general and administrative	1,228	1,150	1,101
Gain on sale of businesses	(227)	(10)	—
Total expenses	<u>4,070</u>	<u>4,164</u>	<u>4,060</u>
Operating income	1,753	1,532	1,445
Interest expense	(193)	(176)	(163)
Loss on early debt extinguishment	(14)	—	—
Non-operating income (loss)	<u>9</u>	<u>2</u>	<u>(7)</u>
Income from continuing operations before income taxes and income from investments in unconsolidated affiliates	1,555	1,358	1,275
Income tax provision	(378)	(158)	(492)
Income from investments in unconsolidated affiliates	10	32	147
Income from continuing operations	<u>1,187</u>	<u>1,232</u>	<u>930</u>
Income from discontinued operations, net of income taxes	—	14	—
Net income	<u>\$ 1,187</u>	<u>\$ 1,246</u>	<u>\$ 930</u>
Net income per share - basic:			
Continuing operations	\$ 2.93	\$ 2.92	\$ 2.11
Discontinued operations	—	0.03	—
Total	<u>\$ 2.93</u>	<u>\$ 2.95</u>	<u>\$ 2.11</u>
Net income per share - diluted:			
Continuing operations	\$ 2.87	\$ 2.86	\$ 2.08
Discontinued operations	—	0.03	—
Total	<u>\$ 2.87</u>	<u>\$ 2.89</u>	<u>\$ 2.08</u>
Shares used in computing net income per share:			
Basic	405.5	422.3	440.6
Diluted	413.7	431.3	447.8

See accompanying notes to consolidated financial statements.

Fiserv, Inc.
Consolidated Statements of Comprehensive Income

In millions Year ended December 31,	2018	2017	2016
Net income	\$ 1,187	\$ 1,246	\$ 930
Other comprehensive (loss) income:			
Fair market value adjustment on cash flow hedges, net of income tax (benefit) provision of (\$2 million) and \$2 million	(5)	4	—
Reclassification adjustment for net realized gains on cash flow hedges included in cost of processing and services, net of income tax benefit of \$0	(1)	—	—
Reclassification adjustment for net realized losses on cash flow hedges included in interest expense, net of income tax provision of \$2 million, \$4 million and \$5 million	4	6	7
Foreign currency translation	(11)	12	(9)
Total other comprehensive (loss) income	(13)	22	(2)
Comprehensive income	<u>\$ 1,174</u>	<u>\$ 1,268</u>	<u>\$ 928</u>

See accompanying notes to consolidated financial statements.

Fiserv, Inc.
Consolidated Balance Sheets

In millions December 31,	2018	2017
Assets		
Cash and cash equivalents	\$ 415	\$ 325
Trade accounts receivable, less allowance for doubtful accounts	1,049	997
Prepaid expenses and other current assets	760	603
Assets held for sale	—	50
Total current assets	2,224	1,975
Property and equipment, net	398	390
Intangible assets, net	2,143	1,882
Goodwill	5,702	5,590
Contract costs, net	419	84
Other long-term assets	376	368
Total assets	<u>\$ 11,262</u>	<u>\$ 10,289</u>
Liabilities and Shareholders' Equity		
Accounts payable and accrued expenses	\$ 1,626	\$ 1,359
Current maturities of long-term debt	4	3
Contract liabilities	380	576
Total current liabilities	2,010	1,938
Long-term debt	5,955	4,897
Deferred income taxes	745	552
Long-term contract liabilities	89	54
Other long-term liabilities	170	117
Total liabilities	8,969	7,558
Commitments and Contingencies		
Shareholders' Equity		
Preferred stock, no par value: 25.0 million shares authorized; none issued	—	—
Common stock, \$0.01 par value: 1,800.0 million shares authorized; 791.4 million shares issued	8	8
Additional paid-in capital	1,057	1,031
Accumulated other comprehensive loss	(67)	(54)
Retained earnings	11,635	10,240
Treasury stock, at cost, 398.9 million and 376.3 million shares	(10,340)	(8,494)
Total shareholders' equity	2,293	2,731
Total liabilities and shareholders' equity	<u>\$ 11,262</u>	<u>\$ 10,289</u>

See accompanying notes to consolidated financial statements.

Fiserv, Inc.
Consolidated Statements of Shareholders' Equity

In millions	Number of Shares		Amount					
	Common Shares	Treasury Shares	Common Stock	Additional Paid-In Capital	Accumulated Other Comprehensive Loss	Retained Earnings	Treasury Stock	Total Equity
Balance at January 1, 2016	791	340	\$ 8	\$ 948	\$ (74)	\$ 8,064	\$ (6,286)	\$ 2,660
Net income				.		930		930
Other comprehensive loss					(2)			(2)
Share-based compensation				68				68
Shares issued under stock plans including income tax benefits		(4)		—			83	83
Purchases of treasury stock		24					(1,198)	(1,198)
Balance at December 31, 2016	791	360	8	1,016	(76)	8,994	(7,401)	2,541
Net income						1,246		1,246
Other comprehensive income					22			22
Share-based compensation				63				63
Shares issued under stock plans		(4)		(48)			78	30
Purchases of treasury stock		20					(1,171)	(1,171)
Balance at December 31, 2017	791	376	8	1,031	(54)	10,240	(8,494)	2,731
Net income						1,187		1,187
Other comprehensive loss					(13)			(13)
Share-based compensation				73				73
Shares issued under stock plans		(3)		(47)			69	22
Purchases of treasury stock		26					(1,915)	(1,915)
Cumulative-effect adjustment of ASU 2014-09 adoption						208		208
Cumulative-effect adjustment of ASU 2017-12 adoption					3	(3)		—
Cumulative-effect adjustment of ASU 2018-02 adoption					(3)	3		—
Balance at December 31, 2018	791	399	\$ 8	\$ 1,057	\$ (67)	\$ 11,635	\$ (10,340)	\$ 2,293

See accompanying notes to consolidated financial statements.

Fiserv, Inc.
Consolidated Statements of Cash Flows

In millions Year ended December 31,	2018	2017	2016
Cash flows from operating activities:			
Net income	\$ 1,187	\$ 1,246	\$ 930
Adjustment for discontinued operations	—	(14)	—
Adjustments to reconcile net income to net cash provided by operating activities from continuing operations:			
Depreciation and other amortization	393	285	263
Amortization of acquisition-related intangible assets	163	159	158
Share-based compensation	73	63	68
Excess tax benefits from share-based awards	—	—	(51)
Deferred income taxes	133	(247)	21
Gain on sale of businesses	(227)	(10)	—
Loss on early debt extinguishment	14	—	—
Income from investments in unconsolidated affiliates	(10)	(32)	(147)
Dividends from unconsolidated affiliates	2	45	151
Non-cash impairment charges	3	18	17
Other operating activities	(10)	(4)	(2)
Changes in assets and liabilities, net of effects from acquisitions and dispositions:			
Trade accounts receivable	(108)	(75)	(88)
Prepaid expenses and other assets	(6)	(37)	(64)
Contract costs	(137)	(29)	(14)
Accounts payable and other liabilities	116	54	172
Contract liabilities	(34)	61	17
Net cash provided by operating activities from continuing operations	<u>1,552</u>	<u>1,483</u>	<u>1,431</u>
Cash flows from investing activities:			
Capital expenditures, including capitalization of software costs	(360)	(287)	(290)
Proceeds from sale of businesses	419	17	—
Payments for acquisitions of businesses, net of cash acquired	(712)	(384)	(265)
Purchases of investments	(3)	(10)	(1)
Other investing activities	(7)	7	2
Net cash used in investing activities from continuing operations	<u>(663)</u>	<u>(657)</u>	<u>(554)</u>
Cash flows from financing activities:			
Debt proceeds	5,039	2,310	2,126
Debt repayments, including redemption and other costs	(4,005)	(1,985)	(1,863)
Proceeds from issuance of treasury stock	75	78	79
Purchases of treasury stock, including employee shares withheld for tax obligations	(1,946)	(1,223)	(1,245)
Excess tax benefits from share-based awards	—	—	51
Other financing activities	(5)	—	—
Net cash used in financing activities from continuing operations	<u>(842)</u>	<u>(820)</u>	<u>(852)</u>
Net change in cash and cash equivalents from continuing operations	47	6	25
Net change in cash and cash equivalents from discontinued operations	43	19	—
Cash and cash equivalents, beginning balance	325	300	275
Cash and cash equivalents, ending balance	<u>\$ 415</u>	<u>\$ 325</u>	<u>\$ 300</u>
Discontinued operations cash flow information:			
Net cash (used in) provided by operating activities	\$ (7)	\$ 19	\$ —
Net cash provided by investing activities	50	—	—
Net change in cash and cash equivalents from discontinued operations	<u>\$ 43</u>	<u>\$ 19</u>	<u>\$ —</u>

See accompanying notes to consolidated financial statements.

Fiserv, Inc.
Notes to Consolidated Financial Statements

1. Summary of Significant Accounting Policies

Description of the Business

Fiserv, Inc. and its subsidiaries (collectively, the “Company”) provide financial services technology to clients worldwide, including banks, credit unions, investment management firms, leasing and finance companies, billers, retailers, and merchants. The Company provides account processing systems, electronic payments processing products and services, internet and mobile banking systems, and related services. The Company is principally located in the United States where it operates data and transaction processing centers, provides technology support, develops software and payment solutions, and offers consulting services.

The Company’s operations are comprised of the Payments and Industry Products (“Payments”) segment and the Financial Institution Services (“Financial”) segment. Additional information regarding the Company’s business segments is included in Note 10.

Principles of Consolidation

The consolidated financial statements include the accounts of Fiserv, Inc. and all 100% owned subsidiaries. Investments in less than 50% owned affiliates in which the Company has significant influence but not control are accounted for using the equity method of accounting. All intercompany transactions and balances have been eliminated in consolidation.

Stock Split

On February 21, 2018, the Company’s board of directors declared a two-for-one stock split of the Company’s common stock and a proportionate increase in the number of its authorized shares of common stock. The additional shares were distributed on March 19, 2018 to shareholders of record at the close of business on March 5, 2018. The Company’s common stock began trading at the split-adjusted price on March 20, 2018. All share and per share amounts are retroactively presented on a split adjusted basis. The impact on the consolidated balance sheets of the stock split was an increase of \$4 million to common stock and an offsetting reduction in additional paid-in capital, which has been retroactively restated.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ materially from those estimates.

Recent Accounting Pronouncements

Recently Adopted Accounting Pronouncements

In February 2018, the Financial Accounting Standards Board (“FASB”) issued ASU No. 2018-02, *Income Statement Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income* (“ASU 2018-02”), which allows a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects of the change in the U.S. federal corporate tax rate resulting from the Tax Cuts and Jobs Act (the “Tax Act”) enacted in December 2017. ASU 2018-02 is effective for fiscal years, including interim periods within those fiscal years, beginning after December 15, 2018, with early adoption permitted. The Company early adopted ASU 2018-02 in the first quarter of 2018, and elected to reclassify the Tax Act income tax benefits of \$3 million from accumulated other comprehensive loss to retained earnings.

In August 2017, the FASB issued ASU No. 2017-12, *Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities* (“ASU 2017-12”), which provides guidance designed to improve the financial reporting of hedging relationships to better portray the economic results of an entity’s risk management activities in its financial statements as well as to simplify the application of the hedge accounting guidance in current U.S. generally accepted accounting principles. For public entities, ASU 2017-12 is effective for fiscal years, including interim periods within those fiscal years, beginning after December 15, 2018, with early adoption permitted in any interim period or fiscal year. For cash flow and net investment hedges existing at the date of adoption, the standard requires a cumulative-effect adjustment to eliminate the separate measurement of ineffectiveness to accumulated other comprehensive income with a corresponding adjustment to the

opening balance of retained earnings as of the beginning of the fiscal year of adoption. The amended presentation and disclosure guidance is required only prospectively. The Company early adopted ASU 2017-12 in the first quarter of 2018, and recorded a cumulative-effect adjustment to accumulated other comprehensive loss of \$3 million with a corresponding decrease in the opening balance of retained earnings.

In October 2016, the FASB issued ASU No. 2016-16, *Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory* ("ASU 2016-16"), which eliminates the current prohibition on immediate recognition of the current and deferred income tax effects of intra-entity transfers of assets other than inventory, with the intent of reducing complexity and diversity in practice. Under ASU 2016-16, entities must recognize the income tax consequences when the transfer occurs rather than deferring recognition. For public entities, ASU 2016-16 is effective for fiscal years, including interim periods within those fiscal years, beginning after December 15, 2017. Entities must apply the guidance on a modified retrospective basis through a cumulative-effect adjustment to retained earnings as of the beginning of the period of adoption. The Company adopted ASU 2016-16 in the first quarter of 2018, and the adoption did not have a material impact on its consolidated financial statements.

In March 2016, the FASB issued ASU No. 2016-09, *Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting* ("ASU 2016-09"), which simplifies several aspects of the accounting for share-based payment awards, including the accounting for income taxes and forfeitures, as well as classification in the statement of cash flows. The standard requires that all tax effects related to share-based payments be recorded as income tax expense or benefit in the income statement at settlement or expiration and, accordingly, excess tax benefits and tax deficiencies be presented as operating activities in the statement of cash flows. For public entities, ASU 2016-09 was effective for annual periods beginning after December 15, 2016, including interim periods within those annual periods. The recognition of all excess tax benefits and tax deficiencies in the income statement, as well as related changes to the computation of diluted earnings per share, is to be applied prospectively. The impact of this standard on the Company's consolidated financial statements depends on the intrinsic value of share-based compensation awards at the time of exercise or vesting, resulting in more variability in effective tax rates and net earnings, and also impacting the dilution of common stock equivalents. The Company adopted ASU 2016-09 effective January 1, 2017. As a result of this adoption, the Company recorded excess tax benefits related to share-based compensation awards of \$34 million and \$48 million in 2018 and 2017, respectively, in the income tax provision, whereas such benefits were previously recognized in equity. These benefits were partially offset by an increase in the dilution of common stock equivalents for calculating diluted earnings per share. The Company elected to apply the change in presentation in the statement of cash flows prospectively, and as a result, excess tax benefits are classified as operating activities when realized through reductions to subsequent tax payments. The treatment of forfeitures did not change as the Company elected to continue its current practice of estimating expected forfeitures.

In January 2016, the FASB issued ASU No. 2016-01, *Recognition and Measurement of Financial Assets and Financial Liabilities* ("ASU 2016-01"), which primarily affects the accounting for equity investments, financial liabilities under the fair value option, and the presentation and disclosure requirements of financial instruments. For public entities, ASU 2016-01 is effective for fiscal years, and interim periods within those years, beginning after December 15, 2017. Entities must apply the standard, with certain exceptions, using a cumulative-effect adjustment to beginning retained earnings as of the beginning of the fiscal year of adoption. The Company adopted ASU 2016-01 in the first quarter of 2018, and the adoption did not have any impact on its consolidated financial statements.

In May 2014, the FASB issued ASU No. 2014-09, *Revenue from Contracts with Customers* ("ASU 2014-09"), to clarify the principles of recognizing revenue and to create common revenue recognition guidance between U.S. generally accepted accounting principles and International Financial Reporting Standards. ASU 2014-09 outlines a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers and supersedes most current revenue recognition guidance, including industry-specific requirements. It also includes guidance on accounting for the incremental costs of obtaining and costs incurred to fulfill a contract with a customer. The core principle of the revenue model is that an entity recognizes revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. This model involves a five-step process for achieving that core principle, along with comprehensive disclosures about the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For public entities, the new revenue standard is effective for annual and interim periods beginning after December 15, 2017. Entities have the option of adopting this new guidance using either a full retrospective or a modified approach with the cumulative effect of applying the guidance recognized at the date of initial application.

The Company adopted the new standard effective January 1, 2018 using the modified retrospective transition approach applied to all contracts, which resulted in a cumulative-effect increase in the opening balance of retained earnings of \$208 million, primarily related to the deferral of incremental sales commissions incurred in obtaining contracts in prior periods. Under this transition approach, the Company has not restated the prior period consolidated financial statements presented; however, it has

provided additional disclosures related to the amount by which each relevant 2018 financial statement line item was affected by adoption of the new standard and explanations for significant changes (see Note 2).

Recently Issued Accounting Pronouncements

In August 2018, the FASB issued ASU No. 2018-15, *Intangibles - Goodwill and Other - Internal-Use Software (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract* ("ASU 2018-15"), which aligns the requirements for capitalizing implementation costs incurred in a cloud computing hosting arrangement that is a service contract with the requirements under Accounting Standards Codification ("ASC") 350 for capitalizing implementation costs incurred to develop or obtain internal-use software. For public entities, ASU 2018-15 is effective for fiscal years, and interim periods within those years, beginning after December 15, 2019, with early adoption permitted. Entities are permitted to apply either a retrospective or prospective transition approach to adopt the guidance. The Company is currently assessing the impact that the adoption of ASU 2018-15 will have on its consolidated financial statements.

In August 2018, the FASB issued ASU No. 2018-13, *Fair Value Measurement (Topic 820): Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement* ("ASU 2018-13"), which removes, modifies, and adds certain disclosure requirements of ASC Topic 820, *Fair Value Measurement*. ASU 2018-13 is effective for fiscal years, including interim periods within those fiscal years, beginning after December 15, 2019, with the additional disclosures required to be applied prospectively and the modified and removed disclosures required to be applied retrospectively to all periods presented. Entities are permitted to early adopt the removed or modified disclosures and delay the adoption of the additional disclosures until the effective date. The Company is currently assessing the impact that the adoption of ASU 2018-13 will have on its consolidated financial statements.

In June 2018, the FASB issued ASU No. 2018-07, *Compensation - Stock Compensation (Topic 718): Improvements to Nonemployee Share-Based Payment Accounting* ("ASU 2018-07"), which simplifies the accounting for share-based payments granted to nonemployees by largely aligning it with the accounting for share-based payments to employees. For public entities, ASU 2018-07 is effective for fiscal years, and interim periods within those years, beginning after December 15, 2018, with early adoption permitted. Entities must apply the standard, using a modified retrospective transition approach, with a cumulative-effect adjustment to retained earnings as of the beginning of the fiscal year of adoption for all liability-classified nonemployee awards that have not been settled as of the adoption date and equity-classified nonemployee awards for which a measurement date has not been established. The Company does not expect the adoption of ASU 2018-07 to have a material impact on its consolidated financial statements.

In June 2016, the FASB issued ASU No. 2016-13, *Financial Instruments - Credit Losses (Topic 326)* ("ASU 2016-13"), which prescribes an impairment model for most financial assets based on expected losses rather than incurred losses. Under this model, an estimate of expected credit losses over the contractual life of the instrument is to be recorded as of the end of a reporting period as an allowance to offset the amortized cost basis, resulting in a net presentation of the amount expected to be collected on the financial asset. For public entities, ASU 2016-13 is effective for fiscal years, including interim periods within those fiscal years, beginning after December 15, 2019. Early adoption is permitted for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. For most instruments, entities must apply the standard using a cumulative-effect adjustment to beginning retained earnings as of the beginning of the fiscal year of adoption. The Company is currently assessing the impact that the adoption of ASU 2016-13 will have on its consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, *Leases (Topic 842)* ("ASU 2016-02"), which requires lessees to recognize a lease liability and a right-of-use asset for each lease with a term longer than twelve months. The recognized liability is measured at the present value of lease payments not yet paid, and the corresponding asset represents the lessee's right to use the underlying asset over the lease term and is based on the liability, subject to certain adjustments. For income statement and statement of cash flow purposes, the standard retains the dual model with leases classified as either operating or finance. Operating leases will result in straight-line expense while finance leases will result in a front-loaded expense pattern. The standard prescribes a modified retrospective transition approach for leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. Topic 842 was subsequently amended by ASU No. 2018-01, *Land Easement Practical Expedient for Transition to Topic 842*; ASU No. 2018-10, *Codification Improvements to Topic 842*; ASU No. 2018-11, *Leases (Topic 842) - Targeted Improvements*; and ASU No. 2018-20, *Narrow-Scope Improvements for Lessors*. ASU No. 2018-11 provides an additional transition method allowing entities to initially apply the new lease standard at the adoption date and recognize a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. For public entities, ASU 2016-02 is effective for annual and interim periods beginning after December 15, 2018, with early adoption permitted.

The Company adopted the new standard effective January 1, 2019 using the optional transition method in ASU 2018-11. Under this method, the Company will not adjust its comparative period financial statements for the effects of the new standard or make the new, expanded required disclosures for periods prior to the effective date. The Company elected the package of practical expedients permitted under the transition guidance in ASU 2016-02 to not reassess prior conclusions related to contracts containing leases, lease classification and initial direct costs. The Company also elected the practical expedient not to separate the non-lease components of a contract from the lease component to which they relate.

The Company has identified and implemented appropriate changes for adopting this new lease standard on its consolidated financial statements, including changes to related disclosures, accounting policies, and necessary control, process and system changes. The adoption of the new lease standard resulted in the recognition of lease liabilities of approximately \$375 million and right-of-use assets of approximately \$350 million, which include the impact of existing deferred rents and tenant improvement allowances on the consolidated balance sheet as of January 1, 2019 for real and personal property operating leases. The adoption of ASU 2016-02 will not have a material impact on the Company's consolidated statements of income or consolidated statements of cash flows.

Fair Value Measurements

The Company applies fair value accounting for all assets and liabilities that are recognized or disclosed at fair value in its consolidated financial statements on a recurring basis. Fair value represents the amount that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining the fair value measurements for assets and liabilities, the Company considers the principal or most advantageous market and the market-based risk measurements or assumptions that market participants would use in pricing the asset or liability.

The fair values of cash equivalents, trade accounts receivable, settlement assets and obligations, accounts payable, and client deposits approximate their respective carrying values due to the short period of time to maturity. The estimated fair value of total debt is described in Note 6 and was based on quoted prices in active markets for the Company's senior notes (level 1 of the fair value hierarchy). The fair value of the Company's revolving credit facility borrowings approximates carrying value as the underlying interest rate is variable based on LIBOR. The aggregate fair values of the Company's debt guarantee arrangements (see Note 5) approximate the \$29 million carrying values at December 31, 2018 (level 3 of the fair value hierarchy).

The estimated fair value of the contingent consideration liability of \$12 million at December 31, 2018 related to the acquisition of Elan Financial Services (see Note 3) was based on the present value of a probability-weighted assessment approach derived from the likelihood of achieving the earn-out criteria (level 3 of the fair value hierarchy). This estimated fair value has not changed since the acquisition date. The Company's contingent consideration liability, originally estimated at a fair value of \$15 million (level 3 of the fair value hierarchy), arising from its acquisition of Online Banking Solutions, Inc. was adjusted to \$5 million at December 31, 2018 based on a reduced likelihood of achieving the various earn-out criteria. The \$10 million non-cash fair value adjustment was recorded to selling, general and administrative expense in the consolidated statement of income for the year ended December 31, 2018.

The contingent consideration and debt guarantee liabilities are reported primarily in other long-term liabilities in the consolidated balance sheets.

Derivatives

Derivatives are recorded in the consolidated balance sheets as either an asset or liability measured at fair value. If the derivative is designated as a cash flow hedge, changes in the fair value of the derivative are recorded as a component of accumulated other comprehensive loss and recognized in the consolidated statements of income when the hedged item affects earnings. If the derivative is designated as a fair value hedge, the changes in the fair value of the derivative are recognized in earnings. To the extent the fair value hedge is effective, there is an offsetting adjustment to the basis of the item being hedged. The Company's policy is to enter into derivatives with creditworthy institutions and not to enter into such derivatives for speculative purposes.

Foreign Currency

Foreign currency denominated assets and liabilities, where the functional currency is the local currency, are translated into U.S. dollars at the exchange rates in effect at the balance sheet date. Revenue and expenses are translated at the average exchange rates during the period. Gains and losses from foreign currency translation are recorded as a separate component of accumulated other comprehensive loss.

Revenue Recognition

Effective January 1, 2018, the Company adopted ASU 2014-09, *Revenue from Contracts with Customers*, and its related amendments using the modified retrospective transition approach applied to all contracts. Prior period amounts have not been restated; however, certain prior period amounts have been reclassified to conform to current period presentation. Additional information about the Company's revenue recognition policies and the related impact of the adoption is included in Note 2 to the consolidated financial statements.

Selling, General and Administrative Expenses

Selling, general and administrative expenses primarily consist of: salaries, wages, commissions and related expenses paid to sales personnel, administrative employees and management; advertising and promotional costs; depreciation and amortization; and other selling and administrative expenses.

Cash and Cash Equivalents

Cash and cash equivalents consist of cash and investments with original maturities of 90 days or less.

Allowance for Doubtful Accounts

The Company analyzes the collectability of trade accounts receivable by considering historical bad debts, client creditworthiness, current economic trends, changes in client payment terms and collection trends when evaluating the adequacy of the allowance for doubtful accounts. Any change in the assumptions used in analyzing a specific account receivable may result in an additional allowance for doubtful accounts being recognized in the period in which the change occurs. The allowance for doubtful accounts was \$18 million and \$15 million at December 31, 2018 and 2017, respectively.

Prepaid Expenses

Prepaid expenses represent advance payments for goods and services to be consumed in the future, such as maintenance, postage and insurance, and totaled \$158 million and \$136 million at December 31, 2018 and 2017, respectively.

Settlement Assets and Obligations

Settlement assets of \$486 million and \$385 million were included in prepaid expenses and other current assets at December 31, 2018 and 2017, respectively, and settlement obligations of \$480 million and \$379 million were included in accounts payable and accrued expenses at December 31, 2018 and 2017, respectively. Settlement assets and obligations result from timing differences between collection and fulfillment of payment transactions primarily associated with the Company's walk-in and expedited bill payment service businesses. Settlement assets represent cash received or amounts receivable from agents, payment networks or directly from consumers. Settlement obligations represent amounts payable to clients and payees.

Property and Equipment

Property and equipment are reported at cost. Depreciation of property and equipment is computed primarily using the straight-line method over the shorter of the estimated useful life of the asset or the leasehold period, if applicable. Property and equipment consisted of the following at December 31:

<u>(In millions)</u>	<u>Estimated Useful Lives</u>	<u>2018</u>	<u>2017</u>
Land	—	\$ 10	\$ 13
Data processing equipment	3 to 5 years	775	726
Buildings and leasehold improvements	5 to 40 years	256	255
Furniture and equipment	5 to 8 years	186	182
		<u>1,227</u>	<u>1,176</u>
Less: accumulated depreciation		(829)	(786)
Total		<u>\$ 398</u>	<u>\$ 390</u>

Depreciation expense for all property and equipment totaled \$92 million in each of 2018 and 2017, and \$90 million in 2016.

Intangible Assets

Intangible assets consisted of the following at December 31:

(In millions)	Gross Carrying Amount	Accumulated Amortization	Net Book Value
2018			
Customer related intangible assets	\$ 2,642	\$ 1,294	\$ 1,348
Acquired software and technology	591	490	101
Trade names	120	71	49
Capitalized software development costs	810	314	496
Purchased software	261	112	149
Total	<u>\$ 4,424</u>	<u>\$ 2,281</u>	<u>\$ 2,143</u>

(In millions)	Gross Carrying Amount	Accumulated Amortization	Net Book Value
2017			
Customer related intangible assets	\$ 2,293	\$ 1,168	\$ 1,125
Acquired software and technology	579	460	119
Trade names	117	64	53
Capitalized software development costs	737	282	455
Purchased software	241	111	130
Total	<u>\$ 3,967</u>	<u>\$ 2,085</u>	<u>\$ 1,882</u>

Customer related intangible assets represent customer contracts and relationships obtained as part of acquired businesses and are amortized over their estimated useful lives, generally ten to twenty years. Acquired software and technology represents software and technology intangible assets obtained as part of acquired businesses and are amortized over their estimated useful lives, generally four to eight years. Trade names are amortized over their estimated useful lives, generally eight to twenty years. Amortization expense for acquired intangible assets, which include customer related intangible assets, acquired software and technology, and trade names, totaled \$163 million, \$159 million and \$158 million in 2018, 2017 and 2016, respectively.

The Company continually develops, maintains and enhances its products and systems. Product development expenditures represented approximately 8% of the Company's total revenue in each of 2018, 2017 and 2016. Research and development costs incurred prior to the establishment of technological feasibility are expensed as incurred. Routine maintenance of software products, design costs and other development costs incurred prior to the establishment of a product's technological feasibility are also expensed as incurred. Costs are capitalized commencing when the technological feasibility of the software has been established.

Capitalized software development costs represent the capitalization of certain costs incurred to develop new software or to enhance existing software which is marketed externally or utilized by the Company to process client transactions. Capitalized software development costs are amortized over their estimated useful lives, generally five years. Gross software development costs capitalized for new products and enhancements to existing products totaled \$193 million, \$159 million and \$143 million in 2018, 2017 and 2016, respectively. Amortization of previously capitalized software development costs that have been placed into service was \$137 million, \$123 million and \$106 million in 2018, 2017 and 2016, respectively.

Purchased software represents software licenses purchased from third parties and is amortized over their estimated useful lives, generally three to five years. Amortization of purchased software totaled \$47 million, \$44 million and \$40 million in 2018, 2017 and 2016, respectively.

The Company estimates that annual amortization expense with respect to acquired intangible assets recorded at December 31, 2018 will be approximately \$180 million in 2019, \$160 million in 2020, \$150 million in each of 2021 and 2022, and \$140 million in 2023. Amortization expense with respect to capitalized and purchased software recorded at December 31, 2018 is estimated to approximate \$210 million in 2019.

Goodwill

Goodwill represents the excess of the purchase price over the fair value of identifiable net assets acquired and liabilities assumed in a business combination. The Company evaluates goodwill for impairment on an annual basis, or more frequently if circumstances indicate possible impairment. Goodwill is tested for impairment at a reporting unit level, determined to be at an operating segment level or one level below. When reviewing goodwill for impairment, the Company considers the amount of excess fair value over the carrying value of each reporting unit, the period of time since a reporting unit's last quantitative test, the extent a reorganization or disposition changes the composition of one or more of the reporting units, and other factors to determine whether or not to first perform a qualitative test. When performing a qualitative test, the Company assesses numerous factors to determine whether it is more likely than not that the fair value of its reporting units are less than their respective carrying values. Examples of qualitative factors that the Company assesses include its share price, its financial performance, market and competitive factors in its industry, and other events specific to its reporting units. If the Company concludes that it is more likely than not that the fair value of a reporting unit is less than its carrying value, the Company performs a quantitative impairment test by comparing reporting unit carrying values to estimated fair values. No impairment was identified in the Company's annual impairment assessment in the fourth quarter of 2018 as the estimated fair values of the respective reporting units exceeded the carrying values. In addition, there is no accumulated impairment loss through December 31, 2018. The changes in goodwill during 2018 and 2017 were as follows:

<u>(In millions)</u>	<u>Payments</u>	<u>Financial</u>	<u>Total</u>
Goodwill - December 31, 2016	\$ 3,610	\$ 1,763	\$ 5,373
Acquired goodwill	146	71	217
Disposed goodwill	—	(3)	(3)
Foreign currency adjustments	1	2	3
Goodwill - December 31, 2017	3,757	1,833	5,590
Acquired goodwill	240	7	247
Disposed goodwill	—	(131)	(131)
Foreign currency adjustments	(1)	(3)	(4)
Goodwill - December 31, 2018	<u>\$ 3,996</u>	<u>\$ 1,706</u>	<u>\$ 5,702</u>

Asset Impairment

The Company reviews property and equipment, intangible assets and its investments in unconsolidated affiliates for impairment whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable. The Company reviews capitalized software development costs for impairment at each balance sheet date. Recoverability of property and equipment, capitalized software development costs, and other intangible assets is assessed by comparing the carrying amount of the asset to either the undiscounted future cash flows expected to be generated by the asset or the net realizable value of the asset, depending on the type of asset. The Company's investments in unconsolidated affiliates are assessed by comparing the carrying amount of the investments to their estimated fair values and are impaired if any decline in fair value is determined to be other than temporary. Measurement of any impairment loss is based on estimated fair value.

Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses consisted of the following at December 31:

<u>(In millions)</u>	<u>2018</u>	<u>2017</u>
Trade accounts payable	\$ 127	\$ 80
Client deposits	564	481
Settlement obligations	480	379
Accrued compensation and benefits	199	198
Other accrued expenses	256	221
Total	<u>\$ 1,626</u>	<u>\$ 1,359</u>

Income Taxes

Deferred tax assets and liabilities are recognized for the expected future tax consequences attributable to differences between financial statement carrying amounts of existing assets and liabilities and their respective tax basis and net operating loss and tax credit carry-forwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. A valuation allowance is recorded against deferred tax assets if it is more-likely-than-not that some portion or all of the deferred tax assets will not be realized.

Accumulated Other Comprehensive Loss

Changes in accumulated other comprehensive loss by component, net of income taxes, consisted of the following:

<u>(In millions)</u>	<u>Cash Flow Hedges</u>	<u>Foreign Currency Translation</u>	<u>Other</u>	<u>Total</u>
Balance at December 31, 2017	\$ (14)	\$ (38)	\$ (2)	\$ (54)
Other comprehensive loss before reclassifications	(5)	(11)	—	(16)
Amounts reclassified from accumulated other comprehensive loss	3	—	—	3
Net current-period other comprehensive loss	(2)	(11)	—	(13)
Cumulative-effect adjustment of ASU 2017-12 adoption from retained earnings	3	—	—	3
Cumulative-effect adjustment of ASU 2018-02 adoption to retained earnings	(3)	—	—	(3)
Balance at December 31, 2018	<u>\$ (16)</u>	<u>\$ (49)</u>	<u>\$ (2)</u>	<u>\$ (67)</u>

<u>(In millions)</u>	<u>Cash Flow Hedges</u>	<u>Foreign Currency Translation</u>	<u>Other</u>	<u>Total</u>
Balance at December 31, 2016	\$ (24)	\$ (50)	\$ (2)	\$ (76)
Other comprehensive income before reclassifications	4	12	—	16
Amounts reclassified from accumulated other comprehensive loss	6	—	—	6
Net current-period other comprehensive income	10	12	—	22
Balance at December 31, 2017	<u>\$ (14)</u>	<u>\$ (38)</u>	<u>\$ (2)</u>	<u>\$ (54)</u>

Based on the amounts recorded in accumulated other comprehensive loss at December 31, 2018, the Company estimates that it will recognize approximately \$6 million in interest expense during the next twelve months related to settled interest rate hedge contracts.

The Company has entered into foreign currency forward exchange contracts, which have been designated as cash flow hedges, to hedge foreign currency exposure to the Indian Rupee. As of December 31, 2018, the notional amount of these derivatives was \$202 million, and the fair value was nominal. As of December 31, 2017, the notional amount of these derivatives was \$150 million, and the fair value totaling \$8 million was reported in prepaid expenses and other current assets in the consolidated balance sheet. Based on the amounts recorded in accumulated other comprehensive loss at December 31, 2018, the Company estimates that it will recognize losses of approximately \$1 million in cost of processing and services during the next twelve months as foreign currency forward exchange contracts settle.

Net Income Per Share

Net income per share in each period is calculated using actual, unrounded amounts. Basic net income per share is computed using the weighted-average number of common shares outstanding during the year. Diluted net income per share is computed using the weighted-average number of common shares and common stock equivalents outstanding during the year. Common stock equivalents consist of stock options and restricted stock units and are computed using the treasury stock method. In 2018,

2017 and 2016, the Company excluded 1.1 million, 1.3 million and 1.6 million weighted-average shares, respectively, from the calculations of common stock equivalents for anti-dilutive stock options.

The computation of shares used in calculating basic and diluted net income per share is as follows:

(In millions)	2018	2017	2016
Weighted-average common shares outstanding used for the calculation of net income per share - basic	405.5	422.3	440.6
Common stock equivalents	8.2	9.0	7.2
Weighted-average common shares outstanding used for the calculation of net income per share - diluted	413.7	431.3	447.8

Supplemental Cash Flow Information

(In millions)	2018	2017	2016
Interest paid	\$ 165	\$ 160	\$ 147
Income taxes paid	259	409	408
Treasury stock purchases settled after the balance sheet date	26	5	10

2. Revenue Recognition

Revenue Recognition During the Year Ended December 31, 2018

The Company adopted ASU 2014-09, *Revenue from Contracts with Customers*, and its related amendments (collectively known as “ASC 606”) effective January 1, 2018 using the modified retrospective transition approach applied to all contracts. Therefore, the reported results for the year ended December 31, 2018 reflect the application of ASC 606 while the reported results for the years ended December 31, 2017 and December 31, 2016 were not adjusted and continue to be reported under the accounting guidance, ASC 605, *Revenue Recognition* (“ASC 605”), in effect for the prior periods. The cumulative impact of adopting ASC 606 was an increase in the opening balance of retained earnings of \$208 million, primarily related to the deferral of incremental sales commissions incurred in obtaining contracts in prior periods.

Significant Accounting Policy

ASC 606 outlines a single comprehensive model to use in accounting for revenue arising from contracts with customers. The core principle, involving a five-step process, of the revenue model is that an entity recognizes revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services.

The Company generates revenue from the delivery of processing, service and product solutions. Revenue is measured based on consideration specified in a contract with a customer, and excludes any amounts collected on behalf of third parties. The Company recognizes revenue when it satisfies a performance obligation by transferring control over a product or service to a customer which may be at a point in time or over time.

Taxes assessed by a governmental authority that are both imposed on and concurrent with a specific revenue-producing transaction, that are collected by the Company from a customer, are excluded from revenue. Shipping and handling activities associated with outbound freight after control over a product has transferred to a customer are accounted for as a fulfillment activity and recognized as revenue at the point in time at which control of the goods transfers to the customer. As a practical expedient, the Company does not adjust the transaction price for the effects of a significant financing component if, at contract inception, the period between customer payment and the transfer of goods or services is expected to be one year or less.

Nature of Goods and Services

The Company’s operations are comprised of the Payments and Industry Products (“Payments”) segment and the Financial Institution Services (“Financial”) segment. Additional information regarding the Company’s business segments is included in Note 10. The following is a description of principal activities from which the Company generates its revenue. Contracts with customers are evaluated on a contract-by-contract basis as contracts may include multiple types of goods and services as described below.

Processing and Services

Processing and services revenue is generated from account- and transaction-based fees for data processing, transaction processing, electronic billing and payment services, electronic funds transfer and debit processing services; consulting and professional services; and software maintenance for ongoing client support.

The Company recognizes processing and services revenues in the period in which the specific service is performed unless they are not deemed distinct from other goods or services in which revenue would then be recognized as control is transferred of the combined goods and services. The Company's arrangements for processing and services typically consist of an obligation to provide specific services to its customers on a when and if needed basis (a stand-ready obligation) and revenue is recognized from the satisfaction of the performance obligations in the amount billable to the customer. These services are typically provided under a fixed or declining (tier-based) price per unit based on volume of service; however, pricing for services may also be based on minimum monthly usage fees. Fees for the Company's processing and services arrangements are typically billed and paid on a monthly basis.

Product

Product revenue is generated from integrated print and card production sales, as well as software license sales. For software license agreements that are distinct, the Company recognizes software license revenue upon delivery, assuming a contract is deemed to exist. Revenue for arrangements with customers that include significant customization, modification or production of software such that the software is not distinct is typically recognized over time based upon efforts expended, such as labor hours, to measure progress towards completion. For arrangements involving hosted licensed software for the customer, a software element is considered present to the extent the customer has the contractual right to take possession of the software at any time during the hosting period without significant penalty and it is feasible for the customer to either operate the software on their own hardware or contract with another vendor to host the software. In certain instances, the Company may offer extended payment terms beyond one year on its software license sales. To the extent a significant financing component exists, it is calculated as the difference between the promised consideration and the present value of the software license fees utilizing a discount rate reflective of a separate financing transaction, and is recognized as interest income over the extended payment period. The cash selling price of the software license fee is recognized as revenue at the point in time when the software is transferred to the customer.

Significant Judgments in Application of the Guidance

The Company uses the following methods, inputs, and assumptions in determining amounts of revenue to recognize:

Identification of Performance Obligations

To identify its performance obligations, the Company considers all of the goods or services promised in the contract regardless of whether they are explicitly stated or are implied by customary business practices. For multi-element arrangements, the Company accounts for individual goods or services as a separate performance obligation if they are distinct, the good or service is separately identifiable from other items in the arrangement, and if a customer can benefit from it on its own or with other resources that are readily available to the customer. If these criteria are not met, the promised goods or services are accounted for as a combined performance obligation. Determining whether goods or services are distinct performance obligations that should be accounted for separately may require significant judgment.

Technology or service components from third parties are frequently embedded in or combined with the Company's applications or service offerings. Whether the Company recognizes revenue based on the gross amount billed to a customer or the net amount retained involves judgment that depends on the relevant facts and circumstances including the level of contractual responsibilities and obligations for delivering solutions to end customers.

Determination of Transaction Price

The transaction price is determined based on the consideration to which the Company will be entitled in exchange for transferring products or services to the customer. The Company includes any fixed charges within its contracts as part of the total transaction price. To the extent that variable consideration is not constrained, the Company includes an estimate of the variable amount, as appropriate, within the total transaction price and updates its assumptions over the duration of the contract.

Assessment of Estimates of Variable Consideration

Many of the Company's contracts with customers contain some component of variable consideration; however, the constraint will generally not result in a reduction in the estimated transaction price for most forms of variable consideration. The

Company may constrain the estimated transaction price in the event of a high degree of uncertainty as to the final consideration amount owed because of an extended length of time over which the fees may be adjusted.

Allocation of Transaction Price

The transaction price (including any discounts) is allocated between separate goods and services in a multi-element arrangement based on their relative standalone selling prices. The standalone selling prices are determined based on the prices at which the Company separately sells each good or service. For items that are not sold separately, the Company estimates the standalone selling prices using available information such as market conditions and internally approved pricing guidelines. In instances where there are observable selling prices for professional services and support and maintenance, the Company may apply the residual approach to estimate the standalone selling price of software licenses. Significant judgment may be required to determine standalone selling prices for each performance obligation and whether it depicts the amount the Company expects to receive in exchange for the related good or service.

Contract Modifications

Contract modifications occur when the Company and its customers agree to modify existing customer contracts to change the scope or price (or both) of the contract or when a customer terminates some, or all, of the existing services provided by the Company. When a contract modification occurs, it requires the Company to exercise judgment to determine if the modification should be accounted for as: (i) a separate contract, (ii) the termination of the original contract and creation of a new contract, or (iii) a cumulative catch up adjustment to the original contract. Further, contract modifications require the identification and evaluation of the performance obligations of the modified contract, including the allocation of revenue to the remaining performance obligations and the period of recognition for each identified performance obligation.

Revenue Recognition During the Years Ended December 31, 2017 and December 31, 2016

The Company generates revenue from the delivery of processing, service and product solutions. Revenue is recognized when written contracts are signed, delivery has occurred, the fees are fixed or determinable, and collectibility is reasonably assured.

Processing and services revenue is recognized as services are provided and is primarily derived from contracts that generate account- and transaction-based fees for data processing, transaction processing, electronic billing and payment services, electronic funds transfer and debit processing services. In addition, processing and services revenue is derived from the fulfillment of professional services, including consulting activities. Certain of the Company's revenue is generated from multiple element arrangements involving various combinations of product and service deliverables. The deliverables within these arrangements are evaluated at contract inception to determine whether they represent separate units of accounting, and if so, contract consideration is allocated to each deliverable based on relative selling price. The relative selling price is determined using vendor specific objective evidence of fair value, third-party evidence or best estimate of selling price. Revenue is then recognized in accordance with the appropriate revenue recognition guidance applicable to the respective elements. Also included in processing and services revenue is software maintenance fee revenue for ongoing client support, which is recognized ratably over the term of the applicable support period, generally 12 months. Contract liabilities consist primarily of advance cash receipts for services (deferred revenue) and are recognized as revenue when the services are provided.

Product revenue is primarily derived from integrated print and card production sales, as well as software license sales which represented less than 4% of consolidated revenue. For software license agreements that do not require significant customization or modification, the Company recognizes software license revenue upon delivery, assuming persuasive evidence of an arrangement exists, the license fee is fixed or determinable, and collection is reasonably assured. Arrangements with customers that include significant customization, modification or production of software are accounted for under contract accounting, with revenue recognized using the percentage-of-completion method based upon efforts expended, such as labor hours, to measure progress towards completion. Changes in estimates for revenues, costs and profits are recognized in the period in which they are determinable and were not material for any period presented.

The Company includes reimbursements from clients, such as postage and telecommunication costs, in processing and services revenue and product revenue, while the related costs are included in cost of processing and services and cost of product.

Disaggregation of Revenue

The table below present the Company's revenue disaggregated by major business, including a reconciliation with its reportable segments. Most of the Company's revenue is earned domestically within these major businesses with revenue from clients outside the United States comprising approximately 6% of total revenue.

(In millions)

Year Ended December 31, 2018

Major Business

	Reportable Segments			
	Payments	Financial	Corporate and Other	Total
Digital Money Movement	\$ 1,460	\$ —	\$ —	\$ 1,460
Card and Related Services	1,682	—	—	1,682
Other	325	—	—	325
Total Payments	3,467	—	—	3,467
Account and Item Processing	—	2,094	—	2,094
Lending Solutions	—	54	—	54
Other	—	247	—	247
Total Financial	—	2,395	—	2,395
Corporate and Other	—	—	(39)	(39)
Total Revenue	\$ 3,467	\$ 2,395	\$ (39)	\$ 5,823

Contract Balances

The following table provides information about contract assets and contract liabilities from contracts with customers.

(In millions)

	December 31, 2018	January 1, 2018
Contract assets	\$ 171	\$ 158
Contract liabilities	469	520

Contract assets, reported within other long-term assets in the consolidated balance sheet, primarily result from revenue being recognized where payment is contingent upon the transfer of services to a customer over the contractual period. Contract liabilities primarily relate to advance consideration received from customers (deferred revenue) for which transfer of control occurs, and therefore revenue is recognized, as services are provided. Contract balances are reported in a net contract asset or liability position on a contract-by-contract basis at the end of each reporting period.

During the year ended December 31, 2018, contract liabilities decreased primarily due to the recognition of deferred termination fee revenue. The Company recognized \$450 million of revenue during the year ended December 31, 2018 that was included in the contract liability balance at the beginning of the period, which exceeded advance cash receipts for services yet to be provided.

Transaction Price Allocated to Remaining Performance Obligations

The following table includes estimated revenue expected to be recognized in the future related to performance obligations that are unsatisfied (or partially unsatisfied) at the end of the reporting period.

(In millions)

December 31, 2018

	2019	2020	2021	2022	Thereafter
Processing and services	\$ 1,061	\$ 836	\$ 678	\$ 480	\$ 566
Product	38	30	20	13	9

The Company applies the optional exemption in paragraph 606-10-50-14(b) and does not disclose information about remaining performance obligations for account- and transaction-based processing fees that qualify for recognition in accordance with paragraph 606-10-55-18. These contracts generally have terms of three to five years, and contain variable consideration for stand-ready performance obligations for which the exact quantity and mix of transactions to be processed are contingent upon the customer's request. The Company also applies the optional exemptions in paragraph 606-10-50-14A and does not disclose information for variable consideration, including additional seat licenses, that is a sales-based or usage-based royalty promised in exchange for a license of intellectual property or that is allocated entirely to a wholly unsatisfied performance obligation or to a wholly unsatisfied promise to transfer a distinct good or service in a series. The amounts disclosed above as remaining performance obligations consist primarily of fixed or monthly minimum processing fees and maintenance fees under contracts with an original expected duration of greater than one year.

Contract Costs

The Company incurs incremental costs to obtain a contract as well as costs to fulfill contracts with customers that are expected to be recovered. These costs consist primarily of sales commissions incurred only if a contract is obtained, and customer conversion or implementation related costs. Capitalized sales commissions and conversion or implementation costs totaled \$322 million and \$97 million, respectively, at December 31, 2018.

Capitalized contract costs are amortized based on the transfer of goods or services to which the asset relates. The amortization period also considers expected customer lives and whether the asset relates to goods or services transferred under a specific anticipated contract. These costs are primarily included in selling, general and administrative expenses and totaled \$106 million during the year ended December 31, 2018. Impairment losses recognized during the year ended December 31, 2018 related to capitalized contract costs were not significant.

Change in Accounting Policy

Except for the changes below, the Company has consistently applied the accounting policies to all periods presented in its consolidated financial statements. The details of the significant changes and quantitative impact of the changes are disclosed below.

Sales Commissions

The Company previously recognized sales commission fees related to contracts with customers as selling expenses when incurred. Under ASC 606, the Company capitalizes incremental sales commission fees as costs of obtaining a contract and, if expected to be recovered, amortizes such costs using a portfolio approach consistent with the pattern of transfer of the good or service to which the asset relates.

Termination Fees

The Company previously recognized customer contract termination fees at a point in time upon deconversion or receipt of a non-refundable cash payment. Under ASC 606, a contract termination is considered a contract modification and therefore the Company recognizes contract termination fees under the new standard over the remaining modified contract term.

Contract Assets and Liabilities

The Company previously presented customer incentives and deferred revenue on a gross basis within its consolidated balance sheet. Under ASC 606, the Company reports net contract asset or liability positions on a contract-by-contract basis at the end of each reporting period.

Impacts on Financial Statements

The following tables summarize the impacts of ASC 606 adoption on the Company's consolidated financial statements as of and for the year ended December 31, 2018.

Consolidated Statement of Income

(In millions)

Year Ended December 31, 2018

Revenue:

Processing and services

Product

Total revenue

Expenses:

Cost of processing and services

Cost of product

Selling, general and administrative

Gain on sale of business

Total expenses

Operating income

Interest expense

Loss on early debt extinguishment

Non-operating income

Income before income taxes and income from investments in unconsolidated affiliates

Income tax provision

Income from investments in unconsolidated affiliates

Net income

Net income per share – basic

Net income per share – diluted

Shares used in computing net income per share:

Basic

Diluted

Impact of changes in accounting policies		
As reported	Adjustments	Balances without adoption of ASC 606
\$ 4,975	\$ (26)	\$ 4,949
848	(24)	824
5,823	(50)	5,773
2,324	3	2,327
745	(2)	743
1,228	16	1,244
(227)	(3)	(230)
4,070	14	4,084
1,753	(64)	1,689
(193)	—	(193)
(14)	—	(14)
9	(1)	8
1,555	(65)	1,490
(378)	14	(364)
10	—	10
\$ 1,187	\$ (51)	\$ 1,136
\$ 2.93	\$ (0.13)	\$ 2.80
\$ 2.87	\$ (0.12)	\$ 2.75
405.5	—	405.5
413.7	—	413.7

Consolidated Statement of Comprehensive Income

(In millions)

Year Ended December 31, 2018

	Impact of changes in accounting policies		
	As reported	Adjustments	Balances without adoption of ASC 606
Net income	\$ 1,187	\$ (51)	\$ 1,136
Other comprehensive (loss) income:			
Fair market value adjustment on cash flow hedges, net of income tax benefit of \$2 million	(5)	—	(5)
Reclassification adjustment for net realized gains on cash flow hedges included in cost of processing and services, net of income tax benefit of \$0	(1)	—	(1)
Reclassification adjustment for net realized losses on cash flow hedges included in interest expense, net of income tax provision of \$2 million	4	—	4
Foreign currency translation	(11)	—	(11)
Total other comprehensive loss	(13)	—	(13)
Comprehensive income	\$ 1,174	\$ (51)	\$ 1,123

Consolidated Balance Sheet

(In millions)

December 31, 2018

	Impact of changes in accounting policies		
	As reported	Adjustments	Balances without adoption of ASC 606
Assets			
Cash and cash equivalents	\$ 415	\$ —	\$ 415
Trade accounts receivable, less allowance for doubtful accounts	1,049	(11)	1,038
Prepaid expenses and other current assets	760	19	779
Total current assets	2,224	8	2,232
Property and equipment, net	398	—	398
Intangible assets, net	2,143	—	2,143
Goodwill	5,702	—	5,702
Contract costs, net	419	(339)	80
Other long-term assets	376	102	478
Total assets	\$ 11,262	\$ (229)	\$ 11,033
Liabilities and Shareholders' Equity			
Accounts payable and accrued expenses	\$ 1,626	\$ (11)	\$ 1,615
Current maturities of long-term debt	4	—	4
Contract liabilities	380	101	481
Total current liabilities	2,010	90	2,100
Long-term debt	5,955	—	5,955
Deferred income taxes	745	(82)	663
Long-term contract liabilities	89	21	110
Other long-term liabilities	170	—	170
Total liabilities	8,969	29	8,998
Total shareholders' equity	2,293	(258)	2,035
Total liabilities and shareholders' equity	\$ 11,262	\$ (229)	\$ 11,033

Consolidated Statement of Cash Flows

(In millions)

Year Ended December 31, 2018

Cash flows from operating activities:

Net income

Adjustments to reconcile net income to net cash provided by operating activities from continuing operations:

Depreciation and other amortization

Amortization of acquisition-related intangible assets

Share-based compensation

Deferred income taxes

Gain on sale of businesses

Loss on early debt extinguishment

Income from investments in unconsolidated affiliates

Dividends from unconsolidated affiliates

Non-cash impairment charges

Other operating activities

Changes in assets and liabilities, net of effects from acquisitions and dispositions:

Trade accounts receivable

Prepaid expenses and other assets

Contract costs

Accounts payable and other liabilities

Contract liabilities

Net cash provided by operating activities from continuing operations

Cash flows from investing activities:

Capital expenditures, including capitalization of software costs

Proceeds from sale of businesses

Payments for acquisitions of businesses, net of cash acquired

Purchases of investments

Other investing activities

Net cash provided by investing activities from continuing operations

Cash flows from financing activities:

Debt proceeds

Debt repayments, including redemption and other costs

Proceeds from issuance of treasury stock

Purchases of treasury stock, including employee shares withheld for tax obligations

Other financing activities

Net cash used in financing activities from continuing operations

Net change in cash and cash equivalents from continuing operations

Net change in cash and cash equivalents from discontinued operations

Cash and cash equivalents, beginning balance

Cash and cash equivalents, ending balance

Discontinued operations cash flow information:

Net cash used in operating activities

Net cash provided by investing activities

Net change in cash and cash equivalents from discontinued operations

Impact of changes in accounting policies		
As reported	Adjustments	Balances without adoption of ASC 606
\$ 1,187	\$ (51)	\$ 1,136
393	(74)	319
163	—	163
73	—	73
133	(14)	119
(227)	(3)	(230)
14	—	14
(10)	—	(10)
2	—	2
3	—	3
(10)	—	(10)
(108)	31	(77)
(6)	(2)	(8)
(137)	98	(39)
116	(4)	112
(34)	19	(15)
1,552	—	1,552
(360)	—	(360)
419	—	419
(712)	—	(712)
(3)	—	(3)
(7)	—	(7)
(663)	—	(663)
5,039	—	5,039
(4,005)	—	(4,005)
75	—	75
(1,946)	—	(1,946)
(5)	—	(5)
(842)	—	(842)
47	—	47
43	—	43
325	—	325
\$ 415	\$ —	\$ 415
\$ (7)	\$ —	\$ (7)
50	—	50
\$ 43	\$ —	\$ 43

3. Acquisitions and Dispositions

Acquisitions

On October 31, 2018, the Company acquired the debit card processing, ATM Managed Services, and MoneyPass® surcharge-free network of Elan Financial Services, a unit of U.S. Bancorp (“Elan”), for approximately \$660 million. Such purchase price includes an initial cash payment of \$691 million, less post-closing working capital adjustments of \$57 million, plus contingent consideration related to earn-out provisions estimated at a fair value of \$12 million and future payments under a transition services agreement estimated to be in excess of fair value of \$14 million. This acquisition, included within the Payments segment, deepens the Company’s presence in debit card processing, broadens its client reach and scale, and provides new solutions to enhance the value proposition for its existing debit solution clients.

The preliminary allocation of purchase price recorded for Elan was as follows:

(In millions)

Trade accounts receivable	\$	20
Prepaid expenses and other current assets		94
Property and equipment		9
Intangible assets		353
Goodwill		240
Accounts payable and other current liabilities		(56)
Total purchase price	\$	660

The amounts allocated to goodwill and intangible assets were based on preliminary valuations and are subject to final adjustment. Goodwill, expected to be deductible for tax purposes, is primarily attributed to synergies, including the migration of Elan’s clients to the Company’s debit platform, and the anticipated value created by selling the Company’s products and services outside of card payments to Elan’s existing client base. The values allocated to intangible assets are as follows:

(In millions)

	Gross Carrying Amount	Weighted-Average Useful Life
Customer related intangible assets	\$ 350	15 years
Trade name	3	8 years
	<u>\$ 353</u>	15 years

In conjunction with the acquisition, the Company entered into a transition services agreement for the provision of certain processing, network, administrative and managed services for a period of two years. Amounts, reflective of their associated fair value, transacted through this agreement approximated \$12 million for the year ended December 31, 2018 and were recognized as cost of processing and services in the consolidated statements of income. The results of operations for Elan, including \$29 million of revenue and \$6 million of operating income including \$4 million of acquired intangible asset amortization, have been included within the accompanying consolidated statement of income from the date of acquisition. Pro forma information for Elan is not provided as it did not have a material effect on the Company’s consolidated results of operations.

On January 17, 2017, the Company completed its acquisition of Online Banking Solutions, Inc. (“OBS”), a provider of cash management and digital business banking solutions that complement and enrich the Company’s existing solutions. On July 31, 2017, the Company acquired the assets of PCLender, LLC (“PCLender”), a leader in internet-based mortgage software and mortgage lending technology solutions. The OBS and PCLender acquisitions are included in the Financial segment as their products are integrated across a number of the Company’s account processing solutions and will enable the Company’s bank and credit union clients to better serve their commercial and mortgage customers. On August 18, 2017, the Company acquired Dovetail Group Limited (“Dovetail”), a leading provider of bank payments and liquidity management solutions. On September 1, 2017, the Company completed its acquisition of Monitise plc (“Monitise”), a provider of digital solutions that enables innovative digital banking experiences for leading financial institutions worldwide. The Dovetail and Monitise acquisitions are included in the Payments segment and will further enable the Company to help financial institutions around the world transform their payments infrastructure and to expand its digital leadership, respectively.

The Company acquired these four businesses for an aggregate purchase price of \$384 million, net of \$33 million of acquired cash, along with earn-out provisions estimated at a fair value of \$15 million (see Note 1). The purchase price allocations for these acquisitions resulted in acquired software and technology and customer related intangible assets totaling \$163 million and goodwill of \$217 million. The other net assets of \$19 million include \$50 million of assets held for sale and approximately \$20 million of deferred tax liabilities. The purchase price allocations were finalized for the OBS and PCLender acquisitions in 2017 and for the Dovetail and Monitise acquisitions in the first quarter of 2018, and did not materially change from the preliminary allocations. The goodwill from these acquisitions is primarily attributed to synergies and the anticipated value created by selling the products and services that these businesses provide into the Company's existing client base. Approximately \$70 million of the goodwill is expected to be deductible for tax purposes. The values allocated to intangible assets are as follows:

(In millions)	Gross Carrying Amount	Weighted-Average Useful Life
Customer related intangible assets	\$ 92	15 years
Acquired software and technology	71	7 years
	<u>\$ 163</u>	<u>12 years</u>

In the first quarter of 2016, the Company acquired the Convenience Pay Services business of Hewlett Packard Enterprise Company and completed its purchase of the Community Financial Services business of ACI Worldwide, Inc. These acquisitions expand the Company's biller solution offerings and enhance its suite of digital banking and payments solutions, and are included in the Payments segment.

The Company acquired these two businesses for an aggregate purchase price of \$265 million. The final purchase price allocations for these acquisitions resulted in technology and customer intangible assets totaling approximately \$80 million, goodwill of \$173 million, and other identifiable net assets of approximately \$12 million consisting primarily of accounts receivable. The goodwill from these transactions is deductible for tax purposes and is primarily attributed to synergies and anticipated revenue and earnings growth associated with the products and services that these businesses provide.

Disposition

On May 11, 2017, the Company sold its Australian item processing business, which was reported within the Financial segment, for approximately \$17 million. The Company recognized a gain on the sale of \$10 million, with the related tax expense of \$5 million recorded through the income tax provision, in the consolidated statements of income.

4. Discontinued Operations

Income from discontinued operations in 2017 included a litigation settlement related to a prior disposition of \$19 million, net of income tax of \$7 million, and earnings related to an acquired business held for sale as described below.

On January 10, 2018, the Company completed the sale of the retail voucher business, MyVoucherCodes, acquired as part of its acquisition of Monitise in September 2017 for proceeds of £37 million (\$50 million). The corresponding assets of \$50 million, consisting primarily of goodwill, were presented as held for sale in the Company's consolidated balance sheet at December 31, 2017, and the corresponding proceeds received in 2018 are presented within discontinued operations since the business was never considered part of the Company's ongoing operations. There was no impact to operating income or gain/loss recognized on the sale in 2018.

Cash flows from discontinued operations in 2018 also included tax payments of \$7 million related to income recognized in 2017 from the litigation settlement described above.

5. Investments in Unconsolidated Affiliates

Lending Joint Ventures

On March 29, 2018, the Company completed the sale of a 55% controlling interest of each of Fiserv Automotive Solutions, LLC and Fiserv LS LLC, which were subsidiaries of the Company that owned its Lending Solutions business (collectively, the "Lending Joint Ventures"), to funds affiliated with Warburg Pincus LLC. The Lending Joint Ventures, which were reported within the Financial segment, included all of the Company's automotive loan origination and servicing products, as well as its LoanServTM mortgage and consumer loan servicing platform. The Company received gross sale proceeds of \$419 million from the transactions. The Company recognized a pre-tax gain on the sale of \$227 million, with the related tax expense of \$77 million recorded through the income tax provision, in the consolidated statements of income. The pre-tax gain includes

\$124 million related to the remeasurement of the Company's 45% retained interest based upon the estimated enterprise value of the Lending Joint Ventures. Contingent consideration of up to \$20 million under defined special distribution provisions within the transaction agreements is being accounted for by the Company as a gain contingency and will therefore be recognized in future periods to the extent the contingency is resolved and thereby realized. The Company's remaining 45% ownership interest in the Lending Joint Ventures are accounted for as equity method investments, with the Company's share of net income reported as income from investments in unconsolidated affiliates and the related tax expense reported within the income tax provision in the consolidated statements of income. The Company's investment in the Lending Joint Ventures was \$65 million at December 31, 2018 and is reported within other long-term assets in the consolidated balance sheet. The revenues and expenses of the Lending Joint Ventures after the sale transactions are not included in the Company's consolidated statements of income. The Company's consolidated financial statements for all periods prior to the sale transactions include the revenues, expenses and cash flows of the Lending Joint Ventures.

Prior to the sale transactions described above, the Lending Joint Ventures entered into variable-rate term loan facilities for an aggregate amount of \$350 million in senior unsecured debt and variable-rate revolving credit facilities for an aggregate amount of \$35 million with a syndicate of banks, which transferred to the Lending Joint Ventures as part of the sale. The Company has guaranteed this debt of the Lending Joint Ventures and does not anticipate that the Lending Joint Ventures will fail to fulfill their debt obligations. These debt facilities mature in March 2023, and there are no outstanding borrowings on the revolving credit facilities as of December 31, 2018. The Company recorded an initial \$34 million liability as a reduction to the gain on sale transactions for the estimated fair value of its obligations to stand ready to perform over the term of the guarantees, which is reported primarily within other long-term liabilities in the consolidated balance sheet. Such guarantees will be amortized in future periods over the contractual term. In 2018, the Company recognized \$5 million within non-operating income in its consolidated statements of income related to its release from risk under the guarantees. The Company has not made any payments under the guarantees, nor has it been called upon to do so. In conjunction with the sale transactions described above, the Company also entered into certain transition services agreements to provide, at fair value, various administrative, business process outsourcing, technical and data center related services for defined periods to the Lending Joint Ventures. Amounts transacted through these agreements approximated \$30 million in 2018, of which \$28 million was recognized as processing and services revenue in the consolidated statements of income.

StoneRiver Group, L.P.

The Company owns a 49% interest in StoneRiver Group, L.P. ("StoneRiver"), which is accounted for as an equity method investment. The Company reports its share of StoneRiver's net income as income from investment in unconsolidated affiliate, with the related tax expense reported within the income tax provision, in the consolidated statements of income. The Company's investment in StoneRiver was zero at December 31, 2018 and 2017. In 2018, 2017 and 2016, the Company received cash dividends from StoneRiver of \$2 million, \$45 million and \$151 million, respectively, which were funded from capital transactions. The dividends, in their entirety, represented returns on the Company's investment and are reported in cash flows from operating activities.

During the first quarter of 2017, StoneRiver recognized a gain on the sale of a business. The Company's pre-tax share of the gain was \$26 million, with related tax expense of \$9 million. During 2017, the Company received cash dividends of \$45 million from StoneRiver, which were funded from sale transactions and recorded as reductions in the Company's investment in StoneRiver. These dividends exceeded the Company's investment carrying amount, resulting in the reduction of its investment balance to zero, with the excess cash dividend of \$6 million recorded as income, and related tax expense of \$2 million, in 2017.

During the first quarter of 2016, StoneRiver recognized a gain on the sale of a business interest in which the Company's pre-tax share of this gain was \$190 million. During the first quarter of 2016, the Company also received cash dividends of \$140 million from StoneRiver, which were funded from the sale transaction and recorded as reductions in the Company's investment in StoneRiver. In conjunction with this activity, the Company evaluated its equity method investment in StoneRiver for its ability to recover the remaining carrying amount of such investment. Utilizing a discounted cash flow analysis (level 3 of the fair value hierarchy) to arrive at a measure of the investment's fair value, the Company recognized an impairment loss of \$44 million. The Company's pre-tax share of the gain, net of the impairment loss, was \$146 million, with related tax expense of \$54 million.

6. Long-Term Debt

The Company's long-term debt, net of discounts and debt issuance costs, consisted of the following at December 31:

<u>(In millions)</u>	2018	2017
Revolving credit facility	\$ 1,129	\$ 1,068
2.7% senior notes due 2020	848	846
4.75% senior notes due 2021	399	398
3.5% senior notes due 2022	697	696
3.8% senior notes due 2023	992	—
3.85% senior notes due 2025	895	894
4.2% senior notes due 2028	990	—
4.625% senior notes due 2020	—	449
Term loan	—	540
Other borrowings	9	9
Total debt	5,959	4,900
Less: current maturities	(4)	(3)
Long-term debt	<u>\$ 5,955</u>	<u>\$ 4,897</u>

The estimated fair value of total debt was \$6.0 billion and \$5.0 billion at December 31, 2018 and 2017, respectively. The Company was in compliance with all financial debt covenants during 2018. Annual maturities of the Company's total debt were as follows at December 31, 2018:

<u>(In millions)</u>	
Year ending December 31,	
2019	\$ 4
2020	851
2021	401
2022	697
2023	2,121
Thereafter	1,885
Total	<u>\$ 5,959</u>

Revolving Credit Facility

In September 2018, the Company entered into an amended and restated revolving credit agreement that restated its existing \$2.0 billion revolving credit agreement with a syndicate of banks and extended its maturity from April 2020 to September 2023. Borrowings under the amended and restated revolving credit facility continue to bear interest at a variable rate based on LIBOR or on a base rate, plus in each case a specified margin based on the Company's long-term debt rating in effect from time to time. The variable interest rate on the revolving credit facility borrowings was 3.51% at December 31, 2018. There are no significant commitment fees and no compensating balance requirements. The amended and restated revolving credit facility contains various restrictions and covenants that require the Company, among other things, to: (1) limit its consolidated indebtedness as of the end of each fiscal quarter to no more than three and one-half times the Company's consolidated net earnings before interest, taxes, depreciation, amortization, non-cash charges and expenses and certain other adjustments ("EBITDA") during the period of four fiscal quarters then ended, subject to certain exceptions, and (2) maintain EBITDA of at least three times its consolidated interest expense as of the end of each fiscal quarter for the period of four fiscal quarters then ended. On February 6, 2019, the Company entered into an amendment to the amended and restated revolving credit facility to (1) amend the maximum leverage ratio covenant to permit it to elect to increase the permitted maximum leverage ratio from three and one-half times the Company's EBITDA to either four times or four and one-half times the Company's EBITDA for a specified period following certain acquisitions and (2) permit it to make drawings under the revolving credit facility on the closing date of its acquisition of First Data Corporation ("First Data") subject to only limited conditions (see Note 12).

In addition, on February 15, 2019, the Company entered into a second amendment to its existing revolving credit agreement in order to increase the aggregate commitments available thereunder by \$1.5 billion and to make certain additional amendments to facilitate the operation of the combined business following the acquisition of First Data. The increased commitments and additional amendments will become effective upon the satisfaction or waiver of conditions that are substantially similar to the conditions to funding under the term loan facility described within Note 12.

Senior Notes

In September 2018, the Company completed an offering of \$2.0 billion of senior notes comprised of \$1.0 billion aggregate principal amount of 3.8% senior notes due in October 2023 and \$1.0 billion aggregate principal amount of 4.2% senior notes due in October 2028. The notes pay interest semi-annually on April 1 and October 1, commencing on April 1, 2019. The Company's 2.7% senior notes due in June 2020 and 3.85% senior notes due in June 2025 pay interest at the stated rates semi-annually on June 1 and December 1 of each year. The Company's 4.75% senior notes due in June 2021 pay interest at the stated rate on June 15 and December 15 of each year. The Company's 3.5% senior notes due in October 2022 pay interest at the stated rate on April 1 and October 1 of each year. The interest rate applicable to these notes is subject to an increase of up to two percent in the event that the credit rating assigned to such notes is downgraded below investment grade. The indentures governing the senior notes contain covenants that, among other matters, limit (1) the Company's ability to consolidate or merge with or into, or convey, transfer or lease all or substantially all of its properties and assets to, another person, (2) the Company's and certain of its subsidiaries' ability to create or assume liens, and (3) the Company's and certain of its subsidiaries' ability to engage in sale and leaseback transactions.

The Company used the net proceeds from the offering described above to repay the outstanding principal balance of \$540 million under its term loan and the outstanding borrowings under its amended and restated revolving credit facility totaling \$1.1 billion. In addition, the Company commenced a cash tender offer in September 2018 for any and all of its outstanding \$450 million aggregate principal amount of 4.625% senior notes due October 2020. Upon expiration of the tender offer on September 26, 2018, \$246 million was tendered. In October 2018, the Company retired the remaining outstanding \$204 million aggregate principal amount of 4.625% senior notes. The Company recorded a pre-tax loss on early debt extinguishment of \$14 million related to these activities.

Debt Issuance Costs

Debt issuance costs are amortized as a component of interest expense over the term of the underlying debt using the effective interest method. Debt issuance costs related to the Company's senior notes and term loan totaled \$25 million and \$14 million at December 31, 2018 and 2017, respectively, and are reported as a direct reduction of the related debt instrument in the consolidated balance sheets. Debt issuance costs related to the Company's revolving credit facility are reported in other long-term assets in the consolidated balance sheets and totaled \$5 million and \$3 million at December 31, 2018 and 2017, respectively.

7. Income Taxes

Substantially all of the Company's pre-tax earnings are derived from domestic operations in all periods presented. A reconciliation of the statutory federal income tax rate to the Company's effective income tax rate for continuing operations is as follows:

	2018	2017	2016
Statutory federal income tax rate	21.0 %	35.0 %	35.0 %
State income taxes, net of federal effect	3.2 %	2.3 %	2.9 %
Unconsolidated affiliate tax	0.1 %	0.9 %	4.2 %
Tax expense (benefit) due to federal tax reform	1.2 %	(20.3)%	— %
Excess tax benefit from share-based awards	(2.2)%	(3.6)%	— %
Sale of business	1.3 %	— %	— %
Domestic production activities deduction	— %	(2.0)%	(3.0)%
Other, net	(0.3)%	(0.7)%	(0.5)%
Effective income tax rate	24.3 %	11.6 %	38.6 %

The income tax provision (benefit) for continuing operations was as follows:

(In millions)	2018	2017	2016
Current:			
Federal	\$ 189	\$ 342	\$ 402
State	39	44	53
Foreign	17	19	16
	<u>245</u>	<u>405</u>	<u>471</u>
Deferred:			
Federal	110	(250)	21
State	24	3	5
Foreign	(1)	—	(5)
	<u>133</u>	<u>(247)</u>	<u>21</u>
Income tax provision	<u>\$ 378</u>	<u>\$ 158</u>	<u>\$ 492</u>

Significant components of deferred tax assets and liabilities consisted of the following at December 31:

(In millions)	2018	2017
Accrued expenses	\$ 74	\$ 39
Interest rate hedge contracts	5	9
Share-based compensation	43	40
Net operating loss and credit carry-forwards	131	131
Deferred revenue	11	17
Other	14	7
Subtotal	<u>278</u>	<u>243</u>
Valuation allowance	<u>(101)</u>	<u>(103)</u>
Total deferred tax assets	<u>177</u>	<u>140</u>
Capitalized software development costs	(129)	(117)
Intangible assets	(437)	(455)
Property and equipment	(66)	(49)
Capitalized commissions	(80)	—
Investment in joint ventures	(78)	—
Other	(112)	(48)
Total deferred tax liabilities	<u>(902)</u>	<u>(669)</u>
Total	<u>\$ (725)</u>	<u>\$ (529)</u>

The valuation allowance decreased by \$2 million, from \$103 million at December 31, 2017 to \$101 million at December 31, 2018. Of the decrease in 2018, \$1 million was recorded to the income tax provision.

Deferred tax assets and liabilities are reported in the consolidated balance sheets as follows at December 31:

(In millions)	2018	2017
Noncurrent assets	\$ 20	\$ 23
Noncurrent liabilities	(745)	(552)
Total	<u>\$ (725)</u>	<u>\$ (529)</u>

Noncurrent deferred tax assets are included in other long-term assets at December 31, 2018 and 2017.

On December 22, 2017, the U.S. government enacted comprehensive tax legislation commonly referred to as the Tax Act. The Tax Act made broad changes to the U.S. tax code, including, but not limited to, (1) reducing the U.S. federal corporate tax rate from 35 percent to 21 percent beginning in 2018; (2) requiring companies to pay a one-time transition tax on certain un-repatriated earnings of foreign subsidiaries; (3) generally eliminating U.S. federal income taxes on dividends from foreign subsidiaries; (4) requiring U.S. federal taxable income to include certain earnings of controlled foreign corporations; and (5) creating a new limitation on deductible interest expense.

The Company recorded a provisional income tax benefit totaling \$275 million in 2017 related to the reduction of the U.S. federal corporate tax rate and other provisions of the Tax Act. The Internal Revenue Service issued new guidance with respect to the treatment of foreign tax credits in 2018 affecting the computation of the Company's 2017 federal income tax liability. As a result of this new guidance and additional analysis of the impact of the Tax Act, the Company revised its prior estimates and recorded \$19 million of tax expense related to the Tax Act during 2018. Accordingly, any and all provisional amounts previously recorded in accordance with the Tax Act have been adjusted to reflect their final amounts.

The Company has analyzed its global working capital and cash requirements and the potential tax liabilities attributable to repatriation of earnings, and has determined not to change its prior assertion. Accordingly, the Company has not recorded any deferred taxes attributable to investments in foreign subsidiaries for which it is permanently reinvested.

Unrecognized tax benefits were as follows:

(In millions)	2018	2017	2016
Unrecognized tax benefits - Beginning of year	\$ 42	\$ 45	\$ 54
Increases for tax positions taken during the current year	3	11	9
Increases for tax positions taken in prior years	20	2	1
Decreases for tax positions taken in prior years	(8)	(15)	(15)
Decreases for settlements	—	(1)	(2)
Lapse of the statute of limitations	(8)	—	(2)
Unrecognized tax benefits - End of year	<u>\$ 49</u>	<u>\$ 42</u>	<u>\$ 45</u>

At December 31, 2018, unrecognized tax benefits of \$35 million, net of federal and state benefits, would affect the effective income tax rate from continuing operations if recognized. In 2019, reductions to unrecognized tax benefits for decreases in tax positions taken in prior years, settlements and the lapse of statutes of limitations are estimated to total approximately \$3 million. The Company classifies interest expense and penalties related to income taxes as components of its income tax provision. The income tax provision from continuing operations included interest expense and penalties on unrecognized tax benefits of \$1 million in 2018, and less than \$1 million in each of 2017 and 2016. Accrued interest expense and penalties related to unrecognized tax benefits totaled \$4 million and \$3 million at December 31, 2018 and 2017, respectively.

The Company's federal tax returns for 2016 through 2018, and tax returns in certain states and foreign jurisdictions for 2005 through 2018 remain subject to examination by taxing authorities. At December 31, 2018, the Company had federal net operating loss carry-forwards of \$27 million, which expire in 2019 through 2036, state net operating loss carry-forwards of \$479 million, which expire in 2019 through 2038, and foreign net operating loss carry-forwards of \$465 million, \$42 million of which expire in 2027 through 2038, and the remainder of which do not expire.

8. Employee Stock and Savings Plans

Stock Plans

The Company recognizes the fair value of share-based compensation awards granted to employees in cost of processing and services, cost of product, and selling, general and administrative expense in its consolidated statements of income.

The Company's share-based compensation primarily consists of the following:

Stock Options – The Company grants stock options to employees and non-employee directors at exercise prices equal to the fair market value of the Company's stock on the dates of grant, which are typically in the first quarter of the year. Stock options generally vest over a three-year period beginning on the first anniversary of the grant. All stock options expire ten years from the date of the award. The Company recognizes compensation expense for the fair value of the stock options over the requisite service period of the stock option award.

Restricted Stock Units – The Company awards restricted stock units to employees and non-employee directors. The Company recognizes compensation expense for restricted stock units based on the market price of the common stock on the date of award over the period during which the awards vest. Restricted stock units generally vest over a three-year period beginning on the second anniversary of the award.

Performance Share Units – The Company awards performance share units to employees. The number of shares issued at the end of the performance period is determined by the level of achievement of pre-determined performance and market goals, including earnings, revenue growth and shareholder return. The Company recognizes compensation expense on performance share units ratably over the requisite performance period of the award to the extent management views the performance goals as probable of attainment. The Company recognizes compensation expense for the fair value of the shareholder return component over the requisite service period of the award.

Employee Stock Purchase Plan – The Company maintains an employee stock purchase plan that allows eligible employees to purchase a limited number of shares of common stock each quarter through payroll deductions at 85% of the closing price of the Company's common stock on the last business day of each calendar quarter. The Company recognizes compensation expense related to the 15% discount on the purchase date.

Share-based compensation expense was \$73 million in 2018, \$63 million in 2017 and \$68 million in 2016. The income tax benefits related to share-based compensation totaled \$13 million, \$21 million and \$23 million in 2018, 2017 and 2016, respectively. At December 31, 2018, the total remaining unrecognized compensation cost for unvested stock options, restricted stock units and performance share units, net of estimated forfeitures, of \$67 million is expected to be recognized over a weighted-average period of 2.3 years.

The weighted-average estimated fair value of stock options granted during 2018, 2017 and 2016 was \$22.48, \$18.76 and \$15.74 per share, respectively. The fair values of stock options granted were estimated on the date of grant using a binomial option-pricing model with the following assumptions:

	2018	2017	2016
Expected life (in years)	6.3	6.3	6.4
Average risk-free interest rate	2.2%	2.2%	1.9%
Expected volatility	28.3%	28.9%	29.3%
Expected dividend yield	0%	0%	0%

The Company determined the expected life of stock options using historical data adjusted for known factors that could alter historical exercise behavior. The risk-free interest rate is based on the U.S. treasury yield curve in effect as of the grant date. Expected volatility is determined using weighted-average implied market volatility combined with historical volatility. The Company believes that a blend of historical volatility and implied volatility better reflects future market conditions and better indicates expected volatility than purely historical volatility.

A summary of stock option activity is as follows:

	Shares (In thousands)	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value (In millions)
Stock options outstanding - December 31, 2017	13,791	\$ 28.17		
Granted	1,283	70.11		
Forfeited	(332)	57.65		
Exercised	(2,690)	18.62		
Stock options outstanding - December 31, 2018	12,052	\$ 33.96	5.2	\$ 477
Stock options exercisable - December 31, 2018	9,319	\$ 26.20	4.3	\$ 441

A summary of restricted stock and performance share unit activity is as follows:

	Restricted Stock Units		Performance Share Units	
	Shares (In thousands)	Weighted- Average Grant Date Fair Value	Shares (In thousands)	Weighted- Average Grant Date Fair Value
Units - December 31, 2017	1,942	\$ 44.35	402	\$ 52.16
Granted	569	71.13	164	75.40
Forfeited	(173)	54.72	(42)	55.42
Vested	(517)	39.03	—	—
Units - December 31, 2018	1,821	\$ 53.22	524	\$ 57.60

The table below presents additional information related to stock option and restricted stock unit activity:

<u>(In millions)</u>	2018	2017	2016
Total intrinsic value of stock options exercised	\$ 147	\$ 116	\$ 113
Fair value of restricted stock units vested	37	61	58
Income tax benefit from stock options exercised and restricted stock units vested	43	66	62
Cash received from stock options exercised	29	36	39

As of December 31, 2018, 35.5 million share-based awards were available for grant under the Amended and Restated Fiserv, Inc. 2007 Omnibus Incentive Plan. Under its employee stock purchase plan, the Company issued 0.7 million shares in 2018, 0.8 million shares in 2017 and 0.9 million shares in 2016. As of December 31, 2018, there were 25.3 million shares available for issuance under the employee stock purchase plan. The number of shares remaining available for future issuance under the employee stock purchase plan is subject to an annual increase on the first day of each fiscal year equal to the lesser of (i) 4.0 million shares, (ii) 1% of the shares of the Company's common stock outstanding on such date or (iii) a lesser amount determined by the Company's board of directors.

Employee Savings Plans

The Company and its subsidiaries have defined contribution savings plans covering substantially all employees. Under the plans, eligible participants may elect to contribute a specified percentage of their salaries and the Company makes matching contributions, each subject to certain limitations. Expenses for company contributions under these plans totaled \$44 million in each of 2018 and 2017, and \$42 million in 2016.

9. Leases, Commitments and Contingencies

Leases

The Company leases certain facilities and equipment under operating leases. Most leases contain renewal options for varying periods. Future minimum rental payments on operating leases with initial non-cancellable lease terms in excess of one year were due as follows at December 31, 2018:

<u>(In millions)</u>	
Year ending December 31,	
2019	\$ 94
2020	75
2021	62
2022	51
2023	40
Thereafter	108
Total	\$ 430

Rent expense for all operating leases was \$118 million, \$126 million and \$117 million during 2018, 2017 and 2016, respectively.

Commitments and Contingencies

Litigation

In the normal course of business, the Company or its subsidiaries are named as defendants in lawsuits in which claims are asserted against the Company. In the opinion of management, the liabilities, if any, which may ultimately result from such lawsuits are not expected to have a material adverse effect on the Company's consolidated financial statements.

Electronic Payments Transactions

In connection with the Company's processing of electronic payments transactions, funds received from subscribers are invested from the time the Company collects the funds until payments are made to the applicable recipients. These subscriber funds are invested in short-term, highly liquid investments. Subscriber funds, which are not included in the Company's consolidated balance sheets, can fluctuate significantly based on consumer bill payment and debit card activity and totaled approximately \$2.1 billion at December 31, 2018.

Indemnifications and Warranties

Subject to limitations and exclusions, the Company may indemnify its clients from certain costs resulting from claims of patent, copyright or trademark infringement associated with its clients' use of the Company's products or services. The Company may also warrant to clients that its products and services will operate substantially in accordance with identified specifications. From time to time, in connection with sales of businesses, the Company agrees to indemnify the buyers for liabilities associated with the businesses that are sold. Payments, net of recoveries, under such indemnification or warranty provisions were not material to the Company's consolidated results of operations or financial position.

10. Business Segment Information

The Company's operations are comprised of the Payments segment and the Financial segment. The Payments segment primarily provides electronic bill payment and presentment services, internet and mobile banking software and services, account-to-account transfers, person-to-person payment services, debit and credit card processing and services, payments infrastructure services, and other electronic payments software and services. The businesses in this segment also provide card and print personalization services, investment account processing services for separately managed accounts, and fraud and risk management products and services. The Financial segment provides financial institutions with account processing services, item processing and source capture services, loan origination and servicing products, cash management and consulting services, and other products and services that support numerous types of financial transactions. Corporate and Other primarily consists of intercompany eliminations, amortization of acquisition-related intangible assets, unallocated corporate expenses and other activities that are not considered when management evaluates segment performance, such as gains on sales of businesses and associated transition services.

(In millions)	Payments	Financial	Corporate and Other	Total
2018				
Processing and services revenue	\$ 2,728	\$ 2,204	\$ 43	\$ 4,975
Product revenue	739	191	(82)	848
Total revenue	3,467	2,395	(39)	5,823
Operating income ¹	1,122	798	(167)	1,753
Total assets	7,622	3,240	400	11,262
Capital expenditures	239	115	6	360
Depreciation and amortization expense	225	145	186	556
2017				
Processing and services revenue	\$ 2,476	\$ 2,347	\$ 10	\$ 4,833
Product revenue	758	183	(78)	863
Total revenue	3,234	2,530	(68)	5,696
Operating income	1,034	849	(351)	1,532
Total assets ²	6,596	3,309	384	10,289
Capital expenditures	182	95	10	287
Depreciation and amortization expense	169	92	183	444
2016				
Processing and services revenue	\$ 2,334	\$ 2,285	\$ 6	\$ 4,625
Product revenue	756	192	(68)	880
Total revenue	3,090	2,477	(62)	5,505
Operating income	943	823	(321)	1,445
Total assets	6,143	3,287	313	9,743
Capital expenditures	161	125	4	290
Depreciation and amortization expense	141	96	184	421

¹ A gain of \$227 million from the sale of a 55% interest of the Company's Lending Solutions business is included within Corporate and Other.

² Assets held for sale of \$50 million at December 31, 2017 related to discontinued operations have been included within Corporate and Other.

Revenue from clients outside the United States comprised approximately 6% of total revenue in 2018, and 5% in each of 2017 and 2016.

11. Quarterly Financial Data (unaudited)

Quarterly financial data for 2018 and 2017 was as follows:

(In millions, except per share data)

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Full Year
2018					
Total revenue	\$ 1,440	\$ 1,420	\$ 1,412	\$ 1,551	\$ 5,823
Cost of processing and services	568	560	568	628	2,324
Cost of product	191	179	181	194	745
Selling, general and administrative expenses	305	320	305	298	1,228
(Gain) loss on sale of business	(232)	3	2	—	(227)
Total expenses	832	1,062	1,056	1,120	4,070
Operating income	608	358	356	431	1,753
Income from continuing operations ⁽¹⁾	423	251	227	286	1,187
Net income	423	251	227	286	1,187
Comprehensive income	421	241	214	298	1,174
Net income per share - continuing operations: ⁽²⁾					
Basic	\$ 1.02	\$ 0.61	\$ 0.56	\$ 0.72	\$ 2.93
Diluted	\$ 1.00	\$ 0.60	\$ 0.55	\$ 0.71	\$ 2.87
2017					
Total revenue	\$ 1,394	\$ 1,386	\$ 1,400	\$ 1,516	\$ 5,696
Cost of processing and services	570	573	572	576	2,291
Cost of product	182	175	174	202	733
Selling, general and administrative expenses	277	276	284	313	1,150
Gain on sale of business	—	(10)	—	—	(10)
Total expenses	1,029	1,014	1,030	1,091	4,164
Operating income	365	372	370	425	1,532
Income from continuing operations ⁽¹⁾	247	221	232	532	1,232
Net income ⁽¹⁾	247	221	232	546	1,246
Comprehensive income	256	229	236	547	1,268
Net income per share - continuing operations: ⁽²⁾					
Basic	\$ 0.58	\$ 0.52	\$ 0.55	\$ 1.28	\$ 2.92
Diluted	\$ 0.56	\$ 0.51	\$ 0.54	\$ 1.25	\$ 2.86

(1) During the third quarter of 2018 and the fourth quarter of 2017, the Company recognized discrete income tax expense of \$19 million and income tax benefits of \$275 million, respectively, associated with the Tax Act enacted in December 2017. Refer to Note 7 for more information regarding the Company's income taxes.

(2) Net income per share - continuing operations in each period is calculated using actual, unrounded amounts. All per share amounts are presented on a split-adjusted basis to retroactively reflect the two-for-one stock split that was completed in the first quarter of 2018.

12. Subsequent Events

On January 16, 2019, the Company announced that it had entered into a definitive merger agreement to acquire First Data in an all-stock transaction for an equity value of approximately \$22 billion as of the announcement. The transaction is expected to close during the second half of 2019, subject to customary closing conditions, regulatory approvals and shareholder approval for both companies.

In connection with the definitive merger agreement, the Company entered into a bridge facility commitment letter pursuant to which a group of financial institutions committed to provide a 364-day senior unsecured bridge term loan facility in an aggregate principal amount of \$17 billion for the purpose of refinancing certain indebtedness of First Data and its subsidiaries on the closing date of the merger, making cash payments in lieu of fractional shares as part of the merger consideration, and paying fees and expenses related to the merger, the refinancing and the related transactions.

On February 15, 2019, the Company entered into a new term loan credit agreement with a syndicate of financial institutions pursuant to which such financial institutions have committed to provide the Company with a senior unsecured term loan facility in an aggregate principal amount of \$5.0 billion, consisting of \$1.5 billion in commitments to provide loans with a three-year maturity and \$3.5 billion in commitments to provide loans with a five-year maturity. The aggregate principal amount of the commitments under the term loan credit agreement have replaced a corresponding amount of the commitments in respect of the bridge facility in accordance with the terms of the bridge facility commitment letter. As a result, there are now \$12.0 billion in bridge facility commitments remaining. The Company expects to replace these remaining commitments with permanent financing in the form of the issuance of debt securities prior to the closing of the acquisition of First Data.

The availability of loans under the term loan facility is subject to the satisfaction or waiver of certain conditions that are substantially consistent with the conditions to the funding of the bridge facility, including (i) the closing of the acquisition substantially concurrently with the funding of such loans, (ii) the absence of a material adverse effect with respect to First Data since January 16, 2019, (iii) the truth and accuracy in all material respects of certain representations and warranties, (iv) the receipt of certain certificates, and (v) the receipt of certain financial statements. Loans drawn under the term loan facility will be subject to amortization at an annual rate of 5% for the first two years and 7.5% thereafter (with loans outstanding under the five-year tranche subject to amortization at an annual rate of 10% after the fourth anniversary of the commencement of amortization), with accrued and unpaid amortization amounts required to be paid on the last business day in December of each year. Borrowings under the term loan facility will bear interest at variable rates based on LIBOR or on a base rate plus, in each case, a specified margin based on the Company's long-term debt rating in effect from time to time. The Company is also required to pay a ticking fee that will accrue on the aggregate undrawn commitments under the term loan facility at a per annum rate based upon the Company's long-term debt rating in effect from time to time. The term loan credit agreement contains affirmative, negative and financial covenants, and events of default, that are substantially the same as those set forth in the Company's existing revolving credit facility, as amended as described within Note 6.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of Fiserv, Inc.:

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Fiserv, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of income, comprehensive income, shareholders' equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (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 21, 2019 expressed an unqualified opinion on the Company's internal control over financial reporting.

Change in Accounting Principle

As discussed in Note 1 to the financial statements, the Company has changed its method of accounting for revenue in 2018 due to adoption of Financial Accounting Standards Board (United States) Accounting Standard Codification Topic No. 606, *Revenue from Contracts with Customers*.

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

Milwaukee, Wisconsin

February 21, 2019

We have served as the Company's auditor since 1985.

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

Not applicable.

Item 9A. Controls and Procedures

(a) Disclosure Controls and Procedures

Our management, with the participation of our chief executive officer and chief financial officer, evaluated the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934). Based on this evaluation, our chief executive officer and chief financial officer concluded that our disclosure controls and procedures were effective as of December 31, 2018.

(b) Management Report on Internal Control Over Financial Reporting

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rule 13a-15(f) under the Securities Exchange Act of 1934. Our internal control over financial reporting is 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.

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 risk that controls may become inadequate because of changes in conditions.

Our management assessed the effectiveness of our internal control over financial reporting as of December 31, 2018. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control – Integrated Framework (2013)*. Based on management's assessment, our management believes that, as of December 31, 2018, our internal control over financial reporting was effective based on those criteria.

Our independent registered public accounting firm has issued their attestation report on our internal control over financial reporting. The report is included below under the heading "Report of Independent Registered Public Accounting Firm on Internal Control Over Financial Reporting."

(c) Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting that occurred during the quarter ended December 31, 2018 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

(d) Report of Independent Registered Public Accounting Firm on Internal Control Over Financial Reporting

Our independent registered public accounting firm, Deloitte & Touche LLP, assessed the effectiveness of our internal control over financial reporting and has issued their report as set forth below.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of Fiserv, Inc.:

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Fiserv, Inc. 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 21, 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 Annual 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

Milwaukee, Wisconsin
February 21, 2019

Item 9B. Other Information

In connection with the definitive merger agreement to acquire First Data, on January 16, 2019, we entered into a bridge facility commitment letter pursuant to which a group of financial institutions committed to provide a 364-day senior unsecured bridge term loan facility in an aggregate principal amount of \$17 billion for the purpose of refinancing certain indebtedness of First Data and its subsidiaries on the closing date of the merger, making cash payments in lieu of fractional shares as part of the merger consideration, and paying fees and expenses related to the merger, the refinancing and the related transactions.

On February 15, 2019, we entered into a new term loan credit agreement with a syndicate of financial institutions pursuant to which such financial institutions have committed to provide us with a senior unsecured term loan facility in an aggregate principal amount of \$5.0 billion, consisting of \$1.5 billion in commitments to provide loans with a three-year maturity and \$3.5 billion in commitments to provide loans with a five-year maturity. The aggregate principal amount of the commitments under the term loan credit agreement have replaced a corresponding amount of the commitments in respect of the bridge facility in accordance with the terms of the bridge facility commitment letter. As a result, there are now \$12.0 billion in bridge facility commitments remaining. We expect to replace these remaining commitments with permanent financing in the form of the issuance of debt securities prior to the closing of the merger.

The availability of loans under the term loan facility is subject to the satisfaction or waiver of certain conditions that are substantially consistent with the conditions to the funding of the bridge facility, including (i) the closing of the merger substantially concurrently with the funding of such loans, (ii) the absence of a material adverse effect with respect to First Data since January 16, 2019, (iii) the truth and accuracy in all material respects of certain representations and warranties, (iv) the receipt of certain certificates, and (v) the receipt of certain financial statements. Loans drawn under the term loan facility will be subject to amortization at an annual rate of 5% for the first two years and 7.5% thereafter (with loans outstanding under the five-year tranche subject to amortization at an annual rate of 10% after the fourth anniversary of the commencement of amortization), with accrued and unpaid amortization amounts required to be paid on the last business day in December of each year. Borrowings under the term loan facility will bear interest at variable rates based on LIBOR or on a base rate plus, in each case, a specified margin based on our long-term debt rating in effect from time to time. We are also required to pay a ticking fee that will accrue on the aggregate undrawn commitments under the term loan facility at a per annum rate based upon our long-term debt rating in effect from time to time. The term loan credit agreement contains affirmative, negative and financial covenants, and events of default, that are substantially the same as those set forth in our existing revolving credit facility, as amended, as described above under “Management’s Discussion and Analysis of Financial Condition and Results of Operations - Liquidity and Capital Resources.” The foregoing description of the term loan facility is summary in nature and is qualified in its entirety by reference to the term loan credit agreement, a copy of which is filed hereto as Exhibit 4.13 and incorporated herein by reference.

In addition, on February 15, 2019, we entered into a second amendment to our existing revolving credit agreement in order to increase the aggregate commitments available thereunder by \$1.5 billion and to make certain additional amendments to facilitate the operation of the combined business following the merger. The increased commitments and additional amendments will become effective upon the satisfaction or waiver of conditions that are substantially similar to the conditions to funding under the term loan facility described above. The foregoing description of the second amendment is summary in nature and is qualified in its entirety by reference to the second amendment, a copy of which is filed hereto as Exhibit 4.3.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

Except for information concerning our executive officers included in Part I of this Form 10-K under the caption “Executive Officers of the Registrant,” which is incorporated by reference herein, and the information regarding our Code of Conduct below, the information required by Item 10 is incorporated by reference to the information set forth under the captions “Our Board of Directors,” “Nominees for Election,” “Corporate Governance – Committees of the Board of Directors – Audit Committee,” “Corporate Governance – Nominations of Directors,” and “Section 16(a) Beneficial Ownership Reporting Compliance” in our definitive proxy statement for our 2019 annual meeting of shareholders, which will be filed with the Securities and Exchange Commission no later than 120 days after the close of the fiscal year ended December 31, 2018.

Our board of directors has adopted a Code of Conduct and Business Ethics (“Code of Conduct”) that applies to all of our directors and employees, including our chief executive officer, chief financial officer, chief accounting officer and other persons performing similar functions. We have posted a copy of our Code of Conduct on the “About – For Investors – Corporate Governance – Governance Documents” section of our website at www.fiserv.com. We intend to satisfy the disclosure requirements under Item 5.05 of Form 8-K regarding amendments to, or waivers from, the Code of Conduct by posting such information on the “About – For Investors” section of our website at www.fiserv.com. We are not including the information contained on our website as part of, or incorporating it by reference into, this report.

Item 11. Executive Compensation

The information required by Item 11 is incorporated by reference to the information set forth under the captions “Director Compensation,” “Compensation Discussion and Analysis,” “Compensation Committee Report,” “Compensation Committee Interlocks and Insider Participation,” “Executive Compensation,” and “Pay Ratio” in our definitive proxy statement for our 2019 annual meeting of shareholders, which will be filed with the Securities and Exchange Commission no later than 120 days after the close of the fiscal year ended December 31, 2018.

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

The information set forth under the caption “Security Ownership of Certain Beneficial Owners and Management” in our definitive proxy statement for our 2019 annual meeting of shareholders, which will be filed with the Securities and Exchange Commission no later than 120 days after the close of the fiscal year ended December 31, 2018, is incorporated by reference herein.

Equity Compensation Plan Information

The table below sets forth information with respect to compensation plans under which equity securities are authorized for issuance as of December 31, 2018.

	(a)	(b)	(c)
Plan Category	Number of shares to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of shares remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by our shareholders ⁽¹⁾	12,715,853 ⁽²⁾	\$33.96 ⁽³⁾	35,491,411 ⁽⁴⁾
Equity compensation plans not approved by our shareholders	N/A	N/A	N/A
Total	12,715,853	33.96 ⁽³⁾	35,491,411

- (1) Columns (a) and (c) of the table above do not include 1,681,038 unvested restricted stock units outstanding under the Amended and Restated Fiserv, Inc. 2007 Omnibus Incentive Plan (the “Incentive Plan”) or 25,336,020 shares authorized for issuance under the Fiserv, Inc. Amended and Restated Employee Stock Purchase Plan. The number of shares remaining available for future issuance under the employee stock purchase plan is subject to an annual increase on the first day of each fiscal year equal to the lesser of (i) 4,000,000 shares, (ii) 1% of the shares of our common stock outstanding on such date or (iii) a lesser amount determined by our board of directors.
- (2) Consists of options outstanding under the Incentive Plan as well as 524,290 shares subject to performance share units at the target award level under the Incentive Plan and 140,009 shares subject to non-employee director deferred compensation notional units under the Incentive Plan.
- (3) Represents the weighted average exercise price of outstanding options and does not take into account outstanding performance share units or non-employee director deferred compensation notional units.
- (4) Reflects the number of shares available for future issuance under the Incentive Plan.

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

The information required by Item 13 is incorporated by reference to the information set forth under the captions “Corporate Governance – Director Independence,” and “Corporate Governance – Review, Approval or Ratification of Transactions with Related Persons,” in our definitive proxy statement for our 2019 annual meeting of shareholders, which will be filed with the Securities and Exchange Commission no later than 120 days after the close of the fiscal year ended December 31, 2018.

Item 14. Principal Accounting Fees and Services

The information required by Item 14 is incorporated by reference to the information set forth under the captions “Independent Registered Public Accounting Firm and Fees” and “Audit Committee Pre-Approval Policy” in our definitive proxy statement for our 2019 annual meeting of shareholders, which will be filed with the Securities and Exchange Commission no later than 120 days after the close of the fiscal year ended December 31, 2018.

PART IV**Item 15. Exhibits, Financial Statement Schedules***Financial Statement Schedules*

Financial statement schedules have been omitted because they are not applicable or the required information is shown in the consolidated financial statements or accompanying notes.

Exhibits

The exhibits listed in the accompanying exhibit index are filed as part of this Annual Report on Form 10-K.

EXHIBIT INDEX

Exhibit Number	Exhibit Description
2.1	Agreement and Plan of Merger, dated as of January 16, 2019, among Fiserv, Inc., 300 Holdings, Inc. and First Data Corporation (1)
3.1	Restated Articles of Incorporation (2)
3.2	Amended and Restated By-laws (3)
4.1	Third Amended and Restated Credit Agreement, dated as of September 19, 2018, among Fiserv, Inc. and the financial institutions party thereto (4)
4.2	Amendment No. 1 to Third Amended and Restated Credit Agreement, dated as of February 6, 2019, among Fiserv, Inc. and the financial institutions party thereto (5)
4.3	Amendment No. 2 to Third Amended and Restated Credit Agreement, dated as of February 15, 2019, among Fiserv, Inc. and the financial institutions party thereto
4.4	Indenture, dated as of November 20, 2007, by and among Fiserv, Inc., the guarantors named therein and U.S. Bank National Association (6)
4.5	Eighth Supplemental Indenture, dated as of June 14, 2011, among Fiserv, Inc., the guarantors named therein and U.S. Bank National Association (7)
4.6	Tenth Supplemental Indenture, dated as of September 25, 2012, among Fiserv, Inc., the guarantors named therein and U.S. Bank National Association (8)
4.7	Twelfth Supplemental Indenture, dated as of May 22, 2015, between Fiserv, Inc. and U.S. Bank National Association (9)
4.8	Thirteenth Supplemental Indenture, dated as of May 22, 2015, between Fiserv, Inc. and U.S. Bank National Association (9)
4.9	Fourteenth Supplemental Indenture, dated as of September 25, 2018, between Fiserv, Inc. and U.S. Bank National Association (10)
4.10	Fifteenth Supplemental Indenture, dated as of September 25, 2018, between Fiserv, Inc. and U.S. Bank National Association (10)
4.11	Shareholder Agreement, dated as of January 16, 2019, between Fiserv, Inc. and New Omaha Holdings L.P. (1)
4.12	Registration Rights Agreement, dated as of January 16, 2019, between Fiserv, Inc. and New Omaha Holdings L.P. (1)
4.13	Term Loan Credit Agreement, dated as of February 15, 2019, among Fiserv, Inc. and the financial institutions party thereto
	Pursuant to Item 601(b)(4)(iii) of Regulation S-K, the Company agrees to furnish to the Securities and Exchange Commission, upon request, any instrument defining the rights of holders of long-term debt that is not filed as an exhibit to this Form 10-K.
10.1	Amended and Restated Fiserv, Inc. 2007 Omnibus Incentive Plan (11)*
	Amended and Restated Fiserv, Inc. 2007 Omnibus Incentive Plan Forms of Award Agreements

10.2	- Form of Restricted Stock Unit Agreement (Non-Employee Director) (12)*
10.3	- Form of Restricted Stock Unit Agreement (Employee-PR) (13)*
10.4	- Form of Amendment to Restricted Stock Unit Agreement (Employee-PR) (14)*
10.5	- Form of Restricted Stock Unit Agreement (Employee-E) (13)*
10.6	- Form of Restricted Stock Unit Agreement (Employee-N) (13)*
10.7	- Form of Non-Qualified Stock Option Agreement (Non-Employee Director-LE) (12)*
10.8	- Form of First Amendment to Non-Qualified Stock Option Agreement (Non-Employee Director - LE) (15)*
10.9	- Form of Non-Qualified Stock Option Agreement (Non-Employee Director - EE) (15)*
10.10	- Form of Second Amendment to Non-Qualified Stock Option Agreement (Non-Employee Director - LE/EE) (16)*
10.11	- Form of Non-Qualified Stock Option Agreement (Non-Employee Director - N) (16)*
10.12	- Form of Stock Option Agreement (Employee-F) (13)*
10.13	- Form of Amendment to Stock Option Agreement (Employee-F) (14)*
10.14	- Form of Stock Option Agreement (Employee-E) (13)*
10.15	- Form of Stock Option Agreement (Employee-N) (13)*
10.16	- Form of Performance Share Unit Agreement (Employee-PR) (13)*
10.17	- Form of Performance Share Unit Agreement (Employee-E) (13)*
10.18	- Form of Performance Share Unit Agreement (Employee-N) (13)*
10.19	Amended and Restated Employment Agreement, dated December 22, 2008, between Fiserv, Inc. and Jeffery W. Yabuki (17)*
10.20	Amendment No. 1 to Amended and Restated Employment Agreement, dated February 26, 2009, between Fiserv, Inc. and Jeffery W. Yabuki (18)*
10.21	Amendment No. 2 to Amended and Restated Employment Agreement, dated December 30, 2009, between Fiserv, Inc. and Jeffery W. Yabuki (19)*
10.22	Amendment No. 3 to Amended and Restated Employment Agreement, dated March 29, 2016, between Fiserv, Inc. and Jeffery W. Yabuki (20)*
10.23	Amended and Restated Key Executive Employment and Severance Agreement, dated December 22, 2008, between Fiserv, Inc. and Jeffery W. Yabuki (17)*
10.24	Amendment No. 1 to Amended and Restated Key Executive Employment and Severance Agreement, dated March 29, 2016, between Fiserv, Inc. and Jeffery W. Yabuki (20)*
10.25	Employment Agreement, dated February 23, 2010, between Fiserv, Inc. and Lynn S. McCreary (21)*
10.26	Amendment No. 1 to Employment Agreement, dated July 1, 2013, between Fiserv, Inc. and Lynn S. McCreary (21)*
10.27	Employment Agreement, dated November 7, 2013, between Fiserv, Inc. and Byron C. Vielehr (22)*
10.28	Letter Agreement, dated October 22, 2014, between Fiserv, Inc. and Kevin J. Schultz (14)*
10.29	Form of Amended and Restated Key Executive Employment and Severance Agreement, between Fiserv, Inc. and each of Lynn McCreary, Kevin Schultz and Byron Vielehr (17)*
10.30	Letter Agreement, effective February 10, 2016, between Fiserv, Inc. and Robert W. Hau (23)*
10.31	Form of Key Executive Employment and Severance Agreement between Fiserv, Inc. and Robert W. Hau (24)*
10.32	Letter Agreement, effective October 31, 2016, between Fiserv, Inc. and Devin B. McGranahan (13)*
10.33	Key Executive Employment and Severance Agreement, dated October 31, 2016, between Fiserv, Inc. and Devin B. McGranahan (13)*
10.34	Fiserv, Inc. Non-Qualified Deferred Compensation Plan (16)*
10.35	Form of Non-Employee Director Indemnity Agreement (25)
10.36	Fiserv, Inc. Non-Employee Director Deferred Compensation Plan (16)*
10.37	Non-Employee Director Compensation Schedule (26)*
10.38	Voting and Support Agreement, dated as of January 16, 2019, between Fiserv, Inc. and New Omaha Holdings L.P. (1)
10.39	Bridge Facility Commitment Letter, dated as of January 16, 2019, between Fiserv, Inc. and JPMorgan Chase Bank, N.A. (1)
21.1	Subsidiaries of Fiserv, Inc.
23.1	Consent of Independent Registered Public Accounting Firm

31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32.1	Certification of the Chief Executive Officer and the Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.INS**	XBRL Instance Document
101.SCH**	XBRL Taxonomy Extension Schema Document
101.CAL**	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF**	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB**	XBRL Taxonomy Extension Label Linkbase Document
101.PRE**	XBRL Taxonomy Extension Presentation Linkbase Document

* This exhibit is a management contract or compensatory plan or arrangement.

** Filed with this Annual Report on Form 10-K are the following documents formatted in XBRL (Extensible Business Reporting Language): (i) the Consolidated Statements of Income for the years ended December 31, 2018, 2017, and 2016, (ii) the Consolidated Statements of Comprehensive Income for the years ended December 31, 2018, 2017, and 2016, (iii) the Consolidated Balance Sheets at December 31, 2018 and 2017, (iv) the Consolidated Statements of Shareholders' Equity for the years ended December 31, 2018, 2017, and 2016, (v) the Consolidated Statements of Cash Flows for the years ended December 31, 2018, 2017, and 2016, and (vi) Notes to Consolidated Financial Statements.

- (1) Previously filed as an exhibit to the Company's Current Report on form 8-K filed on January 18, 2019, and incorporated herein by reference.
- (2) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on February 27, 2018, and incorporated herein by reference.
- (3) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 19, 2016, and incorporated herein by reference.
- (4) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on September 20, 2018, and incorporated herein by reference.
- (5) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on February 7, 2019, and incorporated herein by reference.
- (6) Previously filed as an exhibit to the Company's Registration Statement on Form S-3 (File No. 333-147309) filed on November 13, 2007, and incorporated herein by reference.
- (7) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on June 14, 2011, and incorporated herein by reference.
- (8) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on September 25, 2012, and incorporated herein by reference.
- (9) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on May 22, 2015, and incorporated herein by reference.
- (10) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on September 25, 2018, and incorporated herein by reference.
- (11) Previously filed as an exhibit to the Company's Quarterly Report on Form 10-Q filed on May 2, 2018, and incorporated herein by reference
- (12) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 24, 2012, and incorporated herein by reference.

- (13) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 23, 2017, and incorporated herein by reference.
- (14) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 20, 2015, and incorporated herein by reference.
- (15) Previously filed as an exhibit to the Company's Quarterly Report on Form 10-Q filed on August 2, 2017, and incorporated herein by reference.
- (16) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on December 1, 2017, and incorporated herein by reference.
- (17) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on December 23, 2008, and incorporated herein by reference.
- (18) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 27, 2009, and incorporated herein by reference.
- (19) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on December 30, 2009, and incorporated herein by reference.
- (20) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on April 1, 2016, and incorporated herein by reference.
- (21) Previously filed as an exhibit to the Company's Quarterly Report on Form 10-Q filed on October 30, 2013, and incorporated herein by reference.
- (22) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 20, 2014, and incorporated herein by reference.
- (23) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on February 16, 2016, and incorporated herein by reference.
- (24) Previously filed as an exhibit to the Company's Quarterly Report on Form 10-Q filed on May 6, 2016, and incorporated herein by reference.
- (25) Previously filed as an exhibit to the Company's Annual Report on Form 10-K filed on February 28, 2008, and incorporated herein by reference.
- (26) Previously filed as an exhibit to the Company's Current Report on Form 8-K filed on May 24, 2018, and incorporated herein by reference.

Item 16. Form 10-K Summary

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on February 21, 2019.

FISERV, INC.

By: /s/ Jeffery W. Yabuki

Jeffery W. Yabuki

President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities indicated on February 21, 2019.

<u>Name</u>	<u>Capacity</u>
<u>/s/ Glenn M. Renwick</u> Glenn M. Renwick	Chairman of the Board
<u>/s/ Jeffery W. Yabuki</u> Jeffery W. Yabuki	Director, President and Chief Executive Officer (Principal Executive Officer)
<u>/s/ Robert W. Hau</u> Robert W. Hau	Chief Financial Officer and Treasurer (Principal Financial Officer)
<u>/s/ Kenneth F. Best</u> Kenneth F. Best	Chief Accounting Officer (Principal Accounting Officer)
<u>/s/ Alison Davis</u> Alison Davis	Director
<u>/s/ Harry F. DiSimone</u> Harry F. DiSimone	Director
<u>/s/ John Y. Kim</u> John Y. Kim	Director
<u>/s/ Dennis F. Lynch</u> Dennis F. Lynch	Director
<u>/s/ Denis J. O'Leary</u> Denis J. O'Leary	Director
<u>/s/ Kim M. Robak</u> Kim M. Robak	Director
<u>/s/ JD Sherman</u> JD Sherman	Director
<u>/s/ Doyle R. Simons</u> Doyle R. Simons	Director

CERTIFICATION PURSUANT TO SECTION 302
OF THE SARBANES-OXLEY ACT OF 2002

I, Jeffery W. Yabuki, certify that:

1. I have reviewed this Annual Report on Form 10-K of Fiserv, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2019

By: /s/ Jeffery W. Yabuki
Jeffery W. Yabuki
President and Chief Executive Officer

CERTIFICATION PURSUANT TO SECTION 302
OF THE SARBANES-OXLEY ACT OF 2002

I, Robert W. Hau, certify that:

1. I have reviewed this Annual Report on Form 10-K of Fiserv, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2019

By: /s/ Robert W. Hau

Robert W. Hau

Chief Financial Officer and Treasurer

CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report on Form 10-K of Fiserv, Inc. (the "Company") for the year ended December 31, 2018 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Jeffery W. Yabuki, as President and Chief Executive Officer of the Company, and Robert W. Hau, as Chief Financial Officer and Treasurer of the Company, each hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to the best of his knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

By: /s/ Jeffery W. Yabuki
Jeffery W. Yabuki
President and Chief Executive Officer
February 21, 2019

By: /s/ Robert W. Hau
Robert W. Hau
Chief Financial Officer and Treasurer
February 21, 2019