
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended September 30, 2017

or

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

For the transition period from

Commission File Number 0-25346

ACI WORLDWIDE, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

3520 Kraft Rd, Suite 300
Naples, FL 34105
(Address of principal executive offices,
including zip code)

47-0772104
(I.R.S. Employer
Identification No.)

(239) 403-4600
(Registrant's telephone number,
including area code)

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 and posted on its corporate Web site, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of the Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

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

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

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

As of October 30, 2017, there were 118,579,224 shares of the registrant's common stock outstanding.

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ACI WORLDWIDE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS
(unaudited and in thousands, except share and per share amounts)

	September 30, 2017	December 31, 2016
ASSETS		
Current assets		
Cash and cash equivalents	\$ 67,930	\$ 75,753
Receivables, net of allowances of \$4,157 and \$3,873, respectively	182,269	268,162
Recoverable income taxes	5,935	4,614
Prepaid expenses	25,620	25,884
Other current assets	24,968	33,578
Total current assets	<u>306,722</u>	<u>407,991</u>
Noncurrent assets		
Property and equipment, net	79,883	78,950
Software, net	164,470	185,496
Goodwill	909,691	909,691
Intangible assets, net	195,098	203,634
Deferred income taxes, net	121,839	77,479
Other noncurrent assets	37,186	39,054
TOTAL ASSETS	<u>\$ 1,814,889</u>	<u>\$ 1,902,295</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities		
Accounts payable	\$ 29,664	\$ 42,873
Employee compensation	47,702	47,804
Current portion of long-term debt	17,772	90,323
Deferred revenue	109,179	105,191
Income taxes payable	7,659	11,334
Other current liabilities	53,016	78,841
Total current liabilities	<u>264,992</u>	<u>376,366</u>
Noncurrent liabilities		
Deferred revenue	47,669	49,863
Long-term debt	674,394	653,595
Deferred income taxes, net	19,788	26,349
Other noncurrent liabilities	36,737	41,205
Total liabilities	<u>1,043,580</u>	<u>1,147,378</u>
Commitments and contingencies (Note 12)		
Stockholders' equity		
Preferred stock; \$0.01 par value; 5,000,000 shares authorized; no shares issued at September 30, 2017 and December 31, 2016	—	—
Common stock; \$0.005 par value; 280,000,000 shares authorized; 140,525,055 shares issued at September 30, 2017 and December 31, 2016	702	702
Additional paid-in capital	620,974	600,344
Retained earnings	517,702	545,731
Treasury stock, at cost, 22,231,088 and 23,188,258 shares at September 30, 2017 and December 31, 2016, respectively	(288,495)	(297,760)
Accumulated other comprehensive loss	(79,574)	(94,100)
Total stockholders' equity	<u>771,309</u>	<u>754,917</u>
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	<u>\$ 1,814,889</u>	<u>\$ 1,902,295</u>

The accompanying notes are an integral part of the condensed consolidated financial statements.

ACI WORLDWIDE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(unaudited and in thousands, except per share amounts)

	For the Three Months Ended September 30,		For the Nine Months Ended September 30,	
	2017	2016	2017	2016
Revenues				
Software as a service and platform as a service	\$ 99,761	\$ 96,169	\$ 312,677	\$ 310,170
License	50,017	43,256	163,578	114,189
Maintenance	56,349	57,741	166,829	175,404
Services	19,608	19,809	54,712	63,208
Total revenues	<u>225,735</u>	<u>216,975</u>	<u>697,796</u>	<u>662,971</u>
Operating expenses				
Cost of revenue (1)	107,393	100,267	336,293	334,085
Research and development	33,935	42,210	106,189	132,235
Selling and marketing	25,236	29,874	81,190	88,661
General and administrative	25,302	31,390	130,332	91,978
Gain on sale of CFS assets	—	489	—	(151,463)
Depreciation and amortization	22,446	22,098	67,189	66,688
Total operating expenses	<u>214,312</u>	<u>226,328</u>	<u>721,193</u>	<u>562,184</u>
Operating income (loss)	<u>11,423</u>	<u>(9,353)</u>	<u>(23,397)</u>	<u>100,787</u>
Other income (expense)				
Interest expense	(9,374)	(9,838)	(30,198)	(29,967)
Interest income	165	145	421	416
Other	(1,059)	2,794	(2,176)	4,483
Total other income (expense)	<u>(10,268)</u>	<u>(6,899)</u>	<u>(31,953)</u>	<u>(25,068)</u>
Income (loss) before income taxes	1,155	(16,252)	(55,350)	75,719
Income tax expense (benefit)	(2,233)	(6,426)	(27,321)	12,875
Net income (loss)	<u>\$ 3,388</u>	<u>\$ (9,826)</u>	<u>\$ (28,029)</u>	<u>\$ 62,844</u>
Earnings (loss) per common share				
Basic	\$ 0.03	\$ (0.08)	\$ (0.24)	\$ 0.53
Diluted	\$ 0.03	\$ (0.08)	\$ (0.24)	\$ 0.53
Weighted average common shares outstanding				
Basic	118,254	116,118	117,096	117,606
Diluted	119,743	116,118	117,096	118,971

(1) The cost of revenue excludes charges for depreciation but includes amortization of purchased and developed software for resale.

The accompanying notes are an integral part of the condensed consolidated financial statements.

ACI WORLDWIDE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)
(unaudited and in thousands)

	<u>Three Months Ended</u> <u>September 30,</u>		<u>Nine Months Ended</u> <u>September 30,</u>	
	<u>2017</u>	<u>2016</u>	<u>2017</u>	<u>2016</u>
Net income (loss)	\$3,388	\$ (9,826)	\$(28,029)	\$62,844
Other comprehensive income (loss):				
Foreign currency translation adjustments	(594)	(2,228)	14,526	(4,887)
Total other comprehensive income (loss)	(594)	(2,228)	14,526	(4,887)
Comprehensive income (loss)	<u>\$2,794</u>	<u>\$(12,054)</u>	<u>\$(13,503)</u>	<u>\$57,957</u>

The accompanying notes are an integral part of the condensed consolidated financial statements.

ACI WORLDWIDE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(unaudited and in thousands)

	For the Nine Months Ended September 30,	
	2017	2016
Cash flows from operating activities:		
Net income (loss)	\$ (28,029)	\$ 62,844
Adjustments to reconcile net income (loss) to net cash flows from operating activities:		
Depreciation	18,658	16,130
Amortization	58,114	59,708
Amortization of deferred debt issuance costs	3,537	4,198
Deferred income taxes	(37,707)	(1,561)
Stock-based compensation expense	22,724	33,812
Gain on sale of CFS assets	—	(151,463)
Other	1,094	(407)
Changes in operating assets and liabilities, net of impact of acquisitions:		
Receivables	80,398	34,784
Accounts payable	(11,610)	(15,898)
Accrued employee compensation	(1,056)	18,260
Current income taxes	(10,161)	5,691
Deferred revenue	(1,248)	3,663
Other current and noncurrent assets and liabilities	(9,642)	(4,905)
Net cash flows from operating activities	<u>85,072</u>	<u>64,856</u>
Cash flows from investing activities:		
Purchases of property and equipment	(18,566)	(34,429)
Purchases of software and distribution rights	(21,328)	(19,211)
Proceeds from sale of CFS assets	—	199,481
Other	—	(7,000)
Net cash flows from investing activities	<u>(39,894)</u>	<u>138,841</u>
Cash flows from financing activities:		
Proceeds from issuance of common stock	2,185	2,395
Proceeds from exercises of stock options	10,284	8,749
Repurchase of restricted stock for tax withholdings	(5,311)	(2,975)
Repurchases of common stock	—	(60,089)
Proceeds from revolving credit facility	42,000	52,000
Repayment of revolving credit facility	(126,000)	(166,000)
Proceeds from term portion of credit agreement	415,000	—
Repayment of term portion of credit agreement	(380,852)	(71,470)
Payment of debt issuance costs	(5,340)	(370)
Payments on other debt and capital leases	(9,286)	(13,538)
Net cash flows from financing activities	<u>(57,320)</u>	<u>(251,298)</u>
Effect of exchange rate fluctuations on cash	4,319	(3,726)
Net decrease in cash and cash equivalents	(7,823)	(51,327)
Cash and cash equivalents, beginning of period	75,753	102,239
Cash and cash equivalents, end of period	<u>\$ 67,930</u>	<u>\$ 50,912</u>
Supplemental cash flow information		
Income taxes paid, net	\$ 24,693	\$ 11,986
Interest paid	\$ 31,762	\$ 31,107

The accompanying notes are an integral part of the condensed consolidated financial statements.

ACI WORLDWIDE, INC. AND SUBSIDIARIES
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

1. Condensed Consolidated Financial Statements

The unaudited condensed consolidated financial statements include the accounts of ACI Worldwide, Inc. and its wholly-owned subsidiaries (collectively, the “Company”). All intercompany balances and transactions have been eliminated. The condensed consolidated financial statements as of September 30, 2017, and for the three and nine months ended September 30, 2017 and 2016, are unaudited and reflect all adjustments of a normal recurring nature, which are, in the opinion of management, necessary for a fair presentation, in all material respects, of the financial position and operating results for the interim periods. The condensed consolidated balance sheet as of December 31, 2016 is derived from the audited financial statements.

The condensed consolidated financial statements contained herein should be read in conjunction with the consolidated financial statements and notes thereto contained in the Company’s annual report on Form 10-K for the fiscal year ended December 31, 2016, filed on March 1, 2017. Results for the three and nine months ended September 30, 2017 are not necessarily indicative of results that may be attained in the future.

The preparation of condensed consolidated financial statements in conformity with accounting principles generally accepted in the United States (“U.S. GAAP”) 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 condensed consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Receivables, net

Receivables represent amounts billed and amounts earned that are to be billed in the near future. Included in accrued receivables are services, software as a service (“SaaS”) and platform as a service (“Platform”) revenues earned in the current period but billed in a subsequent period as well as license revenues that are fixed and determinable but billed in future periods.

<u>(in thousands)</u>	<u>September 30,</u> <u>2017</u>	<u>December 31,</u> <u>2016</u>
Billed Receivables	\$ 160,622	\$ 250,116
Allowance for doubtful accounts	(4,157)	(3,873)
Billed, net	156,465	246,243
Accrued Receivables	25,804	21,919
Receivables, net	<u>\$ 182,269</u>	<u>\$ 268,162</u>

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Other Current Assets and Other Current Liabilities

<u>(in thousands)</u>	<u>September 30,</u> <u>2017</u>	<u>December 31,</u> <u>2016</u>
Settlement deposits	\$ 6,392	\$ 10,496
Settlement receivables	7,239	14,327
Other	11,337	8,755
Total other current assets	<u>\$ 24,968</u>	<u>\$ 33,578</u>
<u>(in thousands)</u>	<u>September 30,</u> <u>2017</u>	<u>December 31,</u> <u>2016</u>
Settlement payables	\$ 13,107	\$ 24,016
Accrued interest	2,469	7,356
Vendor financed licenses	2,092	9,213
Royalties payable	7,073	7,197
Other	28,275	31,059
Total other current liabilities	<u>\$ 53,016</u>	<u>\$ 78,841</u>

Individuals and businesses settle their obligations to the Company's various clients, primarily utility and other public sector clients, using credit or debit cards or via ACH payments. The Company creates a receivable for the amount due from the credit or debit card company and an offsetting payable to the client. Once confirmation is received that the funds have been received, the Company settles the obligation to the client. Due to timing, in some instances, the Company may receive the funds into bank accounts controlled by and in the Company's name that are not disbursed to its clients by the end of the day resulting in a settlement deposit on the Company's books.

Off Balance Sheet Accounts

The Company also enters into agreements with certain clients to process payment funds on their behalf. When an automated clearing house or automated teller machine network payment transaction is processed, a transaction is initiated to withdraw funds from the designated source account and deposit them into a settlement account, which is a trust account maintained for the benefit of the Company's clients. A simultaneous transaction is initiated to transfer funds from the settlement account to the intended destination account. These "back to back" transactions are designed to settle at the same time, usually overnight, such that the Company receives the funds from the source at the same time as it sends the funds to their destination. However, due to the transactions being with various financial institutions there may be timing differences that result in float balances. These funds are maintained in accounts for the benefit of the client which is separate from the Company's corporate assets. As the Company does not take ownership of the funds, the settlement accounts are not included in the Company's balance sheet. The Company is entitled to interest earned on the fund balances. The collection of interest on these settlement accounts is considered in the Company's determination of its fee structure for clients and represents a portion of the payment for services performed by the Company. The amount of settlement funds as of September 30, 2017 and December 31, 2016 were \$223.9 million and \$270.0 million, respectively.

Fair Value

The fair value of the Company's Credit Agreement approximates the carrying value due to the floating interest rate (Level 2 of the fair value hierarchy). The Company measures the fair value of its Senior Notes based on Level 2 inputs, which include quoted market prices and interest rate spreads of similar securities. The fair value of the Company's Senior Notes was \$305.4 million and \$309.8 million at September 30, 2017 and December 31, 2016, respectively.

The fair values of cash and cash equivalents approximate the carrying values due to the short period of time to maturity (Level 2 of the fair value hierarchy).

Goodwill

Changes in the carrying amount of goodwill attributable to each reporting unit with goodwill balances during the nine months ended September 30, 2017 were as follows:

<u>(in thousands)</u>	<u>ACI</u> <u>On Demand</u>	<u>ACI</u> <u>On Premise</u>	<u>Total</u>
Gross Balance prior to December 31, 2016	\$ 183,783	\$ 773,340	\$957,123
Total impairment prior to December 31, 2016	—	(47,432)	(47,432)
Balance, December 31, 2016	183,783	725,908	909,691
Adjustments	—	—	—
Balance, September 30, 2017	<u>\$ 183,783</u>	<u>\$ 725,908</u>	<u>\$909,691</u>

In accordance with the Accounting Standards Codification (“ASC 350”), *Intangibles – Goodwill and Other*, we assess goodwill for impairment annually during the fourth quarter of our fiscal year using October 1 balances or when there is evidence that events or changes in circumstances indicate that the carrying amount of the asset may not be recovered. Recoverability of goodwill is measured using a discounted cash flow model incorporating discount rates commensurate with the risks involved. Use of a discounted cash flow model is common practice in impairment testing in the absence of available transactional market evidence to determine the fair value. The calculated fair value was substantially in excess of the current carrying value for all reporting units based upon our October 1, 2016 annual impairment test and there have been no indications of impairment in the subsequent periods.

The Company evaluates goodwill at the reporting unit level, and as discussed in Note 10, *Segment Information*, during the first quarter of 2017, it announced a change in organizational structure to better align with the Company’s strategic direction. This change in the Company’s operating segments also resulted in a change in reporting units to coincide with the new operating segments - ACI On Demand and ACI On Premise. The Company allocated goodwill to the new reporting units using a relative fair value approach. In addition, the Company performed an assessment of potential goodwill impairment for all reporting units immediately prior to the reallocation and determined that no impairment was indicated.

Recently Issued Accounting Standards Not Yet Effective

In May 2014, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) 2014-09, *Revenue from Contracts with Customers* (codified as “ASC 606”). ASC 606 will supersede the revenue recognition requirements in Accounting Standard Codification 605, *Revenue Recognition*, and most industry-specific guidance. The standard requires that entities recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which a company expects to be entitled in exchange for those goods or services. On July 9, 2015, the FASB deferred the effective date to fiscal years beginning after December 15, 2017, and for interim periods within those fiscal years. The Company will adopt the standard effective January 1, 2018 (the effective date). The standard permits the use of either the retrospective or modified retrospective transition method. The Company will adopt the standard under the modified retrospective transition method which will result in an adjustment to retained earnings for the cumulative effect of applying the standard to active contracts as of the adoption date. As this method does not result in recast of the prior year financial statements, ASC 606 requires the Company to provide additional disclosures during the year of adoption for the amount by which each financial statement line item is affected by adoption of the new standard and explanation of the reasons for significant changes.

During 2016, the Company began its detailed assessment of the impact of ASC 606 and completed its initial assessment of the impact on its license, maintenance, and services revenues. This assessment continued during early 2017, with increased focus on the impact of ASC 606 on SaaS and Platform revenues, detailed review of customer contracts under ASC 606 for each revenue stream, identification of key data requirements for contract reviews and necessary changes to processes, systems, and internal controls. As of September 30, 2017 the Company has completed its initial assessment of the impact of ASC 606 on all revenue streams. The Company has considered and evaluated the data necessary to comply with the expanded disclosures required under the new standard and has started to make changes to its processes and systems. The Company continues to evaluate the impact of the standard on its consolidated financial statements and related disclosures and is actively engaged in the process of preparing its transition adjustment under the modified retrospective transition method. The Company continues to believe that the most significant impacts relate to changes in the timing and amount of recognition for software license revenues and sales commission expenses and the expanded qualitative and quantitative disclosures required under the new standard. The Company expects revenue related to maintenance, services, and SaaS and Platform to remain substantially unchanged. While the Company continues to make progress in preparing for the adoption of ASC 606, work remains due to the complexity of applying ASC 606 to our contracts, the increased number of judgments and estimates required, and the volume of contracts that are subject to review. Accordingly, our assessment of ASC 606 will continue through the effective date.

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As it relates to software license revenues, under ASC 606 the Company will recognize revenue in advance of billings for certain software license arrangements with extended payment terms as opposed to when payments become due and payable. Additionally, certain of those same software license arrangements will contain a significant financing component which will result in a change in the amount of the contract value that is allocated to software license revenue. Because the requirement to have vendor-specific objective evidence (“VSOE”) of fair value for undelivered elements is eliminated under the new standard, the Company expects the amounts allocated to software license, maintenance, and services revenues for most software license arrangements to be recognized as each element is delivered or provided to the customer. Under current U.S. GAAP, when software license arrangements include post contract customer support (maintenance or “PCS”) terms that fail to achieve VSOE of fair value, the Company recognizes all revenues in the arrangement ratably over the longer service period.

The Company has performed a detailed review of its active software license arrangements (as of August 31, 2017) including contracts with software license payment terms that extend beyond one year from the delivery of the software license and continue beyond December 31, 2017. The Company assessed whether those arrangements contain a significant financing component and, if so, calculated the amount of significant financing component at contract execution and the estimated remaining balance on January 1, 2018. Upon adoption of ASC 606, the Company will record an accrued receivable in its condensed consolidated balance sheet which represents the Company’s unconditional right to consideration at its present value (i.e. adjusted for the significant financing component) with an offsetting increase to retained earnings. The significant financing component will be recognized as interest income in the Company’s condensed consolidated statement of operations over the remaining contract term. The amounts allocated to the significant financing component would have been recognized as revenue under current U.S. GAAP.

The Company has determined that its SaaS-based and Platform-based arrangements represent a single promise to provide continuous access (i.e. a stand-ready obligation) to its software solutions and their processing capabilities in the form of a service through one of the Company’s data centers. As each day of providing access to the software solution(s) is substantially the same and the customer simultaneously receives and consumes the benefits as access is provided, the Company has determined that its SaaS-based and Platform-based arrangements include a single performance obligation comprised of a series of distinct services. The Company’s SaaS-based and Platform-based arrangements may include fixed consideration, variable consideration or a combination of the two. Variable consideration in these arrangements is typically a function of a tier-based pricing structure that provides that customer with levels of transaction volume that “reset” with varying frequencies (e.g. monthly, quarterly or annually) and the corresponding rate per transaction within each level. Depending upon the structure of a particular arrangement, the Company will either: (1) allocate the variable amount to each distinct service period within the series and recognize revenue as each distinct service period is performed (i.e. direct allocation), (2) estimate total variable consideration at contract inception (giving consideration to any constraints that may apply) and recognize the total transaction price over the period to which it relates, or (3) apply ‘right to invoice’ practical expedient. At this time, the Company believes that revenue from most of its SaaS-based and Platform-based arrangements will be recognized under the direct allocation method or by applying the ‘right to invoice’ practical expedient, which will result in the same pattern of recognition as under current U.S. GAAP.

The Company has determined that most of its sales commissions meet the definition of incremental costs of obtaining a contract. Accordingly, the costs associated with those sales commissions will be capitalized and expense recognized as the related goods or services are transferred to the customer. The Company currently recognizes sales commission expenses as they are incurred. Upon adoption of ASC 606, the Company will record an asset in its condensed consolidated balance sheet (as part of the transition adjustment) for the amount of unamortized sales commissions that were incurred in obtaining contracts in prior periods with an offsetting increase to retained earnings. The Company will recognize the capitalized sales commissions as a selling and marketing expense in the Company’s condensed consolidated statement of operations over a period that is consistent with the transfer of the goods and services to which the asset relates.

In February 2016, the FASB issued ASU 2016-02, *Leases*. This standard requires a lessee to record on the balance sheet the assets and liabilities for the rights and obligations created by leases with lease terms of more than 12 months. In addition, this standard requires both lessees and lessors to disclose certain key information about lease transactions. This standard will be effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. The Company will adopt the standard effective January 1, 2019. During the nine months ended September 30, 2017, the Company began its detailed assessment of the impact of ASU 2016-02. While the Company continues to evaluate the impact of the standard on its condensed consolidated financial statements and related disclosures, at this time the Company cannot estimate the quantitative impact of adopting the new standard.

In August 2016, the FASB issued ASU 2016-15, *Statement of Cash Flows – Classification of Certain Cash Receipts and Cash Payments*, an update that addresses how certain cash receipts and cash payments are presented and classified in the statement of cash flows. Among the cash flow matters addressed in the update are payments for costs related to debt prepayments or extinguishments, payments related to settlement of certain types of debt instruments, payments of contingent consideration made

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after a business combination, proceeds from insurance claims and corporate-owned life insurance policies, and distributions received from equity method investees, among others. The standard is effective for fiscal year beginning after December 31, 2017, including interim periods within that fiscal year. Early adoption is permitted, including adoption in an interim period. If an entity early adopts the amendments in an interim period, any adjustments should be reflected as of the beginning of the fiscal year that includes that interim period, and all of the amendments must be adopted together in the same period. The amendments will be applied using a retrospective transition method to each period presented, unless impracticable for specific cash flow matters, in which case the amendments would be applied prospectively as of the earliest date practicable. The Company does not expect the impact of ASU 2016-15 to be material to its consolidated statement of cash flows.

In October 2016, the FASB issued ASU 2016-16, *Intra-Entity Transfers of Assets Other than Inventory*, to simplify the accounting for the income tax consequences of intra-entity transfers of assets other than inventory. Currently, U.S. GAAP prohibits the recognition of current and deferred income taxes for an intra-entity asset transfer until the asset has been sold to an outside party. This prohibition on recognition is an exception to the principle of comprehensive recognition of current and deferred income taxes in U.S. GAAP. The limited amount of authoritative guidance about the exception has led to diversity in practice and is a source of complexity in financial reporting, particularly for an intra-entity transfer of intellectual property. Under the amendments of ASU 2016-16, an entity should recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. Consequently, this amendment eliminates the exception for an intra-entity transfer of an asset other than inventory. The standard is effective for fiscal year beginning after December 15, 2017, including interim reporting periods within that fiscal year. Early adoption is permitted as of the beginning of an annual reporting period for which financial statements have not been issued or made available for issuance. The amendments to this ASU should be applied on a modified retrospective basis through a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. The Company is currently assessing the impact of ASU 2016-16 on its financial position, results of operations, and cash flow.

In January 2017, the FASB issued ASU 2017-04, *Simplifying the Test for Goodwill Impairment*, an update that eliminates Step 2 from the goodwill impairment test. In computing the implied fair value of goodwill under Step 2, an entity had to perform procedures to determine the fair value at the impairment testing date of its assets and liabilities, including unrecognized assets and liabilities. Under the amendments in ASU 2017-04, an entity should perform its annual or interim goodwill test by comparing the fair value of a reporting unit with its carrying amount. An entity should recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value. However, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. Additionally, an entity should consider income tax effects from any tax deductible goodwill on the carrying amount of the reporting unit when measuring the goodwill impairment loss, if applicable. An entity no longer will determine goodwill impairment by calculating the implied fair value of goodwill by assigning the fair value of a reporting unit to all of its assets and liabilities as if that reporting unit had been acquired in a business combination. The standard is effective for annual or interim goodwill impairment tests in fiscal years beginning December 15, 2019. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. The Company is currently assessing the impact of ASU 2017-04 on its annual goodwill impairment test and possible early adoption.

In May 2017, the FASB issued ASU 2017-09, *Scope of Modification Accounting*, an update that provides guidance about which changes to the terms or conditions of a share-based payment award require an entity to apply modification accounting under ASC 718, *Compensation – Stock Compensation*. Under the amendments in ASU 2017-09, an entity should account for the effects of a modification unless all of the following criteria are met: 1) the fair value of the modified award is the same as the fair value of the original award immediately before the original award is modified - if the modification does not affect any of the inputs to the valuation technique that the entity uses to value the award, the entity is not required to estimate the value immediately before and after the modification; 2) the vesting conditions of the modified award are the same as the conditions of the original award immediately before the original award is modified; 3) the classification of the modified award as an equity instrument or a liability instrument is the same as the classification of the original award immediately before the original award is modified. The standard is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2017. Early adoption is permitted, including adoption in any interim period for which financial statements have not yet been issued. The Company has elected to early adopt these amendments prospectively in the second quarter of 2017. The adoption did not have a material effect on the Company's financial position, results of operations, or cash flow as of and for the nine months ended September 30, 2017.

2. Divestiture

Community Financial Services

On March 3, 2016, the Company completed the sale of its Community Financial Services ("CFS") related assets and liabilities, to Fiserv, Inc. ("Fiserv") for \$200.0 million. The sale of CFS, which was not aligned with the Company's long-term strategy, is part of the Company's ongoing efforts to expand as a provider of software products, SaaS and Platform solutions facilitating real-time electronic and eCommerce payments for large financial institutions, intermediaries, retailers, and billers worldwide. The sale included employee agreements and customer contracts as well as technology assets and intellectual property.

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For the nine months ended September 30, 2016, the Company recognized a net after-tax gain of \$93.4 million on the sale of assets to Fiserv. This gain includes final post-closing adjustments pursuant to the definitive transaction agreement of \$0.5 million recognized during the three months ended September 30, 2016.

The Company and Fiserv also entered into a Transition Services Agreement (“TSA”), whereby the Company continues to perform certain functions on Fiserv’s behalf during the migration period. The TSA is meant to reimburse the Company for direct costs incurred in order to provide such functions which are no longer generating revenue for the Company.

3. Debt

As of September 30, 2017, the Company had \$4.0 million, \$399.4 million, and \$300.0 million outstanding under its Revolving Credit Facility, Term Credit Facility and Senior Notes, respectively, with up to \$496.0 million of unused and available borrowings under the Revolving Credit Facility portion of the Credit Agreement, as amended.

Credit Agreement

On February 24, 2017, the Company entered into an amended and restated credit agreement (the “Credit Agreement”), replacing the existing agreement, with a syndicate of financial institutions, as lenders, and Bank of America, N.A. (“BofA”), as Administrative Agent, providing for revolving loans, swingline loans, letters of credit, and a term loan. The Credit Agreement consists of a five-year \$500.0 million senior secured revolving credit facility (the “Revolving Credit Facility”), which includes a sublimit for the issuance of standby letters of credit and a sublimit for swingline loans, and \$415.0 million under the five-year senior secured term loan facility (the “Term Credit Facility” and, together with the Revolving Credit Facility, the “Credit Facility”). The Credit Agreement also allows the Company to request optional incremental term loans and increases in the revolving commitment.

The loans under the Credit Facility may be made to, and the letters of credit under the Revolving Credit Facility may be issued on behalf of the Company. On February 24, 2017, the Company borrowed an aggregate principal amount of \$12.0 million under the Revolving Credit Facility and borrowed \$415.0 million under the Term Credit Facility.

Borrowings under the Credit Facility bear interest at a rate per annum equal to, at the Company’s option, either (a) a base rate determined by reference to the highest of (1) the rate of interest per annum publicly announced by the Administrative Agent as its Prime Rate, (2) the federal funds effective rate plus 1/2 of 1% and (3) a LIBOR rate determined by reference to the costs of funds for U.S. dollar deposits for a one-month interest period adjusted for certain additional costs plus 1% or (b) a LIBOR rate determined by reference to the costs of funds for U.S. dollar deposits for the interest period relevant to such borrowing adjusted for certain additional costs, in each case plus an applicable margin. The applicable margin for borrowings under the Credit Facility is, based on the calculation of the applicable consolidated total leverage ratio, between 0.25% to 1.25% with respect to base rate borrowings and between 1.25% and 2.25% with respect to LIBOR rate borrowings. Interest is due and payable monthly. The interest rate in effect at September 30, 2017 for the Credit Facility was 2.99%.

In addition to paying interest on the outstanding principal under the Credit Facility, the Company is required to pay a commitment fee in respect of the unutilized commitments under the Revolving Credit Facility, payable quarterly in arrears. The Company is also required to pay letter of credit fees on the maximum amount available to be drawn under all outstanding letters of credit in an amount equal to the applicable margin on LIBOR rate borrowings under the Revolving Credit Facility on a per annum basis, payable quarterly in arrears, as well as customary fronting fees for the issuance of letters of credit fees and agency fees.

The Company’s obligations under the Credit Facility and certain hedging arrangements and cash management arrangements entered into with lenders under the Credit Facility (or affiliates thereof) and the obligations of the subsidiary guarantors are secured by first-priority security interests in substantially all assets of the Company and any guarantor, including 100% of the capital stock of ACI Worldwide Corp. and each domestic subsidiary of the Company, each domestic subsidiary of any guarantor, and 65% of the voting capital stock of each foreign subsidiary of the Company that is directly owned by the Company or a guarantor, in each case subject to certain exclusions set forth in the credit documentation governing the Credit Facility.

The Credit Agreement contains a number of covenants that, among other things and subject to certain exceptions, restrict the Company’s ability and, as applicable, the ability of its subsidiaries to: create, incur, assume or suffer to exist any additional indebtedness; create, incur, assume or suffer to exist any liens; enter into agreements and other arrangements that include negative pledge clauses; pay dividends on capital stock or redeem, repurchase or retire capital stock or subordinated indebtedness; create restrictions on the payment of dividends or other distributions by subsidiaries; make investments, loans,

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advances and acquisitions; merge, consolidate or enter into any similar combination or sell assets, including equity interests of the subsidiaries; enter into sale and leaseback transactions; directly or indirectly engage in transactions with affiliates; alter in any material respect the character or conduct of the business; enter into amendments of or waivers under subordinated indebtedness, organizational documents and certain other material agreements; and hold certain assets and incur certain liabilities.

The Credit Agreement also contains certain customary affirmative covenants and events of default. If an event of default, as specified in the Credit Agreement, shall occur and be continuing, the Company may be required to repay all amounts outstanding under the Credit Facility.

Letter of Credit

On February 29, 2016, the Company entered into a standby letter of credit (the "Letter of Credit"), under the terms of the Credit Agreement, for \$25.0 million. On October 26, 2016, the Letter of Credit was renewed at \$7.5 million. On June 15, 2017, the Letter of Credit was renewed at \$5.0 million. The Company cancelled the Letter of Credit on August 24, 2017.

Senior Notes

On August 20, 2013, the Company completed a \$300.0 million offering of Senior Notes at an issue price of 100% of the principal amount in a private placement for resale to qualified institutional buyers. The Senior Notes bear an interest rate of 6.375% per annum, payable semi-annually in arrears on August 15 and February 15 of each year, commencing on February 15, 2014. Interest began accruing on August 20, 2013.

Maturities on long-term debt outstanding at September 30, 2017 are as follows:

Fiscal year ending December 31, (in thousands)	
2017	\$ 5,188
2018	20,750
2019	31,125
2020	331,125
2021	41,500
Thereafter	273,750
Total	<u>\$703,438</u>

The Credit Agreement and Senior Notes also contain certain customary mandatory prepayment provisions. If certain events, as specified in the Credit Agreement or Senior Notes agreement, shall occur, the Company may be required to repay all or a portion of the amounts outstanding under the Credit Facility or Senior Notes.

The Credit Facility will mature on February 24, 2022 and the Senior Notes will mature on August 15, 2020. The Revolving Credit Facility and Senior Notes do not amortize and the Term Credit Facility does amortize, with principal payable in consecutive quarterly installments.

The Credit Agreement and Senior Notes contain certain customary affirmative covenants and negative covenants that limit or restrict, subject to certain exceptions, the incurrence of liens, indebtedness of subsidiaries, mergers, advances, investments, acquisitions, transactions with affiliates, change in nature of business and the sale of the assets. The Company is also required to maintain a consolidated leverage ratio at or below a specified amount and an interest coverage ratio at or above a specified amount. If an event of default, as specified in the Credit Agreement and Senior Notes agreement, shall occur, the Company may be required to repay all amounts outstanding under the Credit Facility and Senior Notes. On June 27, 2017, the Company and the Administrative Agent entered into an amendment to the Credit Agreement. The amendment revised the definition of "Consolidated EBITDA" to exclude the expense from the BHMI judgment and related fees, expenses, and interest thereto, up to \$50 million from the calculation in the period recorded. As of September 30, 2017, and at all times during the period, the Company was in compliance with its debt covenants.

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(in thousands)	As of September 30, 2017	As of December 31, 2016
Term Credit Facility	\$ 399,438	\$ 365,290
Revolving Credit Facility	4,000	88,000
6.375% Senior Notes, due August 2020	300,000	300,000
Debt issuance costs	(11,272)	(9,372)
Total debt	692,166	743,918
Less current portion of Term Credit Facility	20,750	95,293
Less current portion of debt issuance costs	(2,978)	(4,970)
Total long-term debt	\$ 674,394	\$ 653,595

4. Stock-Based Compensation Plans

Employee Stock Purchase Plan

On April 6, 2017, the Board of Directors approved the 2017 Employee Stock Purchase Plan (“2017 ESPP”), which was approved by shareholders at the 2017 Annual Shareholder meeting. The 2017 ESPP provides employees with an opportunity to purchase shares of Common Stock in the Company. The 1999 Employee Stock Purchase Plan terminated upon the August 1, 2017 effective date of the 2017 ESPP. Under the Company’s 2017 ESPP a total of 3,000,000 shares of the Company’s common stock have been reserved for issuance to eligible employees. Participating employees are permitted to designate up to the lesser of \$25,000 or 10% of their annual base compensation for the purchase of common stock under the ESPP. Purchases under the ESPP are made one calendar month after the end of each fiscal quarter. The price for shares of common stock purchased under the ESPP is 85% of the stock’s fair market value on the last business day of the three-month participation period. Shares issued under the ESPP during the nine months ended September 30, 2017 and 2016 totaled 121,765 and 141,484, respectively.

Stock-Based Payments

A summary of stock options issued pursuant to the Company’s stock incentive plans is as follows:

	Number of Shares	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value of In-the-Money Options
Outstanding as of December 31, 2016	6,791,375	\$ 15.54		
Granted	864,800	20.12		
Exercised	(756,140)	13.60		
Forfeited	(207,559)	18.46		
Expired	(17,507)	20.36		
Outstanding as of September 30, 2017	6,674,969	\$ 16.25	6.60	\$ 43,563,796
Exercisable as of September 30, 2017	3,938,286	\$ 14.45	5.31	\$ 32,792,014

The weighted-average grant date fair value of stock options granted during the nine months ended September 30, 2017 and 2016 was \$6.24 and \$5.59, respectively. The Company issued treasury shares for the exercise of stock options during the nine months ended September 30, 2017 and 2016. The total intrinsic value of stock options exercised during the nine months ended September 30, 2017 and 2016 was \$6.6 million and \$6.7 million, respectively.

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For options that do not vest based on the achievement of certain market conditions the grant date fair values were estimated on the date of grant using the Black-Scholes option-pricing model, a pricing model acceptable under U.S. GAAP, with the following weighted-average assumptions:

	<u>Nine Months Ended September 30, 2017</u>	<u>Nine Months Ended September 30, 2016</u>
Expected life (years)	5.6	5.9
Interest rate	1.9%	1.2%
Volatility	29.4%	29.7%
Dividend yield	—	—

Expected volatilities are based on the Company's historical common stock volatility derived from historical stock price data for historical periods commensurate with the options' expected life. The expected life is the average number of years that the Company estimated that the options will be outstanding, based primarily on historical employee option exercise behavior. The risk-free interest rate is based on the implied yield currently available on United States Treasury zero coupon issues with a term equal to the expected term at the date of grant of the options. The expected dividend yield is zero as the Company has historically paid no dividends and does not anticipate dividends to be paid in the future.

During the nine months ended September 30, 2016, the Company granted stock options with three tranches at a grant date fair value of \$7.46, \$7.06, and \$6.50, respectively, per share. These options vest, if at all, based upon (i) tranche one - any time after the third anniversary date if the stock has traded at 133% of the exercise price for at least 20 consecutive trading days, (ii) tranche two - any time after the fourth anniversary date if the stock has traded at 167% of the exercise price for at least 20 consecutive trading days, and (iii) tranche three - any time after the fifth anniversary date if the stock has traded at 200% of the exercise price for at least 20 consecutive trading days. The employees must also remain employed with the Company as of the anniversary date in order for the options to vest. The exercise price of the stock options is the closing market price on the date the awards were granted. In order to determine the grant date fair value of the stock options, a Monte Carlo simulation model was used.

With respect to options granted that vest based on the achievement of certain market conditions, the grant date fair value of such options was estimated using the following weighted-average assumptions:

	<u>Nine Months Ended September 30, 2016</u>
Expected life (years)	7.5
Interest rate	1.6%
Volatility	41.6%
Dividend yield	—

A summary of nonvested long-term incentive program performance share awards ("LTIP Performance Shares") outstanding as of September 30, 2017 and changes during the period are as follows:

<u>Nonvested LTIP Performance Shares</u>	<u>Number of Shares at Expected Attainment</u>	<u>Weighted- Average Grant Date Fair Value</u>
Nonvested as of December 31, 2016	1,738,056	\$ 18.45
Granted	553,549	20.12
Forfeited	(150,241)	18.77
Nonvested as of September 30, 2017	<u>2,141,364</u>	<u>\$ 18.86</u>

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A summary of nonvested restricted share awards (“RSAs”) as of September 30, 2017 and changes during the period are as follows:

<u>Nonvested Restricted Share Awards</u>	<u>Number of Restricted Share Awards</u>	<u>Weighted-Average Grant Date Fair Value</u>
Nonvested as of December 31, 2016	172,108	\$ 20.62
Granted	560,174	20.61
Vested	(120,869)	20.72
Forfeited	(79,665)	20.47
Nonvested as of September 30, 2017	<u>531,748</u>	<u>\$ 20.60</u>

During the nine months ended September 30, 2017, a total of 120,869 shares of the RSAs vested. The Company withheld 3,311 of those shares to pay the employees’ portion of the minimum payroll withholding taxes.

A summary of nonvested Performance-Based Restricted Share Awards (“PBRsAs”) as of September 30, 2017 and changes during the period are as follows:

<u>Nonvested Performance-Based Restricted Share Awards</u>	<u>Number of Performance-Based Restricted Share Awards</u>	<u>Weighted-Average Grant Date Fair Value</u>
Nonvested as of December 31, 2016	683,667	\$ 23.25
Vested	(484,835)	22.82
Forfeited	(11,604)	(23.84)
Change in attainment for 2015 grants	(13,592)	23.25
Nonvested as of September 30, 2017	<u>173,636</u>	<u>\$ 24.41</u>

During the nine months ended September 30, 2017, a total of 484,835 shares of the PBRsAs vested. The Company withheld 178,351 of those shares to pay the employees’ portion of the minimum payroll withholding taxes.

Through December 31, 2016, the Company had accrued the compensation costs assuming an attainment level of 100% for the PBRSA grants vesting based upon forecasted 2016 earnings before income taxes, interest, depreciation and amortization (“EBITDA”). During the nine months ended September 30, 2017, the Company changed the expected attainment on the PBRsAs vesting in June 2017 and June 2018 from 100% to 98% based upon actual results of the related performance target.

A summary of nonvested Retention Restricted Share Awards (“Retention RSAs”) as of September 30, 2017 and changes during the period are as follows:

<u>Nonvested Retention Restricted Share Awards</u>	<u>Number of Retention Restricted Share Awards</u>	<u>Weighted-Average Grant Date Fair Value</u>
Nonvested as of December 31, 2016	205,540	\$ 17.89
Vested	(205,540)	17.89
Nonvested as of September 30, 2017	<u>—</u>	<u>\$ —</u>

During the nine months ended September 30, 2017, a total of 205,540 shares of the Retention RSAs vested. The Company withheld 75,198 of those shares to pay the employees’ portion of the minimum payroll withholding taxes.

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A summary of nonvested PAY.ON RSAs as of September 30, 2017 and changes during the period are as follows:

<u>Nonvested PAY.ON RSAs</u>	<u>Number of PAY.ON RSAs</u>	<u>Grant Date Fair Value</u>
Nonvested at December 31, 2016	238,376	\$ 23.60
Forfeited	(119,188)	23.60
Vested	(59,594)	23.60
Nonvested at September 30, 2017	<u>59,594</u>	<u>\$ 23.60</u>

During the nine months ended September 30, 2017, the Company granted total shareholder return (“TSR”) awards, pursuant to the 2016 Equity and Performance Incentive Plan, to certain executive officers. TSRs are performance shares that are earned, if at all, based upon the Company’s total shareholder return as compared to a group of peer companies over a three-year performance period. The award payout can range from 0% to 200%. In order to determine the grant date fair value of the TSRs, a Monte Carlo simulation model is used. The Company recognizes compensation expense for TSRs over a three-year performance period based on the grant date fair value.

The grant date fair value of the TSRs was estimated using the following weighted-average assumptions:

	<u>Nine Months Ended September 30, 2017</u>
Expected life (years)	2.9
Interest rate	1.5%
Volatility	26.5%
Dividend Yield	—

A summary of nonvested TSRs outstanding as of September 30, 2017 and changes during the period are as follows:

<u>Nonvested Total Shareholder Return Awards</u>	<u>Number of Shares at Expected Attainment</u>	<u>Weighted- Average Grant Date Fair Value</u>
Nonvested as of December 31, 2016	—	\$ —
Granted	233,077	24.37
Forfeited	(8,624)	24.37
Nonvested as of September 30, 2017	<u>224,453</u>	<u>\$ 24.37</u>

As of September 30, 2017, there were unrecognized compensation costs of \$10.4 million related to nonvested stock options, \$8.6 million related to the nonvested RSAs, \$18.0 million related to the LTIP performance shares, \$1.0 million related to nonvested PBRsAs, and \$4.4 million related to the TSRs, which the Company expects to recognize over weighted-average periods of 1.6 years, 2.1 years, 1.9 years, 0.7 years, and 2.4 years, respectively.

The Company recorded stock-based compensation expenses recognized under ASC 718 for the three months ended September 30, 2017 and 2016 related to stock options, LTIP performance shares, RSAs, PBRsAs, Retention RSAs, TSRs, and the ESPP of \$8.1 million and \$10.8 million, respectively, with corresponding tax benefits of \$2.7 million and \$4.1 million, respectively. The Company recorded stock-based compensation expenses recognized under ASC 718 for the nine months ended September 30, 2017 and 2016 related to stock options, LTIP performance shares, RSAs, PBRsAs, Retention RSAs, TSRs, and the ESPP of \$22.7 million and \$33.8 million, respectively, with corresponding tax benefits of \$7.7 million and \$12.7 million, respectively.

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The Company recognizes compensation costs for stock option awards that vest with the passage of time with only service conditions on a straight-line basis over the requisite service period. The Company recognizes compensation costs for stock option awards that vest with service and market-based conditions on a straight-line basis over the longer of the requisite service period or the estimated period to meet the defined market-based condition.

5. Software and Other Intangible Assets

At September 30, 2017, software net book value totaling \$164.5 million, net of \$221.0 million of accumulated amortization, includes the net book value of software marketed for external sale of \$44.1 million. The remaining software net book value of \$120.4 million is comprised of various software that has been acquired or developed for internal use.

At December 31, 2016, software net book value totaled \$185.5 million, net of \$195.0 million of accumulated amortization. Included in this amount is software marketed for external sale of \$52.3 million. The remaining software net book value of \$133.2 million is comprised of various software that has been acquired or developed for internal use.

Quarterly amortization of software marketed for external sale is computed using the greater of the ratio of current revenues to total estimated revenues expected to be derived from the software or the straight-line method over an estimated useful life of three to ten years. Software for resale amortization expense recorded in the three months ended September 30, 2017 and 2016 totaled \$3.1 million and \$2.9 million, respectively. Software for resale amortization expense recorded in the nine months ended September 30, 2017 and 2016 totaled \$9.6 million and \$9.2 million, respectively. These software amortization expense amounts are reflected in cost of revenue in the condensed consolidated statements of operations.

Quarterly amortization of software for internal use is computed using the straight-line method over an estimated useful life of three to ten years. Software for internal use includes software acquired through acquisitions that is used to provide certain of our SaaS and Platform offerings. Amortization of software for internal use of \$11.5 million and \$11.3 million for the three months ended September 30, 2017 and 2016, respectively. Amortization of software for internal use of \$34.1 million and \$34.2 million for the nine months ended September 30, 2017 and 2016, respectively. These software amortization expense amounts are included in depreciation and amortization in the condensed consolidated statements of operations.

The carrying amount and accumulated amortization of the Company's other intangible assets that were subject to amortization at each balance sheet date are as follows:

	September 30, 2017			December 31, 2016		
	Gross Carrying Amount	Accumulated Amortization	Net Balance	Gross Carrying Amount	Accumulated Amortization	Net Balance
Customer relationships	\$303,708	\$ (111,783)	\$ 191,925	\$295,730	\$ (96,356)	\$ 199,374
Trademarks and tradenames	16,579	(13,406)	3,173	16,019	(11,759)	4,260
	<u>\$320,287</u>	<u>\$ (125,189)</u>	<u>\$ 195,098</u>	<u>\$311,749</u>	<u>\$ (108,115)</u>	<u>\$ 203,634</u>

Other intangible assets amortization expense for the three months ended September 30, 2017 and 2016 totaled \$4.9 million and \$5.3 million, respectively. Other intangible assets amortization expense for the nine months ended September 30, 2017 and 2016 totaled \$14.5 million and \$16.4 million, respectively. These intangible amortization expense amounts are included in depreciation and amortization in the condensed consolidated statements of operations.

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Based on capitalized software and other intangible assets at September 30, 2017, estimated amortization expense for future fiscal years is as follows:

<u>Fiscal Year Ending December 31,</u> <u>(in thousands)</u>	<u>Software</u> <u>Amortization</u>	<u>Other</u> <u>Intangible</u> <u>Assets</u> <u>Amortization</u>
Remainder of 2017	\$ 14,256	\$ 4,892
2018	47,196	19,061
2019	39,324	18,505
2020	29,967	17,609
2021	19,542	17,103
2022	8,394	16,942
Thereafter	5,791	100,986
Total	<u>\$ 164,470</u>	<u>\$ 195,098</u>

6. Corporate Restructuring and Other Organizational Changes

During the nine months ended September 30, 2017, the Company ceased use of its leased facility in Edison, NJ, which resulted in additional expense of \$0.4 million that was recorded in general and administrative expenses in the accompanying condensed consolidated statements of operations.

The components of corporate restructuring and other reorganization activities are included in the following table:

<u>(in thousands)</u>	<u>Facility</u> <u>Closures</u>
Balance, December 31, 2016	\$ 4,559
Restructuring charges incurred	363
Amounts paid during the period	(956)
Foreign currency translation	199
Balance, September 30, 2017	<u>\$ 4,165</u>

Of the \$4.2 million facility closure liability, \$1.2 million and \$3.0 million is recorded in other current and noncurrent liabilities, respectively, in the accompanying condensed consolidated balance sheet at September 30, 2017.

7. Common Stock and Treasury Stock

As of September 12, 2012, the Company's Board of Directors ("the Board") had approved a stock repurchase program authorizing the Company, from time to time as market and business conditions warrant, to acquire up to \$262.1 million of its common stock. On September 13, 2012, the Board approved the repurchase of up to 7,500,000 shares of the Company's common stock, or up to \$113.0 million, in place of the remaining repurchase amounts previously authorized. In July 2013 and again in February 2014, the Board approved an additional \$100.0 million for the stock repurchase program for a total of an additional \$200.0 million.

The Company did not repurchase any shares under the program during the nine months ended September 30, 2017. Under the program to date, the Company has repurchased 40,129,393 shares for approximately \$455.9 million. The maximum remaining authorized for purchase under the stock repurchase program was approximately \$78.2 million as of September 30, 2017.

8. Earnings (Loss) Per Share

Basic earnings (loss) per share is computed on the basis of weighted average outstanding common shares. Diluted earnings (loss) per share is computed on the basis of basic weighted average outstanding common shares adjusted for the dilutive effect of stock options and other outstanding dilutive securities.

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The following table reconciles the average share amounts used to compute both basic and diluted earnings (loss) per share (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30,	2016	September 30,	2016
Weighted average shares outstanding:				
Basic weighted average shares outstanding	118,254	116,118	117,096	117,606
Add: Dilutive effect of stock options	1,489	—	—	1,365
Diluted weighted average shares outstanding	<u>119,743</u>	<u>116,118</u>	<u>117,096</u>	<u>118,971</u>

The diluted earnings (loss) per share computation excludes 3.3 million and 10.1 million options to purchase shares, contingently issuable shares and restricted share awards during the three and nine months ended September 30, 2017, respectively, as their effect would be anti-dilutive. The diluted earnings (loss) per share computation excludes 9.9 million and 6.1 million options to purchase shares, restricted share awards, and contingently issuable shares during the three and nine months ended September 30, 2016, respectively, as their effect would be anti-dilutive.

Common stock outstanding as of September 30, 2017 and December 31, 2016 was 118,293,967 and 117,336,797, respectively.

9. Other

Other is comprised of foreign currency transaction gains (losses) of \$(1.1) million and \$2.8 million for the three months ended September 30, 2017 and 2016, respectively. Other is comprised of foreign currency transaction gains (losses) of \$(2.2) million and \$4.5 million for the nine months ended September 30, 2017 and 2016, respectively.

10. Segment Information

In January 2017, the Company announced a change in organizational structure to align with its strategic direction. As a result, beginning January 1, 2017, the Company reports financial performance based on its new segments, ACI On Premise and ACI On Demand, and analyzes operating income as a measure of segment profitability.

The Company's chief operating decision maker ("CODM"), which is also our Chief Executive Officer, together with other senior management personnel, focus their review of consolidated financial information and the allocation of resources based upon the operating results, including revenues and operating income, for the segments ACI On Premise and ACI On Demand, separate from the Corporate operations.

ACI On Premise serves customers who manage their software on site. These on-premise customers use the Company's software to develop sophisticated, custom solutions, which are often part of a larger system located and managed at the customer site. These customers require a level of control, customization, and flexibility that ACI On Premise solutions can offer, and they have the resources and expertise to take a lead role in managing these solutions.

ACI On Demand serves the needs of retail and financial institutions who use payments to facilitate their core business. The Company sees an increasing number of customers opting for software as a service and platform as a service offerings, which offer reduced complexity and cost as well as the ability to rapidly implement and scale.

Revenue is attributed to the reportable segments based upon the product sold and mechanism for delivery to the customer. Expenses are attributed to the reportable segments in one of three methods, (1) direct costs of the segment, (2) labor costs that can be attributed based upon time tracking for individual products, or (3) costs that are allocated. Allocated costs are generally marketing and sales related activities as well as information technology and facilities related expense for which multiple segments benefit. The Company also allocates certain depreciation costs to the segments.

Corporate and other consists of the corporate overhead costs that are not allocated to reportable segments. These overhead costs relate to human resources, finance, legal, accounting, merger and acquisition activity, amortization of acquisition-related intangibles, and other costs that are not considered when management evaluates segment performance. For the nine months ended September 30, 2017, Corporate and other includes \$46.7 million of general and administrative expense for the legal judgment discussed in Note 12. For the nine months ended September 30, 2016, Corporate and other also includes revenue and operating income from the operations and sale of CFS related assets and liabilities of \$15.4 million and \$151.7 million, respectively.

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The following is selected financial data for the Company's reportable segments for the periods indicated (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Revenues:				
ACI On Premise	\$ 126,006	\$ 120,618	\$ 385,108	\$ 349,904
ACI On Demand	99,729	96,357	312,688	297,651
Corporate and other	—	—	—	15,416
	<u>\$ 225,735</u>	<u>\$ 216,975</u>	<u>\$ 697,796</u>	<u>\$ 662,971</u>
Depreciation and amortization expense:				
ACI On Premise	\$ 3,321	\$ 3,616	\$ 9,915	\$ 10,961
ACI On Demand	8,576	7,308	25,973	21,665
Corporate and other	13,656	14,059	40,884	43,212
	<u>\$ 25,553</u>	<u>\$ 24,983</u>	<u>\$ 76,772</u>	<u>\$ 75,838</u>
Stock-based compensation expense:				
ACI On Premise	\$ 1,869	\$ 1,770	\$ 4,984	\$ 5,222
ACI On Demand	1,865	1,766	4,973	5,209
Corporate and other	4,350	7,258	12,767	23,381
	<u>\$ 8,084</u>	<u>\$ 10,794</u>	<u>\$ 22,724</u>	<u>\$ 33,812</u>
Operating income (loss):				
ACI On Premise	\$ 59,947	\$ 47,523	\$ 181,161	\$ 120,718
ACI On Demand	(11,683)	(8,089)	(39,740)	(28,653)
Corporate and other	(36,841)	(48,787)	(164,818)	8,722
	<u>\$ 11,423</u>	<u>\$ (9,353)</u>	<u>\$ (23,397)</u>	<u>\$ 100,787</u>

Assets are not allocated to segments and the Company's CODM does not evaluate operating segments using discrete asset information.

The following is selected financial data for the Company's geographical areas for the periods indicated (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Revenues:				
United States	\$120,859	\$117,407	\$386,436	\$376,322
Other	104,876	99,568	311,360	286,649
	<u>\$225,735</u>	<u>\$216,975</u>	<u>\$697,796</u>	<u>\$662,971</u>
Long lived assets				
United States		September 30, 2017	December 31, 2016	
		\$ 769,054	\$ 752,442	
Other		617,274	664,383	
		<u>\$ 1,386,328</u>	<u>\$ 1,416,825</u>	

No single customer accounted for more than 10% of the Company's consolidated revenues during the three and nine months ended September 30, 2017 and 2016. No other country outside the United States accounted for more than 10% of the Company's consolidated revenues during the three and nine months ended September 30, 2017 and 2016.

11. Income Taxes

The Company reported a tax benefit for the three months ended September 30, 2017 while reporting a pretax profit for the same period. The resulting effective tax rate is a negative 193%. The effective tax rate for the nine months ended September 30, 2017 was 49%. The earnings of the Company's foreign entities for the three and nine months ended September 30, 2017 were \$15.2 million and \$40.6 million. The tax rates in the foreign jurisdictions in which the Company operates are less than the domestic tax rate. The effective tax rates for the three and nine months ended September 30, 2017 were impacted by profits and losses in certain foreign jurisdictions taxed at lower rates and domestic losses taxed at higher rates.

The effective tax rates for the three and nine months ended September 30, 2016 were 40% and 17%, respectively. The earnings of the Company's foreign entities for the three and nine months ended September 30, 2016 were \$16.4 million and \$44.0 million, respectively. The tax rates in the foreign jurisdictions in which the Company operates are less than the domestic tax rate. The effective tax rate for the three and nine months ended September 30, 2016 was reduced by foreign profits taxed at lower rates. The effective tax rate for the three months ended September 30, 2016 was increased by the establishment of a \$4.7 million valuation allowance against foreign tax credits existing in the US that were expected to expire before they can be utilized. The effective tax rate for the nine months ended September 30, 2016 was also reduced by a net release of \$5.4 million valuation allowance previously established against foreign tax credits that were expected to be fully utilized as a result of the sale of the CFS assets and liabilities.

The Company's effective tax rate could fluctuate significantly on a quarterly basis and could be negatively affected to the extent earnings are lower in the countries in which it operates that have a lower statutory rate or higher in the countries in which it operates that have a higher statutory rate or to the extent it has losses sustained in countries where the future utilization of losses are uncertain. The Company's effective tax rate could also fluctuate due to changes in the valuation of its deferred tax assets or liabilities, or by changes in tax laws, regulations, accounting principles, or interpretations thereof. In addition, the Company is occasionally subject to examination of its income tax returns by tax authorities in the jurisdictions it operates. The Company regularly assesses the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of its provision for income taxes.

The amount of unrecognized tax benefits for uncertain tax positions was \$25.6 million as of September 30, 2017 and \$24.3 million as of December 31, 2016, excluding related liabilities for interest and penalties of \$1.5 million and \$1.9 million as of September 30, 2017 and December 31, 2016, respectively.

The Company believes it is reasonably possible that the total amount of unrecognized tax benefits will decrease within the next 12 months by approximately \$1.4 million, due to the settlement of various audits and the expiration of statutes of limitation.

12. Commitments and Contingencies

Legal Proceedings

On September 23, 2015, a jury verdict was returned against ACI Worldwide Corp. ("ACI Corp."), a subsidiary of the Company, for \$43.8 million in connection with counterclaims brought by Baldwin Hackett & Meeks, Inc. ("BHMI") in the District Court of Douglas County, Nebraska. On September 21, 2012, ACI Corp. had sued BHMI for misappropriation of ACI Corp.'s trade secrets. The jury found that ACI Corp. had not met its burden of proof regarding these claims. On March 6, 2013, BHMI asserted counterclaims for breach of a non-disclosure agreement, tortious interference and violation of the Nebraska anti-monopoly statute, all of which were alleged to arise out of ACI Corp.'s filing of its lawsuit. On September 23, 2015, the jury found for BHMI on its counterclaims and awarded \$43.8 million in damages. On January 5, 2016, the court entered a judgment against ACI Corp. for \$43.8 million for damages and \$2.7 million for attorney fees and costs. ACI Corp. disagreed with the verdicts and judgment, and after the trial court denied ACI Corp.'s post-judgment motions, on March 31, 2016, ACI Corp. perfected an appeal of the dismissal of its claims against BHMI and the judgment in favor of BHMI on its counterclaims, and oral arguments were held before the Nebraska Supreme Court on March 3, 2017. On June 9, 2017, the Nebraska Supreme Court affirmed the District Court judgment. The Company recorded expense of \$48.1 million during the nine months ended September 30, 2017, of which \$46.7 million is included in general and administrative expense and \$1.4 million in interest expense in the accompanying condensed consolidated statement of operations. The Company paid the judgment, including interest, during the three months ended September 30, 2017.

[Table of Contents](#)*Indemnities*

Under certain customer contracts, the Company indemnifies customers for certain matters including third party claims of intellectual property infringement relating to the use of our products. Our maximum potential exposure under indemnification arrangements can range from a specified dollar amount to an unlimited amount, depending on the nature of the transactions and the agreements. The Company has recorded an accrual for estimated losses for demands for indemnification that have been tendered by certain customers. The Company does not have any reason to believe that we will be required to make any material payments under these indemnity provisions in excess of the balance accrued at September 30, 2017.

13. Accumulated Other Comprehensive Loss

Activity within accumulated other comprehensive loss for the nine months ended September 30, 2017, which consists of foreign currency translation adjustments, were as follows:

	Accumulated other comprehensive loss
Balance at December 31, 2016	\$ (94,100)
Other comprehensive income	14,526
Balance at September 30, 2017	<u>\$ (79,574)</u>
Balance at December 31, 2015	\$ (71,576)
Other comprehensive loss	(4,887)
Balance at September 30, 2016	<u>\$ (76,463)</u>

Item 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Forward-Looking Statements

This report contains forward-looking statements based on current expectations that involve a number of risks and uncertainties. Generally, forward-looking statements do not relate strictly to historical or current facts and may include words or phrases such as “believes,” “will,” “expects,” “anticipates,” “intends,” and words and phrases of similar impact. The forward-looking statements are made pursuant to safe harbor provisions of the Private Securities Litigation Reform Act of 1995, as amended.

Forward-looking statements in this report include, but are not limited to, statements regarding future operations, business strategy, business environment, key trends, and, in each case, statements related to expected financial and other benefits. Many of these factors will be important in determining our actual future results. Any or all of the forward-looking statements in this report may turn out to be incorrect. They may be based on inaccurate assumptions or may not account for known or unknown risks and uncertainties. Consequently, no forward-looking statement can be guaranteed. Actual future results may vary materially from those expressed or implied in any forward-looking statements, and our business, financial condition and results of operations could be materially and adversely affected. In addition, we disclaim any obligation to update any forward-looking statements after the date of this report, except as required by law.

All of the forward-looking statements in this report are expressly qualified by the risk factors discussed in our filings with the Securities and Exchange Commission (“SEC”). Such factors include, but are not limited to, risks related to:

- increased competition;
- the performance of our strategic products, Universal Payments solutions;
- demand for our products;
- consolidations and failures in the financial services industry;
- customer reluctance to switch to a new vendor;
- the migration, or failure to migrate, customers to our next generation products;
- the migration, or failure to migrate, customers to SaaS and Platform software solutions;
- failure to obtain renewals of customer contracts or to obtain such renewals on favorable terms;
- delay or cancellation of customer projects or inaccurate project completion estimates;
- the complexity of our products and services and the risk that they may contain hidden defects;
- compliance of our products with applicable legislation, governmental regulations, and industry standards;
- failing to comply with money transmitter rules and regulations;
- our compliance with privacy regulations;
- being subject to security breaches or viruses;
- the protection of our intellectual property;
- increasing intellectual property rights litigation;
- certain payment funding methods expose us to the credit and/or operating risk of our clients;
- business interruptions or failure of our information technology and communication systems;
- our offshore software development activities;
- operating internationally;
- global economic conditions impact on-demand for our products and services;
- volatility and disruption of the capital and credit markets and adverse changes in the global economy;
- potential future litigation;
- our sale of Community Financial Services (“CFS”) assets and liabilities to Fiserv, Inc. (“Fiserv”), including potential claims arising under the transaction agreement, the transition services agreement or with respect to retained liabilities;
- future acquisitions, strategic partnerships, and investments;

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- impairment of our goodwill or intangible assets;
- restrictions and other financial covenants in our credit facility;
- difficulty meeting our debt service requirements;
- the accuracy of our backlog estimates;
- exposure to unknown tax liabilities;
- the cyclical nature of our revenue and earnings and the accuracy of forecasts due to the concentration of revenue generating activity during the third and fourth quarter of our fiscal year and final weeks of each quarter; and
- volatility in our stock price.

The cautionary statements in this report expressly qualify all of our forward-looking statements.

The following discussion should be read together with our financial statements and related notes contained in this report and with the financial statements and related notes and Management's Discussion & Analysis in our Annual Report on Form 10-K for the fiscal year ended December 31, 2016, filed March 1, 2017. Results for the three and nine months ended September 30, 2017, are not necessarily indicative of results that may be attained in the future.

Overview

ACI Worldwide, the Universal Payments ("UP") company, powers electronic payments for more than 5,100 organizations around the world. More than 1,000 of the largest financial institutions and intermediaries, as well as thousands of global merchants, rely on ACI to execute \$14 trillion each day in payments and securities. In addition, thousands of organizations utilize our electronic bill presentment and payment services. Through our comprehensive suite of software as a service ("SaaS") and platform as a service ("Platform") solutions, we deliver real-time, immediate payments capabilities, and enable a complete omni-channel payments experience.

Our products are sold and supported through distribution networks covering three geographic regions – the Americas, EMEA, and Asia/Pacific. Each distribution network has its own globally coordinated sales force and supplements its sales force with independent reseller and/or distributor networks. These products and solutions are used globally by financial institutions, retailers and billers and intermediaries, such as third-party electronic payment processors, payment associations, switch interchanges and a wide range of transaction-generating endpoints, including ATMs, retail point-of-sale ("POS") terminals, bank branches, mobile phones, tablets, corporations, and Internet commerce sites. Accordingly, our business and operating results are influenced by trends such as information technology spending levels, the growth rate of the electronic payments industry, mandated regulatory changes, and changes in the number and type of customers in the financial services industry. Our products are marketed under the ACI Worldwide, ACI Universal Payment, and ACI UP brands.

We derive a majority of our revenues from domestic operations and believe we have large opportunities for growth in international markets as well as continued expansion domestically in the United States. Refining our global infrastructure is a critical component of driving our growth. We have launched a globalization strategy which includes elements intended to streamline our supply chain and maximize expertise in several geographic locations to support a growing international customer base and competitive needs. We utilize our Irish subsidiaries to manage certain of our intellectual property rights and to oversee and manage certain international product development and commercialization efforts. We recently increased our SaaS and Platform capabilities with a new data center in Ireland allowing our SaaS and Platform solutions to be more-broadly offered in the European market. We also continue to grow centers of expertise in Timisoara, Romania and Pune and Bangalore in India, as well as key operational centers such as Cape Town, South Africa and in multiple locations in the United States.

Key trends that currently impact our strategies and operations include:

Increasing electronic payment transaction volumes. Electronic payment volumes continue to increase around the world, taking market share from traditional cash and check transactions. The Boston Consulting Group predicts that electronic payment transactions will grow in volume at an annual rate of 6.7%, from 481 billion in 2016 to 624.6 billion in 2020, with varying growth rates based on the type of payment and part of the world. We leverage the growth in transaction volumes through the licensing of new systems to customers whose older systems cannot handle increased volume and through the licensing of capacity upgrades to existing customers.

Adoption of real-time payments. Customer expectations, from both consumers and corporate, are driving the payments world to more real-time delivery. In the U.K., payments sent through the traditional ACH multi-day batch service can now be sent through the Faster Payments service giving almost immediate access to the funds, and this is being considered and

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implemented in several countries including Australia and the United States. In the U.S. market, NACHA implemented phase 2 of Same Day ACH in September 2017. Corporate customers expect real-time information on the status of their payments instead of waiting for an end-of-day report. Regulators expect banks to be monitoring key measures like liquidity in real time. ACI's focus has always been on the real-time execution of transactions and delivery of information through real-time tools, such as dashboards, so our experience will be valuable in addressing this trend.

Increasing competition. The electronic payments market is highly competitive and subject to rapid change. Our competition comes from in-house information technology departments, third-party electronic payment processors, and third-party software companies located both within and outside of the United States. Many of these companies are significantly larger than us and have significantly greater financial, technical, and marketing resources. As electronic payment transaction volumes increase, third-party processors tend to provide competition to our solutions, particularly among customers that do not seek to differentiate their electronic payment offerings or are eliminating banks from the payments service, reducing the need for our solutions. As consolidation in the financial services industry continues, we anticipate that competition for those customers will intensify.

Adoption of cloud technology. In an effort to leverage lower-cost computing technologies, some financial institutions, merchants, and electronic payment processors are seeking to transition their systems to make use of cloud technology. Our investments provide us the grounding to deliver cloud capabilities in the future. Market sizing data from Ovum indicates that spend on SaaS and Platform payment systems is growing faster than spend on installed applications.

Electronic payments fraud and compliance. As electronic payment transaction volumes increase, organized criminal organizations continue to find ways to commit a growing volume of fraudulent transactions using a wide range of techniques. Financial institutions, merchants and electronic payment processors continue to seek ways to leverage new technologies to identify and prevent fraudulent transactions and other attacks such as denial of service attacks. Due to concerns with international terrorism and money laundering, financial institutions in particular are being faced with increasing scrutiny and regulatory pressures. We continue to see opportunity to offer our fraud detection solutions to help customers manage the growing levels of electronic payments fraud and compliance activity.

Adoption of smartcard technology. In many markets, card issuers are being required to issue new cards with embedded chip technology, with the liability shift going into effect in 2015 in the United States. Chip-based cards are more secure, harder to copy, and offer the opportunity for multiple functions on one card (e.g., debit, credit, electronic purse, identification, health records, etc.). This results in greater card-not-present fraud (e.g., fraud at eCommerce sites).

Single Euro Payments Area ("SEPA"). The SEPA, primarily focused on the European economic community and the U.K., is designed to facilitate lower costs for cross-border payments and reduce timeframes for settling electronic payment transactions. Recent moves to set an end date for the transition to SEPA payment mechanisms will drive more volume to these systems with the potential to cause banks to review the capabilities of the systems supporting these payments. Our retail and transaction banking solutions facilitate key functions that help financial institutions address these mandated regulations.

European Payment Service Directive ("PSD2"). PSD2, which was ratified by the European Parliament in 2015, will force member states to implement new payments regulation before 2017. The XS2A provision effectively creates a new market opportunity where banks in European Union member countries must provide open API standards to customer data, thus allowing authorized third-party providers to enter the market.

Financial institution consolidation. Consolidation continues on a national and international basis, as financial institutions seek to add market share and increase overall efficiency. Such consolidations have increased, and may continue to increase, in their number, size, and market impact as a result of recent economic conditions affecting the banking and financial industries. There are several potential negative effects of increased consolidation activity. Continuing consolidation of financial institutions may result in a smaller number of existing and potential customers for our products and services. Consolidation of two of our customers could result in reduced revenues if the combined entity were to negotiate greater volume discounts or discontinue use of certain of our products. Additionally, if a non-customer and a customer combine and the combined entity decides to forego future use of our products, our revenue would decline. Conversely, we could benefit from the combination of a non-customer and a customer when the combined entity continues use of our products and, as a larger combined entity, increases its demand for our products and services. We tend to focus on larger financial institutions as customers, often resulting in our solutions being the solutions that survive in the consolidated entity.

Global vendor sourcing. Global and regional financial institutions, merchants and processors are aiming to reduce the costs in supplier management by picking suppliers who can service them across all their geographies instead of allowing each country operation to choose suppliers independently. Our global footprint from both a customer and a delivery perspective enable us to be successful in this global sourced market. However, projects in these environments tend to be more complex and therefore of higher risk.

Electronic payments convergence. As electronic payment volumes grow and pressures to lower overall cost per transaction increase, financial institutions are seeking methods to consolidate their payments processing across the enterprise. We believe that the strategy of using service-oriented architectures to allow for re-use of common electronic payment functions, such as authentication, authorization, routing and settlement, will become more common. Using these techniques, financial institutions will be able to reduce costs, increase overall service levels, enable one-to-one marketing in multiple bank channels, leverage volumes for improved pricing and liquidity, and manage enterprise risk. Our product strategy is, in part, focused on this trend, by creating integrated payment functions that can be re-used by multiple bank channels, across both the consumer and wholesale bank. While this trend presents an opportunity for us, it may also expand the competition from third-party electronic payment technology and service providers specializing in other forms of electronic payments. Many of these providers are larger than us and have significantly greater financial, technical and marketing resources.

Mobile banking and payments. There is a growing demand for the ability to carry out banking services or make payments using a mobile phone. Recent statistics from Javelin Strategy & Research, a subsidiary of Greenwich Associates, show that 50% of adults in the United States use their phone for mobile banking. The use of phones for mobile banking is expected to grow to 81% in 2020. Our customers have been making use of existing products to deploy mobile banking, mobile payments, and mobile commerce solutions for their customers in many countries. In addition, ACI has invested in mobile products of our own and via partnerships to support mobile functionality in the marketplace.

Electronic Bill Payment and Presentment (EBPP). EBPP encompasses all facets of bill payment, including biller direct, where customers initiate payments on biller websites, the consolidator model, where customers initiate payments on a financial institution's website, and walk-in bill payment, as one might find in a convenience store. The EBPP market continues to grow as consumers move away from traditional forms of paper-based payments. According to Aite Group, the number of households paying at biller websites is 96 million or 77% of U.S. households. The biller-direct segment is seeing strong growth as billers migrate these services to outsourcers, such as ACI, from legacy systems built in house. We believe that EBPP remains ripe for outsourcing, as a significant amount of biller-direct transactions are still processed in house. As billers seek to manage costs and improve efficiency, we believe that they will continue to look to third-party EBPP vendors that can offer a complete solution for their billing needs.

The banking, financial services, and payment industries have come under increased scrutiny from federal, state, and foreign lawmakers and regulators in response to the crises in the financial markets and the global recession. In particular, the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Dodd-Frank Act"), which was signed into law July 21, 2010, represents a comprehensive overhaul of the U.S. financial services industry and requires the implementation of many regulations that have a direct impact on our customers and potential customers. This is not limited to the United States. In April 2014, the European Commission voted to adopt a number of amendments with regards to the Payment Services Directive, placing further pressure on industry incumbents.

These regulatory changes may create both opportunities and challenges for us. The application of the new regulations on our customers could create an opportunity for us to market our product capabilities and the flexibility of our solutions to assist our customers in addressing these regulations. At the same time, these regulatory changes may have an adverse impact on our operations and our financial results as we adjust our activities in light of increased compliance costs and customer requirements. It is currently too difficult to predict the long-term extent to which the Dodd-Frank Act, Payment Services Directive or the resulting regulations will impact our business and the businesses of our current and potential customers.

Several other factors related to our business may have a significant impact on our operating results from year to year. For example, the accounting rules governing the timing of revenue recognition in the software industry are complex and it can be difficult to estimate when we will recognize revenue generated by a given transaction. Factors such as maturity of the software product licensed, payment terms, creditworthiness of the customer, and timing of delivery or acceptance of our products often cause revenues related to sales generated in one period to be deferred and recognized in later periods. For arrangements in which services revenue is deferred, related direct and incremental costs may also be deferred. Additionally, while the majority of our contracts are denominated in the U.S. dollar, a substantial portion of our sales are made, and some of our expenses are incurred, in the local currency of countries other than the United States. Fluctuations in currency exchange rates in a given period may result in the recognition of gains or losses for that period.

We continue to seek ways to grow through organic sources, partnerships, alliances, and acquisitions. We continually look for potential acquisitions designed to improve our solutions' breadth or provide access to new markets. As part of our acquisition strategy, we seek acquisition candidates that are strategic, capable of being integrated into our operating environment and financially accretive to our financial performance.

Divestiture*Community Financial Services*

On March 3, 2016, we completed the sale of our CFS related assets and liabilities to Fiserv for \$200.0 million. The sale of CFS, which was not aligned with our long-term strategy, is part of the Company's ongoing efforts to expand as a provider of software products and SaaS-based and Platform-based solutions facilitating real-time electronic and eCommerce payments for large financial institutions, intermediaries, retailers, and billers worldwide. The sale included employee agreements and customer contracts as well as technology assets and intellectual property.

For the nine months ended September 30, 2016, we recognized a net after-tax gain of \$93.4 million on sale of assets to Fiserv. This gain includes final post-closing adjustments pursuant to the definitive transaction agreement of \$0.5 million recognized during the three months ended September 30, 2016.

Backlog

Included in backlog estimates are all software license fees, maintenance fees and services fees (including SaaS and Platform) specified in executed contracts, as well as revenues from assumed contract renewals to the extent that we believe recognition of the related revenue will occur within the corresponding backlog period. We have historically included assumed renewals in backlog estimates based upon automatic renewal provisions in the executed contract and our historic experience with customer renewal rates.

Our 60-month backlog estimate represents expected revenues from existing customers using the following key assumptions:

- Maintenance fees are assumed to exist for the duration of the license term for those contracts in which the committed maintenance term is less than the committed license term.
- License, facilities management, and SaaS and Platform arrangements are assumed to renew at the end of their committed term at a rate consistent with our historical experiences.
- Non-recurring license arrangements are assumed to renew as recurring revenue streams.
- Foreign currency exchange rates are assumed to remain constant over the 60-month backlog period for those contracts stated in currencies other than the U.S. dollar.
- Our pricing policies and practices are assumed to remain constant over the 60-month backlog period.

In computing our 60-month backlog estimate, the following items are specifically not taken into account:

- Anticipated increases in transaction, account, or processing volumes in customer systems.
- Optional annual uplifts or inflationary increases in recurring fees.
- Services engagements, other than facilities management and SaaS and Platform engagements, are not assumed to renew over the 60-month backlog period.
- The potential impact of merger activity within our markets and/or customers.

We review our customer renewal experience on an annual basis. The impact of this review and subsequent update may result in a revision to the renewal assumptions used in computing the 60-month and 12-month backlog estimates. In the event a revision to renewal assumptions is determined to be necessary, prior periods will be adjusted for comparability purposes.

The following table sets forth our 60-month backlog estimate, by reportable segment, as of September 30, 2017, June 30, 2017, March 31, 2017 and December 31, 2016 (in millions). Dollar amounts reflect foreign currency exchange rates as of each period end.

	September 30, 2017	June 30, 2017	March 31, 2017	December 31, 2016
ACI On Premise	\$ 1,707	\$ 1,722	\$ 1,709	\$ 1,718
ACI On Demand	2,368	2,345	2,303	2,298
Total	<u>\$ 4,075</u>	<u>\$ 4,067</u>	<u>\$ 4,012</u>	<u>\$ 4,016</u>

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	September 30, 2017	June 30, 2017	March 31, 2017	December 31, 2016
Committed	\$ 1,908	\$ 1,908	\$ 1,914	\$ 1,930
Renewal	2,167	2,159	2,098	2,086
Total	<u>\$ 4,075</u>	<u>\$ 4,067</u>	<u>\$ 4,012</u>	<u>\$ 4,016</u>

Included in our 60-month backlog estimates are amounts expected to be recognized during the initial license term of customer contracts (“Committed Backlog”) and amounts expected to be recognized from assumed renewals of existing customer contracts (“Renewal Backlog”). Amounts expected to be recognized from assumed contract renewals are based on our historical renewal experience.

We also estimate 12-month backlog, segregated between monthly recurring and non-recurring revenues, using a methodology consistent with the 60-month backlog estimate. Monthly recurring revenues include all monthly license fees, maintenance fees and SaaS and Platform processing services fees. Non-recurring revenues include other software license fees and services fees. Amounts included in our 12-month backlog estimate assume renewal of one-time license fees on a monthly fee basis if such renewal is expected to occur in the next 12 months. The following table sets forth our 12-month backlog estimate, by segment, as of September 30, 2017, June 30, 2017, March 31, 2017 and December 31, 2016 (in millions). For all periods reported, approximately 75% of our 12-month backlog estimate is committed backlog and approximately 25% of our 12-month backlog estimate is renewal backlog. Dollar amounts reflect currency exchange rates as of each period end.

	September 30, 2017			June 30, 2017		
	Monthly Recurring	Non- Recurring	Total	Monthly Recurring	Non- Recurring	Total
ACI On Premise	\$ 298	\$ 77	\$375	\$ 300	\$ 82	\$382
ACI On Demand	458	—	458	456	—	456
Total	<u>\$ 756</u>	<u>\$ 77</u>	<u>\$833</u>	<u>\$ 756</u>	<u>\$ 82</u>	<u>\$838</u>

	March 31, 2017			December 31, 2016		
	Monthly Recurring	Non- Recurring	Total	Monthly Recurring	Non- Recurring	Total
ACI On Premise	\$ 294	\$ 77	\$371	\$ 298	\$ 79	\$377
ACI On Demand	443	—	443	439	—	439
Total	<u>\$ 737</u>	<u>\$ 77</u>	<u>\$814</u>	<u>\$ 737</u>	<u>\$ 79</u>	<u>\$816</u>

Estimates of future financial results require substantial judgment and are based on a number of assumptions as described above. These assumptions may turn out to be inaccurate or wrong, including for reasons outside of management’s control. For example, our customers may attempt to renegotiate or terminate their contracts for a number of reasons, including mergers, changes in their financial condition, or general changes in economic conditions in the customer’s industry or geographic location, or we may experience delays in the development or delivery of products or services specified in customer contracts which may cause the actual renewal rates and amounts to differ from historical experience. Changes in foreign currency exchange rates may also impact the amount of revenue actually recognized in future periods. Accordingly, there can be no assurance that amounts included in backlog estimates will actually generate the specified revenues or that the actual revenues will be generated within the corresponding 12-month or 60-month period. Additionally, because backlog estimates are operating metrics, the estimates are not required to be subject to the same level of internal review or controls as a U.S. GAAP financial measure.

RESULTS OF OPERATIONS

The following table presents the condensed consolidated statements of operations as well as the percentage relationship to total revenues of items included in our condensed consolidated statements of operations (amounts in thousands):

Three-Month Period Ended September 30, 2017 Compared to the Three-Month Period Ended September 30, 2016

	Three Months Ended September 30,				2016	
	2017					
	Amount	% of Total Revenue	\$ Change vs 2016	% Change vs 2016	Amount	% of Total Revenue
Revenues:						
Software as a service and platform as a service	\$ 99,761	44%	\$ 3,592	4%	\$ 96,169	44%
Initial license fees (ILFs)	30,635	14%	5,560	22%	25,075	12%
Monthly license fees (MLFs)	19,382	9%	1,201	7%	18,181	8%
License	50,017	22%	6,761	16%	43,256	20%
Maintenance	56,349	25%	(1,392)	-2%	57,741	27%
Services	19,608	9%	(201)	-1%	19,809	9%
Total revenues	<u>225,735</u>	<u>100%</u>	<u>8,760</u>	<u>4%</u>	<u>216,975</u>	<u>100%</u>
Operating expenses:						
Cost of revenue	107,393	48%	7,126	7%	100,267	46%
Research and development	33,935	15%	(8,275)	-20%	42,210	19%
Selling and marketing	25,236	11%	(4,638)	-16%	29,874	14%
General and administrative	25,302	11%	(6,088)	-19%	31,390	14%
Gain on sale of CFS assets	—	0%	(489)	-100%	489	0%
Depreciation and amortization	22,446	10%	348	2%	22,098	10%
Total operating expenses	<u>214,312</u>	<u>95%</u>	<u>(12,016)</u>	<u>-5%</u>	<u>226,328</u>	<u>104%</u>
Operating income (loss)	11,423	5%	20,776	-222%	(9,353)	-4%
Other income (expense):						
Interest expense	(9,374)	-4%	464	-5%	(9,838)	-5%
Interest income	165	0%	20	14%	145	0%
Other, net	(1,059)	0%	(3,853)	-138%	2,794	1%
Total other income (expense)	<u>(10,268)</u>	<u>-5%</u>	<u>(3,369)</u>	<u>49%</u>	<u>(6,899)</u>	<u>-3%</u>
Income (loss) before income taxes	1,155	1%	17,407	-107%	(16,252)	-7%
Income tax benefit	(2,233)	-1%	4,193	-65%	(6,426)	-3%
Net income (loss)	<u>\$ 3,388</u>	<u>2%</u>	<u>\$ 13,214</u>	<u>-134%</u>	<u>\$ (9,826)</u>	<u>-5%</u>

Revenues

Total revenue for the three months ended September 30, 2017, increased \$8.8 million, or 4%, as compared to the same period in 2016. The increase is the result of a \$6.8 million, or 16%, increase in license revenue, a \$3.6 million, or 4%, increase in SaaS and Platform revenue, partially offset by a \$1.4 million, or 2%, decrease in maintenance revenue, and a \$0.2 million, or 1%, decrease in services revenue.

Total revenue was \$1.7 million higher for the three months ended September 30, 2017, compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total revenue for the three months ended September 30, 2017, increased \$7.1 million, or 3%, compared to the same period in 2016 primarily as a result of an increase in initial license fees, monthly license fees, and SaaS and Platform revenue partially offset by decreases in services and maintenance revenue.

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Software as a Service (“SaaS”) and Platform as a Service (“Platform”) Revenue

SaaS and Platform revenue includes fees earned through SaaS-based and Platform-based arrangements. All revenue from these arrangements that does not qualify for treatment as a separate unit of accounting, which includes set-up fees, implementation or customization services, and product support services, are included in SaaS and Platform revenue.

SaaS and Platform revenue increased \$3.6 million, or 4%, during the three months ended September 30, 2017, as compared to the same period in 2016. SaaS and Platform revenue was \$0.3 million higher for the three months ended September 30, 2017, compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total SaaS and Platform revenue for the three months ended September 30, 2017, increased \$3.3 million, or 3%, compared to the same period in 2016, which is primarily attributable to new customers adopting our SaaS and Platform-based offerings and existing customers adding new functionality or increasing transaction volumes.

License Revenue

Customers purchase the right to license ACI software for the term of their agreement which is generally 60 months. Within these agreements are specified capacity limits typically based on customer transaction volume. ACI employs measurement tools that monitor the number of transactions processed by customers and if contractually specified limits are exceeded, additional fees are charged for the overage. Capacity overages may occur at varying times throughout the term of the agreement depending on the product, the size of the customer, and the significance of customer transaction volume growth. Depending on specific circumstances, multiple overages or no overages may occur during the term of the agreement.

Initial License Revenue

Initial license revenue includes license and capacity revenues that do not recur on a monthly or quarterly basis. Included in initial license revenue are license and capacity fees that are recognizable at the inception of the agreement and license and capacity fees that are recognizable at interim points during the term of the agreement, including those that are recognizable annually due to negotiated customer payment terms.

Initial license revenue increased \$5.6 million, or 22%, during the three months ended September 30, 2017, as compared to the same period in 2016. Total initial license revenue was \$0.5 million higher for the three months ended September 30, 2017, compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total initial license revenue for the three months ended September 30, 2017, increased \$5.1 million, or 20%, compared to the same period in 2016. The increase in initial license revenue was primarily driven by an increase in capacity related license revenue of \$8.2 million partially offset by a decrease in non-capacity related license revenue of \$3.1 million during the three months ended September 30, 2017, compared to the same period in 2016. The increase in capacity related license revenue was attributable to the execution of several license arrangements and the timing and relative size of capacity events during the three months ended September 30, 2017, as compared to the same period in 2016.

Monthly License Revenue

Monthly license revenue is license and capacity revenue that is paid monthly or quarterly due to negotiated customer payment terms as well as initial license and capacity fees that are recognized as revenue ratably over an extended period as monthly license revenue.

Monthly license revenue increased \$1.2 million, or 7%, during the three months ended September 30, 2017, as compared to the same period in 2016. Total monthly license revenue was \$0.1 million higher for the three months ended September 30, 2017, compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total monthly license revenue for the three months ended September 30, 2017, increased \$1.1 million, or 6%, compared to the same period in 2016.

Maintenance Revenue

Maintenance revenue includes standard and premium maintenance and any post contract support fees received from customers for the provision of product support services.

Maintenance revenue decreased \$1.4 million, or 2%, during the three months ended September 30, 2017, as compared to the same period in 2016. Total maintenance revenue was \$0.6 million higher for the three months ended September 30, 2017, as compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total maintenance revenue for the three months ended September 30, 2017, decreased \$2.0 million, or 3%, compared to the same period in 2016.

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Services Revenue

Services revenue includes fees earned through implementation services, professional services, and facilities management services. Implementation services include product installations, product configurations, and custom software modifications (“CSMs”). Professional services include business consultancy, technical consultancy, on-site support services, CSMs, product education, and testing services. These services include new customer implementations as well as existing customer migrations to new products or new releases of existing products. During the period in which non-essential services revenue is being deferred, direct and incremental costs related to the performance of these services are also being deferred. During the period in which essential services revenue is being deferred, direct and indirect costs related to the performance of these services are also being deferred.

Services revenue decreased \$0.2 million, or 1%, during the three months ended September 30, 2017, as compared to the same period in 2016. Total services revenue was \$0.2 million higher for the three months ended September 30, 2017, as compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total services revenue for the three months ended September 30, 2017, decreased \$0.4 million, or 2%, compared to the same period in 2016.

Operating Expenses

Total operating expenses for the three months ended September 30, 2017 decreased \$11.5 million, or 5%, as compared to the same period in 2016, excluding the gain on sale of CFS assets.

Total operating expenses were \$1.6 million higher for the three months ended September 30, 2017, compared to the same period in 2016, due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, operating expenses decreased \$13.1 million, or 6%, for the three months ended September 30, 2017 compared to the same period in 2016 primarily as a result of decreases in research and development expense, selling and marketing expense, and general and administrative expense, partially offset by an increase in cost of revenue and depreciation and amortization expenses.

Cost of Revenue

Cost of revenue includes costs to provide SaaS and Platform services, third-party royalties, amortization of purchased and developed software for resale, the costs of maintaining our software products, as well as the costs required to deliver, install, and support software at customer sites. SaaS and Platform service costs include payment card interchange fees, assessments payable to banks, and payment card processing fees. Maintenance costs include the efforts associated with providing the customer with upgrades, 24-hour help desk, post go-live (remote) support, and production-type support for software that was previously installed at a customer location. Service costs include human resource costs and other incidental costs such as travel and training required for both pre go-live and post go-live support. Such efforts include project management, delivery, product customization and implementation, installation support, consulting, configuration, and on-site support.

Cost of revenue increased \$7.1 million, or 7%, during the three months ended September 30, 2017, compared to the same period in 2016. Cost of revenue were approximately \$0.5 million higher due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, cost of revenue increased \$6.7 million, or 7%, for the three months ended September 30, 2017, compared to the same period in 2016, primarily due to a \$4.8 million increase in payment card interchange fees and an increase of \$1.9 million in personnel and related expenses.

Research and Development

Research and development (“R&D”) expenses are primarily human resource costs related to the creation of new products, improvements made to existing products as well as compatibility with new operating system releases and generations of hardware.

Research and development expense decreased \$8.3 million, or 20%, during the three months ended September 30, 2017, compared to the same period in 2016. Research and development expenses were \$0.5 million higher for the three months ended September 30, 2017, compared to the same period in 2016, due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, research and development expenses decreased \$8.8 million, or 20%, for the three months ended September 30, 2017, compared to the same period in 2016, primarily due to a decrease in personnel and related expenses, including a \$3.1 million decrease in stock-based compensation, and a \$1.6 million increase in net deferred expenses.

Selling and Marketing

Selling and marketing includes both the costs related to selling our products to current and prospective customers as well as the costs related to promoting the Company, its products and the research efforts required to measure customers' future needs and satisfaction levels. Selling costs are primarily the human resource and travel costs related to the effort expended to license our products and services to current and potential clients within defined territories and/or industries as well as the management of the overall relationship with customer accounts. Selling costs also include the costs associated with assisting distributors in their

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efforts to sell our products and services in their respective local markets. Marketing costs include costs incurred to promote the Company and its products, perform or acquire market research to help the Company better understand impending changes in customer demand for and of our products, and the costs associated with measuring customers' opinions toward the Company, our products and personnel.

Selling and marketing expense decreased \$4.6 million, or 16%, during the three months ended September 30, 2017, compared to the same period in 2016. Selling and marketing expenses were \$0.2 million higher for the three months ended September 30, 2017, compared to the same period in 2016, due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, sales and marketing expenses decreased \$4.8 million, or 16%, for the three months ended September 30, 2017, compared to the same period in 2016, due to a decrease in personnel and related expenses as a result of a decrease in new bookings.

General and Administrative

General and administrative expenses are primarily human resource costs including executive salaries and benefits, personnel administration costs, and the costs of corporate support functions such as legal, administrative, human resources, and finance and accounting.

General and administrative expense decreased \$6.1 million, or 19%, during the three months ended September 30, 2017, compared to the same period in 2016. General and administrative expenses were \$0.3 million higher for the three months ended September 30, 2017, compared to the same period in 2016, due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, general and administrative expenses decreased \$6.4 million, or 20%, for the three months ended September 30, 2017, compared to the same period in 2016. This decrease is primarily related to a \$5.3 million decrease in divestiture and integration related expenditures and a \$1.2 million decrease in professional fees.

Depreciation and Amortization

Depreciation and amortization expense increased \$0.3 million, or 2%, during the three months ended September 30, 2017, compared to the same period in 2016. Depreciation and amortization expense were approximately \$0.2 million higher for the three months ended September 30, 2017, as compared to the same period in 2016, due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, depreciation and amortization expense increased \$0.1 million, or 1%, for the three months ended September 30, 2017, compared to the same period in 2016, primarily due to an increase in capital expenditures.

Other Income and Expense

Interest expense for the three months ended September 30, 2017 decreased \$0.5 million, or 5%, as compared to the same period in 2016 primarily due to lower comparative debt balances during the three months ended September 30, 2017.

Other, net consists of foreign currency gains (losses). Foreign currency gains (losses) for the three months ended September 30, 2017 and 2016 were \$(1.1) million and \$2.8 million, respectively.

Income Taxes

The Company reported a tax benefit for the three months ended September 30, 2017 while reporting a pretax profit for the same period. The resulting effective tax rate for the three months ended September 30, 2017 was negative 193%. The earnings of our foreign entities for the three months ended September 30, 2017 were \$15.2 million. The tax rates in the foreign jurisdictions in which we operate are less than the domestic tax rate. The effective tax rate for the three months ended September 30, 2017 was impacted by profits and losses in certain foreign jurisdictions taxed at lower rates and domestic losses taxed at higher rates.

The effective tax rate for the three months ended September 30, 2016 was 40%. The earnings of our foreign entities for the three months ended September 30, 2016 were \$16.4 million. The tax rates in the foreign jurisdictions in which we operate are less than the domestic tax rate. The effective tax rate for the three months ended September 30, 2016 was impacted by foreign profits taxed at lower rates, domestic losses taxed at a higher rate, and by the establishment of a \$4.7 million valuation allowance against foreign tax credits existing in the US that were expected to expire before they can be utilized.

Our effective tax rate could fluctuate significantly on a quarterly basis and could be negatively affected to the extent earnings are lower in the countries in which we operate that have a lower statutory rate or higher in the countries in which we operate that have a higher statutory rate or the extent we have losses sustained in countries where the future utilization of losses are uncertain. Our effective tax rate could also fluctuate due to changes in the valuation of our deferred tax assets or liabilities, or by changes in tax laws, regulations, accounting principles, or interpretations thereof. In addition, we are occasionally subject to examination of our income tax returns by tax authorities in the jurisdictions we operate. We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes.

Nine-Month Period Ended September 30, 2017 Compared to the Nine-Month Period Ended September 30, 2016

	Nine Months Ended September 30,				2016	
	2017					
	Amount	% of Total Revenue	\$ Change vs 2016	% Change vs 2016	Amount	% of Total Revenue
Revenues:						
Software as a service and platform as a service	\$312,677	45%	\$ 2,507	1%	\$ 310,170	47%
Initial license fees (ILFs)	105,865	15%	45,209	75%	60,656	9%
Monthly license fees (MLFs)	57,713	8%	4,180	8%	53,533	8%
License	163,578	23%	49,389	43%	114,189	17%
Maintenance	166,829	24%	(8,575)	-5%	175,404	26%
Services	54,712	8%	(8,496)	-13%	63,208	10%
Total revenues	697,796	100%	34,825	5%	662,971	100%
Operating expenses:						
Cost of revenue	336,293	48%	2,208	1%	334,085	50%
Research and development	106,189	15%	(26,046)	-20%	132,235	20%
Selling and marketing	81,190	12%	(7,471)	-8%	88,661	13%
General and administrative	130,332	19%	38,354	42%	91,978	14%
Gain on sale of CFS assets	—	0%	151,463	-100%	(151,463)	-23%
Depreciation and amortization	67,189	10%	501	1%	66,688	10%
Total operating expenses	721,193	103%	159,009	28%	562,184	85%
Operating income (loss)	(23,397)	-3%	(124,184)	-123%	100,787	15%
Other income (expense):						
Interest expense	(30,198)	-4%	(231)	1%	(29,967)	-5%
Interest income	421	0%	5	1%	416	0%
Other, net	(2,176)	0%	(6,659)	-149%	4,483	1%
Total other income (expense)	(31,953)	-5%	(6,885)	27%	(25,068)	-4%
Income (loss) before income taxes	(55,350)	-8%	(131,069)	-173%	75,719	11%
Income tax expense (benefit)	(27,321)	-4%	(40,196)	-312%	12,875	2%
Net income (loss)	<u>\$ (28,029)</u>	<u>-4%</u>	<u>\$ (90,873)</u>	<u>-145%</u>	<u>\$ 62,844</u>	<u>9%</u>

Revenues

Total revenue for the nine months ended September 30, 2017, increased \$34.8 million, or 5%, as compared to the same period in 2016. The increase is the result of a \$49.4 million, or 43%, increase in license revenue and a \$2.5 million, or 1%, increase in SaaS and Platform revenue, partially offset by an \$8.6 million, or 5%, decrease in maintenance revenue, and an \$8.5 million, or 13%, decrease in services revenue.

The CFS divestiture resulted in a \$15.4 million decrease in total revenue for the nine months ended September 30, 2017. Total revenue was \$1.4 million lower for the nine months ended September 30, 2017, compared to the same period in 2016 due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS and foreign currency, total revenue for the nine months ended September 30, 2017, increased \$51.6 million, or 8%, compared to the same period in 2016, primarily as a result of an increase in initial license fees, monthly license fees, and SaaS and Platform revenue, partially offset by decreases in services and maintenance revenue.

SaaS and Platform Revenue

SaaS and Platform revenue increased \$2.5 million, or 1%, during the nine months ended September 30, 2017, as compared to the same period in 2016. The CFS divestiture resulted in decreased SaaS and Platform revenue of \$13.5 million during the nine months ended September 30, 2017. Total SaaS and Platform revenue was \$0.9 million lower for the nine months ended September 30, 2017, compared to the same period in 2016 due to the impact of foreign currencies weakening against the U.S.

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dollar. Excluding the impact of CFS and foreign currency, total SaaS and Platform revenue for the nine months ended September 30, 2017, increased \$16.9 million, or 5%, compared to the same period in 2016, which is primarily attributed to new customers adopting our SaaS and Platform-based offerings and existing customers adding new functionality or increasing transaction volumes.

Initial License Revenue

Initial license revenue increased \$45.2 million, or 75%, during the nine months ended September 30, 2017, as compared to the same period in 2016. Total initial license revenue was \$1.0 million higher for the nine months ended September 30, 2017, compared to the same period in 2016 due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of foreign currency, total initial license revenue for the nine months ended September 30, 2017, increased \$44.2 million, or 73%, compared to the same period in 2016. The increase in initial license revenue was driven by an increase in capacity related and non-capacity related license revenue of \$28.3 million and \$16.0 million, respectively, for the nine months ended September 30, 2017, compared to the same period in 2016. The increase in capacity related license revenue was attributable to the execution of several license arrangements and the timing and relative size of capacity events during the nine months ended September 30, 2017, as compared to the same period in 2016. The increase in non-capacity related license revenue was largely attributable to the execution of several license arrangements during the nine months ended September 30, 2017, as compared to the same period in 2016.

Monthly License Revenue

Monthly license revenue increased \$4.2 million, or 8%, during the nine months ended September 30, 2017, as compared to the same period in 2016. The CFS divestiture resulted in decreased monthly license revenue of \$0.4 million during the nine months ended September 30, 2017. Total monthly license revenue was \$0.6 million lower for the nine months ended September 30, 2017, compared to the same period in 2016 due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS and foreign currency, total monthly license revenue for the nine months ended September 30, 2017, increased \$5.2 million, or 10%, compared to the same period in 2016. The increase in monthly license revenue is largely attributable to the addition of new customers and an increase in the monthly license fees charged to existing customers.

Maintenance Revenue

Maintenance revenue during the nine months ended September 30, 2017, as compared to the same period in 2016 decreased \$8.6 million, or 5%. The CFS divestiture resulted in decreased maintenance revenue of \$0.4 million during the nine months ended September 30, 2017. Total maintenance revenue was \$0.9 million lower for the nine months ended September 30, 2017, as compared to the same period in 2016 due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS and foreign currency, total maintenance revenue for the nine months ended September 30, 2017, decreased \$7.3 million, or 4%, compared to the same period in 2016, which is primarily attributable to the recognition of cumulative deferred maintenance revenue for certain customer contracts due to meeting required revenue recognition criteria during the nine months ended September 30, 2016 and certain customers electing to cancel premium maintenance prior to the nine months ended September 30, 2017. These decreases were partially offset by maintenance revenue from sales of licensed products to new and existing customers prior to and during the nine months ended September 30, 2017.

Services Revenue

Services revenue during the nine months ended September 30, 2017, as compared to the same period in 2016 decreased by \$8.5 million, or 13%. The CFS divestiture resulted in decreased services revenue of \$1.1 million during the nine months ended September 30, 2017. The impact of foreign currencies on total services revenue was during the nine months ended September 30, 2017 was neutral. Excluding the impact of CFS total services revenue for the nine months ended September 30, 2017, decreased \$7.4 million, or 12%, compared to the same period in 2016. During the nine months ended September 30, 2016, we completed or neared completion of several large, complex projects that resulted in recognition of services revenue as the work was performed and the projects were completed. The number and magnitude of such projects was lower during the nine months ended September 30, 2017. Additionally, our customers continue to transition from on-premise to on-demand software solutions. Services work performed in relation to our on-demand software solutions is recognized over a longer service period and is classified as SaaS and Platform revenue.

Operating Expenses

Total operating expenses during the nine months ended September 30, 2017 increased \$7.5 million, or 1%, as compared to the same period in 2016, excluding the gain on sale of CFS assets. The CFS divestiture resulted in a \$15.2 million decrease in total operating expenses for the nine months ended September 30, 2017. In the nine months ended September 30, 2017, there were \$46.7 million of expense recorded in relation to the BHMI judgment. Total operating expenses were \$1.1 million lower for the nine months ended September 30, 2017, compared to the same period in 2016, due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS, the BHMI judgment, and foreign currency, operating

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expenses decreased \$22.8 million, or 3%, for the nine months ended September 30, 2017, compared to the same period in 2016, principally reflecting decreases in research and development expense, general and administrative expense, and selling and marketing expense, partially offset by an increase in cost of revenue and depreciation and amortization expense.

Cost of Revenue

Cost of revenue increased \$2.2 million, or 1%, during the nine months ended September 30, 2017, compared to the same period in 2016. The CFS divestiture resulted in a decrease of \$10.4 million in cost of revenue for the nine months ended September 30, 2017. Cost of revenue was approximately \$1.0 million lower due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS and foreign currency, cost of revenue increased \$13.6 million, or 4%, for the nine months ended September 30, 2017, compared to the same period in 2016, primarily due to a \$15.4 million increase in payment card interchange fees, partially offset by an increase in net deferred expenses.

Research and Development

Research and development expense decreased \$26.0 million, or 20%, during the nine months ended September 30, 2017, as compared to the same period in 2016. The CFS divestiture resulted in a decrease of \$1.6 million in research and development expense for the nine months ended September 30, 2017. Research and development expenses were \$0.3 million higher for the three months ended September 30, 2017, compared to the same period in 2016, due to the impact of certain foreign currencies strengthening against the U.S. dollar. Excluding the impact of CFS and foreign currency, research and development expenses decreased \$24.8 million, or 19%, for the nine months ended September 30, 2017, compared to the same period in 2016, primarily due to a decrease in personnel and related expenses, including a \$9.1 million decrease in stock-based compensation. Research and development costs were also lower due to a \$3.2 million increase in net deferred expenses and a \$1.8 million decrease in third party contractor costs.

Selling and Marketing

Selling and marketing expense decreased \$7.5 million, or 8%, during the nine months ended September 30, 2017, as compared to the same period in 2016. The CFS divestiture resulted in a decrease of \$1.6 million in selling and marketing expense for the nine months ended September 30, 2017. Selling and marketing expense was \$0.5 million lower for the nine months ended September 30, 2017, as compared to the same period in 2016, due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS and foreign currency, selling and marketing expense decreased \$5.4 million, or 6%, for the nine months ended September 30, 2017, compared to the same period in 2016, primarily due to a decrease in personnel and related expenses as a result of a decrease in new bookings.

General and Administrative

General and administrative expense increased \$38.4 million, or 42%, during the nine months ended September 30, 2017, as compared to the same period in 2016. In the nine months ended September 30, 2017, \$46.7 million of expense was recorded in relation to the BHMI judgment. The CFS divestiture resulted in a decrease in general and administrative of \$1.0 million for the nine months ended September 30, 2017. General and administrative expense was approximately \$0.2 million higher for the nine months ended September 30, 2017, as compared to the same period in 2016, due to the impact of foreign currencies strengthening against the U.S. dollar. Excluding the impact of CFS, the BHMI judgment and foreign currency, general and administrative expense decreased \$7.5 million, or 8%, for the nine months ended September 30, 2017, compared to the same period in 2016, due to a \$9.3 million decrease in divestiture and integration related expenditures, partially offset by a \$1.7 million increase in personnel and related expenses.

Gain on Sale of CFS Assets

On March 3, 2016, the Company completed the sale of its CFS related assets and liabilities to Fiserv for \$200.0 million and recognized a pre-tax gain of \$151.5 million.

Depreciation and Amortization

Depreciation and amortization increased \$0.5 million, or 1%, during the nine months ended September 30, 2017, as compared to the same period in 2016. The CFS divestiture resulted in a \$0.6 million decrease in depreciation and amortization for the nine months ended September 30, 2017. Depreciation and amortization expense were approximately \$0.2 million lower for the nine months ended September 30, 2017, as compared to the same period in 2016, due to the impact of foreign currencies weakening against the U.S. dollar. Excluding the impact of CFS and foreign currency, depreciation and amortization expense increased \$1.3 million, or 2%, for the three months ended September 30, 2017, compared to the same period in 2016, primarily due to an increase in capital expenditures.

Other Income and Expense

Interest expense for the nine months ended September 30, 2017 increased \$0.2 million, or 1%, as compared to the same period in 2016 due to \$1.4 million of interest expense recognized on the BHMI judgment during the nine months ended September 30, 2017, partially offset by a decrease in expense on the Credit Agreement due to lower debt balances. Excluding the impact of interest on the BHMI judgment, interest expense for the nine months ended September 30, 2017 decreased \$1.2 million, or 4%, as compared to the same period in 2016.

Other, net consists of foreign currency gains (losses). Foreign currency gains (losses) for the nine months ended September 30, 2017 and 2016 were \$(2.2) million and \$4.5 million, respectively.

Income Taxes

The effective tax rate for the nine months ended September 30, 2017 was 49%. The earnings of our foreign entities for the nine months ended September 30, 2017 were \$40.6 million. The tax rates in the foreign jurisdictions in which we operate are less than the domestic tax rate. The effective tax rate for the nine months ended September 30, 2017 was impacted by profits and losses in certain foreign jurisdictions taxed at lower rates and domestic losses taxed at higher rates.

The effective tax rate for the nine months ended September 30, 2016 was 17%. The earnings of our foreign entities for the nine months ended September 30, 2016 were \$44.0 million. The tax rates in the foreign jurisdictions in which we operate are less than the domestic tax rate. The effective tax rate for the nine months ended September 30, 2016 was reduced by foreign profits taxed at lower rates. The effective tax rate was also reduced by a net release of \$5.4 million in the valuation allowance previously established against foreign tax credits that were expected to be fully utilized as a result of the sale of the CFS assets and liabilities.

Our effective tax rate could fluctuate significantly on a quarterly basis and could be negatively affected to the extent earnings are lower in the countries in which we operate that have a lower statutory rate or higher in the countries in which we operate that have a higher statutory rate or the extent we have losses sustained in countries where the future utilization of losses are uncertain. Our effective tax rate could also fluctuate due to changes in the valuation of our deferred tax assets or liabilities, or by changes in tax laws, regulations, accounting principles, or interpretations thereof. In addition, we are occasionally subject to examination of our income tax returns by tax authorities in the jurisdictions we operate. We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes.

Segment Results

In January 2017, the Company announced a change in organizational structure to align with its strategic direction. As a result, beginning in the first half of 2017, the Company reports financial performance based on its new segments, ACI On Premise and ACI On Demand, and analyzes operating income as a measure of segment profitability.

The Company's chief operating decision maker ("CODM"), which is also our Chief Executive Officer, together with other senior management personnel, focus their review of consolidated financial information and the allocation of resources based upon the operating results, including revenues and operating income, for the segments ACI On Premise and ACI On Demand, separate from the Corporate operations.

ACI On Premise serves customers who manage their software on site. These on-premise customers use the Company's software to develop sophisticated, custom solutions, which are often part of a larger system located and managed at the customer site. These customers require a level of control, customization, and flexibility that ACI On Premise solutions can offer, and they have the resources and expertise to take a lead role in managing these solutions.

ACI On Demand serves the needs of retail and financial institutions who use payments to facilitate their core business. The Company sees an increasing number of customers opting for software as a service and platform as a service offerings, which offer reduced complexity and cost as well as the ability to rapidly implement and scale.

Revenue is attributed to the reportable segments based upon the product sold and mechanism for delivery to the customer. Expenses are attributed to the reportable segments in one of three methods, (1) direct costs of the segment, (2) labor costs that can be attributed based upon time tracking for individual products, or (3) costs that are allocated. Allocated costs are generally marketing and sales related activities as well as information technology and facilities related expense for which multiple segments benefit. The Company also allocates certain depreciation costs to the segments.

Corporate and other consists of the corporate overhead costs that are not allocated to reportable segments. These overhead costs relate to human resources, finance, legal, accounting, merger and acquisition activity, amortization of acquisition-related intangibles, and other costs that are not considered when management evaluates segment performance. For the nine months ended September 30, 2017, Corporate and other includes \$46.7 million of general and administrative expense for the legal judgment discussed in Note 12. For the nine months ended September 30, 2016, Corporate and other also includes revenue and operating income from the operations and sale of CFS related assets and liabilities of \$15.4 million and \$151.7 million, respectively.

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The following is selected financial data for the Company's reportable segments for the periods indicated (in thousands):

	<u>Three Months Ended September 30,</u>		<u>Nine Months Ended September 30,</u>	
	<u>2017</u>	<u>2016</u>	<u>2017</u>	<u>2016</u>
Revenues:				
ACI On Premise	\$ 126,006	\$ 120,618	\$ 385,108	\$ 349,904
ACI On Demand	99,729	96,357	312,688	297,651
Corporate and other	—	—	—	15,416
	<u>\$ 225,735</u>	<u>\$ 216,975</u>	<u>\$ 697,796</u>	<u>\$ 662,971</u>
Depreciation and amortization expense:				
ACI On Premise	\$ 3,321	\$ 3,616	\$ 9,915	\$ 10,961
ACI On Demand	8,576	7,308	25,973	21,665
Corporate and other	13,656	14,059	40,884	43,212
	<u>\$ 25,553</u>	<u>\$ 24,983</u>	<u>\$ 76,772</u>	<u>\$ 75,838</u>
Stock-based compensation expense:				
ACI On Premise	\$ 1,869	\$ 1,770	\$ 4,984	\$ 5,222
ACI On Demand	1,865	1,766	4,973	5,209
Corporate and other	4,350	7,258	12,767	23,381
	<u>\$ 8,084</u>	<u>\$ 10,794</u>	<u>\$ 22,724</u>	<u>\$ 33,812</u>
Operating income (loss):				
ACI On Premise	\$ 59,947	\$ 47,523	\$ 181,161	\$ 120,718
ACI On Demand	(11,683)	(8,089)	(39,740)	(28,653)
Corporate and other	(36,841)	(48,787)	(164,818)	8,722
	<u>\$ 11,423</u>	<u>\$ (9,353)</u>	<u>\$ (23,397)</u>	<u>\$ 100,787</u>

Liquidity and Capital Resources

General

Our primary liquidity needs are: (i) to fund normal operating expenses; (ii) to meet the interest and principal requirements of our outstanding indebtedness; and (iii) to fund acquisitions, capital expenditures and lease payments. We believe these needs will be satisfied using cash flow generated by our operations, our cash and cash equivalents and available borrowings under our revolving credit facility.

Available Liquidity

The following table sets forth our available liquidity for the periods indicated (amount in thousands):

	<u>September 30,</u>	
	<u>2017</u>	<u>2016</u>
Cash and cash equivalents	\$ 67,930	\$ 50,912
Availability under Revolving Credit Facility	496,000	161,000
Total liquidity	<u>\$563,930</u>	<u>\$211,912</u>

The increase in total liquidity is primarily attributable to additional committed revolving credit facility of \$250.0 million (in accordance with the February 24, 2017 amendment to the Credit Agreement) and positive cash flow from operating activities of \$85.1 million partially offset by net repayments of \$49.9 million on the Credit Facility, \$5.3 million of payments related to debt issuance costs, and \$9.3 million of payments on other debt and capital leases.

Cash and cash equivalents consist of highly liquid investments with original maturities of three months or less. As of September 30, 2017, \$50.6 million of the \$67.9 million of cash and cash equivalents was held by our foreign subsidiaries. If these funds were needed for our operations in the U.S., we would be required to accrue and pay U.S. taxes to repatriate these funds. However, our intent is to permanently reinvest these funds outside the U.S. and our current plans do not demonstrate a need to repatriate them to fund our U.S. operations.

	Nine Months Ended September 30,	
	2017	2016
Net cash provided by (used by):		
Operating activities	\$ 85,072	\$ 64,856
Investing activities	(39,894)	138,841
Financing activities	(57,320)	(251,298)

Cash Flows from Operating Activities

Net cash flows provided by operating activities for the nine months ended September 30, 2017 was \$85.1 million as compared to \$64.9 million during the same period in 2016, an increase of 31%. The comparative period increase was primarily due to increased cash collections from customers during the nine months ended September 30, 2017 compared to the same period in 2016 and a decrease in cash operating expense, partially offset by the payment of the BHMI judgment, including interest. Our current policy is to use our operating cash flow primarily for funding capital expenditures, lease payments, stock repurchases, and acquisitions.

Cash Flows from Investing Activities

During the first nine months of 2017, we used cash of \$39.9 million to purchase software, property and equipment, as compared to \$53.6 million during the same period in 2016. During the first nine months of 2016, we received net proceeds of \$199.5 million from the sale of the CFS related assets and liabilities.

Cash Flows from Financing Activities

Net cash flows used by financing activities for the nine months ended September 30, 2017 was \$57.3 million as compared to \$251.3 million during the same period in 2016. During the first nine months of 2017, we received net proceeds of \$34.1 million on the Term Credit Facility and repaid a net \$84.0 million on the Revolving Credit Facility. In addition, during the first nine months of 2017, we received proceeds of \$12.5 million from the exercises of stock options and the issuance of common stock under our 2005 Employee Stock Purchase Plan, as amended, and used \$5.3 million for the repurchase of restricted stock for tax withholdings. During the nine months ended September 30, 2016, we used the proceeds from the CFS divestiture to partially fund the repayment of \$166.0 million on the revolver portion of the Credit Facility and \$71.5 million of the term portion of the Credit Facility. We used \$60.1 million to repurchase shares of our common stock during the first nine months of 2016. In addition, during the first nine months of 2016, we received proceeds of \$11.1 million from the exercises of stock options and the issuance of common stock under our 2005 Employee Stock Purchase Plan, as amended, and used \$3.0 million for the repurchase of restricted stock for tax withholdings.

We may decide to use cash to acquire new products and services or enhance existing products and services through acquisitions of other companies, product lines, technologies and personnel, or through investments in other companies.

We believe that our existing sources of liquidity, including cash on hand and cash provided by operating activities, will satisfy our projected liquidity requirements, which primarily consists of working capital requirements, for the next twelve months and foreseeable future.

Debt

As of September 30, 2017, we had \$4.0 million and \$399.4 million outstanding under our Revolving Credit Facility and Term Credit Facility, respectively, with up to \$496.0 million of unused borrowings under the Revolving Credit Facility portion of the Credit Agreement, as amended. The amount of unused borrowings actually available varies in accordance with the terms of the agreement. The Credit Agreement contains certain affirmative and negative covenants, including limitations on the incurrence of indebtedness, asset dispositions, acquisitions, investments, dividends and other restricted payments, liens and transactions with affiliates. The Credit Agreement also contains financial covenants relating to maximum permitted leverage ratio and the minimum interest coverage ratio. The facility does not contain any subjective acceleration features and does not have any required payment or principal reduction schedule and is included as a long-term liability in our condensed consolidated balance sheet. On June 27, 2017, the Company and the Administrative Agent entered into an amendment to the Credit Agreement. The amendment revised the definition of "Consolidated EBITDA" to exclude the expense from the BHMI judgment and related fees, expenses, and interest thereto, up to \$50 million from the calculation in the period recorded. At September 30, 2017 (and at all times during this period) we were in compliance with our debt covenants. The interest rate in effect at September 30, 2017 was 2.99%.

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On February 29, 2016, the Company entered into a standby letter of credit (the “Letter of Credit”), under the terms of the Credit Agreement, for \$25.0 million. On October 26, 2016, the Letter of Credit was renewed at \$7.5 million. On June 15, 2017, the Letter of Credit was renewed at \$5.0 million. The Company cancelled the Letter of Credit on August 24, 2017.

On August 20, 2013, the Company completed a \$300.0 million offering of 6.375% Senior Notes due in 2020 (the “Notes”) at an issue price of 100% of the principal amount in a private placement for resale to qualified institutional buyers. The Notes bear an interest rate of 6.375% per annum, payable semi-annually in arrears on August 15 and February 15 of each year, commencing on February 15, 2014. The Notes will mature on August 15, 2020.

Stock Repurchase Program

As of September 12, 2012, our Board of Directors had approved a stock repurchase program authorizing us, from time to time as market and business conditions warrant, to acquire up to \$262.1 million of our common stock. On September 13, 2012, our Board of Directors approved the repurchase of up to 7,500,000 shares of our common stock, or up to \$113.0 million, in place of the remaining repurchase amounts previously authorized. In July 2013 and again on February 24, 2014, our Board of Directors approved an additional \$100.0 million for the stock repurchase program, for a total of an additional \$200.0 million.

The Company did not repurchase any shares under the program during the nine months ended September 30, 2017. Under the program to date, the Company has repurchased 40,129,393 shares for approximately \$455.9 million. The maximum remaining authorized for purchase under the stock repurchase program was approximately \$78.2 million as of September 30, 2017.

There is no guarantee as to the exact number of shares that will be repurchased by us. Repurchased shares are returned to the status of authorized but unissued shares of common stock. In March 2005, our Board of Directors approved a plan under Rule 10b5-1 of the Securities Exchange Act of 1934 to facilitate the repurchase of shares of common stock under the existing stock repurchase program. Under our Rule 10b5-1 plan, we have delegated authority over the timing and amount of repurchases to an independent broker who does not have access to inside information about the Company. Rule 10b5-1 allows us, through the independent broker, to purchase shares at times when we ordinarily would not be in the market because of self-imposed trading blackout periods, such as the time immediately preceding the end of the fiscal quarter through a period three business days following our quarterly earnings release.

Contractual Obligations and Commercial Commitments

For the nine months ended September 30, 2017, there have been no material changes to the contractual obligations and commercial commitments disclosed in Item 7 of our Form 10-K for the fiscal year ended December 31, 2016 other than the items below.

	Total	Payments due by Period			More than 5 years
		Less than 1 year	1-3 years	3-5 years	
Contractual Obligations					
Term credit facility	\$399,438	\$ 20,750	\$59,656	\$319,032	\$ —
Term credit facility interest (1)	45,434	11,711	21,153	12,570	—
Total	<u>\$444,872</u>	<u>\$ 32,461</u>	<u>\$80,809</u>	<u>\$331,602</u>	<u>\$ —</u>

(1) Based upon the Credit Facility debt outstanding and interest rate in effect at September 30, 2017 of 2.99%.

We are unable to reasonably estimate the ultimate amount or timing of settlement of our reserves for income taxes under Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) 740, *Income Tax*. The liability for unrecognized tax benefits at September 30, 2017 is \$25.6 million.

Critical Accounting Estimates

The preparation of the condensed consolidated financial statements requires that we make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. We base our estimates on historical experience and other assumptions that we believe to be proper and reasonable under the circumstances. We continually evaluate the appropriateness of estimates and assumptions used in the preparation of our condensed consolidated financial statements. Actual results could differ from those estimates.

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The accounting policies that reflect our more significant estimates, judgments and assumptions and which we believe are the most critical to aid in fully understanding and evaluating our reported financial results include the following:

- Revenue Recognition
- Allowance for Doubtful Accounts
- Business Combinations
- Intangible Assets and Goodwill
- Stock-Based Compensation
- Accounting for Income Taxes

During the nine months ended September 30, 2017, there were no significant changes to our critical accounting policies and estimates. Please refer to Management's Discussion and Analysis of Financial Condition and Results of Operations contained in Part II, Item 7 of our Annual Report on Form 10-K for our fiscal year ended December 31, 2016, filed on March 1, 2017, for a more complete discussion of our critical accounting policies and estimates.

Item 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Excluding the impact of changes in interest rates and the uncertainty in the global financial markets, there have been no material changes to our market risk for the nine months ended September 30, 2017. We conduct business in all parts of the world and are thereby exposed to market risks related to fluctuations in foreign currency exchange rates. The U.S. dollar is the single largest currency in which our revenue contracts are denominated. Thus, any decline in the value of local foreign currencies against the U.S. dollar results in our products and services being more expensive to a potential foreign customer, and in those instances where our goods and services have already been sold, may result in the receivables being more difficult to collect. Additionally, any decline in the value of the U.S. dollar in jurisdictions where the revenue contracts are denominated in U.S. dollars and operating expenses are incurred in local currency will have an unfavorable impact to operating margins. We at times enter into revenue contracts that are denominated in the country's local currency, principally in Australia, Canada, the United Kingdom and other European countries. This practice serves as a natural hedge to finance the local currency expenses incurred in those locations. We have not entered into any foreign currency hedging transactions. We do not purchase or hold any derivative financial instruments for the purpose of speculation or arbitrage.

The primary objective of our cash investment policy is to preserve principal without significantly increasing risk. Based on our cash investments and interest rates on these investments at September 30, 2017, and if we maintained this level of similar cash investments for a period of one year, a hypothetical ten percent increase or decrease in effective interest rates would increase or decrease interest income by less than \$0.1 million annually.

We had approximately \$703.4 million of debt outstanding at September 30, 2017 with \$300.0 million in Senior Notes and \$403.4 million outstanding under our Credit Facility. Our Senior Notes are fixed-rate long-term debt obligations with a 6.375% interest rate. Our Credit Facility has a floating rate which was 2.99% at September 30, 2017. The potential increase (decrease) in interest expense for the Credit Facility from a hypothetical ten percent increase (decrease) in effective interest rates would be approximately \$1.2 million.

Item 4. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Our management, under the supervision of and with the participation of the Chief Executive Officer and Chief Financial Officer, performed an evaluation of the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, as of the end of the period covered by this report, September 30, 2017. Based on that evaluation, the Company's Chief Executive Officer and Chief Financial Officer have concluded that the Company's disclosure controls and procedures are effective as of September 30, 2017.

Changes in Internal Control over Financial Reporting

There have been no changes during our quarter ended September 30, 2017 in our internal control over financial reporting (as defined in Rules 13a-15(f) under the Exchange Act) that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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Our management, under the supervision of and with the participation of the Chief Executive Officer and Chief Financial Officer evaluated any change in the Company's internal control over financial reporting (as defined in Rules 13a-15(f) under the Exchange Act) during the Company's quarter ended September 30, 2017, and determined that there were no other changes in the Company's internal control over financial reporting that have materially affected, or are reasonably likely to materially affect the Company's internal control over financial reporting.

PART II – OTHER INFORMATION

Item 1. LEGAL PROCEEDINGS

On September 23, 2015, a jury verdict was returned against ACI Worldwide Corp. ("ACI Corp."), a subsidiary of the Company, for \$43.8 million in connection with counterclaims brought by Baldwin Hackett & Meeks, Inc. ("BHMI") in the District Court of Douglas County, Nebraska. On September 21, 2012, ACI Corp. had sued BHMI for misappropriation of ACI Corp.'s trade secrets. The jury found that ACI Corp. had not met its burden of proof regarding these claims. On March 6, 2013, BHMI asserted counterclaims for breach of a non-disclosure agreement, tortious interference and violation of the Nebraska anti-monopoly statute, all of which were alleged to arise out of ACI Corp.'s filing of its lawsuit. On September 23, 2015, the jury found for BHMI on its counterclaims and awarded \$43.8 million in damages. On January 5, 2016, the court entered a judgment against ACI Corp. for \$43.8 million for damages and \$2.7 million for attorney fees and costs. ACI Corp. disagreed with the verdicts and judgment, and after the trial court denied ACI Corp.'s post-judgment motions, on March 31, 2016, ACI Corp. perfected an appeal of the dismissal of its claims against BHMI and the judgment in favor of BHMI on its counterclaims, and oral arguments were held before the Nebraska Supreme Court on March 3, 2017. On June 9, 2017, the Nebraska Supreme Court affirmed the District Court judgment. The Company recorded expense of \$48.1 million during the nine months ended September 30, 2017, of which \$46.7 million is included in general and administrative expense and \$1.4 million is in interest expense in the accompanying condensed consolidated statement of operations. The Company paid the judgment, including interest, during the nine months ended September 30, 2017.

Item 1A. RISK FACTORS

There have been no material changes to the risk factors disclosed in Item 1A of our Form 10-K for the fiscal year ended December 31, 2016. Additional risks and uncertainties, including risks and uncertainties not presently known to us, or that we currently deem immaterial, could also have an adverse effect on our business, financial condition and/or results of operations.

Item 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Issuer Purchases of Equity Securities

The following table provides information regarding the Company's repurchases of its common stock during the three months ended September 30, 2017:

<u>Period</u>	<u>Total Number of Shares Purchased</u>	<u>Average Price Paid per Share</u>	<u>Total Number of Shares Purchased as Part of Publicly Announced Program</u>	<u>Approximate Dollar Value of Shares that May Yet Be Purchased Under the Program</u>
July 1, 2017 through July 31, 2017	22,429 (1)	\$ 22.37	—	\$ 78,235,000
August 1, 2017 through August 31, 2017	— (1)	—	—	78,235,000
September 1, 2017 through September 30, 2017	1,725 (1)	22.81	—	78,235,000
Total	<u>24,154</u>	<u>\$ 22.40</u>	<u>—</u>	

- (1) Pursuant to our 2005 Incentive Plan, we granted restricted share awards ("RSAs"). Under each arrangement, stock is issued without direct cost to the employee. During the three months ended September 30, 2017, 60,845 shares of the RSAs vested. We withheld 24,154 of those shares to pay the employees' portion of applicable payroll taxes.

In fiscal 2005, we announced that our Board of Directors approved a stock repurchase program authorizing us, from time to time as market and business conditions warrant, to acquire up to \$80.0 million of our common stock, and that we intended to use existing cash and cash equivalents to fund these repurchases. Our Board of Directors approved an increase of \$30.0 million, \$100.0 million, and \$52.1 million to the stock repurchase program in May 2006, March 2007, and February 2012, respectively,

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bringing the total of the approved program to \$262.1 million. On September 13, 2012, our Board of Directors approved the repurchase of up to 7,500,000 shares of our common stock, or up to \$113.0 million, in place of the remaining repurchase amounts previously authorized. In July, 2013 and again on February 24, 2014, our Board of Directors approved an additional \$100.0 million for stock repurchases for a total additional \$200.0 million. Approximately \$78.2 million remains available at September 30, 2017. There is no guarantee as to the exact number of shares that will be repurchased by us. Repurchased shares are returned to the status of authorized but unissued shares of common stock. In March 2005, our Board of Directors approved a plan under Rule 10b5-1 of the Securities Exchange Act of 1934 to facilitate the repurchase of shares of common stock under the existing stock repurchase program. Under our Rule 10b5-1 plan, we have delegated authority over the timing and amount of repurchases to an independent broker who does not have access to inside information about the Company. Rule 10b5-1 allows us, through the independent broker, to purchase shares at times when we ordinarily would not be in the market because of self-imposed trading blackout periods, such as the time immediately preceding the end of the fiscal quarter through a period three business days following our quarterly earnings release.

Item 3. DEFAULTS UPON SENIOR SECURITIES

Not applicable.

Item 4. MINE SAFETY DISCLOSURES

Not applicable.

Item 5. OTHER INFORMATION

Not applicable.

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Item 6. EXHIBITS

The following lists exhibits filed as part of this quarterly report on Form 10-Q:

<u>Exhibit No.</u>	<u>Description</u>
3.01 (1)	2017 Restated Certificate of Incorporation of the Company
3.02 (2)	Amended and Restated Bylaws of the Company
4.01 (3)	Form of Common Stock Certificate (P)
31.01	Certification of Principal Executive Officer pursuant to SEC Rule 13a-14, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31.02	Certification of Principal Financial Officer pursuant to SEC Rule 13a-14, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32.01*	Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
32.02*	Certification of Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema
101.CAL	XBRL Taxonomy Extension Calculation Linkbase
101.LAB	XBRL Taxonomy Extension Label Linkbase
101.PRE	XBRL Taxonomy Extension Presentation Linkbase
101.DEF	XBRL Taxonomy Extension Definition Linkbase

* This certification is not deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that section. Such certification 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 that the Company specifically incorporates it by reference.

- (1) Incorporated herein by reference to Exhibit 3.1 to the registrant’s current report on Form 8-K filed August 17, 2017.
- (2) Incorporated herein by reference to Exhibit 3.1 to the registrant’s current report on Form 8-K filed February 27, 2017.
- (3) Incorporated herein by reference to Exhibit 4.01 to the registrant’s Registration Statement No. 33-88292 on Form S-1.
- (P) Paper exhibit

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER

I, Philip G. Heasley, certify that:

1. I have reviewed this quarterly report on Form 10-Q of ACI Worldwide, 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: November 2, 2017

/s/ PHILIP G. HEASLEY

Philip G. Heasley
President, Chief Executive Officer
and Director
(Principal Executive Officer)

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER

I, Scott W. Behrens, certify that:

1. I have reviewed this quarterly report on Form 10-Q of ACI Worldwide, 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: November 2, 2017

/s/ SCOTT W. BEHRENS

Scott W. Behrens
*Senior Executive Vice President, Chief Financial Officer and Chief
Accounting Officer
(Principal Financial Officer)*

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER 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 quarterly report of ACI Worldwide, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2017 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Philip G. Heasley, Principal Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- 1) The Report fully complies with the requirements of Sections 13(a) or 15(d) 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.

Date: November 2, 2017

/s/ PHILIP G. HEASLEY

Philip G. Heasley
*President, Chief Executive Officer
and Director
(Principal Executive Officer)*

**CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER 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 quarterly report of ACI Worldwide, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2017 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Scott W. Behrens, Principal Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- 1) The Report fully complies with the requirements of Sections 13(a) or 15(d) 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.

Date: November 2, 2017

/s/ SCOTT W. BEHRENS

Scott W. Behrens
*Senior Executive Vice President, Chief Financial Officer and Chief
Accounting Officer
(Principal Financial Officer)*