

**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 October 31, 2020

OR

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

For the transition period from to .

Commission file number: 001-35394

Guidewire Software, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
Incorporation or organization)
2850 S. Delaware St., Suite 400
San Mateo, California
(Address of principal executive offices)

36-4468504
(I.R.S. Employer
Identification No.)
94403
(Zip Code)

(650) 357-9100
(Registrant's telephone number, including area code)

N/A
(Former name, former address and former fiscal year, if changed since last report)

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value	GWRE	New York Stock Exchange

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

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

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

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Large accelerated filer
Non-accelerated filer

Accelerated filer
Smaller reporting company
Emerging growth company

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

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

On November 30, 2020, the registrant had 83,754,179 shares of common stock issued and outstanding.

Guidewire Software, Inc.

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FORWARD-LOOKING STATEMENTS

The section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations” as well as other parts of this Quarterly Report on Form 10-Q and certain information incorporated herein by reference contain forward-looking statements within the meaning of the Securities Act of 1933 and the Securities Exchange Act of 1934, which are subject to risks and uncertainties. The forward-looking statements may include statements concerning, among other things, our business strategy (including anticipated trends and developments in, and management plans for, our business and the markets in which we operate), financial results, results of operations, revenue, gross margins, operating expenses, products, projected costs and capital expenditures, research and development programs, sales and marketing initiatives, and competition. In some cases, you can identify these statements by forward-looking words, such as “will,” “may,” “might,” “should,” “could,” “estimate,” “expect,” “suggest,” “believe,” “anticipate,” “intend,” “plan,” and “continue,” the negative or plural of these words and other comparable terminology. Actual events or results may differ materially from those expressed or implied by these statements due to various factors, including but not limited to the matters discussed below, in the section titled “Part II - Other Information - Item 1A. Risk Factors,” and elsewhere in this Quarterly Report on Form 10-Q. Many of the forward-looking statements are located in “Management’s Discussion and Analysis of Financial Condition and Results of Operations.” Examples of forward-looking statements include statements regarding:

- growth prospects of the property & casualty (“P&C”) insurance industry and our company;
- the developing market for subscription services and uncertainties attendant on emerging sales and delivery models, including the migration of our existing term license customers to subscription services;
- trends in and timing of future sales, including the mix between license and subscription revenue and seasonality;
- our competitive environment and changes thereto;
- competitive attributes of our software applications and delivery models;
- the timing and number of professional services engagements and the billing rates and utilization of our professional services employees and contractors;
- challenges to further increase sales both in the United States and internationally;
- our research and development and cloud operations investment and efforts;
- expenses to be incurred, and benefits to be achieved, from our acquisitions;
- our gross and operating margins and factors that affect such margins, including costs related to operating, securing and enhancing our subscription services;
- our provision for tax liabilities, judgments related to revenue recognition, and other critical accounting estimates;
- the timing and amount of any share repurchases by us;
- the impact of new regulations and laws, including tax laws and accounting standards;
- our exposure to market risks, including geographical and political events that may negatively impact our customers, partners, and vendors or our business operations;
- the effect of uncertainties related to the global COVID-19 pandemic and U.S. presidential election on U.S. and global economies, our business, our employees, results of operations, financial condition, demand for our products, sales and implementation cycles, and the health of our customers' and partners' businesses;
- our ability to successfully defend litigation brought against us; and
- our ability to satisfy future liquidity requirements.

Forward-looking statements are not guarantees of future performance and involve risks and uncertainties. The forward-looking statements contained in this Quarterly Report on Form 10-Q are based on information available to us as of the filing date of this Quarterly Report on Form 10-Q and our current expectations about future events, which are inherently subject to change and involve risks and uncertainties. You should not place undue reliance on these forward-looking statements.

We do not undertake any obligation to update any forward-looking statements in this report or in any of our other communications, except as required by law. All such forward-looking statements should be read as of the time the statements were made and with the recognition that these forward-looking statements may not be complete or accurate at a later date.

Unless the context requires otherwise, we are referring to Guidewire Software, Inc. together with its subsidiaries when we use the terms “Guidewire,” the “Company,” “we,” “our,” or “us.”

PART I – Financial Information

ITEM 1. Financial Statements (unaudited)

GUIDEWIRE SOFTWARE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS
(unaudited, in thousands)

	<u>October 31,</u> <u>2020</u>	<u>July 31,</u> <u>2020</u>
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$ 293,836	\$ 366,969
Short-term investments	856,376	766,527
Accounts receivable, net of allowances of \$1,233 and \$1,276, respectively	78,295	114,242
Unbilled accounts receivable, net	74,837	49,491
Prepaid expenses and other current assets	45,751	45,989
Total current assets	<u>1,349,095</u>	<u>1,343,218</u>
Long-term investments	254,954	300,771
Unbilled accounts receivable, net	34,605	34,737
Property and equipment, net	67,416	65,235
Operating lease assets	108,378	103,797
Intangible assets, net	33,385	39,708
Goodwill	340,877	340,877
Deferred tax assets, net	113,735	101,565
Other assets	36,512	34,944
TOTAL ASSETS	<u><u>\$ 2,338,957</u></u>	<u><u>\$ 2,364,852</u></u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$ 21,855	\$ 22,634
Accrued employee compensation	45,000	58,547
Deferred revenue, net	95,930	118,311
Other current liabilities	22,838	25,706
Total current liabilities	<u>185,623</u>	<u>225,198</u>
Lease liabilities	125,536	119,408
Convertible senior notes, net	333,543	330,208
Deferred revenue, net	13,420	14,685
Other liabilities	20,974	18,585
Total liabilities	<u>679,096</u>	<u>708,084</u>
STOCKHOLDERS' EQUITY:		
Common stock	8	8
Additional paid-in capital	1,529,160	1,499,050
Accumulated other comprehensive income (loss)	(7,073)	(5,246)
Retained earnings	137,766	162,956
Total stockholders' equity	<u>1,659,861</u>	<u>1,656,768</u>
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	<u><u>\$ 2,338,957</u></u>	<u><u>\$ 2,364,852</u></u>

See accompanying Notes to Condensed Consolidated Financial Statements.

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

	Three Months Ended October 31,	
	2020	2019
Revenue:		
Subscription and support	\$ 57,966	\$ 49,031
License	65,283	54,363
Services	46,553	53,616
Total revenue	<u>169,802</u>	<u>157,010</u>
Cost of revenue:		
Subscription and support	37,006	24,933
License	2,937	2,557
Services	51,024	53,366
Total cost of revenue	<u>90,967</u>	<u>80,856</u>
Gross profit:		
Subscription and support	20,960	24,098
License	62,346	51,806
Services	(4,471)	250
Total gross profit	<u>78,835</u>	<u>76,154</u>
Operating expenses:		
Research and development	52,615	46,496
Sales and marketing	36,644	33,016
General and administrative	21,180	21,239
Total operating expenses	<u>110,439</u>	<u>100,751</u>
Income (loss) from operations	<u>(31,604)</u>	<u>(24,597)</u>
Interest income	2,789	7,636
Interest expense	(4,620)	(4,429)
Other income (expense), net	2,568	(251)
Income (loss) before provision for (benefit from) income taxes	<u>(30,867)</u>	<u>(21,641)</u>
Provision for (benefit from) income taxes	(10,677)	(6,650)
Net income (loss)	<u>\$ (20,190)</u>	<u>\$ (14,991)</u>
Net income (loss) per share:		
Basic	<u>\$ (0.24)</u>	<u>\$ (0.18)</u>
Diluted	<u>\$ (0.24)</u>	<u>\$ (0.18)</u>
Shares used in computing net income (loss) per share:		
Basic	<u>83,613,287</u>	<u>82,360,891</u>
Diluted	<u>83,613,287</u>	<u>82,360,891</u>

See accompanying Notes to Condensed Consolidated Financial Statements.

GUIDEWIRE SOFTWARE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)
(unaudited, in thousands)

	Three Months Ended October	
	31,	
	2020	2019
Net income (loss)	\$ (20,190)	\$ (14,991)
Other comprehensive income (loss):		
Foreign currency translation adjustments	(694)	133
Unrealized gains (losses) on available-for-sale securities	(1,839)	1,331
Tax benefit (expense) on unrealized gains (losses) on available-for-sale securities	359	(328)
Reclassification adjustment for realized gains (losses) included in net income (loss)	347	46
Total other comprehensive income (loss)	(1,827)	1,182
Comprehensive income (loss)	<u>\$ (22,017)</u>	<u>\$ (13,809)</u>

See accompanying Notes to Condensed Consolidated Financial Statements

GUIDEWIRE SOFTWARE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY
(unaudited, in thousands except share amounts)

	Common stock		Additional paid-in capital	Accumulated other comprehensive income (loss)	Retained Earnings	Total Stockholders' Equity
	Shares	Amount				
Balance as of July 31, 2020	83,461,925	\$ 8	\$ 1,499,050	\$ (5,246)	\$ 162,956	\$ 1,656,768
Net income (loss)	—	—	—	—	(20,190)	(20,190)
Issuance of common stock upon exercise of stock options	39,169	—	1,716	—	—	1,716
Issuance of common stock upon vesting of Restricted Stock Units ("RSUs")	339,759	—	—	—	—	—
Stock-based compensation	—	—	28,394	—	—	28,394
Repurchase and retirement of common stock	(48,997)	—	—	—	(5,000)	(5,000)
Foreign currency translation adjustment	—	—	—	(694)	—	(694)
Unrealized gain (loss) on available-for-sale securities, net of tax	—	—	—	(1,480)	—	(1,480)
Reclassification adjustment for realized gain (loss) on available-for-sale securities, included in net income (loss)	—	—	—	347	—	347
Balance as of October 31, 2020	83,791,856	\$ 8	\$ 1,529,160	\$ (7,073)	\$ 137,766	\$ 1,659,861

	Common stock		Additional paid-in capital	Accumulated other comprehensive income (loss)	Retained Earnings	Total Stockholders' Equity
	Shares	Amount				
Balance as of July 31, 2019	82,140,883	\$ 8	\$ 1,391,904	\$ (7,758)	\$ 190,047	\$ 1,574,201
Net income (loss)	—	—	—	—	(14,991)	(14,991)
Issuance of common stock upon exercise of stock options	21,698	—	368	—	—	368
Issuance of common stock upon vesting of RSUs	411,825	—	—	—	—	—
Stock-based compensation	—	—	24,765	—	—	24,765
Foreign currency translation adjustment	—	—	—	133	—	133
Unrealized gain (loss) on available-for-sale securities, net of tax	—	—	—	1,003	—	1,003
Reclassification adjustment for realized gain (loss) on available-for-sale securities, included in net income (loss)	—	—	—	46	—	46
Adoption of Accounting Standards Update ("ASU") 2018-02	—	—	—	(107)	107	—
Balance as of October 31, 2019	82,574,406	\$ 8	\$ 1,417,037	\$ (6,683)	\$ 175,163	\$ 1,585,525

See accompanying Notes to Condensed Consolidated Financial Statements.

GUIDEWIRE SOFTWARE, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(unaudited, in thousands)

	Three Months Ended October 31,	
	2020	2019
CASH FLOWS FROM OPERATING ACTIVITIES:		
Net income (loss)	\$ (20,190)	\$ (14,991)
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities:		
Depreciation and amortization	10,537	10,886
Amortization of debt discount and issuance costs	3,335	3,156
Stock-based compensation	28,084	24,558
Changes to bad debt and revenue reserves	(43)	357
Deferred income tax	(11,827)	(7,375)
Amortization of premium (accretion of discount) on available-for-sale securities, net	1,390	(1,360)
Other non-cash items affecting net income (loss)	(10)	—
Changes in operating assets and liabilities:		
Accounts receivable	35,924	58,567
Unbilled accounts receivable	(25,214)	(23,103)
Prepaid expenses and other assets	313	(1,446)
Operating lease assets	(4,581)	2,340
Accounts payable	(2,198)	(3,009)
Accrued employee compensation	(13,513)	(39,780)
Deferred revenue	(23,646)	(24,709)
Lease liabilities	6,772	285
Other liabilities	(840)	(2,514)
Net cash provided by (used in) operating activities	<u>(15,707)</u>	<u>(18,138)</u>
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchases of available-for-sale securities	(346,405)	(406,762)
Sales of available-for-sale securities	57,903	57,054
Maturities of available-for-sale securities	241,591	303,183
Purchases of property and equipment	(1,907)	(9,625)
Capitalized software development costs	(2,581)	(1,346)
Acquisition of strategic investments	(2,000)	—
Net cash provided by (used in) investing activities	<u>(53,399)</u>	<u>(57,496)</u>
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from issuance of common stock upon exercise of stock options	1,716	368
Repurchase and retirement of common stock	(5,000)	—
Net cash provided by (used in) financing activities	<u>(3,284)</u>	<u>368</u>
Effect of foreign exchange rate changes on cash and cash equivalents	(743)	254
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	(73,133)	(75,012)
CASH AND CASH EQUIVALENTS—Beginning of period	366,969	254,101
CASH AND CASH EQUIVALENTS—End of period	<u>\$ 293,836</u>	<u>\$ 179,089</u>
SUPPLEMENTAL DISCLOSURES OF CASH FLOW INFORMATION:		
Cash paid for interest	\$ 2,500	\$ 2,500
Cash paid for income taxes, net of tax refunds	\$ 990	\$ 1,061
Accruals for purchase of property and equipment	\$ 343	\$ 5,167
Accruals for capitalized software costs	\$ 112	\$ 95

See accompanying Notes to Condensed Consolidated Financial Statements.

GUIDEWIRE SOFTWARE, INC. AND SUBSIDIARIES
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

1. The Company and Summary of Significant Accounting Policies and Estimates

Company

Guidewire Software, Inc., a Delaware corporation, was incorporated on September 20, 2001. Guidewire Software, Inc., together with its subsidiaries (the "Company"), provides a technology platform, which combines core operations, digital engagement, analytics, and artificial intelligence ("AI") applications. The Company's technology platform supports core insurance operations, including underwriting and policy administration, claim management and billing; insights into data that can improve business decision making; and digital sales, service and claims experiences for policyholders, agents, and other key stakeholders. The Company's customers are primarily property and casualty insurance carriers.

Basis of Presentation and Consolidation

The condensed consolidated financial statements and accompanying notes include the Company and its wholly-owned subsidiaries and reflect all adjustments (all of which are normal and recurring in nature) that, in the opinion of management, are necessary for a fair presentation of the interim periods presented. All intercompany balances and transactions have been eliminated in consolidation. Certain information and disclosures normally included in annual financial statements prepared in accordance with generally accepted accounting principles in the United States of America ("GAAP") have been condensed or omitted under the rules and regulations of the U.S. Securities and Exchange Commission ("SEC").

These condensed consolidated financial statements should be read in conjunction with the Company's financial statements and related notes, together with management's discussion and analysis of financial condition and results of operations, presented in the Company's Annual Report on Form 10-K for the fiscal year ended July 31, 2020. There have been no changes in the Company's significant accounting policies from those that were disclosed in the Company's consolidated financial statements included in the Company's Annual Report on Form 10-K.

Reclassification

Beginning with the Annual Report on Form 10-K for fiscal year 2020, the Company changed the presentation in the consolidated statements of operations for revenue and cost of revenue to include subtotals for "subscription and support," "license," and "services". The Company's previous presentation included subtotals for "license and subscription," "maintenance" (now referred to as "support"), and "services". Accordingly, prior period amounts have been reclassified to conform to the current period presentation in the Company's condensed consolidated financial statements and the accompanying notes.

Use of Estimates

The preparation of the accompanying condensed consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions about future events that affect the amounts of assets and liabilities reported, disclosures about contingent assets and liabilities, and reported amounts of revenue and expenses. Significant items subject to such estimates include, but are not limited to, revenue recognition, the useful lives of property and equipment and intangible assets, accounts receivable allowances, valuation allowance for deferred tax assets, stock-based compensation, annual bonus attainment, income tax uncertainties, fair value of convertible senior notes and investments, valuation of goodwill and intangible assets, fair value of acquired assets and assumed liabilities, software development costs to be capitalized, and contingencies. These estimates and assumptions are based on management's best estimates and judgment. Management regularly evaluates its estimates and assumptions using historical experience and other factors; however, actual results could differ from these estimates.

Foreign Currency

The functional currency of the Company's foreign subsidiaries is their respective local currency. The Company translates all assets and liabilities of foreign subsidiaries to U.S. dollars at the current exchange rate as of the applicable balance sheet date. Revenue and expenses are translated at the average exchange rate prevailing during the period in which the transactions occur. The effects of foreign currency translations are recorded in accumulated other comprehensive income (loss) as a separate component of stockholders' equity in the accompanying condensed consolidated balance sheets. Transaction gains and losses that arise from exchange rate fluctuations on transactions denominated in a currency other than the functional currency of the recording entity are included in other income (expense) in the condensed consolidated statements of operations.

Cash and Cash Equivalents

Cash and cash equivalents are comprised of cash and highly liquid investments with remaining maturities of 90 days or less at the date of purchase. Cash equivalents primarily consist of commercial paper and money market funds.

Investments

Management determines the appropriate classification of investments at the time of purchase based upon management's intent with regard to such investments. All investments in the periods presented have been classified as available-for-sale.

The Company classifies investments as short-term when they have remaining contractual maturities of one year or less from the balance sheet date, and as long-term when the investments have remaining contractual maturities of more than one year from the balance sheet date. Investments are recorded at fair value with unrealized gains and losses, net of taxes, generally included in accumulated other comprehensive income (loss). Unrealized losses that are related to the credit worthiness of an investment are recorded in other income (expense), net on the condensed consolidated statements of operations.

Property and Equipment

Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation is calculated on a straight-line basis over the estimated useful lives of the assets. Maintenance and repairs that do not extend the life or improve an asset are expensed in the period incurred.

The estimated useful lives of property and equipment are as follows:

Computer hardware	3 years
Purchased software	3 years
Equipment and machinery	3 to 5 years
Furniture and fixtures	5 years
Leasehold improvements	Shorter of 10 years or remaining lease term

Software Development Costs

Certain development costs related to software delivered to customers ("self-managed software") incurred subsequent to the establishment of technological feasibility are subject to capitalization and amortized over the estimated lives of the related products. Technological feasibility is established upon completion of a working model. Costs incurred subsequent to the establishment of technological feasibility have not been material and, therefore, all software development costs related to self-managed software have been charged to research and development expense in the condensed consolidated statements of operations as incurred.

For qualifying costs incurred for computer software developed for internal use, which includes software used to deliver subscription services exclusively through the cloud, the Company begins to capitalize costs when preliminary development efforts are successfully completed, management has authorized and committed project funding, it is probable that the project will be completed, and the software will be used as intended. If any of these criteria cease being met before the software reaches its intended use, any capitalized costs related to the project will be impaired. When the software reaches its intended use, capitalized costs are amortized to cost of revenue over the estimated useful lives of the related assets, generally estimated to be three to five years. Costs incurred prior to meeting these capitalization criteria and costs incurred for training and maintenance are expensed as incurred and recorded in research and development expense in the condensed consolidated statements of operations. Capitalized software development costs are recorded in property and equipment in the condensed consolidated balance sheets.

Leases

On August 1, 2019, the Company adopted the Financial Accounting Standards Board (“FASB”) Accounting Standards Codification Topic 842: Leases (“ASC 842”) using the modified retrospective transition approach by applying the new standard to all leases existing at the date of initial application. Under ASC 842, the Company determines if an arrangement is a lease at inception of the agreement. If an arrangement is determined to be a lease, an operating lease asset, also known as a right-of-use asset, and lease liability are recorded based on the present value of lease payments over the lease term. In connection with determining the present value of the lease payments, the Company considers only payments that are fixed and determinable at the time of commencement, including non-lease components that are fixed throughout the lease term. Variable components of the lease payments such as utilities and maintenance costs, are expensed as incurred and not included in determining the present value of the lease liability. As the Company's leases generally do not provide an implicit rate, the Company's incremental borrowing rate, calculated based on available information at the lease commencement date, is used in determining the present value of the lease payments. The Company's incremental borrowing rate is a hypothetical rate based on the Company's understanding of its credit rating. The Company's lease term used to calculate the lease liability and operating lease asset includes options to extend or terminate the lease if it is reasonably certain the Company will exercise that option. Operating lease assets also include any lease payments made prior to commencement and are recorded net of any lease incentives received. Lease expense is recognized on a straight-line basis over the lease term and is reflected in the condensed consolidated statements of operations in each of the cost of revenue and operating expense categories.

The Company also enters into agreements to sublease unoccupied office space. Any sublease payments received in excess of the straight-line rent expense related to the subleased space are recorded as an offset to operating expenses over the sublease term.

Operating leases are included in operating lease assets, other current liabilities, and lease liabilities on the condensed consolidated balance sheets.

Impairment of Long-Lived Assets, Intangible Assets, and Goodwill

The Company evaluates its long-lived assets, consisting of property and equipment, operating lease assets, and intangible assets for indicators of possible impairment when events or changes in circumstances indicate that the carrying amount of certain assets may not be recoverable. Impairment exists if the carrying amount of such assets exceed the estimates of future net undiscounted cash flows expected to be generated by such assets. Should impairment exist, the impairment loss would be measured based on the excess carrying amount of the assets over the estimated fair value of the assets.

The Company tests goodwill for impairment annually, during the fourth quarter of each fiscal year, and in the interim whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. The Company evaluates qualitative factors to determine whether it is more likely than not that the fair value of the Company's single reporting unit is less than its carrying amount as a basis for determining whether it is necessary to perform the two-step goodwill impairment test. In performing the qualitative assessment, the Company considers events and circumstances, including, but not limited to, macroeconomic conditions, industry and market considerations, cost factors, overall financial performance, changes in management or key personnel, changes in strategy, changes in customers, changes in the composition or carrying amount of a reporting unit's net assets, and changes in the price of the Company's common stock. If, after assessing the totality of events or circumstances, the Company determines that it is more likely than not that the fair value of a reporting unit is greater than its carrying amount, then the two-step goodwill impairment test is not performed. There have been no goodwill impairments during the periods presented.

Convertible Senior Notes

In March 2018, the Company issued \$400.0 million aggregate principal amount of 1.25% Convertible Senior Notes due 2025 (the “Convertible Senior Notes”). The Company accounts for the liability and equity components of the issued Convertible Senior Notes separately. The carrying amount of the equity component, representing the conversion option, was determined by deducting the fair value of the liability component from the par value of the Convertible Senior Notes as a whole. This difference represents a debt discount that is amortized to interest expense using the effective interest method over the term of the Convertible Senior Notes. The carrying amount of the liability component was calculated by measuring the fair value of a similar liability that does not have an associated convertible feature. The liability and equity components will not be remeasured as long as the conversion option continues to meet the requirements for equity classification. The equity component is net of issuance costs and recorded in additional paid-in capital.

Business Combinations

The Company uses its best estimates and assumptions to assign fair value to the tangible and intangible assets acquired and liabilities assumed at the acquisition date. Goodwill is calculated as the difference between the acquisition date fair value of the consideration transferred and the values assigned to the assets acquired and liabilities assumed. The Company's estimates of fair value are based upon assumptions believed to be reasonable, but which are inherently uncertain and subject to refinement and, as a result, actual results may differ from estimates. During the measurement period, which may be up to one year from the acquisition date, if new information is obtained about facts and circumstances that existed as of the acquisition date, the Company may record adjustments to the fair value of these assets and liabilities, with the corresponding offset to goodwill. Upon the conclusion of the measurement period or final determination of the fair value of assets acquired and liabilities assumed, whichever comes first, subsequent adjustments, if any, are recorded in the condensed consolidated statements of operations.

Concentration of Credit Risk

Financial instruments that potentially subject the Company to concentrations of credit risk consist of cash, cash equivalents, investments, accounts receivable and unbilled accounts receivable. The Company maintains its cash, cash equivalents, and investments with high quality financial institutions. The Company is exposed to credit risk for cash held in financial institutions in the event of a default to the extent that such amounts recorded in the condensed consolidated balance sheets are in excess of amounts that are insured by the Federal Deposit Insurance Corporation.

One customer accounted for 10% or more of the Company's revenue for the three months ended October 31, 2020, and no customer accounted for 10% or more of the Company's revenue for the three months ended October 31, 2019. One customer accounted for 10% or more of the Company's accounts receivable as of October 31, 2020, and no customer accounted for 10% or more of the Company's accounts receivable as of July 31, 2020.

Accounts Receivable and Allowances

Accounts receivable are recorded at invoiced amounts and do not bear interest. While the Company does not require collateral, the Company performs ongoing credit evaluations of its customers. The Company maintains an allowance for credit losses based upon the expected collectability of its accounts receivable. The expectation of collectability is based on historical loss patterns, the number of days that billings are past due, and an evaluation of the potential risk of loss associated with delinquent accounts. Credit losses are recorded in general and administrative expense while billing and other revenue adjustments are recorded against the corresponding revenue financial statement line item in the condensed consolidated statements of operations.

Revenue Recognition

The Company's revenue is derived from contracts with customers. The majority of the Company's revenue is derived from subscriptions to its cloud services, licensing arrangements for its software, and implementation and other professional services arrangements. The Company accounts for revenue in accordance with Accounting Standards Codification 606, Revenue from Contracts with Customers ("ASC 606"), which the Company adopted on August 1, 2018.

The core principle of ASC 606 is to recognize revenue upon the transfer of services or products to customers in an amount that reflects the consideration the Company expects to be entitled to in exchange for those services or products. The Company applies the following framework to recognize revenue:

Identification of the contract, or contracts, with the customer

The Company considers the terms and conditions of written contracts and its customary business practices in identifying its contracts under ASC 606. The Company determines it has a contract with a customer when the contract is approved, the Company can identify each party's rights regarding the services and products to be transferred, the Company can identify the payment terms for the services and products, the Company has determined that the customer has the ability and intent to pay, and the contract has commercial substance. In general, contract terms will be reflected in a written document that is signed by both parties. At contract inception, the Company evaluates whether two or more contracts should be combined and accounted for as a single contract. The Company also evaluates the customer's ability and intent to pay, which is based on a variety of factors, including the customer's historical payment experience or, in the case of a new customer, credit and financial information pertaining to the customer.

Contracts may be modified to account for changes in contract scope or price. The Company considers contract modifications to exist when the modification either creates new rights or obligations or changes the existing enforceable rights and obligations of either party. Contract modifications for services and products that are distinct from the existing contract and

are priced commensurate with their standalone selling price are treated as separate contracts, and are accounted for prospectively. Contract modifications for services and products that are distinct but are not priced commensurate with their standalone selling price or are not distinct from the existing contract may affect the initial transaction price or the allocation of the transaction price to the performance obligations in the contract. In such cases, revenue recognized may be adjusted.

Identification of the performance obligation in the contract

Performance obligations promised in a contract are identified based on the services or products that will be transferred to the customer that are both:

- i. capable of being distinct, whereby the customer can benefit from the service or product either on its own or together with other resources that are readily available from the Company or third parties, and
- ii. distinct in the context of the contract, whereby the transfer of the service or product is separately identifiable from other promises in the contract.

To the extent a contract includes multiple promised services or products, the Company applies judgment to determine whether promised services or products are capable of being distinct and distinct in the context of the contract. If these criteria are not met, the promised services or products are accounted for as a combined performance obligation.

The Company generates revenue from the following sources, which generally represent the performance obligations of the Company:

- i. Subscription services related to the Company's Software-as-a-Service ("SaaS") offerings, including hosting;
- ii. Support activities that consist of email and phone support, bug fixes, and unspecified software updates and upgrades released when, and if, available during the support term;
- iii. Self-managed software licenses related to term or perpetual agreements; and
- iv. Services related to the implementation and configuration of the Company's services and products, reimbursable travel, and training.

Subscriptions are typically sold with a three-to-five year initial term with a customer option to renew on an annual basis after the initial term. Term licenses generally have a two-year initial term with a customer option to renew on an annual basis after the initial term. In certain circumstances, the Company will enter into term licenses with an initial term of more than two years or a renewal period longer than one year. Support for term licenses follows the same contract periods. Professional services typically are time and materials contracts that last for an average period of approximately one year.

Determination of the transaction price

The transaction price is determined based on the consideration to which the Company expects to be entitled in exchange for transferring services and products to the customer. Consideration may vary due to discounts, incentives, and potential service level credits or contractual penalties. Variable consideration is estimated and included in the transaction price if, in the Company's judgment, it is probable that there will not be a significant future reversal of cumulative revenue under the contract.

Self-managed software licenses and subscription services may be subject to either fixed or variable installments. Variable installments are generally subject to changes in a customer's Direct Written Premium ("DWP") or a customer's Gross Written Premium ("GWP"). When consideration is subject to variable installments, the Company estimates variable consideration using the expected value method based on historical DWP or GWP usage to the extent that a significant revenue reversal is not probable to occur. When consideration is subject to a customer termination right, the Company estimates the total transaction price using the most likely method, and defers consideration associated with the customer's termination right until it expires.

The Company elected the practical expedient to evaluate whether a significant financing component exists when the contract term is greater than one year and the timing of revenue recognition occurs in advance of invoicing. This timing difference occurs when control of the software license is transferred at a point in time, usually at the contract onset, but the customer payments occur over time. A significant financing component generally does not exist under the Company's standard contracting and billing practices. For example, the Company's typical time-based licenses have a two-year initial term with the final payment due at the end of the first year and the Company's typical subscription services are generally billed in advance of providing the services.

Allocation of the transaction price to the performance obligations in the contract

If the contract contains a single performance obligation, the entire transaction price is allocated to the single performance obligation. Contracts that contain multiple performance obligations require an allocation of the transaction price to each performance obligation based on its standalone selling price (“SSP”) in relation to the total fair value of all performance obligations in the arrangement. The majority of the Company’s contracts contain multiple performance obligations, such as when licenses are sold with support, implementation services or training services. Additionally, as customers transition to subscription services, customers may be under contract for both self-managed licenses and subscription services for a period of time, which may require an allocation of the transaction price to each performance obligation. Some of the Company’s performance obligations, such as support, implementation services, and training services, have observable inputs that are used to determine the SSP of those distinct performance obligations. Where SSP is not directly observable, the Company determines the SSP using information that may include market conditions and other observable inputs. In the circumstances when available information to determine SSP is highly variable or uncertain, such as for our term licenses, the Company will use the residual method.

Recognition of revenue when, or as, the Company satisfies a performance obligation

The Company recognizes revenue when control of the services or products are transferred to a customer, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those services or products. The Company is principally responsible for the satisfaction of its distinct performance obligations, which are satisfied either at a point in time or over a period of time.

Performance obligations satisfied at a point in time

Self-managed software licenses

Self-managed term and perpetual software licenses comprise the majority of distinct performance obligations that are satisfied at a point in time. Revenue is recognized at the point in which the self-managed software licenses are made available to a customer. Consideration for self-managed software licenses is typically billed in advance on an annual basis over the license term.

Performance obligations satisfied over a period of time

Subscriptions, support activities, and professional service arrangements comprise the majority of distinct performance obligations that are satisfied over a period of time.

Subscription arrangements

Revenue from subscription arrangements is recognized ratably over the subscription period using a time-based measure of progress as customers receive the benefits from their subscriptions over the contractually agreed-upon term. The Company’s subscription arrangements are generally three to five years in duration. Consideration from subscription arrangements is typically billed in advance on an annual basis over the contract period.

Support activities

Revenue from support activities associated with self-managed licenses is a stand-ready obligation, which is recognized over the contractually agreed-upon term using a time-based measure of progress as customers receive benefits from the availability of support technicians over the support period. Consideration for support activities is typically billed in advance on an annual basis. The Company’s support activities are consistently priced as a percentage of the associated self-managed software license.

Services

Revenue from professional service arrangements is recognized over the service period as the underlying services are performed.

In substantially all of the Company’s professional service contracts, services are separately identifiable performance obligations for which related revenue and costs are recognized according to when each service obligation is delivered. Substantially all professional services engagements are billed and recognized on a time and materials basis. In select situations, the Company will contract professional services on a fixed fee basis, where the Company generally recognizes services revenue over time, using an input method. The measure of progress of the professional services being provided under these fixed fee arrangements is based on hours incurred compared to estimates of the total hours to complete the performance obligation.

When professional services are sold with a self-managed license or subscription arrangement, the Company evaluates whether the performance obligations are distinct or separately identifiable, or whether they constitute a single performance obligation. In the limited cases where professional services are not considered to be distinct from the self-managed license or subscription services, the Company will recognize revenue based on the nature and term of the combined performance obligation when control of the combined performance obligation is transferred to the customer.

Balance Sheet Presentation

Contracts with customers are reflected in the condensed consolidated balance sheets as follows:

- Accounts receivable, net represents amounts billed to customers in accordance with contract terms for which payment has not yet been received. It is presented net of allowances as part of current assets in the condensed consolidated balance sheets.
- Unbilled accounts receivable, net represents amounts that are unbilled due to agreed-upon contractual terms in which billing occurs subsequent to revenue recognition. This situation typically occurs when the Company transfers control of self-managed software licenses to customers up-front, but invoices customers annually over the term of the license. Unbilled accounts receivable is classified as either current or non-current based on the duration of remaining time between the date of the condensed consolidated balance sheets and the anticipated due date of the underlying receivables. Unbilled accounts receivable is evaluated for credit losses based upon the expected collectability of future accounts receivable, customer payment history, global economic conditions, and ongoing credit evaluations of customers. Unbilled accounts receivable is presented net of allowance for credit losses, if applicable, in the condensed consolidated balance sheets. This balance represents contract assets.
- Contract costs include customer acquisition costs, which consist primarily of sales commissions paid to sales personnel and their related payroll taxes and referral fees paid to third-parties, and costs to fulfill a contract, which consist primarily of royalties payable to third-party software providers that support both the Company's software offerings and support services. The short-term portion is presented as prepaid and other current assets. The long-term portion is presented as other assets.
- Deferred costs represent costs related to our professional services that have been deferred to align with revenue recognition. The short-term portion is presented as prepaid and other current assets. The long-term portion is presented as other assets.
- Deferred revenue, net represents amounts that have been invoiced and for which the Company has the right to bill, but that have not been recognized as revenue because the related services or products have not been transferred to the customer. Deferred revenue that will be realized during the 12-month period following the date of the condensed consolidated balance sheets is recorded as current. The remaining deferred revenue is recorded as non-current. This balance represents contract liabilities.

The Company may receive consideration from its customers in advance of performance on a portion of the contract and, on another portion of the contract, perform in advance of receiving consideration. Contract assets and liabilities related to rights and obligations in a contract are interdependent. Therefore, contract assets and liabilities are presented net at the contract level, as either a single contract asset or a single contract liability, in the consolidated balance sheets.

Remaining performance obligations represent contracted revenue that has not yet been recognized, which includes deferred revenue and amounts that will be invoiced and recognized as revenue in future periods. The Company excludes amounts related to professional services contracts that are on a time and materials basis from remaining performance obligations.

Contract Costs

Contract costs consists of two components, customer acquisition costs and costs to fulfill a contract.

Customer acquisition costs are capitalized only if the costs are incrementally incurred to obtain a customer contract and the expected amortization period is greater than one year. Contract costs are classified as either current or non-current based on the duration of time remaining between the date of the condensed consolidated balance sheets and the anticipated amortization date of the associated costs. Capitalized customer acquisition costs related to software licenses, subscriptions, and support services are amortized over the anticipated period of time that such goods and services are expected to be provided to a customer, which the Company estimates to be approximately five years. The amortization of customer acquisition costs is classified as a sales and marketing expense in the condensed consolidated statement of operations.

Costs to fulfill a contract, or fulfillment costs, are only capitalized if they relate directly to a contract with a customer, the costs generate or enhance resources that will be used to satisfy performance obligations in the future, and the costs are expected to be recoverable. Fulfillment costs would be generally amortized over the same period of time as the customer acquisition costs. The amortization of fulfillment costs is classified as a cost of revenue in the condensed consolidated statement of operations.

Warranties

The Company generally provides a warranty for its software products and services to its customers for periods ranging from three to twelve months. The Company's software products are generally warranted to be free of defects in materials and workmanship under normal use and to substantially perform as described in published documentation. The Company's services are generally warranted to be performed in a professional manner and to materially conform to the specifications set forth in the related customer contract. In the event there is a failure of such warranties, the Company generally will correct the problem or provide a reasonable workaround or replacement product. If the Company cannot correct the problem or provide a workaround or replacement product, then the customer's remedy is generally limited to a refund of the fees paid for the nonconforming product or services. Warranty expense has been insignificant to date.

Advertising Costs

Advertising costs are expensed as incurred and amounts incurred were not material during the three months ended October 31, 2020 and 2019.

Stock-Based Compensation

The Company accounts for stock-based compensation using the fair value method, which requires the Company to measure stock-based compensation based on the grant-date fair value of the awards and recognize the compensation expense over the requisite service period. The Company recognizes compensation expense net of actual forfeitures. To date, the Company has granted or assumed stock options, restricted stock awards ("RSAs"), time-based restricted stock units ("RSUs"), performance-based restricted stock units ("PSUs"), and restricted stock units that may be earned subject to the Company's total shareholder return ranking relative to the software companies in the S&P Software and Services Select Industry Index ("S&P Index") over a specified performance period or periods and, in select cases, are subject to certain performance conditions ("TSR PSUs"). RSAs, RSUs, PSUs, and TSR PSUs are collectively referred to as "Stock Awards."

The fair value of the Company's RSAs, RSUs, and PSUs is equal to the market value of the Company's common stock on the date of grant. These awards are subject to time-based vesting, which generally occurs over a period of four years. The Company recognizes compensation expense for awards that contain only service conditions on a straight-line basis over the requisite service period, which is generally the vesting period of the respective awards. The Company recognizes the compensation cost for awards that contain either performance conditions, market conditions, or both using the graded vesting method and a portion of the expense may fluctuate depending on changing estimates of the achievement of the performance conditions.

The fair value of the Company's stock options and TSR PSUs are estimated at the grant date using the Black-Scholes model and Monte Carlo simulation method, respectively. The assumptions utilized under these methods require judgments and estimates. Changes in these inputs and assumptions could affect the measurement of the estimated fair value of the related compensation expense of these stock options and stock awards. Compensation expense associated with TSR PSUs will be recognized over the vesting period regardless of whether the market condition is ultimately satisfied; however, the expense will be reversed if a grantee terminates prior to satisfying the requisite service period. For TSR PSUs containing an additional performance condition, a portion of the expense may fluctuate depending on changing estimates of the achievement of the performance conditions. All TSR PSUs vest at the end of a three-year period.

Income Taxes

Income taxes are accounted for under the asset and liability method. Under this method, the Company determines deferred tax assets and liabilities based on the differences between the financial statement carrying amounts and the tax basis of existing assets and liabilities, using enacted tax rates in effect for the year in which the differences are expected to reverse. All deferred tax assets and liabilities are classified as non-current on the Company's condensed consolidated balance sheets. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. A valuation allowance against deferred tax assets is recorded when it is more likely than not that some portion or all of such deferred tax assets will not be realized and is based on both positive and negative evidence about the future, including future reversals of existing taxable temporary differences, projected future taxable income, tax-planning strategies, and results of recent operations.

The effective tax rate in any given financial statement period may differ materially from the statutory rate. These differences may be caused by changes in tax regulations and resulting changes in the deferred tax valuation allowance; changes in the mix and level of income or losses; changes in the expected outcome of tax audits; permanent differences for stock-based compensation, including excess tax benefits; research and development credits; the tax rate differences between the United States and foreign countries; foreign withholding taxes; certain non-deductible expenses, including executive compensation; acquisition-related expenses; and provisions under the Tax Cuts and Jobs Act (the "Tax Act"), including a provision to tax global intangible low-taxed income of foreign subsidiaries, a special deduction for foreign-derived intangible income, and a base erosion anti-abuse tax that may tax certain payments between a U.S. corporation and its foreign subsidiaries.

The Company records interest and penalties related to unrecognized tax benefits as income tax expense in its condensed consolidated statement of operations.

Recently Adopted Accounting Pronouncements

Intangibles, Goodwill and Other (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement that is a Service Contract

In August 2018, the FASB issued ASU No. 2018-15, Intangibles, Goodwill and Other (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement that is a Service Contract, which requires implementation costs incurred in cloud computing arrangements to be deferred and recognized over the term of the arrangement, if those costs would be capitalized in a software licensing arrangement under the internal-use software guidance in ASC 350-40. On August 1, 2020 the Company adopted this ASU prospectively. The adoption of this standard did not have a material impact on the condensed consolidated financial statements and related disclosures.

Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments

In June 2016, the FASB issued ASU No. 2016-13 (ASU 2016-13), Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments, which requires the measurement and recognition of expected credit losses for financial assets held at amortized cost. ASU 2016-13 replaces the existing incurred loss impairment model with an expected loss model which requires the use of forward-looking information to calculate credit loss estimates. It also eliminates the concept of other-than-temporary impairment and requires credit losses related to available-for-sale debt securities to be recorded through an allowance for credit losses rather than as a reduction in the amortized cost basis of the securities. On August 1, 2020 the Company adopted this ASU using the modified retrospective method. The adoption of this standard did not have a material impact on the condensed consolidated financial statements and related disclosures.

Other recent accounting pronouncements that are applicable to the Company did not, or are not expected to, have a material impact on the Company's present or future financial statements.

2. Revenue

Disaggregation of Revenue

Revenue by revenue type and by geography is as follows (in thousands):

	Three Months Ended October 31, 2020			
	Subscription and support	License	Services	Total
Geography:				
United States	\$ 39,013	\$ 40,977	\$ 32,360	\$ 112,350
Canada	7,142	10,753	1,137	19,032
Other Americas	1,113	235	1,846	3,194
Total Americas	47,268	51,965	35,343	134,576
United Kingdom	2,030	8,299	1,315	11,644
Other EMEA	5,120	803	6,978	12,901
Total EMEA	7,150	9,102	8,293	24,545
Total APAC	3,548	4,216	2,917	10,681
Total revenue	\$ 57,966	\$ 65,283	\$ 46,553	\$ 169,802

	Three Months Ended October 31, 2019			
	Subscription and support	License	Services	Total
Geography:				
United States	\$ 33,646	\$ 27,467	\$ 37,328	\$ 98,441
Canada	4,545	8,990	1,250	14,785
Other Americas	1,085	234	2,169	3,488
Total Americas	39,276	36,691	40,747	116,714
United Kingdom	2,080	5,540	2,314	9,934
Other EMEA	4,341	726	6,049	11,116
Total EMEA	6,421	6,266	8,363	21,050
Total APAC	3,334	11,406	4,506	19,246
Total revenue	\$ 49,031	\$ 54,363	\$ 53,616	\$ 157,010

No country or region, other than those presented above, accounted for more than 10% of revenue during the three months ended October 31, 2020 and 2019.

Revenue by license or service type is as follows (in thousands):

	Three Months Ended October 31,	
	2020	2019
Subscription and Support		
Subscription	\$ 37,230	\$ 28,060
Support	20,736	20,971
License		
Term license	65,225	54,314
Perpetual license	58	49
Services	46,553	53,616
Total revenue	\$ 169,802	\$ 157,010

Customer Contract - Related Balance Sheet Amounts

Amounts related to customer contract-related arrangements are included in the condensed consolidated balance sheets as follows (in thousands):

	October 31, 2020	July 31, 2020
Unbilled accounts receivable, net	\$ 109,442	\$ 84,228
Contract costs, net	33,849	34,809
Deferred revenue, net	109,350	132,996

As of October 31, 2020 and July 31, 2020, there was no allowance for credit losses associated with unbilled accounts receivable.

Contract costs

The current portion of contract costs in the amount of \$10.0 million and \$9.6 million is included in prepaid and other current assets in the Company's condensed consolidated balance sheets as of October 31, 2020 and July 31, 2020, respectively. The non-current portion of contract costs in the amount of \$23.8 million and \$25.2 million is included in other assets in the Company's condensed consolidated balance sheets as of October 31, 2020 and July 31, 2020, respectively. The Company amortized \$2.2 million and \$1.4 million of contract costs during the three months ended October 31, 2020 and 2019, respectively.

Deferred revenue

During the three months ended October 31, 2020, the Company recognized revenue of approximately \$47 million related to the Company's deferred revenue balance reported as of July 31, 2020.

Performance Obligations

The aggregate amount of consideration allocated to performance obligations either not satisfied or partially satisfied was approximately \$539 million as of October 31, 2020. Subscription services are typically satisfied over three to five years, support services are generally satisfied within one year, and professional services are typically satisfied within one year. Professional services under time and material contracts are not included in the performance obligations calculation as these arrangements can be cancelled at any time.

3. Fair Value of Financial Instruments

Available-for-sale investments within cash equivalents and investments consist of the following (in thousands):

	October 31, 2020			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Estimated Fair Value
U.S. Government agency securities	\$ 209,058	\$ 132	\$ (74)	\$ 209,116
Commercial paper	225,521	—	—	225,521
Corporate bonds	446,845	2,297	(12)	449,130
U.S. Government bonds	154,795	339	(8)	155,126
Asset-backed securities	47,369	149	—	47,518
Foreign government bonds	7,474	1	(3)	7,472
Certificates of deposit	73,148	—	—	73,148
Money market funds	173,069	—	—	173,069
Total	\$ 1,337,279	\$ 2,918	\$ (97)	\$ 1,340,100

	July 31, 2020			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Estimated Fair Value
U.S. Government agency securities	\$ 242,153	\$ 202	\$ (81)	\$ 242,274
Commercial paper	222,578	—	—	222,578
Corporate bonds	474,646	3,448	(38)	478,056
U.S. Government bonds	68,332	476	—	68,808
Asset-backed securities	58,564	306	—	58,870
Certificates of deposit	56,296	—	—	56,296
Money market funds	231,063	—	—	231,063
Total	<u>\$ 1,353,632</u>	<u>\$ 4,432</u>	<u>\$ (119)</u>	<u>\$ 1,357,945</u>

The Company does not consider any portion of the unrealized losses at October 31, 2020 to be credit losses. The Company has recorded the securities at fair value in its condensed consolidated balance sheets, with unrealized gains and losses reported as a component of accumulated other comprehensive income (loss). The amount of realized gains and losses reclassified into earnings are based on the specific identification of the securities sold. The realized gains and losses from sales of securities in the periods presented were not material.

The following table summarizes the contractual maturities of the Company's available-for-sale investments measured at fair value (in thousands):

	October 31, 2020		
	Less Than 12 Months	12 Months or Greater	Total
U.S. Government agency securities	\$ 143,491	\$ 65,625	\$ 209,116
Commercial paper	225,521	—	225,521
Corporate bonds	339,403	109,727	449,130
U.S. Government bonds	134,771	20,355	155,126
Asset-backed securities	2,494	45,024	47,518
Foreign government bonds	—	7,472	7,472
Certificates of deposit	67,398	5,750	73,148
Money market funds	173,069	—	173,069
Total	<u>\$ 1,086,147</u>	<u>\$ 253,953</u>	<u>\$ 1,340,100</u>

Fair Value Measurement

Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs.

The Company applies the three-level valuation hierarchy when measuring the fair value of certain assets and liabilities:

Level 1—Unadjusted quoted prices in active markets for identical assets or liabilities;

Level 2—Inputs other than quoted prices included within Level 1 that are observable, unadjusted quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data; and

Level 3—Unobservable inputs that are supported by little or no market activity, which require the Company to develop its own assumptions.

Available-for-sale investments

The following tables summarize the Company's available-for-sale investments measured at fair value, by level within the fair value hierarchy (in thousands):

	October 31, 2020			
	Level 1	Level 2	Level 3	Total
Cash equivalents:				
Commercial paper	\$ —	\$ 41,688	\$ —	\$ 41,688
U.S. Government bonds	—	15,013	—	15,013
Money market funds	173,069	—	—	173,069
Total cash equivalents	173,069	56,701	—	229,770
Short-term investments:				
U.S. Government agency securities	—	143,491	—	143,491
Commercial paper	—	183,833	—	183,833
Corporate bonds	—	339,403	—	339,403
U.S. Government bonds	—	119,758	—	119,758
Asset-backed securities	—	2,494	—	2,494
Certificates of deposit	—	67,398	—	67,398
Total short-term investments	—	856,377	—	856,377
Long-term investments:				
U.S. Government agency securities	—	65,625	—	65,625
Corporate bonds	—	109,727	—	109,727
U.S. Government bonds	—	20,355	—	20,355
Asset-backed securities	—	45,024	—	45,024
Foreign government bonds	—	7,472	—	7,472
Certificates of deposit	—	5,750	—	5,750
Total long-term investments	—	253,953	—	253,953
Total	\$ 173,069	\$ 1,167,031	\$ —	\$ 1,340,100

	July 31, 2020			
	Level 1	Level 2	Level 3	Total
Cash equivalents:				
Commercial paper	\$ —	\$ 60,584	\$ —	\$ 60,584
Money market funds	231,063	—	—	231,063
Total cash equivalents	231,063	60,584	—	291,647
Short-term investments:				
U.S. Government agency securities	—	110,089	—	110,089
Commercial paper	—	161,994	—	161,994
Corporate bonds	—	358,175	—	358,175
U.S. Government bonds	—	63,773	—	63,773
Asset-backed securities	—	25,448	—	25,448
Certificates of deposit	—	47,048	—	47,048
Total short-term investments	—	766,527	—	766,527
Long-term investments:				
U.S. Government agency securities	—	132,185	—	132,185
Corporate bonds	—	119,881	—	119,881
U.S. Government bonds	—	5,035	—	5,035
Asset-backed securities	—	33,422	—	33,422
Certificates of deposit	—	9,248	—	9,248
Total long-term investment	—	299,771	—	299,771
Total	\$ 231,063	\$ 1,126,882	\$ —	\$ 1,357,945

Strategic Convertible Debt Investment

Long-term investments on the condensed consolidated balance sheet also includes a strategic convertible debt investment made in May 2020. The Company invested \$1.0 million in a technology company by participating in its convertible debt financing round. The Company estimates the fair value of this strategic investment was \$1.0 million at both October 31, 2020 and July 31, 2020 based on assumptions of the expected return on the investment (Level 3).

Convertible Senior Notes

The fair value of the Convertible Senior Notes was \$436.3 million at October 31, 2020 and \$480.0 million at July 31, 2020. The Company estimates the fair value of the Convertible Senior Notes using commonly accepted valuation methodologies and market-based risk measurements that are directly observable, such as unadjusted quoted prices (Level 2). The Company carries the Convertible Senior Notes at initial fair value less unamortized debt discount and issuance costs on its condensed consolidated balance sheets. For further information on the Convertible Senior Notes, see Note 6.

4. Balance Sheet Components

Accounts Receivables, Net

Accounts receivable, net consists of the following (in thousands):

	October 31, 2020	July 31, 2020
Accounts receivable	\$ 79,528	\$ 115,518
Allowance for credit losses and revenue reserves	(1,233)	(1,276)
Accounts receivable, net	\$ 78,295	\$ 114,242

Allowance for Credit Losses and Revenue Reserves

Changes to the allowance for credit losses and revenue reserves consists of the following (in thousands):

Allowance, July 31, 2020	\$	1,276
Net changes to credit losses		—
Net changes to revenue reserves		(43)
Write-offs, net		—
Allowance, October 31, 2020	\$	<u>1,233</u>

Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consist of the following (in thousands):

	October 31, 2020	July 31, 2020
Prepaid expenses	\$ 16,363	\$ 16,969
Contract costs	10,011	9,588
Deferred costs	7,881	8,399
Deposits and other receivables	11,496	11,033
Prepaid expenses and other current assets	<u>\$ 45,751</u>	<u>\$ 45,989</u>

Property and Equipment, Net

Property and equipment consist of the following (in thousands):

	October 31, 2020	July 31, 2020
Computer hardware	\$ 17,051	\$ 16,791
Purchased software	5,843	5,445
Capitalized software development costs	14,746	11,620
Equipment and machinery	11,545	11,438
Furniture and fixtures	9,762	9,792
Leasehold improvements	48,682	46,165
Total property and equipment	<u>107,629</u>	<u>101,251</u>
Less accumulated depreciation	<u>(40,213)</u>	<u>(36,016)</u>
Property and equipment, net	<u>\$ 67,416</u>	<u>\$ 65,235</u>

As of October 31, 2020 and July 31, 2020, no property and equipment was pledged as collateral. Depreciation expense, excluding the amortization of capitalized software development costs, was \$3.6 million and \$3.5 million for the three months ended October 31, 2020 and 2019, respectively.

The Company capitalizes software development costs for technology applications that the Company will offer solely as cloud-based subscriptions, which is primarily comprised of compensation for employees who are directly associated with the software development projects. The Company begins amortizing the capitalized software development costs once the technology applications are available for general release and amortizes those costs over the estimated lives of the applications, which typically ranges from three to five years. The Company recognized approximately \$0.6 million and \$0.3 million in amortization expense in cost of subscription and support revenue on the condensed consolidated statements of operations during the three months ended October 31, 2020 and 2019 respectively.

Goodwill and Intangible Assets, Net

There has been no change to the \$340.9 million carrying amount of goodwill since July 31, 2020.

The Company's intangible assets are amortized over their estimated useful lives. Intangible assets consist of the following (in thousands):

	Remaining Weighted-Average Useful Life (in years)	October 31, 2020			July 31, 2020		
		Cost	Accumulated Amortization	Net Book Value	Cost	Accumulated Amortization	Net Book Value
Intangible assets:							
Acquired technology	1.6	\$ 93,600	\$ 77,717	\$ 15,883	\$ 93,600	\$ 73,191	\$ 20,409
Customer contracts and related relationships	3.6	35,700	19,983	15,717	35,700	18,500	17,200
Partner relationships	4.4	200	102	98	200	96	104
Trademarks	4.0	2,500	1,071	1,429	2,500	982	1,518
Order backlog	0.3	8,700	8,442	258	8,700	8,223	477
Total	2.6	\$ 140,700	\$ 107,315	\$ 33,385	\$ 140,700	\$ 100,992	\$ 39,708

Amortization expense was \$6.3 million and \$7.2 million for the three months ended October 31, 2020 and 2019 respectively. The future amortization expense for existing intangible assets as of October 31, 2020, based on their current useful lives, is as follows (in thousands):

Fiscal year ending July 31,		
2021 (remainder of fiscal year)		\$ 13,642
2022		11,143
2023		3,799
2024		2,379
2025		1,938
Thereafter		484
Total future amortization expense		\$ 33,385

Other assets

Other assets consist of the following (in thousands):

	October 31, 2020	July 31, 2020
Prepaid expenses	\$ 4,577	\$ 2,830
Contract costs	23,838	25,221
Deferred costs	4,916	5,729
Strategic equity investments	3,181	1,164
Other assets	\$ 36,512	\$ 34,944

The Company's other assets include strategic equity investments in privately-held companies in which the Company does not have a controlling interest or the ability to exert significant influence. The strategic investments consist of non-marketable equity securities that do not have readily determinable market values (Level 3). The Company records these strategic investments at cost less impairment and adjusts cost for subsequent observable changes in fair value. In the first fiscal quarter of 2021, the Company invested \$2.0 million in new strategic equity investments. No impairment charges were recognized during the three months ended October 31, 2020 and 2019, respectively.

Accrued Employee Compensation

Accrued employee compensation consists of the following (in thousands):

	October 31, 2020	July 31, 2020
Bonus	\$ 10,858	\$ 20,188
Commission	1,116	7,201
Vacation	22,143	20,637
Salaries, payroll taxes and benefits	10,883	10,521
Accrued employee compensation	<u>\$ 45,000</u>	<u>\$ 58,547</u>

Other Current Liabilities

Other current liabilities consist of the following (in thousands):

	October 31, 2020	July 31, 2020
Lease liabilities	\$ 11,580	\$ 10,936
Accrued royalties	5,725	6,651
Accrued taxes	2,116	3,817
Other	3,417	4,302
Other current liabilities	<u>\$ 22,838</u>	<u>\$ 25,706</u>

5. Net Income (Loss) Per Share

The following table sets forth the computation of the Company's basic and diluted net income (loss) per share (in thousands, except share and per share amounts):

	Three Months Ended October 31,	
	2020	2019
Numerator:		
Net income (loss)	\$ (20,190)	\$ (14,991)
Net income (loss) per share:		
Basic	\$ (0.24)	\$ (0.18)
Diluted	\$ (0.24)	\$ (0.18)
Denominator:		
Weighted average shares used in computing net income (loss) per share:		
Basic	83,613,287	82,360,891
Weighted average effect of dilutive stock options	—	—
Weighted average effect of dilutive stock awards	—	—
Diluted	<u>83,613,287</u>	<u>82,360,891</u>

The following weighted average shares of potential common stock were excluded from the computation of diluted income (loss) per share for the periods presented because including them would have been anti-dilutive:

	Three Months Ended October 31,	
	2020	2019
Stock options	61,472	206,919
Stock awards	2,263,076	2,028,908

Since the Company has the intent and ability to settle the principal amount of the Convertible Senior Notes in cash and any excess in shares of the Company's common stock, the Company uses the treasury stock method for calculating any potential dilutive effect of the conversion spread on net income (loss) per share, if applicable. The conversion spread will have a dilutive impact on net income (loss) per share when the average market price of the Company's common stock for a given period exceeds the conversion price of \$113.75 per share for the Convertible Senior Notes. During the three months ended October 31, 2020 and 2019, the Company's weighted average common stock price was below the conversion price of the Convertible Senior Notes.

6. Convertible Senior Notes

In March 2018, the Company offered and sold \$400.0 million aggregate principal amount of its 1.25% Convertible Senior Notes due 2025. The Convertible Senior Notes were issued in accordance with the Indenture, dated as of March 13, 2018, between the Company and U.S. Bank National Association, as trustee (the "Trustee") (the "Base Indenture"), as amended and supplemented by the First Supplemental Indenture, dated as of March 13, 2018, between the Company and the Trustee (together with the Base Indenture, the "Indenture"). The net proceeds from the issuance of the Convertible Senior Notes were \$387.2 million, after deducting issuance costs.

The Convertible Senior Notes are unsecured obligations of the Company with interest payable semi-annually in arrears at a rate of 1.25% per year, on March 15th and September 15th of each year beginning on September 15, 2018. The Convertible Senior Notes will mature on March 15, 2025 unless repurchased, redeemed, or converted prior to such date. Prior to the close of business on the business day immediately preceding October 15, 2024, the Convertible Senior Notes are convertible at the option of holders during certain periods, upon satisfaction of certain conditions. On or after October 15, 2024, the Convertible Senior Notes are convertible at any time until the close of business on the second scheduled trading day immediately preceding the maturity date. The Convertible Senior Notes will have an initial conversion rate of 8.7912 shares of common stock per \$1,000 principal (equivalent to an initial conversion price of approximately \$113.75 per share of the Company's common stock). The conversion rate is subject to customary adjustments upon the occurrence of certain events but will not be adjusted for any accrued and unpaid interest. Upon conversion, the Company will pay or deliver, as the case may be, cash, shares of its common stock or a combination of cash and shares of its common stock, at its election.

The Company may redeem the Convertible Senior Notes, at its option, on or after March 20, 2022, at a redemption price equal to 100% of the principal amount thereof, plus accrued and unpaid interest if the last reported sale price of the Company's common stock has been at least 130% of the conversion price then in effect for at least 20 trading days (whether or not consecutive), including at least one of the three trading days immediately preceding the date on which the Company provides notice of redemption, during any 30 consecutive trading day period ending on, and including, the trading day immediately preceding the date on which the Company provides notice of redemption. No sinking fund is provided for the Convertible Senior Notes. Upon the occurrence of a fundamental change (as defined in the Indenture) prior to the maturity date, holders may require the Company to repurchase all or a portion of the Convertible Senior Notes for cash at a price equal to 100% of the principal amount of the notes to be repurchased, plus any accrued and unpaid interest to, but excluding, the fundamental change repurchase date.

The Convertible Senior Notes rank senior in right of payment to any of the Company's indebtedness that is expressly subordinated in right of payment to the Convertible Senior Notes, and equal in right of payment to any of its indebtedness that is not so subordinated. The Convertible Senior Notes are effectively junior in right of payment to any of the Company's secured indebtedness to the extent of the value of the assets securing such indebtedness; and structurally junior to all indebtedness and other liabilities (including trade payables) and any preferred equity of its current or future subsidiaries.

The net carrying value of the liability component, unamortized debt discount and unamortized debt issuance costs of the Convertible Senior Notes was as follows (in thousands):

	October 31, 2020	July 31, 2020
Principal	\$ 400,000	\$ 400,000
Less unamortized:		
Debt discount	59,487	62,508
Debt issuance costs	6,970	7,284
Net carrying amount	<u>\$ 333,543</u>	<u>\$ 330,208</u>

The effective interest rate of the Convertible Senior Notes is 5.53%. The following table sets forth the interest expense recognized related to the Convertible Senior Notes (in thousands):

	Three Months Ended October 31,	
	2020	2019
Contractual interest expense	\$ 1,250	\$ 1,250
Amortization of debt discount	3,020	2,871
Amortization of debt issuance costs	315	284
Total	<u>\$ 4,585</u>	<u>\$ 4,405</u>

Capped Call

In March 2018, the Company paid \$37.2 million to purchase capped calls with certain financial institutions pursuant to capped call confirmations (the “Capped Calls”). The Capped Calls have an initial strike price of \$113.75 per share, subject to certain adjustments, which corresponds to the initial conversion price of the Convertible Senior Notes. The Capped Calls have initial cap prices of \$153.13 per share, subject to certain adjustments. The Capped Calls cover, subject to anti-dilution adjustments, 3.5 million shares of common stock. By entering into the Capped Calls, the Company expects to reduce the potential dilution to its common stock (or, in the event the conversion is settled in cash, to reduce its cash payment obligation) in the event that at the time of conversion its stock price exceeds the conversion price under the Convertible Senior Notes. The Capped Calls are subject to either adjustment or termination upon the occurrence of specified extraordinary events affecting the Company, including a merger event, tender offer, and a nationalization, insolvency, or delisting involving the Company. Additionally, the Capped Calls are subject to certain specified additional disruption events that may give rise to a termination of the Capped Calls, including change in law, insolvency filing, and hedging disruptions. The Capped Calls were recorded in the periods purchased as a reduction of the Company’s additional paid-in capital in the condensed consolidated balance sheets.

7. Leases

The Company's lease obligations consist of operating leases for office facilities and equipment, with lease periods expiring between fiscal years 2021 and 2032. Some leases include one or more options to renew. Lease renewals are not assumed in the determination of the lease term until the exercise of the renewal option is deemed to be reasonably certain.

Components of operating lease costs were as follows (in thousands):

	Three Months Ended October 31,	
	2020	2019
Operating lease cost ⁽¹⁾	\$ 4,372	\$ 3,909
Variable lease cost	1,366	1,523
Sublease income	(395)	(380)
Net operating lease cost	<u>\$ 5,343</u>	<u>\$ 5,052</u>

⁽¹⁾ Lease expense for leases with an initial term of 12 months or less is excluded from the table above and was \$0.3 million and \$0.3 million for the three months ended October 31, 2020 and 2019, respectively.

Future operating lease payments as of October 31, 2020 were as follows (in thousands):

Fiscal Year Ending July 31,		
2021 (remaining)	\$	11,838
2022		18,745
2023		17,198
2024		16,823
2025		17,214
Thereafter		84,960
Total future lease payments		166,778
Less imputed interest		(29,662)
Total lease liability balance	\$	137,116

Supplemental information related to leases was as follows (in thousands, except for lease term and discount rate):

	October 31, 2020	July 31, 2020
Operating lease assets	\$ 108,378	\$ 103,797
Current portion of lease liabilities	\$ 11,580	\$ 10,936
Non-current portion of lease liabilities	125,536	119,408
Total lease liabilities	\$ 137,116	\$ 130,344
Weighted average remaining lease term (years)	9.17	9.27
Weighted average discount rate	4.18 %	4.34 %

Supplemental cash and non-cash information related to operating leases was as follows (in thousands):

	Three Months Ended October 31,	
	2020	2019
Cash payments for operating leases	\$ 5,285	\$ 1,383
Operating lease assets obtained in exchange for lease liabilities	\$ 9,217	\$ 480

8. Commitments and Contingencies

There has been no material change in the Company's contractual obligations and commitments other than in the ordinary course of business since the Company's fiscal year ended July 31, 2020. See the Annual Report on Form 10-K for the fiscal year ended July 31, 2020 for additional information regarding the Company's contractual obligations.

Legal Proceedings

From time to time, the Company is involved in various legal proceedings and receives claims, arising from the normal course of business activities. The Company has not accrued for estimated losses in the accompanying condensed consolidated financial statements as the Company has determined that no provision for liability nor disclosure is required related to any claim against the Company because: (a) there is not a reasonable possibility that a loss exceeding amounts already recognized (if any) may be incurred with respect to such claim; (b) a reasonably possible loss or range of loss cannot be estimated; or (c) such estimate is immaterial. The Company has not recorded any accrual for claims as of October 31, 2020 or July 31, 2020. The Company expenses legal fees in the period in which they are incurred.

In July 2020, one of the Company's stockholders filed a putative securities class action complaint in the United States District Court for the Northern District of California, against the Company and certain of its current or former officers and directors. The complaint alleged violations of Sections 10(b) and 20(a) of the Exchange Act and SEC Rule 10b-5 and was seeking unspecified compensatory damages, interest, and attorney's fees and costs. In October 2020, the suit was voluntarily dismissed without prejudice by plaintiff's counsel.

Indemnification

The Company sells software licenses and services to its customers under Software License Agreements ("SLA") and Software Subscription Agreements ("SSA"). SLAs and SSAs contain the terms of the contractual arrangement with the customer and generally include certain provisions for defending the customer against any claims that the Company's software infringes upon a patent, copyright, trademark, or other proprietary right of a third party. SLAs and SSAs also generally indemnify the customer against judgments, settlements, fines, penalties, costs, and expenses resulting from a claim ("Losses") against the customer in the event the Company's software is found to infringe upon such third-party rights.

The Company has not had to reimburse any of its customers for Losses related to indemnification provisions and no material claims against the Company were outstanding as of October 31, 2020 or July 31, 2020. For several reasons, including the lack of prior indemnification claims and the lack of a monetary liability limit for certain infringement cases under various SLAs and SSAs, the Company cannot estimate the amount of potential future payments, if any, related to indemnification provisions.

The Company has also agreed to indemnify its directors and executive officers for costs associated with any fees, expenses, judgments, fines, and settlement amounts incurred by any of these persons in any action or proceeding to which any of these persons is, or is threatened to be, made a party by reason of the person's service as a director or officer, including any action by the Company, arising out of that person's services as the Company's director or officer or that person's services provided to any other company or enterprise at the Company's request. The Company maintains director and officer insurance coverage that may enable the Company to recover a portion of any future amounts paid.

9. Stock-Based Compensation Expense and Shareholders' Equity

Stock-Based Compensation Expense

Stock-based compensation expense related to stock options and Stock Awards is included in the Company's condensed consolidated statements of operations as follows (in thousands):

	Three Months Ended October 31,	
	2020	2019
Stock-based compensation expense	\$ 28,394	\$ 24,765
Net impact of deferred stock-based compensation	(310)	(207)
Total stock-based compensation expense	\$ 28,084	\$ 24,558
Stock-based compensation expense is included in the following categories:		
Cost of subscription and support revenue	\$ 2,602	\$ 1,633
Cost of license revenue	251	180
Cost of services revenue	5,543	5,332
Research and development	7,247	6,181
Sales and marketing	5,977	5,157
General and administrative	6,464	6,075
Total stock-based compensation expense	\$ 28,084	\$ 24,558

Total unrecognized stock-based compensation expense as of October 31, 2020 related to stock options and Stock Awards is as follows:

	Unrecognized Expense (in thousands)	Weighted Average Expected Recognition Period (in years)
Stock Options	\$ 370	0.5
Stock Awards	296,490	2.8
	<u>\$ 296,860</u>	

Stock Awards

A summary of the Company's Stock Awards activity under the Company's equity incentive plans is as follows:

	Stock Awards Outstanding		
	Number of Stock Awards Outstanding	Weighted Average Grant Date Fair Value	Aggregate Intrinsic Value (in thousands) ⁽¹⁾
Balance as of July 31, 2020	2,445,698	\$ 99.34	\$ 287,761
Granted	1,112,046	\$ 111.55	
Released	(339,759)	\$ 90.29	\$ 36,027
Canceled	(88,564)	\$ 100.38	
Balance as of October 31, 2020	<u>3,129,421</u>	\$ 104.63	\$ 300,769
Expected to vest as of October 31, 2020	<u>3,129,421</u>	\$ 104.63	\$ 300,769

⁽¹⁾ Aggregate intrinsic value at each period end represents the total market value of Stock Awards at the Company's closing stock price of \$96.11 and \$117.66 on October 31, 2020 and July 31, 2020, respectively. Aggregate intrinsic value for released Stock Awards represents the total market value of released Stock Awards at date of release.

Certain executives and employees of the Company received PSUs and TSR PSUs in addition to RSUs. PSUs awarded in September 2021 will vest over three years with 50% vesting annually over the three year period and the remaining 50% vesting at the end of the third year. The TSR PSUs are subject to total shareholder return rankings of the Company's common stock relative to the software companies in the S&P Index for a specified period or periods, and vest at the end of three years. The Company recognized stock-based compensation related to these performance-based and market-based stock awards of \$3.3 million and \$3.4 million for the three months ended October 31, 2020 and 2019, respectively.

Stock Options

Stock option activity under the Company's equity incentive plans is as follows:

	Stock Options Outstanding			
	Number of Stock Options Outstanding	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life (in years)	Aggregate Intrinsic Value⁽¹⁾ (in thousands)
Balance as of July 31, 2020	80,332	\$ 29.80	5.2	\$ 7,058
Granted	—			
Exercised	(39,169)	\$ 43.80		\$ 2,461
Canceled	(654)	\$ 11.23		
Balance as of October 31, 2020	<u>40,509</u>	\$ 16.56	5.8	\$ 3,222
Vested and expected to vest as of October 31, 2020	<u>40,509</u>	\$ 16.56	5.8	\$ 3,222
Exercisable as of October 31, 2020	<u>34,585</u>	\$ 17.48	5.7	\$ 2,719

⁽¹⁾ Aggregate intrinsic value at each period end represents the difference between the Company's closing stock price of \$96.11 and \$117.66 on October 31, 2020 and July 31, 2020, respectively, and the exercise price of outstanding options. Aggregate intrinsic value for exercised options represents the difference between the Company's stock price at date of exercise and the exercise price.

Valuation of Awards

TSR PSUs

The fair value of TSR PSUs is estimated at the date of grant using the Monte Carlo simulation model which included the following assumptions:

	Three Months Ended October 31,	
	2020	2019
Expected term (in years)	*	2.9
Risk-free interest rate	*	1.5%
Expected volatility of the Company	*	28.4%
Average expected volatility of the peer companies in the S&P Index	*	37.0%
Expected dividend yield	*	—%

*There were no TSR PSUs granted during the three months ended October 31, 2020.

The number of TSR PSUs that may ultimately vest will vary based on the performance of the Company's common stock relative to the shareholder return of the software companies in the S&P Index for a specified period or periods. The Monte Carlo methodology incorporates into the valuation all possible outcomes, including that the Company's relative performance may result in no shares vesting. As a result, stock-based compensation expense is recognized regardless of the Company's ultimate achievement of the plan's metrics. The expense will be reversed only in the event that a grantee is terminated prior to satisfying the requisite service period.

Common Stock Reserved for Issuance

As of October 31, 2020 and July 31, 2020, the Company was authorized to issue 500,000,000 shares of common stock with a par value of \$0.0001 per share and, of these, 83,791,856 and 83,461,925 shares of common stock were issued and outstanding, respectively. Per the terms of the Company's 2011 Stock Plan, on January first of each year, an additional number of shares equal to 5% of the number of shares of common stock issued and outstanding on the preceding December 31st may be added to the Company's 2011 Stock Plan reserve. The Company elected not to increase the number of shares of common stock available for grant under this plan for the calendar year ended December 31, 2019. As of October 31, 2020 and July 31, 2020, the Company had reserved shares of common stock for future issuance as follows:

	October 31, 2020	July 31, 2020
Exercise of stock options to purchase common stock	40,509	80,332
Vesting of stock awards	3,129,421	2,445,698
Shares available under stock plans	21,720,159	23,460,234
Total common stock reserved for issuance	<u>24,890,089</u>	<u>25,986,264</u>

Stock Repurchase Program

In October 2020, the Company's board of directors authorized and approved a stock repurchase program of up to \$200.0 million of the Company's outstanding common stock. During the three months ended October 31, 2020, the Company repurchased 48,997 shares of common stock at an average price of \$102.05 per share, for an aggregate purchase price of \$5.0 million. As of October 31, 2020, \$195.0 million remained available for future share repurchases.

10. Income Taxes

The Company recognized an income tax benefit of \$10.7 million and \$6.7 million for the three months ended October 31, 2020 and 2019, respectively. The change in the amount of income taxes recorded for the three months ended October 31, 2020 compared to the same period a year ago was primarily due to the increase in the loss before taxes and a tax status change of a foreign subsidiary for U.S. tax purposes. The effective tax rate of 35% for the three months ended October 31, 2020 differs from the statutory U.S. federal income tax rate of 21% mainly due to permanent differences for stock-based compensation including excess tax benefits, global intangible low-taxed income ("GILTI") inclusion, research and development credits, certain non-deductible expenses including executive compensation, and the tax status change of a foreign subsidiary.

During the three months ended October 31, 2020, unrecognized tax benefits increased by \$0.3 million. As of October 31, 2020, the Company had unrecognized tax benefits of \$18.2 million that, if recognized, would affect the Company's effective tax rate.

The Company is currently under examination by the California Franchise Tax Board for the state income tax returns filed for fiscal years 2018 and 2017. If any issues addressed in the tax audit are resolved in a manner not consistent with the Company's expectations, the Company may be required to adjust its provision for income tax in the period such resolution occurs. The Company does not believe the audit will have a material impact on the Company's financial position, results of operations, or cash flows.

11. Segment Information

The Company operates in one segment. The Company's chief operating decision maker (the "CODM"), its Chief Executive Officer, manages the Company's operations on a consolidated basis for purposes of allocating resources. When evaluating the Company's financial performance, the CODM reviews separate revenue information for the Company's subscription, support, term license, perpetual license, and services offerings, while all other financial information is reviewed on a consolidated basis. The Company's principal operations and decision-making functions are located in the United States.

The Company's long-lived assets, including intangibles and goodwill, net by geographic region is as follows (in thousands):

	October 31, 2020	July 31, 2020
Americas	\$ 434,283	\$ 440,291
EMEA	5,984	4,021
APAC	1,411	1,508
Total	<u>\$ 441,678</u>	<u>\$ 445,820</u>

ITEM 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis should be read in conjunction with our condensed consolidated financial statements and the notes thereto included elsewhere in this Quarterly Report on Form 10-Q and the Risk Factors included in Item 1A of Part II of this Quarterly Report on Form 10-Q. All information presented herein is based on our fiscal calendar. Unless otherwise stated, references in this report to particular years or quarters refer to our fiscal years ended in July and the associated quarters of those fiscal years. We assume no obligation to revise or update any forward-looking statements for any reason, except as required by law.

Overview

We deliver the platform P&C insurers trust to engage, innovate, and grow efficiently. We combine core operations, digital engagement, analytics, and artificial intelligence ("AI") applications delivered as a cloud service or self-managed software. As a partner to our customers, we continually evolve to enable their success and assist them in navigating a rapidly changing insurance market.

Our core operational products are InsuranceSuite via Guidewire Cloud, InsuranceNow, and InsuranceSuite for self-managed installations. These products are core transactional systems of record that support the entire insurance lifecycle, including insurance product definition, distribution, underwriting, policyholder services, and claims management. InsuranceSuite via Guidewire Cloud is a highly configurable and scalable product, delivered as a service and primarily comprised of three core applications (PolicyCenter, BillingCenter, and ClaimCenter) that can be subscribed to separately or together. These applications are built on and optimized for our Guidewire Cloud Platform ("GWCP") architecture and leverages our in-house Guidewire cloud operations team. InsuranceSuite via Guidewire Cloud is designed to support multiple releases a year to ensure that cloud customers remain on the latest version and gain fast access to our innovation efforts. Additionally, InsuranceSuite via Guidewire Cloud embeds digital and analytics capabilities natively into our platform. Most new sales and implementations are for InsuranceSuite via Guidewire Cloud. InsuranceNow is a complete, cloud-based system that offers policy, billing, and claims management functionality to insurers that have limited internal information technology resources. InsuranceSuite for self-managed is comprised of three core applications (PolicyCenter, BillingCenter, and ClaimCenter) that can be licensed separately or together and can be deployed and updated by our customers and their implementation partners. Our digital engagement applications enable digital sales, omni-channel service, and enhanced claims experiences for policyholders, agents, vendor partners and field personnel. Our analytics and AI offerings enable insurers to manage data more effectively, gain insights into their business, drive operational efficiencies, and underwrite new and evolving risks. To support P&C insurers globally, we have localized, and will continue to localize, our platform for use in a variety of international regulatory, language, and currency environments.

Our customers range from some of the largest global insurance companies or their subsidiaries to predominantly national or local insurers that serve specific states and/or regions. Our customer engagement is led by our direct sales team and supported by our system integrator ("SI") partners. We maintain and continue to grow our sales and marketing efforts globally, and maintain regional sales centers throughout the world.

Our sales cycles for new and existing customers remain protracted as customers are deliberate and the decision-making and product evaluation process is long. These evaluation periods can extend further if the customer purchases multiple products or assesses the benefits of a cloud-based subscription in addition to our more traditional self-managed licensing model. Sales to new customers also involve extensive customer due diligence and reference checks. The success of our sales efforts relies on continued improvements and enhancements to our current products, the introduction of new products, efficient operation of our cloud infrastructure, continued development of relevant local content and automated tools for updating content, and successful implementations.

We sell our cloud-delivered offerings through subscription services and our self-managed products through term licenses. We generally price our products and services based on the amount of DWP that will be managed by our platform. Our subscription, term license, and support fees are typically invoiced annually in advance. Subscription services are generally sold with an initial term of between three and five years with optional annual renewals commencing after the initial term. Subscription revenue is recognized on a ratable basis over the committed term, once all revenue recognition criteria is met including providing access to the service. Term licenses are primarily sold with an initial two-year committed term with optional annual renewals commencing after the initial term. We may enter into term license arrangements with our customers that have an initial term of more than two years or may renew license arrangements for longer than one year. A small portion of our revenue is derived from perpetual licenses. Term and perpetual license revenue are typically recognized when software is made available to the customer, provided that all other revenue recognition criteria have been met. We also offer professional

services, both directly and through partners, to help our customers deploy, migrate, and utilize our products and platform. Substantially all of our services revenue is billed monthly on a time and materials basis.

Over the past few years, we have primarily been entering into cloud-based subscription arrangements with our new and existing customers and we anticipate that subscription arrangements will be a majority of annual new sales going forward. As this sales model matures, we may decide to change certain contract terms in new arrangements to remain competitive or otherwise meet market demands.

To extend our technology leadership in the global market and to drive operating efficiency, we continue to invest in product development and cloud operations to enhance and improve our current products, introduce new products, and advance our ability to cost-effectively deliver each of our products in the cloud. Continued investment is critical as we seek to assist our customers in achieving their technology goals, maintain our competitive advantage, grow our revenue, expand internationally, and meet evolving customer demands. In certain cases, we may also acquire skills and technologies to manage our cloud infrastructure and accelerate our time to market for new products and solutions.

Our track record of success with customers and their implementations is central to maintaining our strong competitive position. We rely on our global services team and SI partners to ensure that teams with the right combination of product and language skills are used in the most efficient way to meet our customers' implementation needs. Our partnerships with leading SI partners allow us to increase efficiency and scale while reducing customer implementation costs. Our extensive relationships with SI and other industry partners have strengthened and expanded in line with the interest in and adoption of our services and products. We encourage our partners to co-market, pursue joint sales initiatives, and drive broader adoption of our technology, helping us grow our business more efficiently. We continue to grow our services organization and invest time and resources in increasing the number of qualified consultants employed by our SI partners, developing relationships with new SI partners in existing and new markets, and ensuring that all partners are qualified to implement our services and products.

We face a number of risks in the execution of our strategy including risks related to expanding to new markets, managing lengthy sales cycles, competing effectively in the global market, relying on sales to a relatively small number of large customers, developing new or acquiring existing services and products successfully, migrating our business towards a subscription model with ratable revenue recognition, increasing the overall adoption of our products, and managing the infrastructure of our cloud-based customers. In response to these and other risks we might face, we continue to invest in many areas of our business, including product development, cloud operations, implementation services and sales and marketing.

Seasonality

We have experienced seasonal variations in our license revenue and, to a lesser extent, our subscription revenue as a result of increased customer orders in our fourth fiscal quarter. We generally see significantly increased orders in our fourth fiscal quarter, which is the quarter ending July 31, due to efforts by our sales team to achieve annual incentives. Additionally, current revenue recognition guidance, also referred to as ASC 606, could continue to heighten or change the seasonal impact on our business as new term licenses and multi-year term license renewals recognize more revenue upfront based on the length of the committed term. Any quarter in which a significant multi-year term license or multi-year term license renewal or non-renewal occurs could be impacted. For example, in the first quarter of fiscal year 2021, we experienced license revenue growth due to a five year term license deal under which revenue was recognized upfront, which may overshadow the usual positive seasonal impact in our second quarter of fiscal year 2021 and may create a challenging comparable period for the first quarter of fiscal year 2022. On an annual basis, our support revenue, which is recognized ratably, may also be impacted in the event that seasonal patterns change significantly. Additionally, as subscriptions increase as a percentage of total sales, the revenue we can recognize in the initial fiscal year of an order will be reduced, deferred revenue will increase, and our reported revenue growth will be adversely affected in the near term due to the ratable nature of these arrangements. The concentration of our sales in our fiscal fourth quarter increases this impact as the revenue impact of most fiscal fourth quarter subscription sales will not be realized until the following fiscal year.

Our services revenue is also subject to seasonal fluctuations, though to a lesser degree than our license revenue and subscription revenue. Our services revenue is impacted by the number of billable days in a given fiscal quarter. The quarter ending January 31 usually has fewer billable days due to the impact of the Thanksgiving, Christmas, and New Year's holidays. The fiscal quarter ending July 31 usually has fewer billable days due to the impact of vacations taken by our services professionals. Because we pay our services professionals the same amount throughout the year, our gross margins on our services revenue are usually lower in these quarters. This seasonal pattern, however, may be absent in any given year.

COVID-19 Impact

In March 2020, the World Health Organization declared the outbreak of COVID-19 a pandemic that continues to spread throughout the United States and the world and has resulted in authorities implementing numerous measures to contain the

virus, including travel bans and restrictions, quarantines, shelter-in-place orders, and business limitations and shutdowns. While we are unable to accurately predict the full impact that COVID-19 will have on our results of operations, financial condition, liquidity, and cash flows due to numerous uncertainties, including the duration and severity of the pandemic and containment measures, our compliance with these measures has impacted our day-to-day operations and could disrupt our business and operations, as well as that of our key customers, SI partners, vendors, and other counterparties, for an indefinite period of time. To support the health and well-being of our employees, customers, SI partners and communities, a vast majority of our employees are working remotely. In addition, many of our existing and potential customers are working remotely, which may continue to delay the timing of new orders and professional services engagements in the future.

Our business and financial results since the third fiscal quarter of 2020 have been impacted due to these disruptions, including decreases in annual recurring revenue ("ARR") growth rates, services revenue and margins, operating cash flow, and the change in fair value of strategic investments. ARR and revenue, especially services revenue, for the first fiscal quarter of 2021 continued to be impacted as a result of the challenges related to our compliance with government-mandated or recommended shelter-in-place orders in jurisdictions in which we, our customers, SI partners and vendors operate. For example, we or our SI partners have not been able to visit customer facilities to make sales visits or to work on implementation engagements since March 2020.

We currently believe that the economic impact of the pandemic on our business and the businesses of our customers, SI partners, and vendors is expected to continue through fiscal year 2021, or possibly longer. We believe that new sales activities are being delayed, not cancelled, and implementation engagements are being rescheduled to later periods or being completed over a longer period of time. Certain marketing events have or will be cancelled or postponed, while the majority are being hosted virtually, like our annual customer conference, Connections. Our customers may be unable to pay or may request amended payment terms for their outstanding invoices due to the economic impacts from COVID-19, and we may need to increase our accounts receivable allowances. A decrease in orders in a given period could negatively affect our revenues and ARR in future periods, particularly if experienced on a sustained basis, because a substantial proportion of our new software subscription services orders is recognized as revenue over time. Also, the pandemic's global economic impact could affect our customers' DWP, which could ultimately impact our revenue as we generally price our products and services based on the amount of DWP that will be managed by our platform. Additionally, we may be required to record impairment related to our operating lease assets, investments, long-lived assets, or goodwill. We will continue to evaluate the nature and extent of the impact of COVID-19 on our business.

Key Business Metrics

We use certain key metrics and financial measures not prepared in accordance with United States Generally Accepted Accounting Principles ("GAAP") to evaluate and manage our business, including Annual Recurring Revenue ("ARR") and Free Cash Flow. For a further discussion of how we use key metrics and certain non-GAAP financial measures, see "Non-GAAP Financial Measures."

Annual Recurring Revenue

We use ARR to identify the annualized recurring value of active customer contracts at the end of a reporting period. ARR includes the annualized recurring value of term licenses, subscription agreements, support contracts, and hosting agreements based on customer contracts, which may not be the same as the timing and amount of revenue recognized. All components of the licensing and subscription arrangements that are not expected to recur (primarily perpetual licenses and services) are excluded. If a customer contract contains invoicing amounts that increase over the contract term, then ARR reflects the annualized invoicing amount outlined in the contract for the current reporting period. For example, given a contract with annual invoicing of \$1.0 million at the beginning of year one, \$2.0 million at the beginning of year two, and \$3.0 million at the beginning of year three, and the reporting period is subsequent to year two invoicing and prior to year three invoicing, the reported ARR for that contract would be \$2.0 million.

Our reported ARR results for interim quarterly periods in fiscal year 2021 are based on actual currency rates at the end of fiscal year 2020, held constant throughout the year. ARR was \$513 million as of October 31, 2020, compared to \$514 million as of July 31, 2020.

Free Cash Flow

We monitor our free cash flow, as a key measure of our overall business performance, which enables us to analyze our financial performance without the effects of certain non-cash items such as depreciation, amortization, and stock-based

compensation expenses. Additionally, free cash flow takes into account the impact of changes in deferred revenue, which reflects the receipt of cash payment for products before they are recognized as revenue, and unbilled accounts receivable, which reflects revenue that has been recognized that has yet to be invoiced to our customers. Our net cash provided by (used in) operating activities is significantly impacted by the timing of invoicing and collections of accounts receivable, the timing and amount of annual bonus payments, as well as payroll and tax payments. Our capital expenditures consists of purchases of property and equipment, primarily computer hardware, software, and leasehold improvements, and capitalized software development costs. The build out and furnishing of our corporate headquarters in San Mateo, California impacted free cash flow by \$7.9 million for the three months ended October 31, 2019 and had no impact for the three months ended October 31, 2020. For a further discussion of our operating cash flows, see “Liquidity and Capital Resources - Cash Flows.”

	Three Months Ended October 31,	
	2020	2019
Net cash provided by (used in) operating activities	\$ (15,707)	\$ (18,138)
Purchases of property and equipment	(1,907)	(9,625)
Capitalized software development costs	(2,581)	(1,346)
Free cash flow	\$ (20,195)	\$ (29,109)

Critical Accounting Policies and Estimates

Our condensed consolidated financial statements are prepared in accordance with GAAP. Accounting policies, methods, and estimates are an integral part of the preparation of condensed consolidated financial statements in accordance with GAAP and, in part, are based upon management’s current judgments. Those judgments are normally based on knowledge and experience with regard to past and current events and assumptions about future events. Certain accounting policies, methods, and estimates are particularly sensitive because of their significance to the condensed consolidated financial statements and because of the possibility that future events affecting them may differ markedly from management’s current judgments. While there are a number of significant accounting policies, methods, and estimates affecting our condensed consolidated financial statements, which are described in Note 1 “The Company and Summary of Significant Accounting Policies and Estimates” to our condensed consolidated financial statements included in this Quarterly Report on Form 10-Q, our revenue recognition policies are particularly critical to fiscal years 2021 and 2020.

While we continue to evaluate our significant accounting policies to determine which ones involve the most judgment and complexity, there have been no changes to our significant accounting policies as described in our Annual Report on Form 10-K for the fiscal year ended July 31, 2020 that have had a material impact on our condensed consolidated financial statements and related notes.

Revenue Recognition

Revenue recognition requires judgment and the use of estimates, especially in identifying and evaluating the various non-standard terms and conditions in our contracts with customers as to their effect on reported revenue.

Our revenue is derived from contracts with customers. The majority of our revenue is derived from licensing arrangements that can span multiple years, subscriptions for our cloud services, and implementation and other professional services arrangements. The core principle of ASC 606 is to recognize revenue upon the transfer of services or products to customers in an amount that reflects the consideration we expect to be entitled to in exchange for those services or products. We apply a five-step framework to recognize revenue as described in our Revenue Recognition policy included in Note 1 of our condensed consolidated financial statements included in this Quarterly Report on Form 10-Q.

Our customers have significant negotiating power during the sales process which can and does result in terms and conditions that are different from our standard terms and conditions. When terms and conditions of our customer contracts are not standard, certain negotiated terms may require significant judgment in order to determine the appropriate revenue recognition in accordance with ASC 606.

The estimates and assumptions requiring significant judgment under our revenue policy in accordance with ASC 606 are as follows:

Identification of the contract, or contracts, with the customer

Contracts may be modified to account for changes in contract scope or price. We consider contract modifications to exist when the modification either creates new rights or obligations or changes the existing enforceable rights and obligations of either party. Contract modifications for services and products that are distinct from the existing contract and are priced commensurate with their standalone selling price are treated as separate contracts, and are accounted for prospectively. Contract modifications for services and products that are distinct but are not priced commensurate with their standalone selling price or are not distinct from the existing contract may affect the initial transaction price or the allocation of the transaction price to the performance obligations in the contract. In such cases, previously recognized revenue may be adjusted.

Identification of the performance obligation in the contract

Performance obligations promised in a contract are identified based on the services or products that will be transferred to the customer that are both:

- i. capable of being distinct, whereby the customer can benefit from the service or product either on its own or together with other resources that are readily available from the Company or third parties, and
- ii. distinct in the context of the contract, whereby the transfer of the service or product is separately identifiable from other promises in the contract.

To the extent a contract includes multiple promised services or products, the Company applies judgment to determine whether promised services or products are capable of being distinct and distinct in the context of the contract. If these criteria are not met, the promised services or products are accounted for as a combined performance obligation.

Determination of the transaction price

The transaction price is determined based on the consideration to which we expect to be entitled in exchange for transferring services and products to our customer. Variable consideration is estimated and included in the transaction price if, in our judgment, it is probable that there will not be a significant future reversal of cumulative revenue under the contract.

Self-managed software licenses and subscription services may be subject to either fixed or variable installments. Variable installments are generally subject to changes in a customer's DWP or a customer's Gross Written Premium ("GWP"). When consideration is subject to variable installments, we estimate variable consideration using the expected value method based on historical DWP or GWP usage to the extent that a significant revenue reversal is not probable to occur. When consideration is subject to a customer termination right, we estimate the total transaction price using the most likely method, and defer consideration associated with the customer's termination right until it expires.

We evaluate whether a significant financing component exists when the timing of revenue recognition occurs in advance of invoicing. This timing difference occurs when control of the software license is transferred at a point in time, usually at the contract onset, but the customer payments occur over time. A significant financing component generally does not exist under our standard contracting and billing practices. For example, our typical time-based licenses have a two-year initial term with the final payment due at the end of the first year.

Allocation of the transaction price to the performance obligations in the contract

If the contract contains a single performance obligation, the entire transaction price is allocated to the single performance obligation. Contracts that contain multiple performance obligations require an allocation of the transaction price to each performance obligation based on its standalone selling price ("SSP") in relation to the total fair value of all performance obligations in the arrangement. The majority of our contracts contain multiple performance obligations, such as when licenses are sold with support, implementation services, or training services. Additionally, as customers transition to subscription services, our customers may be under contract for both self-managed licenses and subscription services for a period of time, which may require an allocation of the transaction price to each performance obligation. Some of our performance obligations, such as support, implementation services, and training services, have observable inputs that are used to determine the SSP of those distinct performance obligations. Where SSP is not directly observable, we determine the SSP using information that may include market conditions and other observable inputs. In the circumstances when available information to determine SSP is highly variable or uncertain, such as for our term licenses, we use the residual method.

Recent Accounting Pronouncements

See Note 1 "The Company and Summary of Significant Accounting Policies and Estimates" in the notes to the condensed consolidated financial statements in Item 1 of Part I of this Quarterly Report on Form 10-Q, for a full description of recent accounting pronouncements adopted, including the dates of adoption, which is incorporated herein by reference.

Recent Accounting Pronouncements Not Yet Adopted

Debt—Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging—Contracts in Entity’s Own Equity (Subtopic 815-40): Accounting for Convertible Instruments and Contracts in an Entity’s Own Equity

In August 2020, the FASB issued ASU No. 2020-06, “Debt - Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging - Contracts in Entity’s Own Equity (Subtopic 815-40): Accounting for Convertible Instruments and Contracts in an Entity’s Own Equity”, which simplifies the accounting for convertible instruments by eliminating the requirement to separate embedded conversion features from the host contract when the conversion features are not required to be accounted for as derivatives under Topic 815, Derivatives and Hedging, or that do not result in substantial premiums accounted for as paid-in capital. By removing the separation model, a convertible debt instrument will be reported as a single liability instrument with no separate accounting for embedded conversion features. This new standard also removes certain settlement conditions that are required for contracts to qualify for equity classification and simplifies the diluted earnings per share calculations by requiring that an entity use the if-converted method and that the effect of potential share settlement be included in diluted earnings per share calculations. This new standard will be effective for fiscal years beginning after December 15, 2021, including interim periods within those fiscal years. Early adoption is permitted, but no earlier than fiscal years beginning after December 15, 2020. We are currently assessing the impact of adopting this standard on the consolidated financial statements.

Other Accounting Pronouncements

Other recent accounting pronouncements that will be applicable to us are not expected to have a material impact on our present or future financial statements.

Results of Operations

The following table sets forth our results of operations for the periods presented. The data has been derived from the condensed consolidated financial statements contained in this Quarterly Report on Form 10-Q which, in the opinion of our management, reflect all adjustments, consisting only of normal recurring adjustments, necessary to fairly present the financial position and results of operations for the interim periods presented. The results of operations for any period should not be considered indicative of results for any future period. This information should be read in conjunction with the consolidated financial statements and notes thereto included in our Annual Report on Form 10-K for the fiscal year ended July 31, 2020.

	Three Months Ended October 31,			
	2020	As a % of total revenue	2019	As a % of total revenue
(in thousands, except percentages)				
Revenue:				
Subscription and support	\$ 57,966	35 %	\$ 49,031	31 %
License	65,283	38	54,363	35
Services	46,553	27	53,616	34
Total revenue	<u>169,802</u>	<u>100</u>	<u>157,010</u>	<u>100</u>
Cost of revenue:				
Subscription and support	37,006	22	24,933	16
License	2,937	2	2,557	2
Services	51,024	30	53,366	34
Total cost of revenue	<u>90,967</u>	<u>54</u>	<u>80,856</u>	<u>52</u>
Gross profit:				
Subscription and support	20,960	13	24,098	15
License	62,346	36	51,806	33
Services	(4,471)	(3)	250	—
Total gross profit	<u>78,835</u>	<u>46</u>	<u>76,154</u>	<u>48</u>
Operating expenses:				
Research and development	52,615	30	46,496	30
Sales and marketing	36,644	22	33,016	21
General and administrative	21,180	12	21,239	14
Total operating expenses	<u>110,439</u>	<u>64</u>	<u>100,751</u>	<u>65</u>
Income (loss) from operations	(31,604)	(18)	(24,597)	(17)
Interest income	2,789	1	7,636	5
Interest expense	(4,620)	(3)	(4,429)	(3)
Other income (expense), net	2,568	2	(251)	—
Income (loss) before provision for (benefit from) income taxes	(30,867)	(18)	(21,641)	(15)
Provision for (benefit from) income taxes	(10,677)	(6)	(6,650)	(4)
Net income (loss)	<u>\$ (20,190)</u>	<u>(12)%</u>	<u>\$ (14,991)</u>	<u>(11)%</u>

Revenue

We derive our revenue primarily from delivering cloud-based services, licensing our software applications, providing support, and delivering professional services.

Subscription and Support

A growing portion of our revenue consists of fees for our subscription services, which are generally priced based on the amount of DWP that is managed by our subscription services. Subscription revenue is recognized ratably over the term of the arrangement, beginning at the point in time our provisioning process has been completed and access has been made available to the customer. The initial term of such arrangements is generally from three to five years. Subscription agreements contain optional annual renewals commencing upon the expiration of the initial contract term. A majority of our subscription customers are billed annually in advance.

Our support revenue is generally recognized ratably over the committed support term of the licensed software. Our support fees are typically priced as a fixed percentage of the associated term license fees. We generally invoice support annually in advance.

License

A substantial majority of our license revenue consists of term license fees. Our term license revenue is primarily generated through license fees that are billed annually in advance during the term of the contract, including any renewals. Our term license fees are generally priced based on the amount of DWP that will be managed by our licensed software. Our term licenses have generally been sold under a two-year initial term with optional annual renewals after the initial term. However, we do enter into license arrangements that have an initial term of more than two years and renewal terms of more than one year. Term license revenue for the committed term of the customer agreement is generally fully recognized upon delivery of the software or at the beginning of the renewal term.

In a limited number of cases, we license our software on a perpetual basis. Perpetual license revenue is generally recognized upon delivery. We invoice our perpetual license customers either in full at contract signing or on an installment basis.

Services

Our services revenue is primarily derived from implementation services performed for our customers, reimbursable travel expenses, and training fees. A substantial majority of our services engagements generate revenue on a time and materials basis and revenue is recognized upon providing our services.

	Three Months Ended October 31,					
	2020		2019		Change	
	Amount	As a % of total revenue	Amount	As a % of total revenue	(\$)	(%)
(in thousands, except percentages)						
Revenue:						
Subscription and support:						
Subscription	\$ 37,230	22 %	\$ 28,060	18 %	\$ 9,170	33 %
Support	20,736	12	20,971	13	(235)	(1)%
License:						
Term	65,225	38	54,314	35	10,911	20 %
Perpetual	58	—	49	—	9	18 %
Services	46,553	28	53,616	34	(7,063)	(13)%
Total revenue	<u>\$ 169,802</u>	<u>100 %</u>	<u>\$ 157,010</u>	<u>100 %</u>	<u>\$ 12,792</u>	<u>8 %</u>

Subscription and Support

We anticipate subscriptions will continue to represent a majority of new deals in future periods. Due to the ratable recognition of subscription revenue, growth in subscription revenue will lag behind the growth of subscription orders and will impact the comparative growth of our reported revenue. If we complete a higher percentage of subscription deals in a given period, our short-term growth rates will be negatively impacted.

Subscription revenue increased by \$9.2 million during the three months ended October 31, 2020, compared to the same period a year ago, primarily due to the impact of new orders entered into since October 31, 2019 for InsuranceSuite via Guidewire Cloud.

Support revenue slightly decreased during the three months ended October 31, 2020, compared to the same period a year ago. Support related to subscription arrangements is included in subscription revenue, as support is not quoted or priced separately from the subscription services. As a result, we expect the increase in subscription orders as a percentage of total new sales and customers transitioning from term licenses to subscription services will continue to reduce the growth in or result in lower support revenue in the future.

License

Term license revenue increased by \$10.9 million during the three months ended October 31, 2020 compared to the prior year period, primarily due to a large multi-year term license renewal, which resulted in an increase of approximately \$11.6 million during the three months ended October 31, 2020. Revenue related to new term licenses and multi-year term license renewals is generally recognized upfront and have no license revenue in subsequent periods until after the committed term expires. As customers transition from term license to subscription agreements, the timing of revenue recognition will be impacted by allocations of revenue between the license, subscription, and support performance obligations. License revenue growth could be negatively impacted as subscription sales increase as a percentage of total new sales and as customers transition from term licenses to subscription services.

Perpetual license revenue accounted for less than 1% of total revenue during the three months ended October 31, 2020. We expect perpetual license revenue to continue to represent a small percentage of our total license revenue. We also expect perpetual license revenue to potentially be volatile across quarters due to the large amount of perpetual revenue that may be generated from a single customer order.

Services

Services revenue decreased by \$7.1 million during the three months ended October 31, 2020 compared to the same period a year ago. The decrease is primarily driven by increased investments in InsuranceSuite via Guidewire Cloud migrations and implementations and reduced travel expenses due to travel restrictions associated with the COVID-19 pandemic, as reimbursable travel expenses are billed at actual amounts incurred.

We expect modestly higher levels of variability in our services revenue in future periods. As the number of implementations led by our SI partners increase, our services revenue could decrease further. We expect challenges related to COVID-19 will also continue to negatively impact services revenue. As we continue to expand into new markets and develop new services and products, we have, and may continue to, enter into contracts with reduced billing rates, make investments in customer implementation and migration engagements, and enter into fixed price contracts, which may impact services revenue and services margins.

Cost of Revenue and Gross Profit

Our cost of subscription and support revenue consists of personnel costs for our cloud operations and technical support teams, cloud infrastructure costs, development of online training curriculum, amortization of our intangible assets, and royalty fees paid to third parties. Our cost of license revenue primarily consists of development of online training curriculum, royalty fees paid to third parties, and amortization of our intangible assets. Our cost of services revenue primarily consists of personnel costs for our professional service employees, third-party consultants, and travel costs. In instances where we have primary responsibility for the delivery of services, subcontractor fees are expensed as cost of services revenue. In each case, personnel costs include salaries, bonuses, benefits, and stock-based compensation.

We allocate overhead such as information technology support, information security, facilities, and other administrative costs to all functional departments based on headcount. As such, these general overhead expenses are reflected in cost of revenue and each functional operating expense.

Cost of Revenue:

	Three Months Ended October 31,						
	2020		2019		Change		
	Amount		Amount		(\$)	(%)	
(in thousands, except percentages)							
Cost of revenue:							
Subscription and support	\$	37,006	\$	24,933	\$	12,073	48 %
License		2,937		2,557		380	15
Services		51,024		53,366		(2,342)	(4)
Total cost of revenue	\$	90,967	\$	80,856	\$	10,111	13
Includes stock-based compensation of:							
Cost of subscription and support revenue	\$	2,602	\$	1,633	\$	969	
Cost of license revenue		251		180		71	
Cost of services revenue		5,543		5,332		211	
Total	\$	8,396	\$	7,145	\$	1,251	

Cost of subscription and support revenue increased by \$12.1 million primarily due to increases of \$9.3 million in personnel expenses and \$2.6 million in cloud infrastructure costs due to our growth in cloud-based customers, which has resulted in continued investment in our cloud operations to increase operational efficiency and scale.

We expect our cost of subscription revenue to increase as we continue to invest in our cloud operations to support our growing cloud customer base, to improve efficiencies, and to continuously improve and maintain secure environments. Cost of support revenue is expected to remain flat or slightly decrease over time as term license customers transition to the cloud.

The \$0.4 million increase in cost of license revenue during the three months ended October 31, 2020, compared to the same period a year ago, was primarily attributable to increased costs associated with the development of online training curriculum included with the latest releases of InsuranceSuite and royalties to solution partners for technologies integrated with our self-managed offerings. We anticipate lower cost of license revenue over time as our term license customers transition to cloud subscription agreements.

The \$2.3 million decrease in cost of services revenue during the three months ended October 31, 2020, compared to the same period a year ago, was primarily attributable to a \$2.3 million decrease in billable travel costs resulting from COVID-19 travel restrictions and \$0.9 million in lower subcontractor fees that are billable to customers, partially offset by a \$1.5 million increase in personnel costs.

We had 475 cloud operations and technical support employees and 699 professional services employees at October 31, 2020, compared to 251 cloud operations and technical support employees and 760 professional services employees at October 31, 2019. Approximately 47 employees have been transferred from professional services to cloud operations since October 31, 2019 to support the growth in our cloud customers.

Gross Profit:

	Three Months Ended October 31,								
	2020		2019		Change				
	Amount	Margin %	Amount	Margin %	(\$)	(%)			
(in thousands, except percentages)									
Gross profit:									
Subscription and support	\$	20,960	36 %	\$	24,098	49 %	\$	(3,138)	(13)%
License		62,346	96		51,806	95		10,540	20
Services		(4,471)	(10)		250	—		(4,721)	*
Total gross profit	\$	78,835	46	\$	76,154	48	\$	2,681	4

*Not meaningful

Our gross profit increased \$2.7 million compared to the same period last year primarily due to an increase in license revenue resulting from a large multi-year term license renewal deal, partially offset by investments in cloud operations and decreases in professional services revenue driven by increased investments in cloud migration and implementation engagements and contracts with reduced billing rates.

Our gross margin decreased to 46% during the three months ended October 31, 2020, as compared to 48% during the same period a year ago. Gross margin was impacted by lower subscription and support gross margins resulting from increasing investments in cloud operations and negative services gross margins resulting from investments in cloud migration and implementation engagements and contracts with reduced billing rates.

We expect subscription and support gross margins will fluctuate as our subscription revenue increases and we continue to invest in our cloud operations. In addition to the impact of our investment in customer migrations and implementations, we expect challenges related to COVID-19 will negatively impact services gross margin through fiscal year 2021 and potentially longer. We expect license gross margin will fluctuate based on changes in revenue due to multi-year term license and multi-year term license renewal deals as cost of license revenue is expected to be relatively flat compared to prior periods.

Operating Expenses

Our operating expenses consist of research and development, sales and marketing, and general and administrative expenses. The largest components of our operating expenses are personnel costs for our employees and, to a lesser extent, professional services. In each case, personnel costs include salaries, bonuses, commissions, benefits, and stock-based compensation.

We allocate overhead such as information technology support, information security, facilities, and other administrative costs to all functional departments based on headcount. As a result, general overhead expenses are reflected in cost of revenue and each functional operating expense.

	Three Months Ended October 31,					
	2020		2019		Change	
	Amount	As a % of total revenue	Amount	As a % of total revenue	(\$)	(%)
(in thousands, except percentages)						
Operating expenses:						
Research and development	\$ 52,615	30 %	\$ 46,496	30 %	\$ 6,119	13 %
Sales and marketing	36,644	22	33,016	21	3,628	11
General and administrative	21,180	12	21,239	14	(59)	—
Total operating expenses	<u>\$ 110,439</u>	<u>64</u>	<u>\$ 100,751</u>	<u>65</u>	<u>\$ 9,688</u>	<u>10</u>
Includes stock-based compensation of:						
Research and development	\$ 7,247		\$ 6,181		\$ 1,066	
Sales and marketing	5,977		5,157		820	
General and administrative	6,464		6,075		389	
Total	<u>\$ 19,688</u>		<u>\$ 17,413</u>		<u>\$ 2,275</u>	

Research and Development

Our research and development expenses primarily consist of personnel costs for our technical staff and consultants providing professional services.

The \$6.1 million increase in research and development expenses during the three months ended October 31, 2020 compared to the same period a year ago, was primarily due to a \$5.6 million increase in personnel costs associated with higher headcount in fiscal year 2020, additional web hosting costs of \$0.5 million, and professional services costs of \$0.6 million for consultants to support the development of our subscription offerings, information security requirements, and cloud strategy. These increases were partially offset by a decrease in travel costs of \$0.6 million due to COVID-19 travel restrictions.

Our research and development headcount was 810 at October 31, 2020 compared with 724 at October 31, 2019.

We expect our research and development expenses to increase in absolute dollars as we continue to hire and dedicate internal resources to developing, improving, and expanding the functionality of our solutions and migrating our solutions to the cloud. Research and development expenses may also increase if we pursue additional acquisitions.

Sales and Marketing

Our sales and marketing expenses primarily consist of personnel costs for our sales and marketing employees. It also includes travel expenses, professional services for marketing activities, and amortization of certain acquired intangibles.

The \$3.6 million increase in sales and marketing expenses during the three months ended October 31, 2020 compared to the same period a year ago, was primarily attributable to an increase of \$5.4 million in personnel costs due to higher headcount to sell and market our services and products, including an increase of \$1.0 million due to the amortization of contract acquisition costs (primarily commissions), and \$0.4 million in marketing and advertising expenses primarily related to services received during the three months ended October 31, 2020 for our annual Connections User Conference in November 2020. Contract acquisition costs are capitalized when earned and expensed over the anticipated period of time that goods and services are expected to be provided to a customer, which we estimate to be approximately five years. These increases were partially offset by decreases of \$2.1 million in travel costs due to COVID-19 travel restrictions and \$0.4 million from lower amortization of intangible assets.

Our sales and marketing headcount was 416 at October 31, 2020 compared with 364 at October 31, 2019.

We expect our sales and marketing expenses to continue to increase in absolute dollars as we continue to invest in sales and marketing activities to support our business growth and objectives.

General and Administrative

Our general and administrative expenses include executive, finance, human resources, legal, and corporate development and strategy functions, and primarily consist of personnel costs, as well as professional services.

The \$0.1 million decrease during the three months ended October 31, 2020 compared to the same period a year ago, was primarily attributable to decreases in professional services and travel costs of \$1.0 million, partially offset by increases in software and personnel costs of \$0.9 million to support our growth.

Our general and administrative headcount was 359 at October 31, 2020 compared with 290 at October 31, 2019. General and administrative headcount includes personnel in information technology support, information security, facilities, and recruiting whose expenses are allocated across all functional departments.

We expect that our general and administrative expenses will increase in absolute dollars as we continue to invest in personnel, corporate infrastructure, and systems required to support our strategic initiatives, the growth of our business, and our compliance and reporting obligations.

Other Income (Expense)

	Three Months Ended October 31,			
	2020	2019	Change	
	Amount	Amount	(\$)	(%)
	(in thousands, except percentages)			
Interest income	\$ 2,789	\$ 7,636	\$ (4,847)	(63)%
Interest expense	(4,620)	(4,429)	(191)	4 %
Other income (expense), net	2,568	(251)	2,819	(1,123)%

Interest Income

Interest income represents interest earned on our cash, cash equivalents, and investments.

Interest income decreased \$4.8 million during the three months ended October 31, 2020, compared to the same period a year ago, primarily due to lower yields on invested funds.

Interest Expense

Interest expense includes both stated interest and the amortization of debt discount and issuance costs associated with the \$400.0 million aggregate principal amount of our Convertible Senior Notes that were issued in March 2018. The amortization of debt discount and issuance costs are recognized on an effective interest basis. Stated interest expense is consistent in the comparative periods as the outstanding principal and stated interest rate have not changed.

Interest expense for the three months ended October 31, 2020 and 2019 consists of non-cash interest expense related to the amortization of debt discount and issuance costs of \$3.3 million and \$3.2 million respectively, and stated interest of \$1.3 million in both periods.

Other Income (Expense), Net

Other income (expense), net includes foreign exchange gains and losses resulting from fluctuations in foreign exchange rates on monetary asset and monetary liability balances that are denominated in currencies other than the functional currency of the entity in which they are recorded. We currently have entities with a functional currency of the Argentine Peso, Australian Dollar, Brazilian Real, British Pound, Canadian Dollar, Danish Kroner, Euro, Indian Rupee, Japanese Yen, Malaysian Ringgit, New Zealand Dollar, Polish Zloty, Russian Ruble, and Swiss Franc.

Other income (expense), net during the three months ended October 31, 2020 was income of \$2.6 million, as compared to expense of \$0.3 million during the same period a year ago, due to fluctuations in foreign currency exchange rates in those periods.

Provision for (benefit from) Income Taxes

We are subject to taxes in the United States as well as other tax jurisdictions and countries in which we conduct business. Earnings from our non-U.S. activities are subject to local country income tax and may also be subject to U.S. income tax.

	Three Months Ended October 31,			
	2020	2019		Change
	Amount	Amount	(\$)	(%)
	(in thousands, except percentages)			
Provision for (benefit from) income taxes	\$ (10,677)	\$ (6,650)	\$ (4,027)	61 %
Effective tax rate	35 %	31 %		

We recognized an income tax benefit of \$10.7 million and \$6.7 million for the three months ended October 31, 2020 and 2019, respectively. The change in the amount of income taxes recorded for the three months ended October 31, 2020 compared to the same period a year ago was primarily due to the increase in the loss before tax and a tax status change of a foreign subsidiary for U.S. tax purposes. The effective tax rate of 35% for the three months ended October 31, 2020 differs from the statutory U.S. federal income tax rate of 21% due to permanent differences for stock-based compensation including excess tax benefits, GILTI inclusion, research and development credits, certain non-deductible expenses including executive compensation, and the tax status change of a foreign subsidiary.

During the three months ended October 31, 2020, unrecognized tax benefits increased by \$0.3 million. As of October 31, 2020, we had unrecognized tax benefits of \$18.2 million that, if recognized, would affect our effective tax rate.

Non-GAAP Financial Measures

In addition to the key business metrics presented above, we believe that the following non-GAAP financial measures provide useful information to management and investors regarding certain financial and business trends relating to our financial condition and results of operations. Management uses these non-GAAP measures to compare our performance to that of prior periods for trend analysis, for purposes of determining executive and senior management incentive compensation, and for budgeting and planning purposes. We believe that the use of these non-GAAP financial measures provides an additional tool for investors to use in evaluating ongoing operating results and trends and in comparing our financial results with other

software companies because it provides consistency and comparability with past financial performance and assists in comparisons with other companies, many of which present similar non-GAAP financial measures to investors. However, our management does not consider these non-GAAP measures in isolation or as an alternative to financial measures determined in accordance with GAAP.

The non-GAAP financial information is presented for supplemental informational purposes only, should not be considered a substitute for financial information presented in accordance with GAAP, and may be different from similarly-titled non-GAAP measures used by other companies. The principal limitation of these non-GAAP financial measures is that they exclude significant expenses and income that are required by GAAP to be recorded in our financial statements. In addition, they are subject to inherent limitations as they reflect the exercise of judgment by management about which expenses and income are excluded or included in determining these non-GAAP financial measures. We urge investors to review the reconciliation of non-GAAP financial measures to the comparable GAAP financial measures included herein and not to rely on any single financial measure to evaluate the Company's business.

The following table reconciles the specific items excluded from GAAP in the calculation of non-GAAP financial measures for the periods indicated below.

	Three Months Ended October 31,	
	2020	2019
Gross profit reconciliation:		
GAAP gross profit	\$ 78,835	\$ 76,154
Non-GAAP adjustments:		
Stock-based compensation	8,396	7,145
Amortization of intangibles	4,526	4,945
Non-GAAP gross profit	<u>\$ 91,757</u>	<u>\$ 88,244</u>
Income (loss) from operations reconciliation:		
GAAP income (loss) from operations	\$ (31,604)	\$ (24,597)
Non-GAAP adjustments:		
Stock-based compensation	28,084	24,558
Amortization of intangibles	6,323	7,167
Non-GAAP income (loss) from operations	<u>\$ 2,803</u>	<u>\$ 7,128</u>
Net income (loss) reconciliation:		
GAAP net income (loss)	\$ (20,190)	\$ (14,991)
Non-GAAP adjustments:		
Stock-based compensation	28,084	24,558
Amortization of intangibles	6,323	7,167
Amortization of debt discount and issuance costs	3,335	3,156
Tax impact of non-GAAP adjustments ⁽¹⁾	(3,143)	(8,912)
Non-GAAP net income (loss)	<u>\$ 14,409</u>	<u>\$ 10,978</u>
Tax provision (benefit) reconciliation:		
GAAP tax provision (benefit)	\$ (10,677)	\$ (6,650)
Non-GAAP adjustments:		
Stock-based compensation	(22,291)	4,200
Amortization of intangibles	(5,019)	1,227
Amortization of debt discount and issuance costs	(2,647)	540
Tax impact of non-GAAP adjustments ⁽¹⁾	33,100	2,945
Non-GAAP tax provision (benefit)	<u>\$ (7,534)</u>	<u>\$ 2,262</u>
Net income (loss) per share reconciliation:		

GAAP net income (loss) per share — diluted	\$	(0.24)	\$	(0.18)
Non-GAAP adjustments:				
Stock-based compensation		0.34		0.30
Amortization of intangibles		0.08		0.09
Amortization of debt discount and issuance costs		0.04		0.04
Tax impact of non-GAAP adjustments ⁽¹⁾		(0.04)		(0.11)
Non-GAAP dilutive shares excluded from GAAP net income (loss) per share calculation		(0.01)		(0.01)
Non-GAAP net income (loss) per share — diluted	\$	0.17	\$	0.13
Shares used in computing Non-GAAP income (loss) per share amounts:				
GAAP weighted average shares — diluted		83,613,287		82,360,891
Non-GAAP dilutive shares excluded from GAAP income (loss) per share calculation ⁽²⁾		586,287		788,902
Pro forma weighted average shares — diluted		84,199,574		83,149,793

(1) Adjustments reflect the impact on the tax benefit (provision) from all non-GAAP adjustments.

(2) Due to the occurrence of a net loss on a GAAP basis, potentially dilutive securities were excluded from the calculation of GAAP net income (loss) per share, as they would have an anti-dilutive effect. However, these shares have a dilutive effect on non-GAAP net income (loss) per share and, therefore, are included in the non-GAAP net income (loss) per share calculation.

Liquidity and Capital Resources

Our principal sources of liquidity are as follows (in thousands):

	<u>October 31, 2020</u>	<u>July 31, 2020</u>
Cash, cash equivalents, and investments	\$ 1,405,166	\$ 1,434,267
Working capital	\$ 1,163,472	\$ 1,118,020

Cash, Cash Equivalents, and Investments

Our cash and cash equivalents are comprised of cash and liquid investments with remaining maturities of 90 days or less from the date of purchase, primarily commercial paper and money market funds. Substantially all of our investments are comprised of corporate debt securities, U.S. government and agency debt securities, commercial paper, asset-backed securities, and non-U.S. government securities, which include state, municipal and foreign government securities.

As of October 31, 2020, approximately \$42.1 million of our cash and cash equivalents were domiciled in foreign jurisdictions. While we have no current plans to repatriate these funds to the United States, we may repatriate foreign earnings in the future to the extent that the repatriation is not restricted by local laws or there are no substantial incremental costs associated with such repatriation.

Cash Flows

Our cash flows from operations are significantly impacted by timing of invoicing and collections of accounts receivable, annual bonus payments, as well as payments of payroll, commissions, payroll taxes and other taxes. We expect that we will continue to generate positive cash flows from operations on an annual basis, although this may fluctuate significantly on a quarterly basis. In particular, we typically use more cash during the first fiscal quarter ended October 31, as we generally pay cash bonuses to our employees for the prior fiscal year and seasonally higher sales commissions from increased customer orders booked in our fourth fiscal quarter of the prior year. Additionally, our capital expenditures may fluctuate depending on future office build outs and development activities subject to capitalization.

We believe that our existing cash and cash equivalents and sources of liquidity will be sufficient to fund our operations for at least the next 12 months. Our future cash requirements will depend on many factors, including our rate of revenue growth,

the expansion of our sales and marketing activities, the timing and extent of our spending to support our research and development efforts, investments in cloud infrastructure and operating costs, and expansion into other markets. We also may invest in or acquire complementary businesses, applications or technologies, or may expand our Board authorized stock repurchase program approved in October 2020, which may require the use of significant cash resources and/or additional financing.

Share Repurchase Program

In October 2020, our board of directors authorized and approved a stock repurchase program of up to \$200.0 million of our outstanding common stock. During the three months ended October 31, 2020, the Company repurchased 48,997 shares of common stock at an average price of \$102.05 per share, for an aggregate purchase price of \$5.0 million. As of October 31, 2020, \$195.0 million remained available for future share repurchases.

The following summary of cash flows for the periods indicated has been derived from our condensed consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q (in thousands):

	Three Months Ended October 31,	
	2020	2019
Net cash provided by (used in) operating activities	\$ (15,707)	\$ (18,138)
Net cash provided by (used in) investing activities	\$ (53,399)	\$ (57,496)
Net cash provided by (used in) financing activities	\$ (3,284)	\$ 368

Cash Flows from Operating Activities

Net cash used in operating activities was \$15.7 million for the three months ended October 31, 2020 compared to cash used in operating activities of \$18.1 million during the three months ended October 31, 2019. This \$2.4 million decrease in operating cash used was primarily attributable to a \$6.4 million increase in cash provided by working capital activities, partially offset by a \$4.0 million decrease in net income after excluding the impact of non-cash charges such as deferred taxes, stock-based compensation expense, depreciation and amortization expense, and other non-cash items during the three months ended October 31, 2020.

Cash Flows from Investing Activities

Net cash used in investing activities was \$53.4 million for the three months ended October 31, 2020 compared to net cash used in investing activities of \$57.5 million for the three months ended October 31, 2019. The \$4.1 million improvement was primarily due to a \$7.9 million decrease in capital expenditures mainly resulting from the completion of our new headquarters in San Mateo, California in fiscal year 2019, partially offset by \$2 million in new strategic equity investments and a \$1.2 million increase in capitalized software development costs related to our cloud-based services.

Cash Flows from Financing Activities

Net cash used in financing activities for the three months ended October 31, 2020 was \$3.3 million compared to \$0.4 million provided by financing activities for the three months ended October 31, 2019. This \$3.7 million increase in cash used was primarily because we repurchased our common stock with an aggregate value of \$5 million, partially offset by an increase in proceeds from option exercises of \$1.3 million.

Commitments and Contractual Obligations

Our primary contractual obligations consist of our Convertible Senior Notes due in 2025, obligations under leases for our office facilities, and letters of credit we have issued to vendors to guarantee our performance under those arrangements.

See Notes 6, 7 and 8 to our condensed consolidated financial statements included in this Quarterly Report on Form 10-Q for discussions of our Convertible Senior Notes, lease commitments, and letters of credit. There has been no material change in our contractual obligations and commitments other than in the ordinary course of business since our fiscal year ended July 31, 2020. See the Annual Report on Form 10-K for the fiscal year ended July 31, 2020 for additional information regarding the Company's contractual obligations.

Off-Balance Sheet Arrangements

Through October 31, 2020, we did not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

ITEM 3. Quantitative and Qualitative Disclosures about Market Risk

We are exposed to market risks in the ordinary course of our business. Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. Our market risk exposure is primarily a result of fluctuations in interest rates and foreign currency exchange rates. We do not hold or issue financial instruments for trading purposes.

Interest Rate Sensitivity

Our exposure to market risk for changes in interest rates relates primarily to our cash, cash equivalents, and investments. Our cash, cash equivalents, and investments as of October 31, 2020 and July 31, 2020 were \$1,405.2 million and \$1,434.3 million, respectively, primarily consisting of cash, money market funds, corporate debt securities, U.S. government and agency debt securities, commercial paper, asset-backed securities, and non-U.S. government securities, which include state, municipal, and foreign government securities. Changes in U.S. interest rates affect the interest earned on our cash, cash equivalents, and marketable securities, and the market value of those securities. A hypothetical 100 basis point increase in interest rates would have resulted in a decrease of \$6.1 million and \$5.6 million in the market value of our available-for-sale securities as of October 31, 2020 and July 31, 2020, respectively. Any realized gains or losses resulting from such interest rate changes would only occur if we sold the investments prior to maturity.

Foreign Currency Exchange Risk

Our results of operations and cash flows are subject to fluctuations due to changes in foreign currency exchange rates, particularly changes in the Argentine Peso, Australian Dollar, Brazilian Real, British Pound, Canadian Dollar, Danish Kroner, Euro, Indian Rupee, Japanese Yen, Malaysian Ringgit, New Zealand Dollar, Polish Zloty, Russian Ruble, and Swiss Franc, the currency of the locations within which we currently operate. The volatility of exchange rates depends on many factors that we cannot forecast with reliable accuracy. We believe our operating activities act as a natural hedge for a substantial portion of our foreign currency exposure because we typically collect revenue and incur costs in the currency of the location in which we provide our services. However, our relationships with our customers are long-term in nature so it is difficult to predict if our operating activities will provide a natural hedge in the future. Additionally, changes in foreign currency exchange rates can affect our financial results due to transaction gains or losses related to revaluing certain monetary asset and monetary liability balances that are denominated in currencies other than the functional currency of the entity in which they are recorded. For the three months ended October 31, 2020 and 2019, we recorded foreign currency gains of \$2.6 million and foreign currency losses of \$0.3 million, respectively, in other income (expense) in our condensed consolidated statement of operations primarily due to currency exchange rate fluctuations. We will continue to experience fluctuations in foreign currency exchange rates. If a hypothetical ten percent change in foreign exchange rates were to occur in the future, the resulting transaction gain or loss would be approximately \$16.9 million. As our international operations grow, we will continue to assess our approach to managing our risk relating to fluctuations in currency rates.

Fair Value of Financial Instruments

We do not have material exposure to market risk with respect to investments in financial instruments, as our investments primarily consist of highly liquid investments purchased with a remaining maturity of three years or less. We do not use derivative financial instruments for speculative or trading purposes. However, this current position does not preclude our adoption of specific hedging strategies in the future.

Our strategic investments in privately held securities are in various classes of equity and convertible debt that may have different rights and preferences. The particular securities we hold, and their rights and preferences relative to those of other securities within the capital structure, may impact the magnitude by which our investment value moves in relation to movement of the total enterprise value of the company. As a result, our investment in a specific company may move by more or less than any change in value of that overall company. In addition, the financial success of our investment in any company is typically dependent on a liquidity event, such as public offering, acquisition, or other favorable market event reflecting appreciation to the value of our investment. All of our investments, particularly those in privately held companies, are therefore subject to a risk of partial or total loss of invested capital.

ITEM 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our principal executive officer and principal financial officer, has evaluated 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 (the “Exchange Act”)), as of the end of the period covered by this Quarterly Report on Form 10-Q. Based on such evaluation, our principal executive officer and principal financial officer have concluded that, as of such date, our disclosure controls and procedures were effective.

Inherent Limitations of Internal Controls

Our management, including our principal executive officer and principal financial officer, does not expect that our disclosure controls and procedures or our internal controls will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of a simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the control. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting during the quarter ended October 31, 2020 identified in management’s evaluation pursuant to Rules 13a-15(d) or 15d-15(d) of the Exchange Act that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II – OTHER INFORMATION

ITEM 1. Legal Proceedings

From time to time, we are involved in legal proceedings that arise in the ordinary course of our business. Any such proceedings, whether meritorious or not, could be time consuming, costly, and result in the diversion of significant operational resources and/or management time. Although the outcomes of legal proceedings are inherently difficult to predict, we are not currently involved in any legal proceeding in which the outcome, in our judgment based on information currently available, is likely to have a material adverse effect on our business or financial position.

Other than the matters described in Note 8, *Commitments and Contingencies*, of the notes to our condensed consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q, which are incorporated by reference herein, we are not party to any material pending legal proceedings.

ITEM 1A. Risk Factors

A description of the risks and uncertainties associated with our business is set forth below. You should carefully consider such risks and uncertainties, together with the other information contained in this report, and in our other public filings. If any of such risks and uncertainties actually occurs, our business, financial condition or results of operations could differ materially from the plans, projections and other forward-looking statements included in the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and elsewhere in this report and in our other public filings. In addition, if any of the following risks and uncertainties, or if any other risks and uncertainties, actually occurs, our business, financial condition or results of operations could be harmed substantially, which could cause the market price of our stock to decline, perhaps significantly.

Risk Factor Summary

Our business is subject to numerous risks and uncertainties, including those highlighted in this section of our Quarterly Report on Form 10-Q and summarized below. We have various categories of risks, including risks related to our business and industry; risks related to data security and privacy, intellectual property, and information technology; risks related to legal, regulatory, accounting, and tax matters; risks related to ownership of our common stock; and risks related to our indebtedness and outstanding convertible senior notes, which are discussed more fully below. As a result, this risk factor summary does not contain all of the information that may be important to you, and you should read this risk factor summary together with the more detailed discussion of risks and uncertainties set forth following this section as well as elsewhere in this Quarterly Report on Form 10-Q. Additional risks, beyond those summarized below or discussed elsewhere in this Quarterly Report on Form 10-Q, may apply to our business, activities, or operations as currently conducted or as we may conduct them in the future or in the markets in which we operate or may in the future operate. These risks include, but not limited to, the following:

- The global COVID-19 pandemic, as well as periods of increases or spikes in the number of COVID-19 cases, or future mutations or related strains of the virus in areas in which we operate, could harm our business, results of operations, and financial condition.
- We may experience significant quarterly and annual fluctuations in our results of operations due to a number of factors.
- Seasonal sales patterns may cause significant fluctuations in our results of operations and cash flows and may prevent us from achieving our quarterly or annual forecasts, which may cause our stock price to decline.
- If we fail to successfully manage our transition to a business model focused on delivering cloud-based offerings on a subscription basis or fail to meet stipulated service levels with our subscription services, our results of operations could be harmed.
- We have relied and expect to continue to rely on orders from a relatively small number of customers in the P&C insurance industry for a substantial portion of our revenue and ARR, and the loss of any of these customers would significantly harm our business, results of operations, and financial condition.
- If our products or cloud-based services experience data security breaches, and there is unauthorized access to our customers’ data, we may lose current or future customers and our reputation and business may be harmed.
- Failure of any of our established products or services to satisfy customer demands or to maintain market acceptance could harm our business, results of operations, financial condition, and growth prospects.
- We face intense competition in our market, which could negatively impact our business, results of operations, and financial condition and cause our market share to decline.
- Our sales and implementation cycles are lengthy and variable, depend upon factors outside our control, and could cause us to expend significant time and resources prior to generating revenue.

- Revenue mix, as well as declines in our subscription and support gross margin or our services gross margin, could adversely affect our overall gross margin and profitability.
- Our large customers have substantial negotiating leverage, which may require that we agree to terms and conditions that result in increased cost of sales, decreased revenue, and lower average selling prices and gross margins, all of which could harm our results of operations.
- Our business depends on customers renewing and expanding their license, support, and subscription contracts for our services and products. A decline in our customer renewals and expansions could harm our future results of operations.
- Privacy concerns could result in regulatory changes and impose additional costs and liabilities on us, limit our use of information, and adversely affect our business.
- Our stock price may be volatile, which could result in securities class action litigation against us.
- If we are unable to develop, introduce and market new and enhanced versions of our products, we may be put at a competitive disadvantage.
- The nature of our business requires the application of accounting guidance that requires management to make estimates and assumptions. Reported results under GAAP may vary from key metrics used to measure our business. Additionally, changes in accounting guidance may cause us to experience greater volatility in our quarterly and annual results. If we are unsuccessful in adapting to and interpreting the requirements of new guidance, or in clearly explaining to stockholders how new guidance affects reporting of our results of operations, our stock price may decline.

Risks Related to our Business and Industry

The global COVID-19 pandemic, as well as periods of increases or spikes in the number of COVID-19 cases, or future mutations or related strains of the virus in areas in which we operate, could harm our business, results of operations, and financial condition.

In March 2020, the World Health Organization declared COVID-19 a global pandemic. This pandemic, and the related adverse public health developments, including orders to shelter-in-place, have adversely affected workforces, organizations, economies, and financial markets globally, leading to an economic downturn and increased market volatility. It has also disrupted the normal operations of many businesses, including our business, our customers' businesses, and our SI partners' businesses. This pandemic, as well as intensified measures undertaken to contain the spread of COVID-19 has affected and could further affect the ability to travel to customers and prospects, resulting in delays in services delivery, delays in implementations, and interruptions or modifications in our sales and marketing activities, including Connections, our annual user conference, and harm our business, results of operations, and financial condition. The related impact on the global economy could also decrease technology spending and adversely affect demand for our products. Further, our sales and implementation cycles have increased and could continue to increase, which has resulted in and could result in providing contract terms more favorable to customers and a potentially longer delay between incurring operating expenses and the generation of corresponding revenue, if any, or in difficulty accurately forecasting our financial results. Additionally, our customers may be unable to pay or request amended payment terms for their outstanding invoices due to the economic impacts from COVID-19. As a result of these containment measures and the related economic impact to our business, we may be required to record impairment related to our operating lease assets, investments, long-lived assets, or goodwill. The pandemic also presents operational challenges as our entire workforce is currently working remotely and shifting to assisting customers who are also generally working remotely. It is not possible for us to predict the duration or magnitude of the adverse results of the pandemic and its effects on our business, results of operations, or financial condition at this time. Further, to the extent the COVID-19 pandemic adversely affects our business, results of operations, or financial condition, it may also have the effect of heightening many of the other risks described in this "Risk Factors" section.

We may experience significant quarterly and annual fluctuations in our results of operations due to a number of factors.

Our quarterly and annual results of operations may fluctuate significantly due to a variety of factors, many of which are outside of our control. This variability may lead to volatility in our stock price as investors and research analysts respond to quarterly fluctuations. In addition, comparing our results of operations on a period-to-period basis, particularly on a sequential quarterly basis, may not be meaningful. You should not rely on our past results as an indication of our future performance.

Factors that may affect our results of operations include:

- the impact of economic downturns and related market volatility caused by the COVID-19 pandemic or the recent U.S. presidential election on our business and the businesses of our customers, partners, and vendors;
- our ability to attract new domestic and international customers and renew existing customers;
- seasonal buying patterns of our potential customers and our ability to sell additional software and services to existing customers;
- the proportion and timing of subscription sales as opposed to term or perpetual software licenses, and the variations in revenue recognition between these contract types;

- changes in contract durations of term software licenses and renewals;
- increases in costs related to cloud operations, product development, and services;
- our ability to develop and achieve market adoption of cloud-based services, including the impact of our customers transitioning from term software licenses to subscription services;
- erosion in services margins or significant fluctuations in services revenue caused by changing customer demand, negotiated professional services billing rates, or fixed fee contracts;
- our ability to enter into contracts on favorable terms, including terms related to price, payment timing, service levels, acceptance, and product delivery, especially with customers and prospects that possess substantial negotiating leverage and procurement expertise;
- the incurrence of penalties for failing to meet certain contractual obligations, including service levels, product development cycles and functionality, and implementation times and objectives;
- future accounting pronouncements or changes in accounting rules and our related accounting policies and interpretations;
- our ability to realize expected benefits from our acquisitions;
- reductions in our customers' budgets for information technology purchases and delays in their purchasing cycles;
- the timing of hiring personnel and employee related expenses;
- the impact of a recession or any other adverse global economic condition on our business, including pandemics, trade tariffs, trade agreements, and other uncertainties that may cause a delay in entering into or a failure to enter into significant customer agreements or the fulfillment of professional service arrangements;
- adverse litigation judgments, dispute-related settlement payments, or litigation-related costs;
- fluctuations in foreign currency exchange rates; and
- the effects of inflation or deflation in the economies in which we operate and its impact on our revenues given the multi-year term of most customer agreements.

The foregoing factors are difficult to forecast, and these, as well as other factors, could materially adversely affect our quarterly and annual results of operations. Further, due to multi-year term licenses and multi-year term license renewals, increased cloud-based subscription services, and other ongoing changes to our business, it is challenging to forecast our quarterly and annual results.

We believe our ability to adjust spending quickly enough to compensate for a potential revenue shortfall is very limited and our inability to do so could magnify the adverse impact of a potential revenue shortfall on our results of operations. If we fail to achieve our quarterly forecasts, if our forecasts fall below the expectations of investors or research analysts, or if our actual results fail to meet the expectations of investors or research analysts, our stock price may decline.

Seasonal sales patterns may cause significant fluctuations in our results of operations and cash flows and may prevent us from achieving our quarterly or annual forecasts, which may cause our stock price to decline.

We generally see increased new orders in our fourth fiscal quarter, which is the quarter ended July 31, due to efforts by our sales team to achieve annual incentives. As a result, a significantly higher percentage of our annual license revenue has historically been recognized in our fourth fiscal quarter. Since a substantial majority of our license revenue has annual renewals after the initial term of the contract, we expect to continue to experience this seasonality effect in subsequent years. Generally, accounting under ASC 606 for revenue recognition has and may continue to heighten or change the seasonal impact on our new term licenses and multi-year term license renewals due to license revenue for the entire committed term being recognized at the beginning of the agreement. Because of the upfront nature of revenue recognition for new multi-year term licenses and multi-year term license renewals, any quarter in which a significant deal of this nature is signed, renewed, cancelled, or not renewed when scheduled to do so may be impacted.

We currently anticipate that sales of, and revenue from, subscription services will continue to increase in the future. Subscriptions are recognized ratably over the term of the agreement after provisioning of the service. Over time, this may reduce the impact of our historic revenue seasonality, but in the near term the introduction of proportionally more subscription services into our revenue stream, together with their delayed and ratable recognition, will likely impact quarter over quarter and year-over-year revenue growth comparisons and cash flow because of the ramped nature of the annual installments of these multi-year arrangements. Additionally, Annual Recurring Revenue, or ARR, which reflects the annualized recurring value of active customer contracts at the end of a reporting period, will be impacted by the seasonality of new sales orders, even if the revenue is recognized ratably.

Our quarterly growth in revenue or ARR also may not coincide with new orders or cash flows in a given quarter, which could mask the impact of seasonal variations. This mismatch is primarily due to the following reasons:

- our subscription arrangements are recognized ratably and only a portion of the revenue from an order is recognized in the same fiscal period of the order;
- subscription arrangements generally have ramped invoicing schedules over the initial term, which affects ARR, but revenue is recognized ratably over the initial term;
- our term license agreements and multi-year term license renewals generally have annual billing arrangements even though revenue is recognized upfront for the entire committed term;
- as customers transition from term license to subscription agreements or as we invest in certain cloud implementations to assist our customers with their migration to our cloud services, the timing of revenue recognition may be impacted by the allocation of revenue between different performance obligations;
- we may enter into license agreements with future product delivery requirements, specified terms for product upgrades or functionality, acceptance terms, or unconditional return rights, which may require us to delay revenue recognition for a period of time; and
- revenue recognition may not occur in the period when the order is placed due to certain revenue recognition criteria not being met, such as delivery of the software or providing access to the subscription services.

Additionally, seasonal patterns may be affected by the timing of particularly large transactions and the large number of renewals that occur in the first fiscal quarter. For example, in the first quarter of fiscal year 2021, we achieved higher revenue growth due to a five year renewal of a single license agreement, which resulted in the first quarter of fiscal year 2021 lacking comparability to the prior year period and creating a challenging comparable for the first quarter of fiscal year 2022.

Seasonal and other variations may cause significant fluctuations in our revenues, ARR, results of operations and cash flows, may make it challenging for an investor to predict our performance on a quarterly basis and may prevent us from achieving our quarterly or annual forecasts or meeting or exceeding the expectations of research analysts or investors, which in turn may cause our stock price to decline.

If we fail to successfully manage our transition to a business model focused on delivering cloud-based offerings on a subscription basis or fail to meet stipulated service levels with our subscription services, our results of operations could be harmed.

To address demand trends in the P&C insurance industry, we now offer customers the use of our software products through a cloud-based offering sold on a subscription basis in addition to our self-managed offering. This change to our business model requires a considerable investment of technical, operational, financial, legal, and sales resources. Our software and cloud services involve the storage and transmission of customer data, including in some cases, personal data, and security breaches could result in the loss of this information, which in turn could result in litigation, breach of contract claims, indemnity obligations, harm to our reputation, and other liabilities for us. Our transition to cloud offerings will continue to be the focus of existing resources, require us to hire additional resources, and increase costs, especially in cost of subscription and support revenue and research and development, in any given period. We may not be able to efficiently scale such investments to meet customer demand and expectations, which may impact our long-term growth and results of operations. Further, the increase in some costs associated with our cloud services, such as the cost of public infrastructure in which we rely to host our subscription services, may be difficult to predict over time, especially in light of our limited experience with the costs of delivering cloud-based versions of our applications. Furthermore, we may assume greater responsibilities for implementation related services related to subscription services due to our operating and maintaining the cloud environment for our customers. As a result, we may face risks associated with new and complex implementations, the cost of which may differ from original estimates. Our subscription contracts also contain penalty clauses, for matters such as failing to meet stipulated service levels or other contractual provisions, which represent new risks we are not accustomed to managing. Should these penalties be triggered, our results of operations may be adversely affected. These penalties and costs could take the form of monetary credits for current or future service engagements, reduced fees for additional products or services or upon renewal of existing agreements, and a customer's refusal to pay its contractually-obligated subscription or service fees.

Revenue under our cloud-based subscription model will generally be recognized ratably over the term of the contract. The transition to ratable revenue recognition will result in lower revenue we otherwise would have recognized in the initial period of the customer agreement under term license agreements. This effect on recognized revenue may be magnified in any fiscal year due to the concentration of our orders in the fourth fiscal quarter. A combination of increased costs and delayed recognition of revenue would adversely impact our gross and operating margins compared to prior periods. Additionally, the change in our business model and the timing of our customers decision to transition from self-managed licenses to cloud-based subscription services could negatively affect our ability to forecast the timing and amount of our revenues in any period.

In addition, market acceptance of our cloud-based offerings may be affected by a variety of factors, including, but not limited to, price, security, reliability, performance, customer preference, public concerns regarding privacy, and the enactment

of restrictive laws or regulations. We are in the early stages of re-architecting our existing products and developing new products in an effort to offer customers greater choices on how they utilize our software. As our business practices in this area develop and evolve over time, we may be required to revise our current subscription agreements, which may result in revised terms and conditions that impact how we recognize revenue and the costs and risks associated with these offerings. Whether our product development efforts or business model transition will prove successful and accomplish our business objectives is subject to numerous uncertainties and risks, including, but not limited to, customer demand, our ability to further develop, manage, and scale infrastructure, our ability to include functionality and usability in such offerings that address customer requirements, tax and accounting implications, and our costs.

In addition, the metrics we and our investors use to gauge the status of our business model transition may evolve over the course of the transition as significant trends emerge. It may be difficult, therefore, to accurately determine the impact of this transition on our business on a contemporaneous basis, or to clearly communicate the appropriate metrics to our investors. If we are unable to successfully establish these new cloud offerings and navigate our business model transition in light of the foregoing risks and uncertainties, our reputation could suffer and our results of operations could be harmed, which may cause our stock price to decline.

We have relied and expect to continue to rely on orders from a relatively small number of customers in the P&C insurance industry for a substantial portion of our revenue and ARR, and the loss of any of these customers would significantly harm our business, results of operations, and financial condition.

Our revenue and ARR are dependent on orders from customers in the P&C insurance industry, which may be adversely affected by worldwide economic, environmental, public health, and political conditions. A relatively small number of customers have historically accounted for a significant portion of our revenue. While the composition of our individual top customers has and will vary from year to year, in each of fiscal years 2020, 2019, and 2018, our ten largest customers accounted for 31% of our revenue. Additionally, our ten largest customers based on ARR accounted for 29% of total ARR in fiscal year 2020. Customers for these metrics are calculated at the parent corporation level, while our total customer count is based on entities that have placed orders for our products and services. While we expect this reliance to decrease over time as our revenue, customer base and subscription services as a percentage of revenue grows, we expect that we will continue to depend upon a relatively small number of customers for a significant portion of our revenue for the foreseeable future. As a result, if we fail to successfully sell our products and services to one or more of these anticipated customers in any particular period or fail to identify additional potential customers or such customers purchase fewer of our products or services, defer or cancel orders, fail to renew their license or subscription agreements or otherwise terminate or reduce their relationship with us, our business, results of operations, and financial condition would be harmed. Additionally, if one or more of these anticipated customers enters into or transitions to a subscription agreement in any particular period, or if we fail to achieve the required performance or acceptance criteria for one or more of these relatively small number of customers, our quarterly and annual results of operations may fluctuate significantly.

Failure of any of our established products or services to satisfy customer demands or to maintain market acceptance could harm our business, results of operations, financial condition, and growth prospects.

We derive a significant majority of our revenue and cash flows from our established product offerings, including Guidewire InsuranceSuite via Guidewire Cloud, Guidewire InsuranceSuite for self-managed, Guidewire InsuranceNow, and our digital and data products. We expect to continue to derive a substantial portion of our revenue from these sources. As such, continued market acceptance of these products is critical to our growth and success. Demand for our products is affected by a number of factors, some of which are beyond our control, including the successful implementation of our products, the timing of development and release of new products by us and our competitors, the cost and effort to migrate from self-managed products to subscription services, the ease of integrating our software to third-party software and services, technological advances that reduce the appeal of our products, changes in the regulations that our customers must comply with in the jurisdictions in which they operate, and the growth or contraction in the worldwide market for technological solutions for the P&C insurance industry. If we are unable to continue to meet customer demands, to achieve and maintain a technological advantage over competitors, or to maintain market acceptance of our products, our business, results of operations, financial condition and growth prospects may be adversely affected.

We face intense competition in our market, which could negatively impact our business, results of operations, and financial condition and cause our market share to decline.

The market for our software and services is intensely competitive. The competitors we face in any sale opportunity may change depending on, among other things, the line of business purchasing the software, the application or service being sold, the geography in which the customer is operating, and the size of the insurance carrier to which we are selling. For example, we

are more likely to face competition from small independent firms when addressing the needs of small insurers. These competitors may compete on the basis of price, the time and cost required for implementation, custom development, or unique product features or functions. Outside of the United States, we are more likely to compete against vendors that may differentiate themselves based on local advantages in language, market knowledge, and pre-built content applicable to that jurisdiction. We also compete with vendors of horizontal software products that may be customized to address needs of the P&C insurance industry.

Additionally, many of our prospective customers operate firmly entrenched legacy systems, some of which have been in operation for decades. Our implementation cycles may be lengthy, variable, and require the investment of significant time and expense by our customers. These expenses and associated operating risks attendant on any significant process of re-engineering and technology implementation, may cause customers to prefer maintaining legacy systems. Also, maintaining these legacy systems may be so time consuming and costly for our potential customers that they do not have adequate resources to devote to the purchase and implementation of our products. We also compete against technology consulting firms that either helped create such legacy systems or may own, in full or in part, subsidiaries that develop software and systems for the P&C insurance industry.

As we expand our product portfolio, we may begin to compete with software and service providers we have not competed against previously. Such potential competitors offer data and analytics tools that may, in time, become more competitive with our offerings.

We expect the intensity of competition to remain high in the future, as the amount of capital invested in current and potential competitors, including insurtech companies, has increased significantly in recent years. As a result, our competitors or potential competitors may develop improved product or sales capabilities, or even a technology breakthrough that disrupts our market. Continuing intense competition could result in increased pricing pressure, increased sales and marketing expenses, and greater investments in research and development, each of which could negatively impact our profitability. In addition, the failure to increase, or the loss of, market share would harm our business, results of operations, financial condition, and/or future prospects. Our larger current and potential competitors may be able to devote greater resources to the development, promotion, and sale of their products than we can devote to ours, which could allow them to respond more quickly than we can to new technologies and changes in customer needs, thus leading to their wider market acceptance. We may not be able to compete effectively and competitive pressures may prevent us from acquiring and maintaining the customer base necessary for us to increase our revenue and profitability.

In addition, the insurance industry is evolving rapidly and we anticipate the market for cloud-based solutions will become increasingly competitive. If our current and potential customers move a greater proportion of their data and computational needs to the cloud, new competitors may emerge that offer services either comparable or better suited than ours to address the demand for such cloud-based solutions, which could reduce demand for our offerings. To compete effectively we will likely be required to increase our investment in research and development, as well as the personnel and third-party services required to improve reliability and lower the cost of delivery of our cloud-based solutions. This may increase our costs more than we anticipate and may adversely impact our results of operations.

Our current and potential competitors may also establish cooperative relationships among themselves or with third parties to further enhance their resources and offerings. Current or potential competitors may be acquired by other vendors or third parties with greater available resources. As a result of such acquisitions, our current or potential competitors might be more able than we are to adapt quickly to new technologies and customer needs, to devote greater resources to the promotion or sale of their products and services, to initiate or withstand substantial price competition, or to take advantage of emerging opportunities by developing and expanding their product and service offerings more quickly than we can. Additionally, they may hold larger portfolios of patents and other intellectual property rights as a result of such relationships or acquisitions. If we are unable to compete effectively with these evolving competitors for market share, our business, results of operations, and financial condition could be materially and adversely affected.

Our sales and implementation cycles are lengthy and variable, depend upon factors outside our control, and could cause us to expend significant time and resources prior to generating revenue.

The typical sales cycle for our products and services is lengthy and unpredictable, requires pre-purchase evaluation by a significant number of employees in our customers' organizations, often involves a significant operational decision by our customers, and could be affected by factors outside of our control. Our sales efforts involve educating our customers about the use and benefits of our products, including the technical capabilities of our products and the potential cost savings achievable by organizations deploying our products. Customers typically undertake a significant evaluation process, which frequently involves not only our products, but also those of our competitors. We spend substantial time, effort, and money in our sales

efforts without any assurance that our efforts will produce sales, and our customers have significant negotiating power during the sales process which may result in a lengthy sales cycle and significant contractual complexity. Additionally, we may be unable to predict the size and terms of the initial contract until very late in the sales cycle, which affects our ability to accurately forecast revenue. In addition, we sometimes commit to include specific functions in our base product offering at the request of a customer or group of customers and are unable to recognize revenue until the specific functions have been added to our products. Providing this additional functionality may be time consuming and may involve factors that are outside of our control. Customers may also insist that we commit to certain time frames in which systems built around our products will be operational or that once implemented our products will be able to meet certain operational requirements. Our ability to meet such timeframes and requirements may involve factors that are outside of our control, and failure to meet such timeframes and requirements could result in us incurring penalties and costs and/or making additional resource commitments, which would adversely affect our business and results of operations.

The implementation and testing of our products by our customers typically lasts 6 to 24 months or longer and unexpected implementation delays and difficulties can occur. Implementing our products typically involves integration with our customers' and third parties' systems, as well as adding customer and third-party data to our platform. This process can be complex, time consuming, and expensive for our customers and can result in delays in the implementation and deployment of our products. Failing to meet the expectations of our customers during the implementation of our products could result in a loss of customers and negative publicity about us and our products and services. Such failure could result from deficiencies in our product capabilities or inadequate service engagements by us, our SI partners, or our customers' employees, the latter two of which are beyond our direct control. The consequences of such failure could include and have included monetary credits for current or future service engagements, reduced fees for additional services or products or upon renewals of existing licenses and services, potential reversals of previously recognized revenue, and a customer's refusal to pay their contractually-obligated license, support, or service fees. In addition, time-consuming and delayed implementations may also increase the amount of services personnel we must allocate to each customer, thereby increasing our costs and adversely affecting our business, results of operations, and financial condition.

Furthermore, our sales and implementation cycles could be interrupted or affected by other factors outside of our control. For example, the COVID-19 pandemic has caused sales and implementation cycles to lengthen and has other impacts on our business. We currently have formal restrictions on travel in place, which are in accordance with recommendations by the U.S. government and The Centers for Disease Control and Prevention, and our customers, SI partners, and prospects are likewise enacting their own preventative policies and travel restrictions. Widespread restrictions on travel and in-person meetings could affect services delivery, delay implementations, and interrupt sales activity. We cannot predict whether, for how long, or the extent to which the COVID-19 outbreak may adversely affect our business, results of operations, and financial condition.

Revenue mix, as well as declines in our subscription and support gross margin or our services gross margin, could adversely affect our overall gross margin and profitability.

Our subscription and support revenue was 27% and 21% of total revenue for fiscal years 2020 and 2019, respectively. Our subscription and support revenue produces lower gross margins than our license revenue. The gross margin of our subscription and support revenue was 42% and 51% for fiscal years 2020 and 2019, respectively, while the gross margin for license revenue was 97% and 98% for fiscal years 2020 and 2019, respectively. As our cloud transition continues, we expect that subscription revenue will continue to increase as a percentage of total revenue as we contract with new cloud customers and existing customers migrate from term licenses to subscription services. Additionally, we are incurring significant expenses to develop our cloud services and scale our cloud operations which may result in erosion of our subscription and support gross margin. These trends, along with other factors, some of which may be beyond our control, may adversely affect our overall gross and operating margins. These other factors include the percentage of new customers that enter into subscription services agreements as compared to term license agreements, the revenue impact of allocating total contract consideration between license revenue and subscription and support revenue when existing customers transition from term license to subscription services agreements, investments in certain cloud implementations to assist our customers with their migration to our cloud services, continued growth and efficiency of our cloud operations and technical support teams, and the impact on the global economy as a result of the COVID-19 pandemic or other disasters.

Further, our services revenue was 28% and 35% of total revenue for fiscal years 2020 and 2019, respectively. Our services revenue produces lower gross margin than either our license revenue or our subscription and support revenue. The gross margin of our services revenue was less than 3% for both fiscal years 2020 and 2019. If we experience an increase in the percentage of total revenue represented by services revenue, like we did in fiscal year 2018 due to acquisitions and other factors, such increase could reduce our overall gross and operating margins. Fluctuation in our services revenue can result from several factors, some of which may be beyond our control, including the pace of our customers' migration from term license to subscription services as we continue our cloud transition, change in customer demand for our services team's involvement in

the implementation of new products and services, the rates we charge for our services, our ability to bill our customers for all time incurred to complete a project, the extent and quality of implementations and migrations provided by our SI partners, and the impact on the global economy as a result of the COVID-19 pandemic or other disasters. Additionally, the failure to improve, or the erosion of, our services margin, particularly in combination with any increase in services revenue, could adversely affect our overall gross and operating margins. Services margin may erode if we hire and train additional services personnel to support cloud-based services or markets prior to having customer engagements, if we make investments in customer migrations from self-managed term licenses to subscription services, if we enter into fixed fee services arrangements, if our services personnel are underutilized, or if we require additional personnel on unexpectedly difficult projects to ensure customer success, perhaps without commensurate compensation.

Our large customers have substantial negotiating leverage, which may require that we agree to terms and conditions that result in increased cost of sales, decreased revenue, and lower average selling prices and gross margins, all of which could harm our results of operations.

Some of our customers include the world's largest P&C insurers. These customers have significant bargaining power when negotiating new licenses or subscriptions or renewals of existing agreements, and have the ability to buy similar products from other vendors or develop such systems internally. These customers have and may continue to seek advantageous pricing and other commercial and performance terms that may require us to develop additional features in the products we sell to them or add complexity to our customer agreements. We have been required to, and may continue to be required to, reduce the average selling price of our products in response to these pressures. If we are unable to avoid reducing our average selling prices, our results of operations could be harmed.

Our business depends on customers renewing and expanding their license, support, and subscription contracts for our products. A decline in our customer renewals and expansions could harm our future results of operations.

Our customers have no obligation to renew their term licenses or subscriptions after their contract period expires, and these licenses and subscriptions, if renewed, may be done so on less favorable terms. Moreover, under certain circumstances, our customers have the right to cancel their licenses or subscriptions before they expire. We may not accurately predict future trends in customer renewals. In addition, our perpetual license customers have no obligation to renew their support arrangements after the expiration of the initial contractual period. Our customers' renewal rates may fluctuate or decline because of several factors, including their satisfaction or dissatisfaction with our products and services, the prices of our products and services, the prices of products and services offered by our competitors, reductions in our customers' spending levels due to the macroeconomic environment or other factors, or the sale of their operations to a buyer that is not a current customer.

Also, in some cases, our customers have a right to exercise a perpetual buyout of their term licenses at the end of the initial contract term, which if exercised would eliminate future term license revenue. If our customers do not renew their term licenses or subscriptions for our solutions or renew on less favorable terms, our revenue may decline or grow more slowly than expected and our profitability may be harmed.

If we are unable to develop, introduce and market new and enhanced versions of our products, we may be put at a competitive disadvantage.

Our success depends on our continued ability to develop, introduce, and market new and enhanced versions of our products to meet evolving customer requirements. Because some of our products are complex and require rigorous testing, new features, new functionality, and updates to our existing products and services can take us multiple years to develop and bring to market. As we expand internationally, our products and services must be modified and adapted to comply with regulations and other requirements of the countries in which our customers do business. Additionally, market conditions may dictate that we change the delivery method of our products or the technology platform underlying our existing products or that new products be developed on different technology platforms, potentially adding material time and expense to our development cycles. The nature of these development cycles may cause us to experience delays between the time we incur expenses associated with research and development and the time we generate revenue, if any, from such expenses.

If we fail to develop new products, enhance our existing products, or migrate our products to the cloud, our business could be adversely affected, especially if our competitors are able to introduce products with enhanced functionality in the cloud. It is critical to our success for us to anticipate changes in technology, industry standards, and customer requirements and to successfully introduce new, enhanced, and competitive products to meet our customers' and prospective customers' needs on a timely basis. We have invested and intend to increase investments in research and development and cloud operations to meet these challenges. Revenue may not be sufficient to support the future product development that is required for us to remain

competitive. If we fail to develop products in a timely manner that are competitive in technology and price or develop products that fail to meet customer demands, our market share will decline and our business and results of operations could be harmed. If our research and development efforts do not develop products or features that our customers find valuable, then we might incur impairment charges related to our capitalized software development costs.

Our ability to sell our products is highly dependent on the quality of our professional services and technical support services and the support of our SI partners, and the failure of us or our SI partners to offer high-quality professional services or technical support services could damage our reputation and adversely affect our ability to sell our products and services to new customers and renew agreements with our existing customers.

If we or our SI partners do not effectively assist our customers in deploying our products, successfully help our customers quickly resolve post-deployment issues, assist our customers in migrating from self-managed licenses to subscription services, and provide effective ongoing support, our ability to renew existing agreements and sell additional products and services to existing customers would be adversely affected and our reputation with potential customers could be damaged. Once our products are deployed and integrated with our customers' existing information technology environment, our customers may depend on our technical support services and/or the support of SI partners or internal resources to resolve any issues relating to our products. High-quality support is critical for the continued successful marketing and sale of our products. In addition, as we continue to expand our operations internationally, our support organization will face additional challenges, including those associated with delivering support, training, and documentation in languages other than English. Many enterprise customers require higher levels of support than smaller customers. If we fail to meet the requirements of our larger customers, it may be more difficult to sell additional products and services to these customers or to transition existing license customers to subscription services, a key strategy for the growth of our revenue and profitability. In addition, as we further expand our cloud-based products, our professional services and support organization will face new challenges, including hiring, training, and integrating a large number of new professional services personnel with experience in delivering high-quality support for cloud-based offerings. Further, as we continue to rely on SIs to provide deployment, migration, and on-going services, our ability to ensure a high level of quality in addressing customer issues and providing a maintainable and efficient cloud environment could be diminished as we may be unable to control the quality or timeliness of the implementation of our products and services by our SI partners. Our failure to maintain high-quality implementation and support services, or to ensure that SIs provide the same, could have a material adverse effect on our business, results of operations, financial condition, and growth prospects.

We may expand through acquisitions or partnerships with other companies, which may divert our management's attention and result in unexpected operating and technology integration difficulties, increased costs, and dilution to our stockholders.

Our business strategy includes the potential acquisition of shares or assets of companies with software, cloud-based services, technologies, or businesses complementary to ours. Our strategy also includes alliances with such companies. For example, we have made several acquisitions in the past, including Cyence, a Software-as-a-Service company that applies data science and risk analytics to enable P&C insurers to underwrite "21st century risks" such as terrorism, cybersecurity, and reputational risk, in November 2017. Each of our prior acquisitions was initially dilutive to earnings. Acquisitions and alliances may result in unforeseen operating difficulties and expenditures and may not result in the benefits anticipated by such corporate activity. In particular, we may fail to assimilate or integrate the businesses, technologies, services, products, personnel, or operations of the acquired companies, retain key personnel necessary to favorably execute the combined companies' business plan, or retain existing customers or sell acquired products to new customers. Acquisitions and alliances may also disrupt our ongoing business, divert our resources, and require significant management attention that would otherwise be available for ongoing development of our current business. In addition, we may be required to make additional capital investments or undertake remediation efforts to ensure the success of our acquisitions, which may reduce the benefits of such acquisitions. We also may be required to use a substantial amount of our cash or issue debt or equity securities to complete an acquisition or realize the potential of an alliance, which could deplete our cash reserves and/or dilute our existing stockholders. Following an acquisition or the establishment of an alliance offering new products, the timing of revenue from the sale of products that we acquired or that result from the alliance, or from the sale of a bundle of products that includes such new products, may be different than the timing of revenue from existing products. In addition, our ability to maintain favorable pricing of new products may be challenging if we bundle such products with existing products. A delay in the recognition of revenue from sales of acquired or alliance products, or reduced pricing due to bundled sales, may cause fluctuations in our quarterly financial results, may adversely affect our operating margins, and may reduce the benefits of such acquisitions or alliances.

Additionally, competition within the software industry for acquisitions of businesses, technologies, and assets has been, and may continue to be, intense. As such, even if we are able to identify an acquisition that we would like to pursue, the target may be acquired by another strategic buyer or financial buyer such as a private equity firm, or we may otherwise not be able to complete the acquisition on commercially reasonable terms, if at all. Moreover, in addition to our failure to realize the

anticipated benefits of any acquisition, including our revenue or return on investment assumptions, we may be exposed to unknown liabilities or impairment charges to acquired intangible assets and goodwill as a result of acquisitions we do complete.

If we are unable to continue the successful development of our global direct sales force and the expansion of our relationships with our strategic partners, sales of our products and services will suffer and our growth could be slower than we project.

We believe that our future growth will depend on the continued recruiting, retention, and training of our global direct sales force and their ability to obtain new customers, both large and small P&C insurers, and to manage our existing customer base. New hires require significant training and may, in some cases, take more than a year before becoming productive, if at all. If we are unable to hire and develop sufficient numbers of productive global direct sales personnel, sales of our products and services will suffer and our growth will be impeded.

Our SI partners help us reach additional customers. We believe our future growth also will depend on the retention and expansion of successful relationships with SI partners, including with SI partners that will focus on products we may acquire in the future. Our growth in revenue, particularly in international markets, will be influenced by the development and maintenance of relationships with SI partners, including regional and local SI partners. Although we have established relationships with some of the leading SI partners, our products and services may compete directly against products and services that such leading SI partners support or market. Additionally, we are unable to control the quantity or quality of resources that our SI partners commit to implementing our products, or the quality or timeliness of such implementations, or the effects of the COVID-19 pandemic on our SI partners. If our partners do not commit sufficient or qualified resources to these activities, our customers will be less satisfied, be less supportive with references, or may require the investment of our resources at discounted rates. These, and other failures by our partners to successfully implement our products, would have an adverse effect on our business and our results of operations could fail to grow in line with our projections.

Our international sales and operations subject us to additional risks that can adversely affect our business, results of operations, and financial condition.

We sell our products and services to customers located outside the United States, and we are continuing to expand our international operations as part of our growth strategy. In fiscal years 2020, 2019, and 2018, \$279.8 million, \$272.9 million, and \$243.1 million of our revenue, respectively, was from customers outside of the United States. Our current international operations and our plans to expand our international operations subject us to a variety of risks, including:

- increased management, travel, infrastructure, and legal compliance costs associated with having multiple international operations;
- unique terms and conditions in contract negotiations imposed by customers in foreign countries;
- longer payment cycles and difficulties in enforcing contracts and collecting accounts receivable;
- the need to localize our contracts and our products and services for international customers;
- lack of familiarity with and unexpected changes in foreign regulatory requirements;
- increased exposure to fluctuations in currency exchange rates;
- highly inflationary international economies, such as Argentina;
- the burdens and costs of complying with a wide variety of foreign laws and legal standards, including the General Data Protection Regulation in the European Union;
- compliance with the U.S. Foreign Corrupt Practices Act of 1977, as amended, the U.K. Bribery Act and other anti-corruption regulations, particularly in emerging market countries;
- compliance by international staff with accounting practices generally accepted in the United States, including adherence to our accounting policies and internal controls;
- import and export license requirements, tariffs, taxes and other trade barriers;
- increased financial accounting, tax, and reporting burdens and complexities;
- weaker protection of intellectual property rights in some countries;
- multiple and possibly overlapping tax regimes;
- government sanctions that may interfere with our ability to sell into particular countries, such as Russia;
- disruption to our operations caused by epidemics or pandemics, such as COVID-19; and
- political, social, and economic instability abroad, terrorist attacks, and security concerns in general.

As we continue to expand our business globally, our success will depend, in large part, on our ability to anticipate and effectively manage these and other risks associated with our international operations. Any of these risks could harm our international operations and reduce our international sales, adversely affecting our business, results of operations, financial condition and growth prospects.

Failure to manage our expanding operations effectively could harm our business.

We have experienced consistent growth and expect to continue to expand our operations, including the number of employees and the locations and scope of our international operations. Additionally, the COVID-19 pandemic and related shelter in-place orders have resulted in our employees and contractors working from home, bringing new challenges to managing our business and work force. This expansion and changing work environment has placed, and will continue to place, a significant strain on our operational and financial resources and our personnel. To manage our anticipated future operational expansion effectively, we must continue to maintain and may need to enhance our information technology infrastructure and financial and accounting systems and controls, and manage expanded operations and employees in geographically distributed locations. Our growth could require significant capital expenditures and may divert financial resources from other projects, such as the development of new products or investments in cloud operations. If we increase the size of our organization without experiencing an increase in sales of our products and services, we will experience reductions in our gross and operating margins and net income. If we are unable to effectively manage our expanding operations or manage the increase in remote employees, our expenses may increase more than expected, our revenue could decline or grow more slowly than expected, and we may be unable to implement our business strategy.

Incorrect or improper use of our products and services or our failure to properly train customers on how to utilize our products and services could result in customer dissatisfaction and negatively affect our business, results of operations, financial condition, and growth prospects.

Our products and services are complex and are deployed in a wide variety of network environments. The proper use of our products and services requires training of the customer. If our products are not used correctly or as intended, inadequate performance may result. Our products and services may also be intentionally misused or abused by customers or their employees or third parties who are able to access or use our products and services. Because our customers rely on our products, services, and support to manage a wide range of operations, the incorrect or improper use of our products, our failure to properly train customers on how to efficiently and effectively use our products, or our failure to properly provide services to our customers may result in negative publicity or legal claims against us. Also, any failure by us to properly provide training or other services to existing customers will likely result in lost opportunities for follow-on and increased sales of our products and services.

In addition, if there is substantial turnover of customer personnel responsible for the use of our products and services, or if customer personnel are not well trained in the use of our products and services, customers may defer the deployment of our products, may deploy them in a more limited manner than originally anticipated, or may not deploy them at all. Further, if there is substantial turnover of the customer personnel responsible for use of our products and services, our ability to make additional sales may be substantially limited.

We may not be able to obtain capital when desired on favorable terms, if at all, and we may not be able to obtain capital or complete acquisitions through the use of equity without dilution to our stockholders.

We may need additional financing to execute on our current or future business strategies, including to develop new or enhance existing products and services, acquire businesses and technologies, or otherwise to respond to competitive pressures.

If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our existing stockholders could be significantly diluted, and newly-issued securities may have rights, preferences, or privileges senior to those of existing stockholders. If we accumulate additional funds through debt financing, a substantial portion of our operating cash flow may be dedicated to the payment of principal and interest on such indebtedness, thus limiting funds available for our business activities. We cannot be assured that additional financing will be available on terms favorable to us, or at all. If adequate funds are not available, or are not available on acceptable terms, when we desire them, our ability to fund our operations, take advantage of unanticipated opportunities, develop or enhance our products and services, or otherwise respond to competitive pressures would be significantly limited. Any of these factors could harm our results of operations.

Risks Related to Data Security and Privacy, Intellectual Property, and Information Technology

If our products or cloud-based services experience data security breaches, and there is unauthorized access to our customers' data, we may lose current or future customers and our reputation and business may be harmed.

If our security measures are breached or unauthorized access to customer data is otherwise obtained, our cloud services may be perceived as not being secure, customers may reduce the use of or stop using our services, and we may incur significant

liabilities and our reputation could be harmed. Our software and cloud services involve the storage and transmission of customer data, including in some cases, personal data, and security breaches could result in the loss of this information, which in turn could result in litigation, breach of contract claims, indemnity obligations, and other liabilities for our company. While we have taken, and are continually updating, our steps to protect the confidential information and customer data to which we have access, including confidential information we may obtain through our customer support services or customer usage of our cloud-based services, our security measures or the security measures of companies we rely on, such as AWS, could be breached. We rely on third-party technology and systems for a variety of services, including, without limitation, encryption and authentication technology, employee email, content delivery to customers, back-office support, and other functions, and our ability to control or prevent breaches of any of these systems may be beyond our control. Because techniques used to obtain unauthorized access or infiltrate systems change frequently and generally are not identified until they are launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures despite our efforts in implementing and deploying security measures. Although we have developed systems and processes that are designed to protect customer data and prevent data loss and other security breaches, including systems and processes designed to reduce the impact of a security breach at a third-party vendor, such measures cannot provide absolute security. Any or all of these issues could negatively impact our ability to attract new customers or to increase engagement by existing customers, could cause existing customers to elect not to renew their term licenses or subscription agreements, or could subject us to third-party lawsuits, regulatory fines or other action or liability, thereby adversely affecting our results of operations and reputation.

Privacy concerns could result in regulatory changes and impose additional costs and liabilities on us, limit our use of information, and adversely affect our business.

As adoption of our cloud-based services occurs, the amount of customer data, including customer personal information, that we manage, hold, and/or collect continues to increase. In addition, a limited number of our products and services may collect, process, store, and use transaction-level data aggregated across insurers using our common data model. We anticipate that over time we will continue to expand the use and collection of personal information as greater amounts of such personal information may be transferred from our customers to us and we recognize that personal privacy has become a significant issue in the United States, Europe, and many other jurisdictions where we operate. Many federal, state, and foreign legislatures and government agencies have imposed or are considering imposing restrictions and requirements about the collection, use, and disclosure of personal information.

Changes to laws or regulations affecting privacy could impose additional costs and liabilities, including fines, on us and could limit our use of such information to add value for customers, including for example, the California Consumer Privacy Act, the California Privacy Rights Act, which appeared on the ballot for the November 3, 2020 election and as of the date of this report seems likely to pass, and the Court of Justice of the European Union's invalidation of the Privacy Shield framework in July 2020. If we were required to change our business activities or revise or eliminate services, or to implement burdensome compliance measures, our business and results of operations could be harmed. In addition, we may be subject to fines, penalties, and potential litigation if we fail to comply with applicable privacy and/or data security laws, regulations, standards, and other requirements. The costs of compliance with and other burdens imposed by privacy-related laws, regulations, and standards may limit the use and adoption of our products and services and reduce overall demand.

Furthermore, concerns regarding data privacy and/or security may cause our customers' customers to resist providing the data and information necessary to allow our customers to use our products and services effectively. Even the perception that the privacy and/or security of personal information is not satisfactorily managed, or does not meet applicable legal, regulatory, and other requirements, could inhibit sales of our products or services, and could limit adoption of our solutions, resulting in a negative impact on our sales, reputation, and results from operations.

Privacy concerns in the European Union are evolving and we may face fines and other penalties if we fail to comply with these evolving standards, and compliance with these standards may increase our expenses and adversely affect our business and results of operations.

On April 27, 2016 the European Union (EU) adopted the General Data Protection Regulation 2016/679 ("GDPR"), that took effect on May 25, 2018. The GDPR applies to any company established in the European Economic Area ("EEA") and the U.K. as well as to those outside the EEA and the U.K. if they carry out processing of personal data of individuals in the EEA or the U.K. that is related to the offering of goods or services to them or the monitoring of their behavior. The GDPR has enhanced data protection obligations for processors and controllers of personal data, including, for example, expanded disclosures about how personal data is to be used, limitations on retention of personal data, mandatory data breach notification requirements and onerous new obligations on data processors. Non-compliance with the GDPR can trigger fines of up to €20 million, or 4% of total worldwide annual revenues, whichever is higher. Given the breadth and depth of changes in data protection obligations, complying with GDPR requirements has caused us to expend significant resources and such expenditures are likely to continue

into the near future as we respond to new interpretations and enforcement actions and as we continue to negotiate data processing agreements with our customers and business partners.

In addition, the GDPR restricts transfers of personal data outside of the EEA and the U.K. to countries deemed to lack adequate privacy protections, including the U.S., unless an appropriate safeguard specified by the GDPR is implemented, such as the Standard Contractual Clauses (“SCCs”) approved by the European Commission and, until July 16, 2020, the Privacy Shield for EU–U.S. data transfers. We are currently certified to the EU-U.S. Privacy Shield. On July 16, 2020, the European Court of Justice (“ECJ”) invalidated the EU-U.S. Privacy Shield, but it deemed that the SCCs are valid, provided additional safeguards are in place. However, the ECJ ruled that transfers made pursuant to SCCs and other alternative transfer mechanisms need to be analyzed on a case-by-case basis to ensure EU standards of data protection are met in the jurisdiction where the data importer is based, and there continue to be concerns about whether the SCCs and other mechanisms will face additional challenges. Moreover, on September 8, 2020, the Swiss Federal Data Protection and Information Commissioner announced that it no longer considers the Swiss-U.S. Privacy Shield to provide adequate protections for transfers of Swiss personal data to the U.S., following the invalidation of the EU-U.S. Privacy Shield by the ECJ. We are currently certified to the Swiss-U.S. Privacy Shield. On November 10, 2020, the European Data Protection Board (“EDPB”), issued recommendations on the additional safeguards required for SCCs to be valid. We are in the process of reviewing the decision and the recent EDPB guidance, which remains subject to public comment, and assessing any impacts on our data transfer mechanisms. It is possible that the ability to transfer personal data from the EU to the United States will be restricted. We (and many other companies) may be required to adopt additional measures to accomplish and maintain legitimate means for the transfer and receipt of personal data from the EU to the United States and other third-party countries. Until the remaining legal uncertainties regarding how to legally continue transfers pursuant to the SCCs and other mechanisms are settled, we will continue to face uncertainty as to whether our efforts to comply with our obligations under European and Swiss privacy laws will be sufficient.

We may experience hesitancy, reluctance, or refusal by European or multi-national customers to continue to use our services due to the potential risk exposure to such customers as a result of such developments and the current data protection obligations imposed on them by certain data protection authorities. Such customers may also view any alternative approaches to the transfer of any personal data as being too costly, too burdensome, or otherwise objectionable, and therefore may decide not to do business with us.

Given our current transition to more cloud-based services and the current data protection landscape in the EU, we may be subject to greater risk of potential inquiries and/or enforcement actions. We may find it necessary to establish alternative systems to maintain EEA personal data within the EEA, which may involve substantial expense and may cause us to need to divert resources from other aspects of our business, all of which may adversely affect our results from operations. Further, any inability to adequately address privacy concerns in connection with our cloud-based services, or comply with applicable privacy or data protection laws, regulations, and policies, could result in additional cost and liability to us, including fines and harm to our reputation, and adversely affect our ability to offer cloud-based services.

In addition, further to Brexit, the GDPR will continue to apply in the U.K. until the end of the transition period on December 31, 2020. Unless the transitional period is extended, as of January 1, 2021 the GDPR will be brought into U.K. law as the ‘U.K. GDPR’, but there may be further developments about the regulation of particular issues such as U.K.-EU data transfers. We may be required to take steps to ensure the lawfulness of our data transfers, particularly if by the end of the transition period there will not be an European Commission’s adequacy decision regarding the U.K.

Anticipated further evolution of European Union regulations on this topic, including the impact of Brexit on these regulations in the U.K. and any related changes to the regulatory framework in the U.K., may increase substantially the penalties to which we could be subject in the event of any non-compliance. We may incur substantial expense in complying with the new obligations to be imposed by new regulations and we may be required to make significant changes to our software applications and expanding business operations, all of which may adversely affect our results of operations.

Assertions by third parties of infringement or other violation by us of their intellectual property rights could result in significant costs and substantially harm our business and results of operations.

The software industry is characterized by the existence of a large number of patents and frequent claims and related litigation regarding patents and other intellectual property rights. In particular, leading companies in the software industry own large numbers of patents, copyrights, trademarks, and trade secrets, which they may use to assert claims against us. From time to time, third parties holding such intellectual property rights, including leading companies, competitors, patent holding companies, and/or non-practicing entities, may assert patent, copyright, trademark, or other intellectual property claims against us, our customers and partners, and those from whom we license technology and intellectual property.

Although we believe that our products and services do not infringe upon the intellectual property rights of third parties, we cannot assure that third parties will not assert infringement or misappropriation claims against us with respect to current or future products or services, or that any such assertions will not require us to enter into royalty arrangements, result in costly litigation, or result in us being unable to use certain intellectual property. We cannot assure that we are not infringing or otherwise violating any third-party intellectual property rights. Infringement assertions from third parties may involve patent holding companies or other patent owners who have no relevant product revenue, and therefore our own issued and pending patents may provide little or no deterrence to these patent owners in bringing intellectual property rights claims against us.

If we are forced to defend against any infringement or misappropriation claims, whether they are with or without merit, are settled out of court or are determined in our favor, we may be required to expend significant time and financial resources on the defense of such claims. Furthermore, an adverse outcome of a dispute may require us to pay damages, potentially including treble damages and attorneys' fees, if we are found to have willfully infringed a party's intellectual property; cease making, licensing, or using our products or services that are alleged to infringe or misappropriate the intellectual property of others; expend additional development resources to redesign our products or services; enter into potentially unfavorable royalty or license agreements in order to obtain the right to use necessary technologies or works; and to indemnify our partners, customers, and other third parties. Any of these events could seriously harm our business, results of operations, and financial condition.

Real or perceived errors or failures in our products or implementation services may affect our reputation, cause us to lose customers and reduce sales and renewal rates which may harm our business and results of operations and subject us to liability for breach of warranty claims.

Because we offer complex products, undetected errors or failures may exist or occur, especially when products are first introduced or when new versions are released. Our products are often installed and used in large-scale computing environments with different operating systems, system management software, and equipment and networking configurations, which may cause errors or failures in our products or may expose undetected errors, failures, or bugs in our products. Despite testing by us, we may not identify all errors, failures, or bugs in new products or releases until after commencement of commercial sales or installation. In the past, we have discovered software errors, failures, and bugs in some of our offerings after their introduction. Additionally, our Guidewire Cloud offerings rely on third-party hosting services. Any material disruption or slowdown in these services or the systems of third parties who we depend upon could cause outages or delays in our services, which could harm our reputation and adversely affect our results of operations.

We provide our customers with upfront estimates regarding the duration, resources, and costs associated with the implementation of our products. Failure to meet these upfront estimates and the expectations of our customers could result from our product capabilities or service engagements performed by us, our SI partners, or our customers' employees, the latter two of which are beyond our direct control. The consequences could include, and have included, monetary credits for current or future service engagements, reduced fees for additional services or product sales or upon renewals of existing licenses or services, potential reversals of previously recognized revenue, or a customer's refusal to pay its contractually-obligated fees. In addition, time-consuming implementations may also increase the amount of services personnel we must allocate to each customer, thereby increasing our costs and adversely affecting our business, results of operations, and financial condition.

The license, subscription, and support of our services and products creates the risk of significant liability claims against us. Our license and subscription agreements with our customers contain provisions designed to limit our exposure to potential liability claims. It is possible, however, that the limitation of liability provisions contained in such agreements may not be enforced as a result of international, federal, state, and local laws or ordinances or unfavorable judicial decisions. Breach of warranty or damage liability, or injunctive relief resulting from such claims, could harm our results of operations, and financial condition.

Failure to protect our intellectual property could substantially harm our business and results of operations.

Our success depends in part on our ability to enforce and defend our intellectual property rights. We rely upon a combination of trademark, trade secret, copyright, patent, and unfair competition laws, as well as license agreements and other contractual provisions, to do so.

We have filed, and may in the future file, patent applications related to certain of our innovations. We do not know whether those patent applications will result in the issuance of a patent or whether the examination process will require us to narrow our claims. In addition, we may not receive competitive advantages from the rights granted under our patents and other intellectual property. Our existing patents and any patents granted to us or that we otherwise acquire in the future, may be contested, circumvented, or invalidated, and we may not be able to prevent third parties from infringing these patents. Therefore, the

extent of the protection afforded by these patents cannot be predicted with certainty. In addition, given the costs, effort, risks, and downside of obtaining patent protection, including the requirement to ultimately disclose the invention to the public, we may choose not to seek patent protection for certain innovations; however, such patent protection could later prove to be important to our business.

We also rely on several registered and unregistered trademarks to protect our brand. Nevertheless, competitors may adopt service names similar to ours, or purchase our trademarks and confusingly similar terms as keywords in internet search engine advertising programs, thereby impeding our ability to build brand identity and possibly leading to confusion in the marketplace. In addition, there could be potential trade name or trademark infringement claims brought by owners of other registered trademarks or trademarks that incorporate variations of our trademarks. Any claims or customer confusion related to our trademarks could damage our reputation and brand and substantially harm our business and results of operations.

We attempt to protect our intellectual property, technology, and confidential information by generally requiring our employees and consultants to enter into confidentiality agreements and assignment of inventions agreements and third parties to enter into nondisclosure agreements, all of which offer only limited protection. These agreements may not effectively prevent unauthorized use or disclosure of our confidential information, intellectual property, or technology and may not provide an adequate remedy in the event of unauthorized use or disclosure of our confidential information, intellectual property, or technology. Despite our efforts to protect our confidential information, intellectual property, and technology, unauthorized third parties may gain access to our confidential proprietary information, develop and market products or services similar to ours, or use trademarks similar to ours, any of which could materially harm our business and results of operations. In addition, others may independently discover our trade secrets and confidential information, and in such cases, we could not assert any trade secret rights against such parties. Existing United States federal, state, and international intellectual property laws offer only limited protection. The laws of some foreign countries do not protect our intellectual property rights to as great an extent as the laws of the United States, and many foreign countries do not enforce these laws as diligently as governmental agencies and private parties in the United States. Moreover, policing our intellectual property rights is difficult, costly, and may not always be effective.

From time to time, legal action by us may be necessary to enforce our patents and other intellectual property rights, to protect our trade secrets, to determine the validity and scope of the intellectual property rights of others, or to defend against claims of infringement or invalidity. Such litigation could result in substantial costs and diversion of resources and could negatively affect our business, reputation, results of operations, and financial condition. If we are unable to protect our technology and to adequately maintain and protect our intellectual property rights, we may find ourselves at a competitive disadvantage to others who need not incur the additional expense, time, and effort required to create the innovative products that have enabled us to be successful to date.

We and our customers rely on technology and intellectual property of third parties, the loss of which could limit the functionality of our products and disrupt our business.

We use technology and intellectual property licensed from unaffiliated third parties in certain of our products, and we may license additional third-party technology and intellectual property in the future. Any errors or defects in this third-party technology and intellectual property could result in errors that could harm our brand and business. In addition, licensed technology and intellectual property may not continue to be available on commercially reasonable terms, or at all. The loss of the right to license and distribute this third-party technology could limit the functionality of our products and might require us to redesign our products.

We may be obligated to disclose our proprietary source code to our customers, which may limit our ability to protect our intellectual property and could reduce the renewals of our support services.

Our software license agreements typically contain provisions permitting the customer to become a party to, or a beneficiary of, a source code escrow agreement under which we place the proprietary source code for our applicable products in escrow with a third party. Under these escrow agreements, the source code to the applicable product may be released to the customer, typically for its use to maintain, modify, and enhance the product, upon the occurrence of specified events, such as our filing for bankruptcy, discontinuance of our support services, and breaching our representations, warranties, or covenants of our agreements with our customers. Additionally, in some cases, customers have the right to request access to our source code upon demand. Some of our customers have obtained the source code for certain of our products by exercising this right, and others may do so in the future.

Disclosing the content of our source code may limit the intellectual property protection we can obtain or maintain for that source code or the products containing that source code and may facilitate intellectual property infringement claims against us.

It also could permit a customer to which a product's source code is disclosed to support and maintain that software product without being required to purchase our support services. Each of these could harm our business, results of operations, and financial condition.

Some of our services and technologies may use "open source" software, which may restrict how we use or distribute our services or require that we release the source code of certain products subject to those licenses.

Some of our services and technologies may incorporate software licensed under so-called "open source" licenses. In addition to risks related to license requirements, usage of open source software can lead to greater risks than use of third-party commercial software, as open source licensors generally do not provide warranties or controls on origin of the software. Additionally, some open source licenses require that source code subject to the license be made available to the public and that any modifications or derivative works to open source software continue to be licensed under open source licenses. These open source licenses typically mandate that proprietary software, when combined in specific ways with open source software, become subject to the open source license. If we combine our proprietary software in such ways with open source software, we could be required to release the source code of our proprietary software.

We take steps to ensure that our proprietary software is not combined with, and does not incorporate, open source software in ways that would require our proprietary software to be subject to many of the restrictions in an open source license. However, few courts have interpreted open source licenses, and the manner in which these licenses may be interpreted and enforced is therefore subject to some uncertainty. Additionally, we rely on hundreds of software programmers to design our proprietary technologies, and although we take steps to prevent our programmers from including objectionable open source software in the technologies and software code that they design, write and modify, we do not exercise complete control over the development efforts of our programmers and we cannot be certain that our programmers have not incorporated such open source software into our proprietary products and technologies or that they will not do so in the future. In the event that portions of our proprietary technology are determined to be subject to an open source license, we could be required to publicly release the affected portions of our source code, re-engineer all or a portion of our technologies, or otherwise be limited in the licensing of our technologies, each of which could reduce or eliminate the value of our services and technologies and materially and adversely affect our business, results of operations, and prospects.

Risks Related to Legal, Regulatory, Accounting, and Tax Matters

The nature of our business requires the application of accounting guidance that requires management to make estimates and assumptions. Reported results under GAAP may vary from key metrics used to measure our business. Additionally, changes in accounting guidance may cause us to experience greater volatility in our quarterly and annual results. If we are unsuccessful in adapting to and interpreting the requirements of new guidance, or in clearly explaining to stockholders how new guidance affects reporting of our results of operations, our stock price may decline.

We prepare our consolidated financial statements to conform to United States Generally Accepted Accounting Principles ("GAAP"). These accounting principles are subject to interpretation by the SEC, FASB, and various bodies formed to interpret and create accounting rules and regulations. New accounting standards, such as ASC 606 - Revenue from Contracts with Customers adopted in fiscal year 2019 or ASC 842 - Leases adopted in fiscal year 2020, or the guidance relating to interpretation and adoption of standards could have a significant effect on our financial results and could affect our business. Additionally, the FASB and the SEC are focused on the integrity of financial reporting, and our accounting policies are subject to scrutiny by regulators and the public.

We cannot predict the impact of future changes to accounting principles or our accounting policies on our financial statements going forward. For example, the Emerging Issues Task Force of the FASB is considering changes that may impact the revenue guidance for the migration from term licenses to subscription services. In addition, were we to change our accounting estimates, including those related to the timing of revenue recognition and those used to allocate revenue between various performance obligations, our reported revenue and results of operations could be significantly impacted. For example, the adoption of ASC 606 introduced many risks, including the following:

- investors' misinterpretation of historic and future trends of our business and what they could mean for the underlying success of our business;
- a divergence between revenue and ARR and cash flow trends; and
- difficulties in explaining our historical results or new known trends.

If we are unsuccessful in adapting to the requirements of the new revenue standard, or if changes to our go-to-market strategy create new risks, then we may experience greater volatility in our quarterly and annual results, which may cause our stock price to decline.

In addition, GAAP requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets, liabilities, equity, revenue, and expenses that are not readily apparent from other sources.

Further, revenue recognition standards require significant judgment and estimates that impact our reported revenue and results of operations. Additionally, reported revenue has and will vary from the ARR and cash flow associated with each customer agreement. This potential difference and variability in the trends of reported amounts may cause volatility in our stock price.

The restatement of our financial statements may and any future restatement could lead to additional risks and uncertainties, including regulatory, stockholder or other actions, loss of investor and counterparty confidence and negative impacts on our stock price.

In April 2019 our audit committee, after consultation with management and discussion with our independent registered public accounting firm, concluded that our previously issued consolidated financial statements for the fiscal years ended July 31, 2018 and 2017 should be restated for the reasons described in the “Explanatory Note” preceding Part I, Item 1 and “Note 1 — The Company and Summary of Significant Accounting Policies — Restatement of Annual Consolidated Financial Statements” of the Consolidated Financial Statements under Item 8 of Part II of our 2018 Form 10-K/A for the fiscal year ended July 31, 2018, filed on June 3, 2019.

As a result of the restatement and associated non-reliance on our previously issued consolidated financial statements for the fiscal years ended July 31, 2018 and 2017, we incurred a number of additional costs and were subject to additional risks, including unanticipated costs for accounting and legal fees in connection with or related to the restatement. In addition, the attention of our management team was diverted by these efforts.

If another restatement were to occur in the future, we would experience similar unanticipated costs and the attention of management would be diverted. We could also be subject to regulatory, stockholder, or other actions in connection with the past or any future restatement, which would, regardless of the outcome, consume management’s time and attention and may result in additional legal, accounting, and other costs. If we do not prevail in any such proceedings, we could be required to pay damages or settlement costs. In addition, the past or any future restatement and related matters could impair our reputation or could cause our customers, stockholders, or other counterparties to lose confidence in us. Any of these occurrences could have a material adverse effect on our business, results of operations, financial condition, and stock price.

If we fail to maintain effective internal control over financial reporting in the future or identify a material weakness in our internal control over financial reporting, our ability to report our financial condition and results of operations in a timely and accurate manner could be adversely affected, investor confidence in our company could diminish, and the value of our common stock may decline.

Preparing our consolidated financial statements involves a number of complex manual and automated processes, which are dependent upon individual data input or review and require significant management judgment. One or more of these processes may result in errors that may not be detected and could result in a material misstatement of our consolidated financial statements. The Sarbanes-Oxley Act of 2002 (the “Sarbanes-Oxley Act”) requires, among other things, that as a publicly-traded company we disclose whether our internal control over financial reporting and disclosure controls and procedures are effective.

A material weakness is a deficiency, or combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or detected on a timely basis.

In fiscal year 2018, management identified a material weakness in our internal control over financial reporting related to the ineffective design and operation of certain process level internal controls over the existence and accuracy of revenue transactions, which we believe has been remediated. While we continually undertake steps to improve our internal control over financial reporting as our business changes, we may not be successful in making the improvements and changes necessary to be able to identify and remediate control deficiencies or material weaknesses in the future. If we are unable to successfully remediate any future material weaknesses in our internal control over financial reporting, the accuracy and timing of our

financial reporting may be adversely affected; our liquidity, access to capital markets and perceptions of our creditworthiness may be adversely affected; we may be unable to maintain compliance with securities laws, stock exchange listing requirements and debt instruments covenants regarding the timely filing of periodic reports; we may be subject to regulatory investigations and penalties; investors may lose confidence in our financial reporting; we may suffer defaults under our debt instruments; and our stock price may decline.

If another material misstatement occurs in the future, we may fail to meet our future reporting obligations. For example, we may fail to file periodic reports in a timely manner or may need to restate our financial results, either of which may cause the price of our stock to decline. Any failure of our internal controls could also adversely affect the results of the periodic management evaluations and annual independent registered public accounting firm attestation reports regarding the effectiveness of our internal control over financial reporting that are required under Section 404 of the Sarbanes-Oxley Act. Effective internal controls are necessary for us to produce reliable financial reports and are important to help prevent financial fraud.

If tax laws change or we experience adverse outcomes resulting from examination of our income tax returns, it could adversely affect our results of operations.

We are subject to federal, state, and local income taxes in the United States and in foreign jurisdictions. Our future effective tax rates and the value of our deferred tax assets could be adversely affected by changes in tax laws, including impacts of the Jobs Act of 2017 ("the Tax Act") and the Coronavirus Aid, Relief, and Economic Security Act ("CARES Act"). The U.S. Treasury Department, the IRS, and other standard-setting bodies are expected to continue to interpret or issue guidance on how provisions of the Tax Act, including the base erosion and anti-abuse tax ("BEAT"), will be applied or otherwise administered. As guidance is issued, we may make adjustments to amounts that we have previously recorded that may materially impact our financial statements in the period in which the adjustments are made and the amount of taxes that we may be required to pay could significantly increase.

In addition, we are subject to the examination of our income tax returns by the IRS and other tax authorities. We regularly assess the likelihood of adverse outcomes resulting from such examinations to determine the adequacy of our provision for income taxes. Significant judgment is required in determining our worldwide provision for income taxes. Although we believe we have made appropriate provisions for taxes in the jurisdictions in which we operate, changes in the tax laws or challenges from tax authorities under existing tax laws could adversely affect our business, financial condition and results of operations.

Further, we are currently under examination by the California Franchise Tax Board for the state income tax returns filed for fiscal years 2018 and 2017. While we do not believe the audit will have a material impact on our results of operations, financial condition, or cash flows, we can offer no guarantee. If any issues addressed in the tax audit are resolved in a manner not consistent with our expectations, we may be required to adjust our provision for income tax in the period in which such resolution occurs, and our results of operations, financial condition, or cash flows could be harmed.

Risks Related to Ownership of Our Common Stock

Our stock price may be volatile, which could result in securities class action litigation against us.

The market price of our common stock could be subject to wide fluctuations in response to, among other things, the risk factors described in this report, the timing and amount of any share repurchases by us, and other factors beyond our control, such as fluctuations in the valuation of companies perceived by investors to be comparable to us and research analyst coverage about our business.

Furthermore, the stock markets have experienced price and volume fluctuations that have affected and continue to affect the market prices of equity securities of many companies. These fluctuations often have been unrelated or disproportionate to the operating performance of those companies. These broad market and industry fluctuations, as well as general economic, political and market conditions, such as recessions, interest rate changes, or international currency fluctuations, have and may continue to affect the market price of our common stock.

In the past, many companies, including us, that have experienced volatility in the market price of their stock have been subject to securities class action litigation. In July 2020, one of our stockholders filed a putative securities class action complaint in the federal court for the Northern District of California, against us and certain of our current or former officers and directors, alleging misstatements and omissions in violation of Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and SEC Rule 10b-5. In October 2020, the suit was voluntarily dismissed without prejudice by plaintiff's counsel. We may become the target of additional complaints of this type of litigation in the future. Securities

litigation against us could result in substantial costs and divert our management's attention from our business, which could seriously harm our business, results of operations, and financial condition.

We currently do not intend to pay dividends on our common stock and, consequently, the only opportunity to achieve a return on investment is if the price of our common stock appreciates.

We currently do not plan to declare dividends on shares of our common stock in the foreseeable future. Consequently, the only opportunity to achieve a return on investment in our company will be if the market price of our common stock appreciates and shares are sold at a profit.

Certain provisions of our certificate of incorporation and bylaws and of Delaware law could prevent a takeover that stockholders consider favorable and could also reduce the market price of our stock.

Our amended and restated certificate of incorporation and our amended and restated bylaws contain provisions that could delay or prevent a merger, acquisition, or other change in control that stockholders may consider favorable, including transactions in which stockholders might otherwise receive a premium for their shares. These provisions may also prevent or delay attempts by stockholders to replace or remove our current management or members of our board of directors. These provisions include:

- not providing for cumulative voting in the election of directors, which limits the ability of minority stockholders to elect director candidates;
- authorizing our board of directors to issue, without stockholder approval, preferred stock rights senior to those of common stock, which could be used to significantly dilute the ownership of a hostile acquirer;
- prohibiting stockholder action by written consent, which forces stockholder action to be taken at an annual or special meeting of our stockholders;
- limiting the persons who may call special meetings of stockholders, which could delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors; and
- requiring advance notification of stockholder nominations and proposals, which may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of us.

The affirmative vote of the holders of at least 66 2/3% of our shares of capital stock entitled to vote is generally necessary to amend or repeal the above provisions that are contained in our amended and restated certificate of incorporation. Also, absent approval of our board of directors, our amended and restated bylaws may only be amended or repealed by the affirmative vote of the holders of at least 50% of our shares of capital stock entitled to vote.

In addition, we are subject to the provisions of Section 203 of the Delaware General Corporation Law. These provisions may prohibit large stockholders, in particular those owning 15% or more of our outstanding common stock, from engaging in certain business combinations without approval of substantially all of our stockholders for a certain period of time.

These and other provisions in our amended and restated certificate of incorporation, our amended and restated bylaws, and under Delaware law could discourage potential takeover attempts, reduce the price that investors might be willing to pay for shares of our common stock in the future and result in the market price being lower than it would be without these provisions.

Further, while our board of directors has amended our amended and restated certificate of incorporation to gradually declassify our board of directors, our board of directors will be partially classified until the 2021 annual meeting of stockholders when the full board of directors will stand for reelection for a one-year term.

Our amended and restated bylaws designate certain state or federal courts as the exclusive forum for certain litigation that may be initiated by our stockholders, which could limit stockholders' ability to obtain a favorable judicial forum for disputes with us.

Our amended and restated bylaws provide that, unless we consent in writing to the selection of an alternative forum, to the fullest extent permitted by law, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for any state law claim for:

- any derivative action or proceeding brought on our behalf;
- any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers, or other employees to us or our stockholders;

- any action asserting a claim arising pursuant to the Delaware General Corporation Law, our amended and restated certificate of incorporation or our amended and restated bylaws; or
- any action asserting a claim that is governed by the internal affairs doctrine (the “Delaware Forum Provision”).

The Delaware Forum Provision will not apply to any causes of action arising under the Securities Act of 1933, as amended (the “Securities Act”) or the Exchange Act. Further, our amended and restated bylaws provide that, unless we consent in writing to the selection of an alternative forum, the United States District Court for the Northern District of California will be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act (the “Federal Forum Provision”), as we are based in the State of California. In addition, our amended and restated bylaws provide that any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock is deemed to have notice of and consented to the Delaware Forum Provision and the Federal Forum Provision; provided, however, that stockholders cannot and will not be deemed to have waived our compliance with the U.S. federal securities laws and the rules and regulations thereunder.

The Delaware Forum Provision and the Federal Forum Provision in our amended and restated bylaws may impose additional litigation costs on stockholders in pursuing any such claims. Additionally, these forum selection clauses may limit our stockholders’ ability to bring a claim in a judicial forum that they find favorable for disputes with us or our directors, officers or employees, which may discourage the filing of lawsuits against us and our directors, officers and employees, even though an action, if successful, might benefit our stockholders. In addition, while the Delaware Supreme Court ruled in March 2020 that federal forum selection provisions purporting to require claims under the Securities Act be brought in federal court are “facially valid” under Delaware law, there is uncertainty as to whether other courts will enforce our Federal Forum Provision. If the Federal Forum Provision is found to be unenforceable, we may incur additional costs associated with resolving such matters. The Federal Forum Provision may also impose additional litigation costs on stockholders who assert that the provision is not enforceable or invalid. The Court of Chancery of the State of Delaware and the United States District Court for the Northern District of California may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments may be more or less favorable to us than our stockholders.

We cannot guarantee that our share repurchase program will be fully consummated or it will enhance stockholder value, and share repurchases could affect the price of our common stock.

In October 2020, our board of directors authorized and approved a share repurchase program of up to \$200 million of our outstanding common stock. Stock repurchases under the program may be made from time to time, in the open market, in privately negotiated transactions and otherwise, at the discretion of management of the Company and in accordance with applicable federal securities laws, including Rule 10b-18 of the Exchange Act, and other applicable legal requirements. Such repurchases may also be made in compliance with Rule 10b5-1 trading plans entered into by the Company. The timing, pricing, and sizes of these repurchases will depend on a number of factors, including the market price of our common stock and general market and economic conditions. The stock repurchase program does not obligate us to repurchase any dollar amount or number of shares, and the program may be suspended or discontinued at any time, which may result in a decrease in the price of our common stock. The share repurchase program could affect the price of our common stock, increase volatility, and diminish our cash reserves.

Risks Related to Our Indebtedness

Servicing our indebtedness requires a significant amount of cash. We may not have sufficient cash flow from our business to pay our substantial indebtedness, and we may not have the ability to raise the funds necessary to settle for cash conversions of the Convertible Senior Notes or to repurchase the Convertible Senior Notes upon a fundamental change, which could adversely affect our business and results of operations.

As of October 31, 2020, we had outstanding an aggregate principal amount of \$400.0 million of our 1.25% Convertible Senior Notes due 2025 (the “Convertible Senior Notes”). Our indebtedness may increase our vulnerability to any generally adverse economic and industry conditions, and we and our subsidiaries may, subject to the limitations in the terms of our existing and future indebtedness, incur additional debt, secure existing or future debt or recapitalize our debt. If we incur additional indebtedness, the risks related to our business would increase and our ability to service or repay our indebtedness may be adversely impacted.

Pursuant to their terms, holders may convert their Convertible Senior Notes at their option prior to the scheduled maturities of their Convertible Senior Notes under certain circumstances. Upon conversion of the Convertible Senior Notes, unless we elect to deliver solely shares of our common stock to settle such conversion (other than paying cash in lieu of delivering any

fractional share), we will be obligated to make cash payments. In addition, holders of our Convertible Senior Notes will have the right to require us to repurchase their Convertible Senior Notes upon the occurrence of a fundamental change (as defined in the Indenture, dated as of March 13, 2018, between the Company and U.S. Bank National Association, as trustee (the “Trustee”) (the “Base Indenture”), as amended and supplemented by the First Supplemental Indenture, dated as of March 13, 2018, between the Company and the Trustee (together with the Base Indenture, the “Indenture”)) at a repurchase price equal to 100% of the principal amount of the Convertible Senior Notes to be repurchased, plus accrued and unpaid interest, if any, to, but not including, the fundamental change purchase date. Although it is our intention and we currently expect to have the ability to settle the Convertible Senior Notes in cash, there is a risk that we may not have enough available cash or be able to obtain financing at the time we are required to make repurchases of Convertible Senior Notes surrendered therefor or Convertible Senior Notes being converted. In addition, our ability to make payments may be limited by law, by regulatory authority, or by agreements governing our future indebtedness. Our failure to repurchase Convertible Senior Notes at a time when the repurchase is required by the Indenture or to pay any cash payable on future conversions of the Convertible Senior Notes as required by such Indenture would constitute a default under such Indenture. A default under the Indenture or the fundamental change itself could also lead to a default under agreements governing our future indebtedness. If the repayment of the related indebtedness were to be accelerated after any applicable notice or grace periods, we may not have sufficient funds to repay the indebtedness and repurchase the Convertible Senior Notes or make cash payments upon conversions thereof.

Our ability to make scheduled payments of the principal and interest on our indebtedness when due or to make payments upon conversion or repurchase demands with respect to our Convertible Senior Notes, or to refinance our indebtedness as we may need or desire, depends on our future performance, which is subject to economic, financial, competitive, and other factors beyond our control. Our business may not continue to generate cash flow from operations in the future sufficient to satisfy our obligations under our existing indebtedness, and any future indebtedness we may incur, and to make necessary capital expenditures. If we are unable to generate such cash flow, we may be required to adopt one or more alternatives, such as reducing or delaying investments or capital expenditures, selling assets, refinancing, or obtaining additional equity capital on terms that may be onerous or highly dilutive. Our ability to refinance existing or future indebtedness will depend on the capital markets and our financial condition at such time. We may not be able to engage in any of these activities or engage in these activities on desirable terms, which could result in a default on our existing or future indebtedness and have a material adverse effect on our business, results of operations, and financial condition.

The conditional conversion feature of the Convertible Senior Notes, if triggered, may adversely affect our financial condition and results of operations.

In the event the conditional conversion feature of the notes is triggered, holders of our Convertible Senior Notes will be entitled to convert the Convertible Senior Notes at any time during specified periods at their option. If one or more holders elect to convert their Convertible Senior Notes, unless we elect to satisfy our conversion obligation by delivering solely shares of our common stock (other than paying cash in lieu of delivering any fractional share), we would be required to settle a portion or all of our conversion obligation through the payment of cash, which could adversely affect our liquidity. In addition, even if holders do not elect to convert their Convertible Senior Notes, we could be required under applicable accounting rules to reclassify all or a portion of the outstanding principal of the notes as a current rather than long-term liability, which would result in a material reduction of our net working capital.

Transactions relating to our Convertible Senior Notes may affect the value of our common stock.

The conversion of some or all of the Convertible Senior Notes would dilute the ownership interests of existing stockholders to the extent we satisfy our conversion obligation by delivering shares of our common stock upon any conversion of such Convertible Senior Notes. Our Convertible Senior Notes may become in the future convertible at the option of their holders under certain circumstances. If holders of our Convertible Senior Notes elect to convert their notes, we may settle our conversion obligation by delivering to them a significant number of shares of our common stock, which would cause dilution to our existing stockholders.

In connection with the issuance of the Convertible Senior Notes, we entered into capped call transactions with certain financial institutions (the “option counterparties”). The capped call transactions are expected generally to reduce the potential dilution to our common stock upon any conversion of the notes and/or offset any cash payments we are required to make in excess of the principal amount of converted notes, as the case may be, with such reduction and/or offset subject to a cap.

From time to time, the option counterparties or their respective affiliates may modify their hedge positions by entering into or unwinding various derivative transactions with respect to our common stock and/or purchasing or selling our common stock or other securities of ours in secondary market transactions prior to the maturity of the Convertible Senior Notes. This activity could cause a decrease in the market price of our common stock.

The accounting method for convertible debt securities that may be settled in cash, such as the Convertible Senior Notes, could have a material effect on our reported financial results.

Under FASB Accounting Standards Codification 470-20 (“ASC 470-20”), Debt with Conversion and Other Options, an entity must separately account for the liability and equity components of convertible debt instruments (such as the Convertible Senior Notes) that may be settled entirely or partially in cash upon conversion in a manner that reflects the issuer’s economic interest cost. ASC 470-20 requires the value of the conversion option of the Convertible Senior Notes, representing the equity component, to be recorded as additional paid-in capital within stockholders’ equity in our consolidated balance sheets as an original issue discount to the Convertible Senior Notes, which reduces their initial carrying value. The carrying value of the Convertible Senior Notes, net of the discount recorded, will be accreted up to the principal amount of the notes from the issuance date until maturity, which will result in non-cash charges to interest expense in our consolidated statement of operations. Accordingly, we will report lower net income or higher net loss in our financial results because ASC 470-20 requires interest to include both the current period’s accretion of the debt discount and the instrument’s coupon interest, which could adversely affect our reported or future financial results, the trading price of our common stock, and the trading price of the Convertible Senior Notes.

In addition, under certain circumstances, convertible debt instruments (such as the Convertible Senior Notes) that may be settled entirely or partly in cash are currently accounted for utilizing the treasury stock method, the effect of which is that the shares issuable upon conversion of the Convertible Senior Notes are not included in the calculation of diluted earnings per share except to the extent that the conversion value of the Convertible Senior Notes exceeds their principal amount. Under the treasury stock method, for diluted earnings per share purposes, the transaction is accounted for as if the number of shares of common stock that would be necessary to settle such excess, if we elected to settle such excess in shares, are issued.

However, recently issued accounting guidance that will be effective for us on August 1, 2022 will no longer permit the use of the treasury stock method. In August 2020, the FASB issued ASU No. 2020-06, Debt-Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging - Contracts in Entity’s Own Equity (Subtopic 815-40), which simplifies the accounting for convertible instruments. Among other things, the guidance eliminates the treasury stock method to calculate diluted earnings per share for convertible instruments and requires the use of the if-converted method. We are currently evaluating the impact of the new guidance on our consolidated financial statements, however, we believe the requirement to use the if-converted method instead of the treasury stock method of accounting for the shares issuable upon conversion of the Convertible Senior Notes, could adversely affect our diluted earnings per share.

We are subject to counterparty risk with respect to the capped call transactions.

The option counterparties are financial institutions, and we will be subject to the risk that any or all of them might default under the capped call transactions. Our exposure to the credit risk of the option counterparties will not be secured by any collateral. Past global economic conditions have resulted in the actual or perceived failure or financial difficulties of many financial institutions. If an option counterparty becomes subject to insolvency proceedings, we will become an unsecured creditor in those proceedings with a claim equal to our exposure at that time under the capped call transactions with such option counterparty. Our exposure will depend on many factors but, generally, an increase in our exposure will be correlated to an increase in the market price and in the volatility of our common stock. In addition, upon a default by an option counterparty, we may suffer adverse tax consequences and more dilution than we currently anticipate with respect to our common stock. We can provide no assurances as to the financial stability or viability of the option counterparties.

General Risks

Our customers may defer or forego purchases of our products or services in the event of weakened global economic conditions, political transitions, and industry consolidation.

General worldwide economic conditions remain unstable and prolonged economic uncertainties or downturns could harm our business operations or financial results. In particular, pursuant to a decision by referendum in June 2016, the United Kingdom (U.K.) voted to withdraw from the European Union (“Brexit”). The U.K. subsequently withdrew from the European Union on January 31, 2020, subject to a transition period that is set to end on December 31, 2020. Brexit has caused significant volatility in global stock markets and fluctuations in currency exchange rates. Brexit has also caused, and may continue to cause, delays in purchasing decisions by our potential and current customers affected by this transition due to the considerable political and economic uncertainty created by Brexit and uncertainty as to the nature of the U.K.’s long-term relationship with the European Union. Brexit may further result in new regulatory and cost challenges to our U.K. and global operations, particularly with respect to data protection. Depending on the market and regulatory effects of Brexit, it is possible that there

may be adverse practical or operational implications on our business, and prolonged economic uncertainties or downturns caused by Brexit could harm our business and results of operations. In addition, the recent U.S. presidential election could lead to changes in economic conditions or economic uncertainties in the United States and globally.

Further, other global events such as the imposition of various trade tariffs by the United States and China and the COVID-19 pandemic, have created and may continue to create global economic uncertainty, including inflationary pressures, in regions in which we have significant operations. These conditions may make it difficult for our customers and us to forecast and plan future business activities accurately, and could cause our customers to reevaluate their decision to purchase our products, which could delay and lengthen our sales cycles or result in cancellations of planned purchases. Moreover, during challenging economic times our customers may face issues in gaining timely access to sufficient credit, which could result in an impairment of their ability to make timely payments to us. If that were to occur, we may not receive amounts owed to us and may be required to record an accounts receivable allowance, which would adversely affect our financial results. A substantial downturn in the P&C insurance industry may cause firms to react to worsening conditions by reducing their capital expenditures, reducing their spending on information technology, delaying or canceling information technology projects, or seeking to lower their costs by renegotiating vendor contracts. Negative or worsening conditions in the general economy both in the United States and abroad, including conditions resulting from financial and credit market fluctuations, could cause a decrease in corporate spending on enterprise software in general, and in the insurance industry specifically, and negatively affect the rate of growth of our business.

Furthermore, the increased pace of consolidation in the P&C insurance industry may result in reduced overall spending on our products. Acquisitions of customers or potential customers can delay or cancel sales cycles and because we cannot predict the timing or duration of such acquisitions, our results of operations could be materially impacted.

If we are unable to retain our personnel and hire and integrate additional skilled personnel, we may be unable to achieve our goals and our business will suffer.

Our future success depends upon our ability to continue to attract, train, integrate, and retain highly skilled employees, particularly our executive officers, sales and marketing personnel, professional services personnel, cloud operations personnel, and software engineers, especially as we transition to a business model focused on delivering cloud-based offerings. Additionally, our stakeholders increasingly expect us to have a culture that embraces diversity and inclusion. Our inability to attract and retain diverse and qualified personnel, or delays in hiring required personnel, may seriously harm our business, results of operations, and financial condition. If U.S. immigration policy related to skilled foreign workers were materially adjusted, such a change could hamper our efforts to hire highly skilled foreign employees, including highly specialized engineers, which would adversely impact our business.

Any one of our executive officers and other key employees could terminate his or her relationship with us at any time. The loss of one or more of our executive officers or key employees, and any failure to have in place and execute an effective succession plan for key executive officers, could significantly delay or prevent us from achieving our business and/or development objectives and could disrupt or materially harm our business. Although we strive to reduce the challenges of any transition, failure to ensure effective transfer of knowledge and a smooth transition could disrupt or adversely affect our business, results of operations, financial condition, and prospects.

We face competition for qualified individuals from numerous software and other technology companies. Competition for qualified personnel is particularly intense in the San Francisco Bay Area, where our headquarters are located, though we also face significant competition in all of our domestic and foreign development centers. Further, significant amounts of time and resources are required to train technical, sales, services, operations, and other personnel. We may incur significant costs to attract, train, and retain such personnel, and we may lose new employees to our competitors or other technology companies before we realize the benefit of our investment after recruiting and training them.

Also, to the extent that we hire personnel from competitors, we may be subject to allegations that such personnel have been improperly solicited or have divulged proprietary or other confidential information. In addition, we have a limited number of sales people and the loss of several sales people within a short period of time could have a negative impact on our sales efforts. We may be unable to attract and retain suitably qualified individuals who are capable of meeting our growing technical, operational, and managerial requirements, including managing employees and contractors remotely, or we may be required to pay increased compensation in order to do so.

Further, our ability to expand geographically depends, in large part, on our ability to attract, retain, and integrate managers with the appropriate skills to lead the local business and employees. Similarly, our profitability depends on our ability to effectively utilize personnel with the right mix of skills and experience to perform services for our clients, including our ability

to transition employees to new assignments on a timely basis. If we are unable to effectively deploy our employees globally on a timely basis to fulfill the needs of our clients, our reputation could suffer and our ability to attract new clients may be harmed.

Because of the technical nature of our products and services and the dynamic market in which we compete, any failure to attract, integrate, and retain qualified direct sales, professional services, operations, and product development personnel, as well as our contract workers, could harm our ability to generate sales, deliver consulting services, manage our customers' cloud environments, or successfully develop new products and enhancements of existing products.

Factors outside of our control, including, but not limited to, natural catastrophes and terrorism may adversely impact the P&C insurance industry, preventing us from expanding or maintaining our existing customer base and increasing our revenue.

Our customers are P&C insurers that have experienced, and will likely experience in the future, losses from catastrophes or terrorism that may adversely impact their businesses. Catastrophes can be caused by various events, including, without limitation, hurricanes, tsunamis, floods, windstorms, earthquakes, hail, tornadoes, explosions, severe weather, epidemics, pandemics, and fires. Global warming trends and other environmental factors are contributing to an increase in erratic weather patterns globally and intensifying the impact of certain types of catastrophes. Moreover, acts of terrorism or war could cause disruptions to our business or our customers' businesses or the economy as a whole. The risks associated with natural catastrophes and terrorism are inherently unpredictable, and it is difficult to forecast the timing of such events or estimate the amount of losses they will generate. In recent years, for example, parts of the United States suffered extensive damage due to multiple hurricanes and fires and Australia experienced extensive damage due to fires. The combined and expected effect of those losses on P&C insurers is significant. Such losses and losses due to future events may adversely impact our current or potential customers, which may prevent us from maintaining or expanding our customer base and increasing our revenue, as such events may cause customers to postpone purchases and professional service engagements or to discontinue existing projects.

Our revenue, results of operations and cash flows are subject to fluctuations due to changes in foreign currency exchange rates, particularly changes in the Argentine Peso, Australian Dollar, Brazilian Real, British Pound, Canadian Dollar, Danish Kroner, Euro, Indian Rupee, Japanese Yen, Malaysian Ringgit, New Zealand Dollar, Polish Zloty, Russian Ruble, and Swiss Franc.

The volatility of exchange rates depends on many factors that we cannot forecast with reliable accuracy. Although we believe our operating activities act as a natural hedge for a substantial portion of our foreign currency exposure at the cash flow or operating income level because we typically collect revenue and incur costs in the currency of the location in which we provide our applications and services, our relationships with our customers are long-term in nature so it is difficult to predict if our operating activities will provide a natural hedge in the future. In addition, because our contracts are characterized by large annual payments, significant fluctuations in foreign currency exchange rates that coincide with annual payments may affect our cash flows, revenue or financial results in such quarter. Our results of operations may also be impacted by transaction gains or losses related to revaluing certain current asset and liability balances that are denominated in currencies other than the functional currency of the entity in which they are recorded. Moreover, significant and unforeseen changes in foreign currency exchange rates may cause us to fail to achieve our stated projections for revenue and operating income, which could have an adverse effect on our stock price. We will continue to experience fluctuations in foreign currency exchange rates, which, if material, may harm our revenue or results of operations.

Our business is subject to the risks of earthquakes, fire, floods, and other natural catastrophic events, and to interruption by man-made problems such as computer viruses.

Our corporate headquarters and the majority of our operations are located in the San Francisco Bay Area, a region known for seismic activity. A significant natural disaster, such as an earthquake, tsunami, fire, flood, epidemic, or pandemic, such as the COVID-19 pandemic, could have a material adverse impact on our business, results of operations, and financial condition. In addition, our information technology systems are vulnerable to computer viruses, break-ins, and similar disruptions from unauthorized tampering. To the extent that such disruptions result in delays or cancellations of customer orders or collections, or the deployment or availability of our services and products, our business, results of operations, and financial condition would be adversely affected.

ITEM 2. Unregistered Sales of Equity Securities and Use of Proceeds

Repurchases of Equity Securities by the Company during the three months ended October 31, 2020 was as follows (in thousands, except share and per share amounts):

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number Of Shares Purchased As Part Of Publicly Announced Plans Or Programs ⁽¹⁾	Approximate Dollar Value of Shares That May Yet Be Purchased Under The Plans or Programs ⁽¹⁾
August 1, 2020 - August 31, 2020	—	—	—	—
September 1, 2020 - September 30, 2020	—	—	—	—
October 1, 2020 - October 31, 2020	48,997	\$102.05	48,997	\$195,000
Total	48,997	\$102.05	48,997	\$195,000

⁽¹⁾ On October 7, 2020, we announced that our board of directors authorized and approved a share repurchase program of up to \$200.0 million of our outstanding stock. We began repurchasing shares under this program during the first quarter of fiscal year 2021. As of October 31, 2020, we had approximately \$195.0 million remaining for future share repurchases under the share repurchase program. The stock repurchase program does not obligate us to repurchase any dollar amount or number of shares, and the program may be suspended or discontinued at any time. There is no stated expiration for the program.

ITEM 6. Exhibits

The exhibits listed below are filed or incorporated by reference as part of this Report.

Exhibit Number	Description	Incorporated by Reference From Form	Incorporated by Reference From Exhibit Number	Date Filed
3.1	Amended and Restated Certificate of Incorporation	10-Q	3.1	March 5, 2020
3.2	Amended and Restated Bylaws	8-K	3.1	September 14, 2020
4.1	Form of Common Stock certificate of the Registrant	S-1/A	4.1	January 9, 2012
10.1	Executive Agreement, by and between Guidewire Software, Inc. and Michael Rosenbaum, dated August 3, 2019, as amended by First Amendment to Executive Agreement, dated November 4, 2020	Filed herewith		
31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act	Filed herewith		
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act	Filed herewith		
32.1*	Certification of the Chief Executive Officer and the Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act	Furnished herewith		
101.INS	Inline XBRL Instance Document	Filed herewith		
101.SCH	Inline XBRL Taxonomy Extension Schema Document	Filed herewith		
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document	Filed herewith		
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document	Filed herewith		
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document	Filed herewith		
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document	Filed herewith		
104	Cover Page Interactive Data File (formatted as Inline XBRL with applicable taxonomy extension information contained in Exhibits 101)	Filed herewith		

* The certifications furnished in Exhibit 32.1 hereto are deemed to accompany this Quarterly Report on Form 10-Q and will not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended. Such certifications will not be deemed to be incorporated by reference into any filings under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent that the registrant specifically incorporates it by reference.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: December 9, 2020

GUIDEWIRE SOFTWARE, INC.

By: /s/ JEFF COOPER

Jeff Cooper

Chief Financial Officer

(Principal Financial and Accounting Officer)

EXECUTIVE AGREEMENT

This Executive Agreement (“Agreement”) is made as of the 3rd day of August 2019 (the “Effective Date”), between Guidewire Software, Inc., a Delaware corporation (the “Company”), and Mike Rosenbaum (the “Executive”).

In consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. Employment.

(a) **Term.** The Company desires to employ the Executive, and the Executive desires to be employed by the Company, pursuant to the terms of this Agreement, until this Agreement is terminated by either party in accordance with the terms hereof. The Executive’s employment with the Company will be “at will,” meaning that the Executive’s employment may be terminated by the Company or the Executive at any time and for any reason.

(b) **Position.** The Executive will serve as the Chief Executive Officer of the Company and will have such powers and duties as may from time to time be prescribed by the Board of Directors of the Company (the “Board of Directors”), provided that such duties are consistent with the Executive’s position. Subject to approval by the Company’s Board of Directors, following the Effective Date, Executive will also be appointed to the Board of Directors as a director, subject to the terms and conditions of the Company’s certificate of incorporation, bylaws and any shareholder approval requirements. While the Executive renders services to the Company, the Executive will not engage in any other employment, consulting or business activity that would create a conflict of interest with the Company.

2. Compensation and Related Matters.

(a) **Base Salary.** The Executive’s initial annual base salary will be \$750,000, subject to redetermination by the Board of Directors or its Compensation Committee. The annual base salary in effect at any given time is referred to herein as “Base Salary.” The Base Salary will be payable in a manner that is consistent with the Company’s usual payroll practices for senior executives.

(b) **Incentive Compensation.** The Executive will be eligible to be considered for annual cash incentive compensation (“Annual Bonus”) as determined by the Board of Directors or its Compensation Committee from time to time (the “Bonus Plan”). The Executive’s initial Annual Bonus target will be 100% of Base Salary. To earn the Annual Bonus, the Executive must be employed by the Company on the day such Annual Bonus is paid. The Bonus Plan may be revised at the discretion of the Board of Directors or its Compensation Committee at any time, and the Executive will be provided written notice of any such revisions.

(c) **Equity Grant.** Subject to approval by the Company's Board of Directors, the Executive will be granted an award of Restricted Stock Units (the "RSUs") with a value equivalent to \$17,000,000 under the Company's 2011 Stock Plan (the "2011 Plan").

The grant of RSUs will be subject to the terms and conditions of the 2011 Plan and the applicable RSU award agreement as executed by the Executive and the Company (the "RSU Award Agreement"), the terms and conditions of which shall be controlling. The precise number of RSUs granted will be outlined in the RSU Award Agreement and will be calculated applying the Company's grant conversion policy in effect on the grant date – currently the 90-day average closing share price of the Company's stock for the quarter ended prior to the grant date, as determined in the Company's sole discretion according to its standard practice.

The grant of RSUs shall consist of time-based vesting RSUs with a value equivalent to \$7,500,000 ("Time-vesting RSUs"), Company financial-performance-based vesting RSUs with a value equivalent to \$5,700,000 ("PSUs"), and total-shareholder-return-based vesting RSUs with a value equivalent to \$3,800,000 ("TSRs"). Each type of RSU will be subject to the terms of the RSU Award Agreement, and the related vesting terms outlined therein. The Time-vesting RSUs are anticipated to vest over time, with 25% vesting on September 15, 2020, and 6.25% of the Time-vesting RSUs vesting on each subsequent 15th of March, June, September, and December thereafter, until the Time-vesting RSUs are fully vested after 4 years. The PSUs are anticipated to vest based on the Company's financial performance for FY20 (applying the metrics agreed by the Compensation Committee for executive PSU grants), with 25% vesting on September 15, 2020, and 6.25% of the PSUs vesting on each subsequent 15th of March, June, September, and December thereafter, until the PSUs are fully vested after 4 years. The TSRs are anticipated to vest at the end of the three-year performance period, based on the relative shareholder return in comparison to a peer group or index selected by the Compensation Committee for executive TSR grants.

(d) **Other Benefits.** The Executive will be entitled to participate in the Company's employee benefit plans, subject to the terms and the conditions of such plans and to the Company's ability to amend and modify such plans. The Executive will be entitled to paid vacation in accordance with the terms of the Company's vacation policy, as in effect from time to time.

3. **Termination.** The Executive's employment may be terminated under the following circumstances:

(a) **Death.** The Executive's employment will terminate upon the Executive's death.

(b) **Disability.** The Company may terminate the Executive's employment if the Executive is disabled and unable to perform the essential functions of the Executive's then existing position or positions under this Agreement with or without reasonable accommodation for a period of 180 days (which need not be consecutive) in any 12-month period. Nothing in this Section 3(b) will be construed to waive the Executive's rights, if any, under existing law including, without limitation, the Family and Medical Leave Act of 1993, 29 U.S.C. §2601 *et seq.* and the Americans with Disabilities Act, 42 U.S.C. §12101 *et seq.*

(c) Termination by Company for Cause. The Company may terminate the Executive's employment for Cause as determined by the Board of Directors. For purposes of this Agreement, "Cause" means: (i) the Executive's unauthorized use or disclosure of the Company's confidential information or trade secrets, which use or disclosure causes material harm to the Company; (ii) the Executive's material breach of any written agreement between the Executive and the Company; (iii) the Executive's material failure to comply with the Company's written policies or rules after receiving written notification of the failure from the Board of Directors and eight days to cure such failure; (iv) the Executive's conviction of, or plea of "guilty" or "no contest" to, a felony under the laws of the United States or any State; (v) the Executive's gross misconduct in the performance of his duties; (vi) the Executive's continuing failure to perform assigned duties after receiving written notification of the failure from the Board of Directors; or (vii) the Executive's failure to cooperate in good faith with a governmental or internal investigation of the Company or its directors, officers or employees, if the Company has requested the Executive's cooperation therewith. Before a termination for Cause under subparts 3(c)(ii), (v), (vi), or (vii), if the conduct constituting Cause is reasonably curable, then the Board shall provide the Executive with specific written notice of the category and nature of the conduct alleged to constitute Cause, and the Executive shall have a period not less than ten (10) business days following such notice (the "Cure Period"), to remedy the conduct alleged to constitute Cause. If the Executive cures the Cause condition during the Cure Period, then Cause will be deemed not to have occurred.

(d) Termination Without Cause. The Company may terminate the Executive's employment at any time without Cause. Any termination by the Company of the Executive's employment that does not constitute a termination for Cause under Section 3(c) and does not result from the death or disability of the Executive under Sections 3(a) or (b) will be deemed a termination without Cause.

(e) Termination by the Executive. The Executive may terminate employment at any time for any reason, including but not limited to Good Reason. For purposes of this Agreement, "Good Reason" means that the Executive has complied with the "Good Reason Process" (hereinafter defined) following the occurrence of any of the following events: (i) a material diminution in the Executive's responsibilities, authority or duties; (ii) a material diminution in the Executive's Base Salary; (iii) a material change in the geographic location at which the Executive provides services to the Company, which shall be deemed to be such a change that lengthens the Executive's one-way commute distance by more than thirty (30) miles; or (iv) the material breach of this Agreement by the Company. "Good Reason Process" means that (1) the Executive reasonably determines in good faith that a "Good Reason" condition has occurred; (2) the Executive notifies the Company in writing of the first occurrence of the Good Reason condition within 60 days of the first occurrence of such condition; (3) the Executive cooperates in good faith with the Company's efforts, within a Cure Period, to remedy the condition; (4) notwithstanding such efforts, the Good Reason condition continues to exist; and (5) the Executive terminates employment within 60 days after the end of the Cure Period. If the Company cures the Good Reason condition during the Cure Period, Good Reason will be deemed not to have occurred.

(f) **Notice of Termination.** Except for termination as specified in Section 3(a), any termination of the Executive's employment by the Company or any such termination by the Executive will be communicated by written Notice of Termination to the other party hereto. For purposes of this Agreement, a "Notice of Termination" means a notice that indicates the specific termination provision in this Agreement relied upon.

(g) **Date of Termination.** "Date of Termination" means: (i) if the Executive's employment is terminated by death, the date of Executive's death; (ii) if the Executive's employment is terminated on account of disability under Section 3(b) or by the Company for Cause under Section 3(c), the date on which Notice of Termination is given; (iii) if the Executive's employment is terminated by the Company under Section 3(d), 30 days after the date on which a Notice of Termination is given; (iv) if the Executive's employment is terminated by the Executive under Section 3(e) without Good Reason, 30 days after the date on which a Notice of Termination is given, and (v) if the Executive's employment is terminated by the Executive under Section 3(e) with Good Reason, the date on which a Notice of Termination is given after the end of the Cure Period. Notwithstanding the foregoing, in the event that either party gives a Notice of Termination, the Company may unilaterally accelerate the Date of Termination.

4. Compensation Upon Termination.

(a) **Termination Generally.** If the Executive's employment with the Company is terminated for any reason, the Company will pay or provide to the Executive (or to Executive's authorized representative or estate), on or before the time required by law but in no event more than 30 days after the Executive's Date of Termination, any Base Salary earned through the Date of Termination, unpaid expense reimbursements and unused vacation that accrued through the Date of Termination (collectively, the "Accrued Benefits"). Upon any termination of the Executive's employment for any reason, the Executive will tender to the Company the Executive's resignation from all positions with the Company and its subsidiaries, including without limitation, any positions as a member of the Board of Directors of the Company and/or any of its subsidiaries.

(b) **Termination by the Company Without Cause.** If the Executive's employment is terminated by the Company without Cause as provided in Section 3(d), then the Company will pay the Executive the Accrued Benefits. In addition, subject to the Executive signing a general release of claims in favor of the Company and related persons and entities in a form and manner satisfactory to the Company (the "Release") and the expiration of the seven-day revocation period for the Release:

(i) the Company will pay the Executive an amount equal to the sum of the Executive's Base Salary and then-current target Annual Bonus (the "Severance Amount"). The Severance Amount will be paid out in a lump sum, in accordance with the Company's payroll practices, within 60 days after the Date of Termination; provided, however, that if the 60-day period begins in one calendar year and ends in a second calendar year, the Severance Amount will begin to be paid in the second calendar year. Solely for purposes of Section 409A of the Internal Revenue Code of 1986, as amended (the "Code"), each installment payment (if any) is considered a separate payment;

(ii) if the Executive's employment is terminated by the Company without Cause as provided in Section 3(d) prior to the first anniversary of the Effective Date, notwithstanding anything to the contrary in the applicable restricted stock unit agreement, 50% of the outstanding Time-vesting RSUs, as defined in Section 2(c) and held by the Executive, will be fully accelerated and vested as of the Date of Termination;

(iii) if the Executive's employment is terminated by the Company without Cause as provided in Section 3(d) at any point between the first and second anniversary of the Effective Date, notwithstanding anything to the contrary in the applicable restricted stock unit agreement, 25% of the outstanding Time-vesting RSUs, as defined in Section 2(c) and held by the Executive, will be fully accelerated and vested as of the Date of Termination; and

(iv) if the Executive was participating in the Company's group health plan immediately prior to the Date of Termination, then the Company will, in its sole discretion, either (x) continue to provide health coverage to the Executive or (y) pay to the Executive a lump sum cash payment (at the same time as the Severance Amount) equal to the amount of employer contributions that the Company would have made to provide health insurance to the Executive if the Executive had remained employed by the Company, in either case ((x) or (y)), for a period of 12 months. Notwithstanding the foregoing, in the event the Company elects to continue to provide health coverage to the Executive (in lieu of a cash payment), then the Company may discontinue such coverage in the event that the Executive obtains comparable health coverage prior to the end of the period specified above.

For the avoidance of doubt, the acceleration provided in Sections 4(b)(ii) and 4(b)(iii) shall apply solely with respect to the Time-vesting RSUs granted in connection with Executive's initial hiring as defined in Section 2(c) above and not to any other or subsequent equity grants (if any).

5. Change in Control. The provisions of this Section 5 set forth certain terms of an agreement reached between the Executive and the Company regarding the Executive's rights and obligations upon the occurrence of a Change in Control of the Company. These provisions are intended to assure and encourage in advance the Executive's continued attention and dedication to Executive's assigned duties and Executive's objectivity during the pendency and after the occurrence of any such event.

(a) **Change in Control Severance Benefits.** These provisions will apply in lieu of, and expressly supersede, the provisions of Section 4(b) regarding severance pay and benefits upon a termination of employment, if such termination of employment occurs within 2 months before or 12 months after a Change in Control. These provisions will terminate and be of no further force or effect beginning 12 months after the occurrence of a Change in Control. If within 2 months before or within 12 months after a Change in Control, the Executive's employment is terminated by the Company without Cause as provided in Section 3(d) or the Executive terminates employment for Good Reason as provided in Section 3(e), then, subject to the signing of the Release by the Executive and the expiration of the seven-day revocation period for the Release,

(i) the Company will pay the Executive an amount equal to 150% of the sum of Executive's then-current Base Salary and then-current target Annual Bonus (the "CIC Payment"). The CIC Payment will be paid in a single lump sum within 60 days after the Date of Termination; provided, however, that if the 60-day period begins in one calendar year and ends in a second calendar year, the CIC Payment will be paid in the second calendar year; and

(ii) if the Executive was participating in the Company's group health plan immediately prior to the Date of Termination, then the Company will, in its sole discretion, either (x) continue to provide health coverage to the Executive or (y) pay to the Executive a lump sum cash payment (at the same time as the Severance Amount) equal to the amount of monthly employer contributions that the Company would have made to provide health insurance to the Executive if the Executive had remained employed by the Company, in either case ((x) or (y)), for a period of 18 months. Notwithstanding the foregoing, in the event the Company elects to continue to provide health coverage to the Executive (in lieu of a cash payment), then the Company may discontinue such coverage in the event that the Executive obtains comparable health coverage prior to the end of the period specified above; and

(iii) notwithstanding anything to the contrary in any applicable option agreement, restricted stock unit agreement, or other stock-based award agreement, 100% of the then outstanding stock options, restricted stock units, and other stock-based awards held by the Executive will be fully accelerated and vested as of the Date of Termination.

(b) Additional Limitation.

(i) Anything in this Agreement to the contrary notwithstanding, in the event that the amount of any compensation, acceleration, payment or distribution by the Company to or for the benefit of the Executive, whether paid or payable or distributed or distributable pursuant to the terms of this Agreement or otherwise, calculated in a manner consistent with Section 280G of the Code and the applicable regulations thereunder (the "Severance Payments"), would be subject to the excise tax imposed by Section 4999 of the Code, the following provisions will apply:

(A) If the Severance Payments, reduced by the sum of (1) the Excise Tax and (2) the total of the Federal, state, and local income and employment taxes payable by the Executive on the amount of the Severance Payments which are in excess of the Threshold Amount, are greater than or equal to the Threshold Amount, the Executive will be entitled to the full benefits payable under this Agreement.

(B) If the Threshold Amount is less than (x) the Severance Payments, but greater than (y) the Severance Payments reduced by the sum of (1) the Excise Tax and (2) the total of the Federal, state, and local income and employment taxes on the amount of the Severance Payments which are in excess of the Threshold Amount, then the Severance Payments will be reduced (but not below zero) to the extent necessary so that the sum of all Severance Payments will not exceed the Threshold Amount. In such event, the Severance Payments will be reduced in the following order: (1) cash payments not subject to Section 409A of the Code; (2) cash payments subject to Section 409A of the Code; (3) equity-based payments and acceleration; and (4) non-cash forms of benefits. To the extent any payment is to be made over time (e.g., in installments, etc.), then the payments will be reduced in reverse chronological order.

(ii) For the purposes of this Section 5(b), “Threshold Amount” means three times the Executive’s “base amount” within the meaning of Section 280G(b)(3) of the Code and the regulations promulgated thereunder less one dollar (\$1.00); and “Excise Tax” means the excise tax imposed by Section 4999 of the Code, and any interest or penalties incurred by the Executive with respect to such excise tax.

(iii) The determination as to which of the alternative provisions of Section 5(b)(i) will apply to the Executive will be made by an accounting firm selected by the Company (the “Accounting Firm”), which will provide detailed supporting calculations both to the Company and the Executive within 15 business days of the Date of Termination, if applicable, or at such earlier time as is reasonably requested by the Company or the Executive. For purposes of determining which of the alternative provisions of Section 5(b)(i) will apply, the Executive will be deemed to pay federal income taxes at the highest marginal rate of federal income taxation applicable to individuals for the calendar year in which the determination is to be made, and state and local income taxes at the highest marginal rates of individual taxation in the state and locality of the Executive’s residence on the Date of Termination, net of the maximum reduction in federal income taxes which could be obtained from deduction of such state and local taxes. Any determination by the Accounting Firm will be binding upon the Company and the Executive.

(iv) **Change in Control Definition.** For purposes of this Section 5, “Change in Control” means any of the following:

(v) the date any “person,” as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended (the “Act”) (other than the Company, any of its subsidiaries, or any trustee, fiduciary or other person or entity holding securities under any employee benefit plan or trust of the Company or any of its subsidiaries), together with all “affiliates” and “associates” (as such terms are defined in Rule 12b-2 under the Act) of such person, becomes the “beneficial owner” (as such term is defined in Rule 13d-3 under the Act), directly or indirectly, of securities of the Company representing 50 percent or more of the combined voting power of the Company’s then outstanding securities having the right to vote in an election of the Board of Directors (“Voting Securities”) (in such case other than as a result of an acquisition of securities directly from the Company); or

(vi) the date a majority of the members of the Board of Directors is replaced during any 12-month period by directors whose appointment or election is not endorsed by a majority of the members of the Board of Directors before the date of the appointment or election; or

(vii) the date of consummation of (A) any consolidation or merger of the Company where the stockholders of the Company, immediately prior to the consolidation or merger, would not, immediately after the consolidation or merger, beneficially own (as such term is defined in Rule 13d-3 under the Act), directly or indirectly, shares representing in the aggregate more than 50 percent of the voting shares of the Company issuing cash or securities in the consolidation or merger (or of its ultimate parent corporation, if any), or (B) any sale or other transfer (in one transaction or a series of transactions contemplated or arranged by any party as a single plan) of all or substantially all of the assets of the Company.

Notwithstanding the foregoing, a “Change in Control” will not be deemed to have occurred for purposes of the foregoing clause (i) solely as the result of an acquisition of securities by the Company which, by reducing the number of shares of Voting Securities outstanding, increases the proportionate number of Voting Securities beneficially owned by any person to 50 percent or more of the combined voting power of all of the then outstanding Voting Securities; provided, however, that if any person referred to in this sentence will thereafter become the beneficial owner of any additional shares of Voting Securities (other than pursuant to a stock split, stock dividend, or similar transaction or as a result of an acquisition of securities directly from the Company) and immediately thereafter beneficially owns 50 percent or more of the combined voting power of all of the then outstanding Voting Securities, then a “Change in Control” will be deemed to have occurred for purposes of the foregoing clause (i).

6. Section 409A.

(a) Anything in this Agreement to the contrary notwithstanding, if at the time of the Executive’s separation from service within the meaning of Section 409A of the Code, the Company determines that the Executive is a “specified employee” within the meaning of Section 409A(a)(2)(B)(i) of the Code, then to the extent any payment or benefit that the Executive becomes entitled to under this Agreement on account of the Executive’s separation from service would be considered deferred compensation subject to the 20 percent additional tax imposed pursuant to Section 409A(a) of the Code as a result of the application of Section 409A(a)(2)(B)(i) of the Code, such payment will not be payable and such benefit will not be provided until the date that is the earlier of (A) six months and one day after the Executive’s separation from service, or (B) the Executive’s death. If any such delayed cash payment is otherwise payable on an installment basis, the first payment will include a catch-up payment covering amounts that would otherwise have been paid during the six-month period but for the application of this provision, and the balance of the installments will be payable in accordance with their original schedule.

(b) All in-kind benefits provided and expenses eligible for reimbursement under this Agreement will be provided by the Company or incurred by the Executive during the time periods set forth in this Agreement. All reimbursements will be paid as soon as administratively practicable, but in no event will any reimbursement be paid after the last day of the taxable year following the taxable year in which the expense was incurred. The amount of in-kind benefits provided or reimbursable expenses incurred in one taxable year will not affect the in-kind benefits to be provided or the expenses eligible for reimbursement in any other taxable year. Such right to reimbursement or in-kind benefits is not subject to liquidation or exchange for another benefit.

(c) To the extent that any payment or benefit described in this Agreement constitutes “non-qualified deferred compensation” under Section 409A of the Code, and to the extent that such payment or benefit is payable upon the Executive’s termination of employment, then such payments or benefits will be payable only upon the Executive’s “separation from service.” The determination of whether and when a separation from service has occurred will be made in accordance with the presumptions set forth in Treasury Regulation Section 1.409A-1(h).

(d) The parties intend that this Agreement will be administered in accordance with Section 409A of the Code. To the extent that any provision of this Agreement is ambiguous as to its compliance with Section 409A of the Code, the provision will be read in such a manner so that all payments hereunder comply with Section 409A of the Code. The parties agree that this Agreement may be amended, as reasonably requested by either party, and as may be necessary to fully comply with Section 409A of the Code and all related rules and regulations in order to preserve the payments and benefits provided hereunder without additional cost to either party.

(e) The Company makes no representation or warranty and will have no liability to the Executive or any other person if any provisions of this Agreement are determined to constitute deferred compensation subject to Section 409A of the Code but do not satisfy an exemption from, or the conditions of, such Section.

7. Consent to Jurisdiction. The parties hereby consent to the jurisdiction of the Federal and State courts located in San Mateo County, California with respect to all matters arising under this Agreement. Accordingly, with respect to any such court action, the Executive (a) submits to the personal jurisdiction of such courts; (b) consents to service of process; and (c) waives any other requirement (whether imposed by statute, rule of court, or otherwise) with respect to personal jurisdiction or service of process.

8. Integration. This Agreement constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior agreements between the parties concerning such subject matter; provided that the Proprietary Information and Inventions Agreement between the Company and the Executive dated as of the Effective Date, the Indemnification Agreement between the Company and the Executive dated as of the Effective Date, and the RSU Award Agreement will not be superseded by this Agreement but will remain in full force and effect in accordance with its terms.

9. Enforceability. If any portion or provision of this Agreement (including, without limitation, any portion or provision of any section of this Agreement) will to any extent be declared illegal or unenforceable by a court of competent jurisdiction, then the remainder of this Agreement, or the application of such portion or provision in circumstances other than those as to which it is so declared illegal or unenforceable, will not be affected thereby, and each portion and provision of this Agreement will be valid and enforceable to the fullest extent permitted by law.

10. Survival. The provisions of this Agreement will survive the termination of this Agreement and/or the termination of the Executive's employment to the extent necessary to effectuate the terms contained herein.

11. Waiver. No waiver of any provision hereof will be effective unless made in writing and signed by the waiving party. The failure of any party to require the performance of any term or obligation of this Agreement, or the waiver by any party of any breach of this Agreement, will not prevent any subsequent enforcement of such term or obligation or be deemed a waiver of any subsequent breach.

12. **Notices.** Any notices, requests, demands and other communications provided for by this Agreement will be sufficient if in writing and delivered in person or sent by a nationally recognized overnight courier service or by registered or certified mail, postage prepaid, return receipt requested, to the Executive at the last address the Executive has filed in writing with the Company or, in the case of the Company, at its main offices, attention of the Board of Directors.

13. **Amendment.** This Agreement may be amended or modified only by a written instrument signed by the Executive and by a duly authorized representative of the Company.

14. **Governing Law.** This is a California contract and will be construed under and be governed in all respects by the laws of the State of California, without giving effect to the conflict of laws principles of such State.

15. **Counterparts.** This Agreement may be executed in any number of counterparts, each of which when so executed and delivered will be taken to be an original; but such counterparts will together constitute one and the same document.

16. **Successor to Company.** The Company will require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business or assets of the Company expressly to assume and agree to perform this Agreement to the same extent that the Company would be required to perform it if no succession had taken place. Failure of the Company to obtain an assumption of this Agreement at or prior to the effectiveness of any succession will be a material breach of this Agreement.

17. **Gender Neutral.** Wherever used herein, a pronoun in the masculine gender will be considered as including the feminine gender unless the context clearly indicates otherwise.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date and year first above written.

Guidewire Software, Inc.

/s/ Marcus Ryu

Name: Marcus Ryu

Executive

/s/ Michael Rosenbaum

Mike Rosenbaum

FIRST AMENDMENT TO EXECUTIVE AGREEMENT

This First Amendment to Executive Agreement (this “Amendment”) is executed and effective as of November 4, 2020, by and between Guidewire Software, Inc., a Delaware corporation (the “Company”), and Mike Rosenbaum (the “Executive”).

WHEREAS, the Company and the Executive are parties to a certain Executive Agreement dated as of August 3, 2019 (the “Executive Agreement”);

WHEREAS, the Company and the Executive wish to amend the Executive Agreement to include a provision regarding the Company’s Clawback Policy; and

WHEREAS, capitalized terms used herein and not otherwise defined shall have the meanings ascribed to them in the Executive Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. A new Section 18 is hereby added to the Executive Agreement as follows:

“18. **Clawback Policy.** The Executive acknowledges and agrees that the Company’s Clawback Policy (the “Clawback Policy”), as adopted by the Board of Directors, applies to the Executive under this Agreement and in the Executive’s role. The Executive acknowledges and agrees that the Executive has been provided with a copy of the Clawback Policy and understands and agrees to the terms thereunder. The Board of Directors has the authority to amend the Clawback Policy from time-to-time, and any such amended Clawback Policy will continue to apply to the Executive.”

2. All other provisions of the Executive Agreement shall remain in full force and effect according to their respective terms, and nothing contained herein shall be deemed a waiver of any right or abrogation of any obligation otherwise existing under the Executive Agreement except to the extent specifically provided for herein.

3. The validity, interpretation, construction and performance of this Amendment and the Executive Agreement, as amended herein, shall be governed by the laws of the State of California, without giving effect to the conflict of laws principles of such State.

4. This Amendment may be executed in any number of counterparts, each of which when so executed and delivered shall be taken to be an original; but such counterparts shall together constitute one and the same document.

[Signature page follows]

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first set forth above.

GUIDEWIRE SOFTWARE, INC.

By: /s/ Paul Lavin

Name: Paul Lavin
Title: Lead Independent Director

EXECUTIVE

/s/ Mike Rosenbaum

[Signature Page to First Amendment to Executive Agreement]

**CERTIFICATION PURSUANT TO RULE 13a-14(a) OR 15d-14(a) OF
THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF
THE SARBANES-OXLEY ACT OF 2002**

I, Mike Rosenbaum, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Guidewire Software, 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;
 - a) 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
 - b) 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: December 9, 2020

By: /s/ MIKE ROSENBAUM
Mike Rosenbaum
Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO RULE 13a-14(a) OR 15d-14(a) OF
THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF
THE SARBANES-OXLEY ACT OF 2002**

I, Jeff Cooper, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Guidewire Software, 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;
 - a) 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
 - b) 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: December 9, 2020

By: /s/ JEFF COOPER

Jeff Cooper
Chief Financial Officer
(Principal Financial and Accounting Officer)

**CERTIFICATION OF CHIEF EXECUTIVE OFFICER AND CHIEF 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 on Form 10-Q of Guidewire Software, Inc. for the quarterly period ended October 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Mike Rosenbaum, as Chief Executive Officer of Guidewire Software, Inc., hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of his knowledge the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Guidewire Software, Inc.

Date: December 9, 2020

By: /s/ MIKE ROSENBAUM
Mike Rosenbaum
Chief Executive Officer
(Principal Executive Officer)

In connection with the Quarterly Report on Form 10-Q of Guidewire Software, Inc. for the quarterly period ended October 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Jeff Cooper, as Chief Financial Officer of Guidewire Software, Inc., hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of his knowledge the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Guidewire Software, Inc.

Date: December 9, 2020

By: /s/ JEFF COOPER
Jeff Cooper
Chief Financial Officer
(Principal Financial and Accounting Officer)