

REFINITIV

DELTA REPORT

10-Q

BSY - BENTLEY SYSTEMS INC
10-Q - SEPTEMBER 30, 2023 COMPARED TO 10-Q - JUNE 30, 2023

The following comparison report has been automatically generated

TOTAL DELTAS	739
CHANGES	369
DELETIONS	183
ADDITIONS	187

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 **June 30, 2023** **September 30, 2023**
- 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: 001-39548

BENTLEY SYSTEMS, INCORPORATED
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation or organization)

95-3936623
(I.R.S. Employer Identification No.)

685 Stockton Drive
Exton, Pennsylvania
(Address of principal executive offices)

19341
(Zip Code)

Registrant's telephone number, including area code: **(610) 458-5000**

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

Title of each class	Trading Symbol	Name of each exchange on which registered
Class B Common Stock, par value \$0.01 per share	BSY	The Nasdaq Stock Market LLC

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 the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☐

Accelerated filer ☐

Non-accelerated filer ☐

Smaller reporting company ☐

Emerging growth company ☐

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

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

As of **August 1, 2023** **October 31, 2023**, the registrant had **11,601,757** **11,567,627** shares of Class A and **283,364,519** **284,354,543** shares of Class B Common Stock outstanding.

BENTLEY SYSTEMS, INCORPORATED
FORM 10-Q
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CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This report includes forward-looking statements. All statements contained in this report other than statements of historical facts, including statements regarding our future results of operations and financial position, our business strategy, and plans and our objectives for future operations, are forward-looking statements. The words “believe,” “may,” “will,” “could,” “would,” “seeks,” “estimate,” “continue,” “anticipate,” “intend,” “expect,” and similar expressions, as well as statements regarding our focus for the future, are intended to identify forward-looking statements. We have based these forward-looking statements largely on our current expectations, projections, and assumptions about future events and financial trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs. These forward-looking statements are subject to a number of risks, uncertainties, and assumptions, including those described in the section titled “Risk Factors.” Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties, and assumptions, the future events and trends discussed in this report may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. The forward-looking statements, as well as our report as a whole, are subject to risks and uncertainties.

These statements are only current predictions and are subject to known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels of activity, performance, or achievements to be materially different from those anticipated by the forward-looking statements. We discuss many of these risks in this report in greater detail in the section titled “Risk Factors” and elsewhere in this report. You should not rely upon forward-looking statements as predictions of future events.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance, achievements, events, or circumstances reflected in the forward-looking statements will occur. Except as required by law, we undertake no obligation to update any of these forward-looking statements after the date of this report to conform these statements to actual results or revised expectations.

PART I. FINANCIAL INFORMATION

Item 1. Unaudited Consolidated Financial Statements

BENTLEY SYSTEMS, INCORPORATED
Consolidated Balance Sheets
(in thousands, except share and per share data)
(unaudited)

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Assets	Assets			Assets		
Current assets:	Current assets:			Current assets:		
Cash and cash equivalents	Cash and cash equivalents	\$ 82,716	\$ 71,684	Cash and cash equivalents	\$ 66,963	\$ 71,684
Accounts receivable	Accounts receivable	252,863	296,376	Accounts receivable	243,488	296,376
Allowance for doubtful accounts	Allowance for doubtful accounts	(8,656)	(9,303)	Allowance for doubtful accounts	(8,312)	(9,303)
Prepaid income taxes	Prepaid income taxes	20,491	18,406	Prepaid income taxes	25,972	18,406
Prepaid and other current assets	Prepaid and other current assets	44,043	38,732	Prepaid and other current assets	46,128	38,732
Total current assets	Total current assets	391,457	415,895	Total current assets	374,239	415,895
Property and equipment, net	Property and equipment, net	35,520	32,251	Property and equipment, net	38,309	32,251
Operating lease right-of-use assets	Operating lease right-of-use assets	43,248	40,249	Operating lease right-of-use assets	41,434	40,249
Intangible assets, net	Intangible assets, net	271,639	292,271	Intangible assets, net	259,979	292,271
Goodwill	Goodwill	2,252,832	2,237,184	Goodwill	2,251,312	2,237,184
Investments	Investments	26,997	22,270	Investments	30,332	22,270
Deferred income taxes	Deferred income taxes	68,681	52,636	Deferred income taxes	61,664	52,636
Other assets	Other assets	73,553	72,249	Other assets	77,574	72,249
Total assets	Total assets	\$ 3,163,927	\$ 3,165,005	Total assets	\$ 3,134,843	\$ 3,165,005
Liabilities and Stockholders' Equity	Liabilities and Stockholders' Equity			Liabilities and Stockholders' Equity		
Current liabilities:	Current liabilities:			Current liabilities:		
Accounts payable	Accounts payable	\$ 37,423	\$ 15,176	Accounts payable	\$ 26,389	\$ 15,176
Accruals and other current liabilities	Accruals and other current liabilities	398,883	362,048	Accruals and other current liabilities	403,428	362,048
Deferred revenues	Deferred revenues	231,473	226,955	Deferred revenues	211,815	226,955
Operating lease liabilities	Operating lease liabilities	12,533	14,672	Operating lease liabilities	11,430	14,672
Income taxes payable	Income taxes payable	21,383	4,507	Income taxes payable	18,879	4,507
Current portion of long-term debt	Current portion of long-term debt	7,500	5,000	Current portion of long-term debt	8,750	5,000
Total current liabilities	Total current liabilities	709,195	628,358	Total current liabilities	680,691	628,358
Long-term debt	Long-term debt	1,629,483	1,775,696	Long-term debt	1,580,752	1,775,696
Deferred compensation plan liabilities	Deferred compensation plan liabilities	82,641	77,014	Deferred compensation plan liabilities	79,537	77,014
Long-term operating lease liabilities	Long-term operating lease liabilities	32,273	27,670	Long-term operating lease liabilities	31,355	27,670
Deferred revenues	Deferred revenues	16,282	16,118	Deferred revenues	15,189	16,118
Deferred income taxes	Deferred income taxes	37,773	51,235	Deferred income taxes	43,530	51,235
Income taxes payable	Income taxes payable	7,316	8,105	Income taxes payable	7,317	8,105

Other liabilities	Other liabilities	5,192	7,355	Other liabilities	4,311	7,355
Total liabilities	Total liabilities	2,520,155	2,591,551	Total liabilities	2,442,682	2,591,551
Commitments and contingencies (Note 18)	Commitments and contingencies (Note 18)			Commitments and contingencies (Note 18)		
Stockholders' equity:	Stockholders' equity:			Stockholders' equity:		
Preferred stock, \$0.01 par value, authorized 100,000,000 shares; none issued or outstanding as of June 30, 2023 and December 31, 2022		—	—			
Class A Common Stock, \$0.01 par value, authorized 100,000,000 shares; issued and outstanding 11,601,757 shares as of June 30, 2023 and December 31, 2022, and Class B Common Stock, \$0.01 par value, authorized 1,800,000,000 shares; issued and outstanding 283,111,226 and 277,412,730 shares as of June 30, 2023 and December 31, 2022, respectively		2,947	2,890			
Preferred stock, \$0.01 par value, authorized 100,000,000 shares; none issued or outstanding as of September 30, 2023 and December 31, 2022				Preferred stock, \$0.01 par value, authorized 100,000,000 shares; none issued or outstanding as of September 30, 2023 and December 31, 2022	—	—
Class A Common Stock, \$0.01 par value, authorized 100,000,000 shares; issued and outstanding 11,567,627 and 11,601,757 shares as of September 30, 2023 and December 31, 2022, respectively, and Class B Common Stock, \$0.01 par value, authorized 1,800,000,000 shares; issued and outstanding 283,676,579 and 277,412,730 shares as of September 30, 2023 and December 31, 2022, respectively				Class A Common Stock, \$0.01 par value, authorized 100,000,000 shares; issued and outstanding 11,567,627 and 11,601,757 shares as of September 30, 2023 and December 31, 2022, respectively, and Class B Common Stock, \$0.01 par value, authorized 1,800,000,000 shares; issued and outstanding 283,676,579 and 277,412,730 shares as of September 30, 2023 and December 31, 2022, respectively	2,952	2,890
Additional paid-in capital	Additional paid-in capital	1,085,066	1,030,466	Additional paid-in capital	1,108,816	1,030,466
Accumulated other comprehensive loss	Accumulated other comprehensive loss	(87,828)	(89,740)	Accumulated other comprehensive loss	(95,128)	(89,740)
Accumulated deficit	Accumulated deficit	(357,117)	(370,866)	Accumulated deficit	(325,183)	(370,866)
Non-controlling interest	Non-controlling interest	704	704	Non-controlling interest	704	704
Total stockholders' equity	Total stockholders' equity	643,772	573,454	Total stockholders' equity	692,161	573,454
Total liabilities and stockholders' equity	Total liabilities and stockholders' equity	\$ 3,163,927	\$ 3,165,005	Total liabilities and stockholders' equity	\$ 3,134,843	\$ 3,165,005

See accompanying notes to consolidated financial statements.

BENTLEY SYSTEMS, INCORPORATED
Consolidated Statements of Operations
(in thousands, except share and per share data)
(unaudited)

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Revenues:	Revenues:					Revenues:				
Subscriptions	Subscriptions	\$ 259,243	\$ 232,191	\$ 537,088	\$ 473,424	Subscriptions	\$ 270,751	\$ 235,307	\$ 807,839	\$ 708,731
Perpetual licenses	Perpetual licenses	11,718	11,548	21,265	21,753	Perpetual licenses	11,887	9,460	33,152	31,213
Subscriptions and licenses	Subscriptions and licenses	270,961	243,739	558,353	495,177	Subscriptions and licenses	282,638	244,767	840,991	739,944
Services	Services	25,788	24,546	52,807	48,625	Services	23,974	23,565	76,781	72,190
Total revenues	Total revenues	296,749	268,285	611,160	543,802	Total revenues	306,612	268,332	917,772	812,134
Cost of revenues:	Cost of revenues:					Cost of revenues:				
Cost of subscriptions and licenses	Cost of subscriptions and licenses	41,156	36,806	82,087	70,533	Cost of subscriptions and licenses	42,088	37,371	124,175	107,904
Cost of services	Cost of services	25,270	22,888	51,523	44,946	Cost of services	22,588	21,812	74,111	66,758
Total cost of revenues	Total cost of revenues	66,426	59,694	133,610	115,479	Total cost of revenues	64,676	59,183	198,286	174,662
Gross profit	Gross profit	230,323	208,591	477,550	428,323	Gross profit	241,936	209,149	719,486	637,472
Operating expense (income):	Operating expense (income):					Operating expense (income):				
Research and development	Research and development	70,117	64,866	137,917	126,139	Research and development	65,465	63,827	203,382	189,966
Selling and marketing	Selling and marketing	54,364	49,617	106,505	95,562	Selling and marketing	53,757	46,114	160,262	141,676
General and administrative	General and administrative	39,258	40,033	86,065	91,187	General and administrative	42,678	37,794	128,743	128,981
Deferred compensation plan	Deferred compensation plan	3,777	(12,159)	7,923	(17,297)	Deferred compensation plan	(3,160)	(4,576)	4,763	(21,873)
Amortization of purchased intangibles	Amortization of purchased intangibles	9,502	10,517	20,050	20,423	Amortization of purchased intangibles	9,517	10,446	29,567	30,869
Total operating expenses	Total operating expenses	177,018	152,874	358,460	316,014	Total operating expenses	168,257	153,605	526,717	469,619
Income from operations	Income from operations	53,305	55,717	119,090	112,309	Income from operations	73,679	55,544	192,769	167,853
Interest expense, net	Interest expense, net	(9,484)	(7,639)	(20,576)	(14,387)	Interest expense, net	(10,047)	(9,134)	(30,623)	(23,521)
Other income, net	Other income, net	965	3,514	1,254	13,861	Other income, net	5,953	932	7,207	14,793
Income before income taxes	Income before income taxes	44,786	51,592	99,768	111,783	Income before income taxes	69,585	47,342	169,353	159,125
Benefit (provision) for income taxes		3,899	4,674	(5,593)	1,443					
Provision for income taxes						Provision for income taxes	(16,514)	(9,664)	(22,107)	(8,221)

Loss from investments accounted for using the equity method, net of tax	Loss from investments accounted for using the equity method, net of tax	—	(593)	—	(1,165)	Loss from investments accounted for using the equity method, net of tax	(44)	(681)	(44)	(1,846)
Net income	Net income	\$ 48,685	\$ 55,673	\$ 94,175	\$ 112,061	Net income	\$ 53,027	\$ 36,997	\$ 147,202	\$ 149,058
Per share information:	Per share information:					Per share information:				
Net income per share, basic	Net income per share, basic	\$ 0.16	\$ 0.18	\$ 0.30	\$ 0.36	Net income per share, basic	\$ 0.17	\$ 0.12	\$ 0.47	\$ 0.48
Net income per share, diluted	Net income per share, diluted	\$ 0.15	\$ 0.17	\$ 0.29	\$ 0.35	Net income per share, diluted	\$ 0.16	\$ 0.12	\$ 0.46	\$ 0.46
Weighted average shares, basic	Weighted average shares, basic	311,914,602	308,244,778	311,366,371	308,512,924	Weighted average shares, basic	313,069,132	310,116,104	311,915,808	308,959,801
Weighted average shares, diluted	Weighted average shares, diluted	332,352,725	332,275,216	331,831,973	332,208,435	Weighted average shares, diluted	332,825,186	325,170,383	332,144,893	332,077,834

See accompanying notes to consolidated financial statements.

BENTLEY SYSTEMS, INCORPORATED
Consolidated Statements of Comprehensive Income
(in thousands)
(unaudited)

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Net income	Net income	\$ 48,685	\$ 55,673	\$ 94,175	\$ 112,061	Net income	\$ 53,027	\$ 36,997	\$ 147,202	\$ 149,058
Other comprehensive income (loss), net of taxes:										
Other comprehensive loss, net of taxes:						Other comprehensive loss, net of taxes:				
Foreign currency translation adjustments	Foreign currency translation adjustments	1,538	(13,820)	1,878	2,617	Foreign currency translation adjustments	(7,294)	(12,809)	(5,416)	(10,192)
Actuarial gain on retirement plan, net of tax effect of \$(1), \$(5), \$(7), and \$(10), respectively		8	13	34	26					
Total other comprehensive income (loss), net of taxes		1,546	(13,807)	1,912	2,643					
Actuarial (loss) gain on retirement plan, net of tax effect of \$(8), \$(5), \$(15), and \$(15), respectively						Actuarial (loss) gain on retirement plan, net of tax effect of \$(8), \$(5), \$(15), and \$(15), respectively	(6)	11	28	37
Total other comprehensive loss, net of taxes						Total other comprehensive loss, net of taxes	(7,300)	(12,798)	(5,388)	(10,155)
Comprehensive income	Comprehensive income	\$ 50,231	\$ 41,866	\$ 96,087	\$ 114,704	Comprehensive income	\$ 45,727	\$ 24,199	\$ 141,814	\$ 138,903

See accompanying notes to consolidated financial statements.

BENTLEY SYSTEMS, INCORPORATED
Consolidated Statements of Stockholders' Equity
(in thousands, except share data)
(unaudited)

		Three Months Ended June 30, 2023							Three Months Ended September 30, 2023						
		Accumulated							Accumulated						
		Class A and Class B	Additional	Other		Non-	Total		Class A and Class B	Additional	Other		Accumulated		
		Common Stock	Paid-In	Comprehensive	Accumulated	Controlling	Stockholders'		Common Stock	Paid-In	Comprehensive	Accumulated	C		
		Shares	Par Value	Capital	Loss	Deficit	Interest	Equity	Shares	Par Value	Capital	Loss	Deficit		
Balance, March 31, 2023		291,501,271	\$2,915	\$1,060,842	\$ (89,374)	\$ (360,897)	\$ 704	\$ 614,190							
Balance, June 30, 2023									Balance, June 30, 2023	294,712,983	\$2,947	\$1,085,066	\$ (87,828)	\$ (357,117)	\$
Net income	Net income	—	—	—	—	48,685	—	48,685	Net income	—	—	—	—	53,027	
Other comprehensive income		—	—	—	1,546	—	—	1,546							
Other comprehensive loss									Other comprehensive loss	—	—	—	(7,300)	—	
Dividends declared	Dividends declared	—	—	—	—	(14,702)	—	(14,702)	Dividends declared	—	—	—	—	(14,768)	
Shares issued in connection with deferred compensation plan, net	Shares issued in connection with deferred compensation plan, net	1,729,443	17	(17)	—	(22,703)	—	(22,703)	Shares issued in connection with deferred compensation plan, net	63,267	—	—	—	(2,127)	
Deferred compensation plan elective participant deferrals	Deferred compensation plan elective participant deferrals	—	—	118	—	—	—	118	Deferred compensation plan elective participant deferrals	—	—	61	—	—	
Shares issued in connection with executive bonus plan, net	Shares issued in connection with executive bonus plan, net	57,393	1	4,321	—	(1,901)	—	2,421	Shares issued in connection with executive bonus plan, net	34,313	—	3,251	—	(1,430)	
Shares issued and repurchased in connection with employee stock purchase plan, net									Shares issued and repurchased in connection with employee stock purchase plan, net	162,459	2	5,429	—	(623)	
Stock option exercises, net									Stock option exercises, net	185,255	2	888	—	(419)	
Stock option exercises, net		1,308,527	13	5,485	—	(4,288)	—	1,210							
Shares issued for stock grants, net		12,639	—	600	—	—	—	600							
Stock-based compensation expense	Stock-based compensation expense	—	—	13,718	—	—	—	13,718	Stock-based compensation expense	—	—	14,122	—	—	
Shares related to restricted stock, net	Shares related to restricted stock, net	103,710	1	(1)	—	(1,311)	—	(1,311)	Shares related to restricted stock, net	85,929	1	(1)	—	(1,726)	
Balance, June 30, 2023		294,712,983	\$2,947	\$1,085,066	\$ (87,828)	\$ (357,117)	\$ 704	\$ 643,772							
Balance, September 30, 2023									Balance, September 30, 2023	295,244,206	\$2,952	\$1,108,816	\$ (95,128)	\$ (325,183)	\$

Six Months Ended June 30, 2023	Nine Months Ended September 30, 2023
Accumulated	Accumulated

		Class A and Class B		Additional	Other	Non-		Total		Class A and Class B		Additional	Other	
		Common Stock		Paid-In	Comprehensive	Accumulated	Controlling	Stockholders'		Common Stock		Paid-In	Comprehensive	Accumulated C
		Shares	Par Value	Capital	Loss	Deficit	Interest	Equity		Shares	Par Value	Capital	Loss	Deficit
Balance, December 31, 2022	Balance, December 31, 2022	289,014,487	\$2,890	\$1,030,466	\$ (89,740)	\$ (370,866)	\$ 704	\$ 573,454	Balance, December 31, 2022	289,014,487	\$2,890	\$1,030,466	\$ (89,740)	\$ (370,866)
Net income	Net income	—	—	—	—	94,175	—	94,175	Net income	—	—	—	—	147,202
Other comprehensive income	Other comprehensive income	—	—	—	1,912	—	—	1,912	Other comprehensive loss	—	—	—	(5,388)	—
Dividends declared	Dividends declared	—	—	—	—	(29,224)	—	(29,224)	Dividends declared	—	—	—	—	(43,992)
Shares issued in connection with deferred compensation plan	Shares issued in connection with deferred compensation plan	2,782,181	28	(28)	—	(36,329)	—	(36,329)	Shares issued in connection with deferred compensation plan, net	2,845,448	28	(28)	—	(38,456)
Deferred compensation plan elective participant deferrals	Deferred compensation plan elective participant deferrals	—	—	1,651	—	—	—	1,651	Deferred compensation plan elective participant deferrals	—	—	1,712	—	—
Shares issued in connection with executive bonus plan	Shares issued in connection with executive bonus plan	137,197	2	9,804	—	(4,326)	—	5,480	Shares issued in connection with executive bonus plan, net	171,510	2	13,055	—	(5,756)
Shares issued in connection with employee stock purchase plan	Shares issued in connection with employee stock purchase plan	153,381	1	4,556	—	(222)	—	4,335	Shares issued in connection with employee stock purchase plan, net	315,840	3	9,985	—	(845)
Stock option exercises, net	Stock option exercises, net	2,236,827	22	9,678	—	(5,989)	—	3,711	Stock option exercises, net	2,422,082	24	10,566	—	(6,408)
Shares issued for stock grants, net	Shares issued for stock grants, net	12,639	—	600	—	—	—	600	Shares issued for stock grants, net	12,639	—	600	—	—
Stock-based compensation expense	Stock-based compensation expense	—	—	28,343	—	—	—	28,343	Stock-based compensation expense	—	—	42,465	—	—
Shares related to restricted stock, net	Shares related to restricted stock, net	376,271	4	(4)	—	(4,336)	—	(4,336)	Shares related to restricted stock, net	462,200	5	(5)	—	(6,062)
Balance, June 30, 2023	Balance, June 30, 2023	294,712,983	\$2,947	\$1,085,066	\$ (87,828)	\$ (357,117)	\$ 704	\$ 643,772	Balance, September 30, 2023	295,244,206	\$2,952	\$1,108,816	\$ (95,128)	\$ (325,183)

See accompanying notes to consolidated financial statements.

BENTLEY SYSTEMS, INCORPORATED
Consolidated Statements of Stockholders' Equity
(in thousands, except share data)
(unaudited)

		Three Months Ended June 30, 2022						Three Months Ended September 30, 2022					
		Class A and Class B					Total Stockholders'	Class A and Class B					Total Accumulated
		Common Stock		Paid-In	Other	Accumulated		Common Stock		Paid-In	Other	Accumulated	
		Shares	Par Value	Capital	Loss	Deficit		Shares	Par Value	Capital	Loss	Deficit	
Balance, March 31, 2022		285,134,093	\$2,851	\$957,498	\$	(75,324)	\$	(427,372)	\$	457,653			
Balance, June 30, 2022								Balance, June 30, 2022					
									288,154,159	\$ 2,882	\$	981,203	\$ (89,131)
Net income	Net income	—	—	—	—	55,673	55,673	Net income	—	—	—	—	36,997
Other comprehensive loss	Other comprehensive loss	—	—	—	(13,807)	—	(13,807)	Other comprehensive loss	—	—	—	(12,798)	—
Dividends declared	Dividends declared	—	—	—	—	(8,678)	(8,678)	Dividends declared	—	—	—	—	(8,592)
Shares issued in connection with deferred compensation plan	Shares issued in connection with deferred compensation plan	2,616,044	26	(26)	—	—	—	Shares issued in connection with deferred compensation plan	97,591	1	(1)	—	—
Deferred compensation plan elective participant deferrals	Deferred compensation plan elective participant deferrals	—	—	2,439	—	—	2,439	Deferred compensation plan elective participant deferrals	—	—	1,586	—	—
Shares issued in connection with executive bonus plan, net	Shares issued in connection with executive bonus plan, net	87,692	1	6,896	—	(3,005)	3,892	Shares issued in connection with executive bonus plan, net	125,195	1	4,416	—	—
Shares issued in connection with employee stock purchase plan, net	Shares issued in connection with employee stock purchase plan, net							Shares issued in connection with employee stock purchase plan, net		197,657	2	5,722	—
Stock option exercises, net	Stock option exercises, net							Stock option exercises, net		218,018	2	992	—
Stock option exercises, net		653,336	7	3,086	—	(749)	2,344						
Acquisition option exercises, net		35,323	1	(1)	—	—	—						
Shares issued for stock grants, net		13,632	—	450	—	—	450						
Stock-based compensation expense	Stock-based compensation expense	—	—	10,862	—	—	10,862	Stock-based compensation expense	—	—	11,158	—	—
Shares related to restricted stock, net	Shares related to restricted stock, net	77,040	1	(1)	—	(593)	(593)	Shares related to restricted stock, net	58,270	—	(1)	—	(1,060)
Repurchase of Class B Common Stock under approved program		(463,001)	(5)	—	—	(13,237)	(13,242)						
Repurchases of Class B Common Stock under approved program								Repurchases of Class B Common Stock under approved program		(433,125)	(4)	—	—

Balance, June 30, 2022	288,154,159	\$2,882	\$981,203	\$ (89,131)	\$ (397,961)	\$ 496,993
Balance, September 30, 2022	288,417,765	\$ 2,884	\$ 1,005,075	\$ (101,925)		

		Six Months Ended June 30, 2022								Nine Months Ended September 30, 2022						
		Accumulated						Accumulated								
		Class A and Class B		Additional	Other	Total		Class A and Class B		Additional	Other	Accumulated				
		Common Stock		Paid-In	Comprehensive	Accumulated	Stockholders'	Common Stock		Paid-In	Comprehensive	Accumulated				
		Shares	Par Value	Capital	Loss	Deficit	Equity	Shares		Par Value	Capital	Loss	Deficit	Equity		
Balance, December 31, 2021	Balance, December 31, 2021	282,526,719	\$2,825	\$937,805	\$ (91,774)	\$ (439,634)	\$ 409,222	Balance, December 31, 2021	282,526,719	\$ 2,825	\$937,805	\$ (91,774)	\$ (439,634)	\$ 409,222		
Net income	Net income	—	—	—	—	112,061	112,061	Net income	—	—	—	—	142,000	142,000		
Other comprehensive income	Other comprehensive income	—	—	—	2,643	—	2,643	Other comprehensive income	—	—	—	—	—	—		
Other comprehensive loss	Other comprehensive loss	—	—	—	—	—	—	Other comprehensive loss	—	—	—	—	—	—		
Dividends declared	Dividends declared	—	—	—	—	(17,031)	(17,031)	Dividends declared	—	—	—	—	—	—		
Shares issued in connection with deferred compensation plan, net	Shares issued in connection with deferred compensation plan, net	3,425,795	34	(26)	—	(24,254)	(24,246)	Shares issued in connection with deferred compensation plan, net	3,523,386	35	(27)	—	—	(24,246)		
Deferred compensation plan elective participant deferrals	Deferred compensation plan elective participant deferrals	—	—	3,108	—	—	3,108	Deferred compensation plan elective participant deferrals	—	—	4,694	—	—	—		
Shares issued in connection with executive bonus plan, net	Shares issued in connection with executive bonus plan, net	159,797	2	11,891	—	(5,197)	6,696	Shares issued in connection with executive bonus plan, net	284,992	3	16,307	—	—	(5,197)		
Shares issued in connection with employee stock purchase plan, net	Shares issued in connection with employee stock purchase plan, net	109,749	1	4,610	—	(121)	4,490	Shares issued in connection with employee stock purchase plan, net	307,406	3	10,332	—	—	—		
Stock option exercises, net	Stock option exercises, net	2,054,585	21	5,840	—	(8,400)	(2,539)	Stock option exercises, net	2,272,603	23	6,832	—	—	(8,400)		
Acquisition option exercises, net	Acquisition option exercises, net	185,178	2	(2)	—	—	—	Acquisition option exercises, net	185,178	2	(2)	—	—	—		
Shares issued for stock grants, net	Shares issued for stock grants, net	13,632	—	450	—	—	450	Shares issued for stock grants, net	13,632	—	450	—	—	—		
Stock-based compensation expense	Stock-based compensation expense	—	—	17,529	—	—	17,529	Stock-based compensation expense	—	—	28,687	—	—	—		
Shares related to restricted stock, net	Shares related to restricted stock, net	141,705	2	(2)	—	(2,148)	(2,148)	Shares related to restricted stock, net	199,975	2	(3)	—	—	—		

Repurchase of Class B Common									
Stock under approved program	(463,001)	(5)	—	—	(13,237)	(13,242)			
Repurchases of Class B Common Stock under approved program							Repurchases of Class B Common Stock under approved program	(896,126)	(9) —
Balance, June 30, 2022	288,154,159	\$2,882	\$981,203	\$ (89,131)	\$ (397,961)	\$ 496,993			
Balance, September 30, 2022							Balance, September 30, 2022	288,417,765	\$ 2,884 \$ 1,005,075 \$ (10

See accompanying notes to consolidated financial statements.

BENTLEY SYSTEMS, INCORPORATED
Consolidated Statements of Cash Flows
(in thousands)
(unaudited)

		Six Months Ended		Nine Months Ended	
		June 30,		September 30,	
		2023	2022	2023	2022
Cash flows from operating activities:	Cash flows from operating activities:			Cash flows from operating activities:	
Net income	Net income	\$ 94,175	\$ 112,061	Net income	\$ 147,202 \$ 149,058
Adjustments to reconcile net income to net cash provided by operating activities:	Adjustments to reconcile net income to net cash provided by operating activities:			Adjustments to reconcile net income to net cash provided by operating activities:	
Depreciation and amortization	Depreciation and amortization	35,304	35,730	Depreciation and amortization	52,787 53,644
Deferred income taxes	Deferred income taxes	(28,935)	(16,806)	Deferred income taxes	(14,632) (13,670)
Stock-based compensation expense	Stock-based compensation expense	37,588	32,568	Stock-based compensation expense	56,092 51,359
Deferred compensation plan	Deferred compensation plan	7,923	(17,297)	Deferred compensation plan	4,763 (21,873)
Amortization of deferred debt issuance costs	Amortization of deferred debt issuance costs	3,646	3,646	Amortization of deferred debt issuance costs	5,469 5,468
Change in fair value of derivative	Change in fair value of derivative	663	(19,490)	Change in fair value of derivative	(4,102) (29,318)
Foreign currency remeasurement (gain) loss		(144)	5,748		
Other non-cash items, net		3,530	3,315		
Foreign currency remeasurement loss				Foreign currency remeasurement loss	3,198 14,445
Other				Other	2,464 4,193
Changes in assets and liabilities, net of effect from acquisitions:	Changes in assets and liabilities, net of effect from acquisitions:			Changes in assets and liabilities, net of effect from acquisitions:	

Accounts receivable	Accounts receivable	49,171	15,581	Accounts receivable	56,065	12,550
Prepaid and other assets	Prepaid and other assets	(364)	3,325	Prepaid and other assets	(1,246)	7,779
Accounts payable, accruals, and other liabilities	Accounts payable, accruals, and other liabilities	41,969	25,683	Accounts payable, accruals, and other liabilities	33,437	28,765
Deferred revenues	Deferred revenues	(1,792)	(20,292)	Deferred revenues	(17,688)	(26,725)
Income taxes payable, net of prepaid income taxes	Income taxes payable, net of prepaid income taxes	14,085	4,958	Income taxes payable, net of prepaid income taxes	5,834	2,523
Net cash provided by operating activities	Net cash provided by operating activities	256,819	168,730	Net cash provided by operating activities	329,643	238,198
Cash flows from investing activities:	Cash flows from investing activities:			Cash flows from investing activities:		
Purchases of property and equipment and investment in capitalized software	Purchases of property and equipment and investment in capitalized software	(11,253)	(6,589)	Purchases of property and equipment and investment in capitalized software	(18,906)	(12,982)
Proceeds from sale of aircraft	Proceeds from sale of aircraft	—	2,380	Proceeds from sale of aircraft	—	2,380
Acquisitions, net of cash acquired	Acquisitions, net of cash acquired	(10,299)	(714,197)	Acquisitions, net of cash acquired	(23,110)	(719,539)
Purchases of investments	Purchases of investments	(8,200)	(5,561)	Purchases of investments	(11,352)	(10,304)
Proceeds from investments				Proceeds from investments	2,123	—
Net cash used in investing activities	Net cash used in investing activities	(29,752)	(723,967)	Net cash used in investing activities	(51,245)	(740,445)
Cash flows from financing activities:	Cash flows from financing activities:			Cash flows from financing activities:		
Proceeds from credit facilities	Proceeds from credit facilities	288,387	657,981	Proceeds from credit facilities	442,566	753,376
Payments of credit facilities	Payments of credit facilities	(432,739)	(264,107)	Payments of credit facilities	(634,718)	(408,714)
Repayments of term loan	Repayments of term loan	(2,500)	(2,500)	Repayments of term loan	(3,750)	(3,750)
Payments of contingent and non-contingent consideration	Payments of contingent and non-contingent consideration	(2,860)	(5,059)	Payments of contingent and non-contingent consideration	(3,039)	(6,996)
Payments of dividends	Payments of dividends	(29,224)	(17,163)	Payments of dividends	(43,992)	(25,828)
Proceeds from stock purchases under employee stock purchase plan	Proceeds from stock purchases under employee stock purchase plan	4,557	4,611	Proceeds from stock purchases under employee stock purchase plan	9,988	10,335
Proceeds from exercise of stock options	Proceeds from exercise of stock options	9,700	5,861	Proceeds from exercise of stock options	10,590	6,855

Payments for shares acquired including shares withheld for taxes	Payments for shares acquired including shares withheld for taxes	(51,202)	(40,520)	Payments for shares acquired including shares withheld for taxes	(57,527)	(42,213)
Repurchase of Class B Common Stock under approved program		—	(13,242)			
Other financing activities		(95)	(89)			
Repurchases of Class B Common Stock under approved program				Repurchases of Class B Common Stock under approved program	—	(28,250)
Other				Other	(137)	(123)
Net cash (used in) provided by financing activities	Net cash (used in) provided by financing activities	(215,976)	325,773	Net cash (used in) provided by financing activities	(280,019)	254,692
Effect of exchange rate changes on cash and cash equivalents	Effect of exchange rate changes on cash and cash equivalents	(59)	(6,462)	Effect of exchange rate changes on cash and cash equivalents	(3,100)	(8,926)
Increase (decrease) in cash and cash equivalents		11,032	(235,926)			
Decrease in cash and cash equivalents				Decrease in cash and cash equivalents	(4,721)	(256,481)
Cash and cash equivalents, beginning of year	Cash and cash equivalents, beginning of year	71,684	329,337	Cash and cash equivalents, beginning of year	71,684	329,337
Cash and cash equivalents, end of period	Cash and cash equivalents, end of period	\$ 82,716	\$ 93,411	Cash and cash equivalents, end of period	\$ 66,963	\$ 72,856

BENTLEY SYSTEMS, INCORPORATED
Consolidated Statements of Cash Flows
(in thousands)
(unaudited)

	Six Months Ended				Nine Months Ended					
	June 30,				September 30,					
	2023		2022		2023		2022			
Supplemental information:	Supplemental information:			Supplemental information:						
Cash paid for income taxes	Cash paid for income taxes	\$	18,167	\$	11,606	Cash paid for income taxes	\$	29,467	\$	20,696
Income tax refunds	Income tax refunds		168		1,076	Income tax refunds		764		2,194
Interest paid	Interest paid		19,382		10,528	Interest paid		29,370		17,647
Non-cash investing and financing activities:	Non-cash investing and financing activities:					Non-cash investing and financing activities:				
Cost method investment	Cost method investment		3,500		—	Cost method investment		3,500		6,022
Deferred, non-contingent consideration, net	Deferred, non-contingent consideration, net		525		—	Deferred, non-contingent consideration, net		525		157
Share-settled executive bonus plan awards	Share-settled executive bonus plan awards		9,806		11,893	Share-settled executive bonus plan awards		13,057		16,310

Deferred compensation plan elective participant deferrals	Deferred compensation plan elective participant deferrals	1,651	3,108	Deferred compensation plan elective participant deferrals	1,712	4,694
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See accompanying notes to consolidated financial statements.

BENTLEY SYSTEMS, INCORPORATED
Notes to Consolidated Financial Statements
(in thousands, except share and per share data)
(unaudited)

Note 1: Basis of Presentation

The accompanying unaudited consolidated financial statements include the accounts of Bentley Systems, Incorporated and its wholly-owned subsidiaries ("Bentley Systems, Incorporated" or the "Company"), and have been prepared in accordance with United States generally accepted accounting principles ("U.S. GAAP") and in accordance with the rules and regulations of the United States Securities and Exchange Commission ("SEC") regarding interim financial reporting. Accordingly, they do not include all the information and notes required by U.S. GAAP for annual financial statements. These unaudited consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto included in the Company's 2022 Annual Report on Form 10-K. In management's opinion, the accompanying unaudited consolidated financial statements contain all adjustments (consisting of normal, recurring and non-recurring adjustments) that were considered necessary for the fair statement of the Company's financial position, results of operations, and cash flows as of the dates and for the periods indicated. The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect reported amounts in the financial statements and accompanying notes. Actual results could differ materially from those estimates. The December 31, 2022 consolidated balance sheet included herein is derived from the Company's audited consolidated financial statements.

Certain reclassifications of prior period amounts have been made to conform to the current period presentation. For the three and **six** **nine** months ended **June 30, 2023** **September 30, 2023**, payments related to the Company's interest rate swap were recognized in *Other income (expense), net* in the consolidated statements of operations and the corresponding prior period amounts, which were previously recognized in *Interest expense, net*, were reclassified to conform to the current period presentation. For the three and **six** **nine** months ended **June 30, 2022** **September 30, 2022**, the amounts reclassified were not material, and *Income before income taxes* and *Net income* in the consolidated statements of operations did not change as a result of these reclassifications.

Note 2: Recent Accounting Pronouncements

Recently Adopted Accounting Guidance

In March 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2020-04, *Reference Rate Reform (Topic 848): Facilitation of the Effects of Reference Rate Reform on Financial Reporting* ("ASU 2020-04"), which provides optional expedients and exceptions for applying U.S. GAAP to contracts, hedging relationships, and other transactions affected by reference rate reform if certain criteria are met. ASU 2020-04 applies only to contracts, hedging relationships, and other transactions that reference the London Interbank Offered Rate ("LIBOR") or another reference rate expected to be discontinued because of reference rate reform between March 12, 2020 and December 31, 2022. In December 2022, the FASB issued ASU No. 2022-06, *Reference Rate Reform (Topic 848): Deferral of the Sunset Date of Topic 848*, which provides optional guidance to ease the potential burden in accounting for (or recognizing the effects of) reference rate reform on financial reporting by extending the sunset date of Topic 848 to December 31, 2024. The expedients and exceptions provided by these ASUs do not apply to contract modifications made and hedging relationships entered into or evaluated after December 31, 2024, except for hedging relationships existing as of December 31, 2024, that an entity has elected certain optional expedients for and that are retained through the end of the hedging relationship. The Company adopted these ASUs during the second quarter of 2023 (see Note 10) and the adoption did not have a material impact on the Company's consolidated financial statements.

Note 3: Revenue from Contracts with Customers

Disaggregation of Revenues

The Company's revenues consist of the following:

		Three Months Ended		Six Months Ended		Three Months Ended		Nine Months Ended	
		June 30,		June 30,		September 30,		September 30,	
		2023	2022	2023	2022	2023	2022	2023	2022
Subscriptions:	Subscriptions:								
Enterprise subscriptions ⁽¹⁾	Enterprise subscriptions ⁽¹⁾	\$ 103,674	\$ 81,593	\$ 207,578	\$ 163,420	\$ 111,318	\$ 89,041	\$ 318,896	\$ 252,461
SELECT subscriptions	SELECT subscriptions	64,085	66,579	127,428	133,177	63,406	63,609	190,834	196,786
Term license subscriptions	Term license subscriptions	91,484	84,019	202,082	176,827	96,027	82,657	298,109	259,484

Subscriptions	Subscriptions	259,243	232,191	537,088	473,424	Subscriptions	270,751	235,307	807,839	708,731
Perpetual licenses	Perpetual licenses	11,718	11,548	21,265	21,753	Perpetual licenses	11,887	9,460	33,152	31,213
Subscriptions and licenses	Subscriptions and licenses	270,961	243,739	558,353	495,177	Subscriptions and licenses	282,638	244,767	840,991	739,944
Services:	Services:					Services:				
Recurring	Recurring	4,949	4,173	9,127	8,874	Recurring	3,606	4,557	12,733	13,431
Other	Other	20,839	20,373	43,680	39,751	Other	20,368	19,008	64,048	58,759
Services	Services	25,788	24,546	52,807	48,625	Services	23,974	23,565	76,781	72,190
Total revenues	Total revenues	\$ 296,749	\$ 268,285	\$ 611,160	\$ 543,802	Total revenues	\$ 306,612	\$ 268,332	\$ 917,772	\$ 812,134

(1) Enterprise subscriptions includes revenue attributable to Enterprise 365 ("E365") subscriptions of \$99,248 \$107,681 and \$72,905 \$80,298 for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and \$193,579 \$301,260 and \$141,503 \$221,801 for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

The Company recognizes perpetual licenses and the term license component of subscriptions as revenue when either the licenses are delivered or at the start of the subscription term. For the three months ended June 30, 2023 September 30, 2023 and 2022, the Company recognized \$138,822 \$147,340 and \$129,872 \$125,140 of license related revenues, respectively, of which \$127,104 \$135,453 and \$118,324 \$115,680, respectively, were attributable to the term license component of the Company's subscription-based commercial offerings recorded in *Subscriptions* in the consolidated statements of operations. For the six nine months ended June 30, 2023 September 30, 2023 and 2022, the Company recognized \$296,846 \$444,186 and \$255,097 \$380,237 of license related revenues, respectively, of which \$275,581 \$411,034 and \$233,344 \$349,024, respectively, were attributable to the term license component of the Company's subscription-based commercial offerings recorded in *Subscriptions* in the consolidated statements of operations.

The Company derived 8% and 7% of its total revenues through channel partners for the three and six months ended June 30, 2023 September 30, 2023 and 2022, respectively, and 7% of its total revenues through channel partners for the nine months ended September 30, 2023 and 2022.

Revenue from external customers is attributed to individual countries based upon the location of the customer. Revenues by geographic region are as follows:

	Three Months Ended				Six Months Ended				Three Months Ended				Nine Months Ended			
	June 30,				June 30,				September 30,				September 30,			
	2023		2022		2023		2022		2023		2022		2023		2022	
Americas (1)	Americas (1)	\$ 158,836	\$ 144,359		\$ 327,181	\$ 298,619			Americas (1)	\$ 162,367	\$ 141,599		\$ 489,548	\$ 440,218		
Europe, the Middle East, and Africa ("EMEA")	Europe, the Middle East, and Africa ("EMEA")	83,444	74,800		176,276	152,280			Europe, the Middle East, and Africa ("EMEA")	86,956	75,416		263,232	227,696		
Asia-Pacific ("APAC")	Asia-Pacific ("APAC")	54,469	49,126		107,703	92,903			Asia-Pacific ("APAC")	57,289	51,317		164,992	144,220		
Total revenues	Total revenues	\$ 296,749	\$ 268,285		\$ 611,160	\$ 543,802			Total revenues	\$ 306,612	\$ 268,332		\$ 917,772	\$ 812,134		

(1) Americas includes the United States ("U.S."), Canada, and Latin America (including the Caribbean). Revenue attributable to the U.S. totaled \$127,847 \$129,510 and \$108,456 \$122,372 for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and \$255,297 \$384,807 and \$224,589 \$346,961 for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

Contract Assets and Contract Liabilities

	June 30, 2023		December 31, 2022		September 30, 2023		December 31, 2022	
	Contract assets \$	451	\$ 575		Contract assets \$	472	\$ 575	
Deferred revenues	Deferred revenues	247,755	243,073		Deferred revenues	227,004	243,073	

As of June 30, 2023 September 30, 2023 and December 31, 2022, the Company's contract assets relate to performance obligations completed in advance of the right to invoice and are included in *Prepaid and other current assets* in the consolidated balance sheets. Contract assets were not impaired as of June 30, 2023 and September 30, 2023 or December 31, 2022.

Deferred revenues consist of billings made or payments received in advance of revenue recognition from subscriptions and services. The timing of revenue recognition may differ from the timing of billings to users.

For the **six nine** months ended **June 30, 2023** **September 30, 2023**, **\$149,247** **\$183,335** of revenues that were included in the December 31, 2022 deferred revenues balance were recognized. There were additional deferrals of **\$151,528** **\$169,368** for the **six nine** months ended **June 30, 2023** **September 30, 2023**, which were primarily related to new billings and acquisitions. For the **six nine** months ended **June 30, 2022** **September 30, 2022**, **\$139,873** **\$174,194** of revenues that were included in the December 31, 2021 deferred revenues balance were recognized. There were additional deferrals of **\$131,051** **\$158,125** for the **six nine** months ended **June 30, 2022** **September 30, 2022**, which were primarily related to new billings and acquisitions.

As of **June 30, 2023** **September 30, 2023** and December 31, 2022, the Company has deferred **\$17,965** **\$17,873** and \$17,338, respectively, related to portfolio balancing exchange rights which is included in *Deferred revenues* in the consolidated balance sheets.

Remaining Performance Obligations

The Company's contracts with customers include amounts allocated to performance obligations that will be satisfied at a later date. As of **June 30, 2023** **September 30, 2023**, amounts allocated to these remaining performance obligations are **\$247,755** **\$227,004**, of which the Company expects to recognize approximately 93% over the next 12 months with the remaining amount thereafter.

Note 4: Acquisitions

The aggregate details of the Company's acquisition activity are as follows:

		Acquisitions Completed during Six Months Ended June 30,		Acquisitions Completed during Nine Months Ended September 30,	
		2023	2022	2023	2022
Number of acquisitions	Number of acquisitions	1	2	2	4
Cash paid at closing ⁽¹⁾	Cash paid at closing ⁽¹⁾	\$ 10,299	\$ 733,343	\$ 23,375	\$ 738,810
Cash acquired	Cash acquired	—	(19,146)	(265)	(19,271)
Net cash paid	Net cash paid	\$ 10,299	\$ 714,197	\$ 23,110	\$ 719,539

(1) Of the cash paid at closing for the **six nine** months ended **June 30, 2022**, **September 30, 2023** and **2022**, **\$1,000** and **\$3,000**, respectively, was deposited into an escrow account to secure any potential indemnification and other obligations of the seller.

On January 31, 2022, the Company completed the acquisition of Power Line Systems ("PLS"), a leader in software for the design of overhead electric power transmission lines and their structures, for \$695,968 in cash, net of cash acquired. The operating results of the acquired businesses were not material, individually or in the aggregate, to the Company's consolidated statements of operations.

The fair value of the contingent consideration from acquisitions is included in the consolidated balance sheets as follows:

		June 30, 2023	December 31, 2022			September 30, 2023	December 31, 2022
Accruals and other current liabilities	Accruals and other current liabilities	\$ 3	\$ 1,196	Accruals and other current liabilities	\$ 3	\$ 1,196	
Contingent consideration from acquisitions	Contingent consideration from acquisitions	\$ 3	\$ 1,196	Contingent consideration from acquisitions	\$ 3	\$ 1,196	

The fair value of non-contingent consideration from acquisitions is included in the consolidated balance sheets as follows:

		June 30, 2023	December 31, 2022			September 30, 2023	December 31, 2022
Accruals and other current liabilities	Accruals and other current liabilities	\$ 3,662	\$ 2,434	Accruals and other current liabilities	\$ 3,966	\$ 2,434	
Other liabilities	Other liabilities	625	2,977	Other liabilities	—	2,977	
Non-contingent consideration from acquisitions	Non-contingent consideration from acquisitions	\$ 4,287	\$ 5,411	Non-contingent consideration from acquisitions	\$ 3,966	\$ 5,411	

The operating results of the acquired businesses are included in the Company's consolidated financial statements from the closing date of each respective acquisition. The purchase price for each acquisition has been allocated to the net tangible and intangible assets and liabilities based on their estimated fair values at the respective acquisition date.

The Company is in the process of finalizing the purchase accounting for one acquisition completed during the **six nine** months ended **June 30, 2023** **September 30, 2023** and one acquisition completed during the year ended December 31, 2022. Identifiable assets acquired and liabilities assumed were provisionally recorded at their estimated fair values on the respective acquisition date. The initial accounting for these business combinations is not complete because the evaluation necessary to assess the fair values of certain net assets acquired is still in process. The provisional amounts are subject to revision until the evaluations are completed to the extent that additional information is obtained about

the facts and circumstances that existed as of the acquisition date. The allocation of the purchase price may be modified from the date of the acquisition as more information is obtained about the fair values of assets acquired and liabilities assumed, however, such measurement period cannot exceed one year.

Acquisition costs are expensed as incurred and are recorded in *General and administrative* in the consolidated statements of operations. For the three months ended **June 30, 2023** **September 30, 2023** and 2022, the Company's acquisition expenses were **\$113 insignificant**, and **\$677**, respectively, and **\$5,298** and **\$11,251** for the **six nine** months ended **June 30, 2023** **September 30, 2023** and 2022 were **\$5,803** and **\$10,824**, respectively, which include costs related to legal, accounting, valuation, insurance, general administrative, and other consulting and transaction fees. For the three and **six nine** months ended **June 30, 2022** **September 30, 2022**, **\$26 \$350** and **\$9,799**, **\$10,149**, respectively, of the Company's acquisition expenses related to the acquisition of PLS.

The following summarizes the fair values of the assets acquired and liabilities assumed, as well as the weighted average useful lives assigned to acquired intangible assets at the respective date of each acquisition (including contingent consideration):

		Acquisitions Completed in			Acquisitions Completed in		
		Six Months Ended	Year Ended		Nine Months Ended	Year Ended	
		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022	
Consideration:	Consideration:			Consideration:			
Cash paid at closing	Cash paid at closing	\$ 10,299	\$ 763,228	Cash paid at closing	\$ 23,375	\$ 763,228	
Contingent consideration	Contingent consideration	—	1,390	Contingent consideration	—	1,390	
Deferred, non-contingent consideration, net	Deferred, non-contingent consideration, net	525	749	Deferred, non-contingent consideration, net	525	749	
Other	Other	56	(269)	Other	56	(269)	
Total consideration	Total consideration	\$ 10,880	\$ 765,098	Total consideration	\$ 23,956	\$ 765,098	
Assets acquired and liabilities assumed:	Assets acquired and liabilities assumed:			Assets acquired and liabilities assumed:			
Cash	Cash	\$ —	\$ 20,221	Cash	\$ 265	\$ 20,221	
Accounts receivable and other current assets	Accounts receivable and other current assets	1,483	8,890	Accounts receivable and other current assets	1,706	8,890	
Operating lease right-of-use assets	Operating lease right-of-use assets	345	1,237	Operating lease right-of-use assets	397	1,237	
Property and equipment	Property and equipment	—	1,316	Property and equipment	—	1,316	
Deferred income taxes					Deferred income taxes	2,151	—
Other assets	Other assets	—	7	Other assets	6	7	
Software and technology (weighted average useful life of 3 and 5 years, respectively)	Software and technology (weighted average useful life of 3 and 5 years, respectively)	1,300	10,608	Software and technology (weighted average useful life of 3 and 5 years, respectively)	2,600	10,608	
Customer relationships (weighted average useful life of 6 and 10 years, respectively)	Customer relationships (weighted average useful life of 6 and 10 years, respectively)	3,900	82,278	Customer relationships (weighted average useful life of 6 and 10 years, respectively)	3,900	82,278	

Trademarks (weighted average useful life of 5 and 8 years, respectively)	Trademarks (weighted average useful life of 5 and 8 years, respectively)	800	6,972	Trademarks (weighted average useful life of 5 and 8 years, respectively)	1,000	6,972
Total identifiable assets acquired excluding goodwill	Total identifiable assets acquired excluding goodwill	7,828	131,529	Total identifiable assets acquired excluding goodwill	12,025	131,529
Accruals and other current liabilities	Accruals and other current liabilities	—	(4,079)	Accruals and other current liabilities	(584)	(4,079)
Deferred revenues	Deferred revenues	(3,951)	(14,176)	Deferred revenues	(4,599)	(14,176)
Operating lease liabilities	Operating lease liabilities	(345)	(1,237)	Operating lease liabilities	(397)	(1,237)
Deferred income taxes	Deferred income taxes	—	(5,745)	Deferred income taxes	—	(5,745)
Total liabilities assumed	Total liabilities assumed	(4,296)	(25,237)	Total liabilities assumed	(5,580)	(25,237)
Net identifiable assets acquired excluding goodwill	Net identifiable assets acquired excluding goodwill	3,532	106,292	Net identifiable assets acquired excluding goodwill	6,445	106,292
Goodwill	Goodwill	7,348	658,806	Goodwill	17,511	658,806
Net assets acquired	Net assets acquired	\$ 10,880	\$ 765,098	Net assets acquired	\$ 23,956	\$ 765,098

The fair values of the working capital, other assets (liabilities), and property and equipment approximated their respective carrying values as of the acquisition date.

Deferred revenues were determined in accordance with the Company's revenue recognition policies.

The fair values of the intangible assets were primarily determined using the income approach. When applying the income approach, indications of fair values were developed by discounting future net cash flows to their present values at market-based rates of return. The cash flows were based on estimates used to price the acquisitions and the discount rates applied were benchmarked with reference to the implied rate of return from the Company's pricing model and the weighted average cost of capital.

Goodwill recorded in connection with the acquisitions was attributable to synergies expected to arise from cost saving opportunities, as well as future expected cash flows. The Company expects \$7,289 of the goodwill recorded relating to the 2023 acquisition acquisitions will be deductible for income tax purposes.

Note 5: Property and Equipment, Net

Property and equipment, net consist of the following:

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Land	Land	\$ 2,811	\$ 2,811	Land	\$ 2,811	\$ 2,811
Building and improvements	Building and improvements	35,941	35,717	Building and improvements	36,293	35,717
Computer equipment and software	Computer equipment and software	61,452	54,636	Computer equipment and software	64,639	54,636
Furniture, fixtures, and equipment	Furniture, fixtures, and equipment	14,918	14,600	Furniture, fixtures, and equipment	14,848	14,600
Aircraft	Aircraft	2,038	2,038	Aircraft	2,038	2,038
Other	Other	151	156	Other	93	156
Property and equipment, at cost	Property and equipment, at cost	117,311	109,958	Property and equipment, at cost	120,722	109,958
Less: Accumulated depreciation	Less: Accumulated depreciation	(81,791)	(77,707)	Less: Accumulated depreciation	(82,413)	(77,707)

Total property and equipment, net	Total property and equipment, net	\$ 35,520	\$ 32,251	Total property and equipment, net	\$ 38,309	\$ 32,251
Depreciation expense was \$2,910 \$3,135 and \$2,922 \$2,613 for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and \$5,634 \$8,769 and \$5,412 \$8,025 for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.						

Related Party Equipment Sale

In January 2022, the Audit Committee of the Company's Board of Directors authorized the Company to sell 50% of its interest in the Company's aircraft at fair market value to an entity controlled by the Company's Chief Executive Officer. The transaction was completed on February 1, 2022 for \$2,380 and resulted in a gain of \$2,029, which was recorded in *Other income, net* in the consolidated statements of operations for the six nine months ended June 30, 2022 September 30, 2022 (see Note 20). Subsequent to the transaction, ongoing operating and fixed costs of the aircraft are shared on a proportional use basis subject to a cost-sharing agreement. Such costs were not material during the six nine months ended June 30, 2023 September 30, 2023 and 2022. The Company determined this transaction was with a related party.

Note 6: Goodwill and Other Intangible Assets

The changes in the carrying amount of goodwill are as follows:

Balance, December 31, 2022	\$ 2,237,184
Acquisitions	7,348 17,511
Foreign currency translation adjustments	8,944 (3,179)
Other adjustments	(644) (204)
Balance, June 30, 2023 September 30, 2023	\$ 2,252,832 2,251,312

Details of intangible assets other than goodwill are as follows:

		Estimated Useful Life	June 30, 2023				December 31, 2022				Estimated Useful Life	September 30, 2023				December 31, 2022		
			Gross Carrying Amount	Accumulated Amortization	Net Book Value	Gross Carrying Amount	Accumulated Amortization	Net Book Value	Gross Carrying Amount			Accumulated Amortization	Net Book Value	Gross Carrying Amount	Accumulated Amortization	Net Book Value	Gross Carrying Amount	Accumulated Amortization
Intangible assets subject to amortization:	Intangible assets subject to amortization:									Intangible assets subject to amortization:								
Software and technology	Software and technology	3-5 years	\$ 93,212	\$ (57,955)	\$ 35,257	\$ 92,390	\$ (51,938)	\$ 40,452		Software and technology	3-5 years	\$ 88,675	\$ (55,305)	\$ 33,370	\$ 92,390	\$ (51,938)	\$ 40,452	
Customer relationships	Customer relationships	3-10 years	325,196	(129,116)	196,080	323,164	(114,387)	208,777		Customer relationships	3-10 years	323,223	(135,237)	187,986	323,164	(114,387)	208,777	
Trademarks	Trademarks	3-10 years	70,607	(30,414)	40,193	69,803	(26,904)	42,899		Trademarks	3-10 years	70,510	(31,979)	38,531	69,803	(26,904)	42,899	
Non-compete agreements	Non-compete agreements	5 years	350	(241)	109	350	(207)	143		Non-compete agreements	5 years	350	(258)	92	350	(207)	143	
Total intangible assets	Total intangible assets		\$489,365	\$ (217,726)	\$271,639	\$485,707	\$ (193,436)	\$292,271		Total intangible assets		\$482,758	\$ (222,779)	\$259,979	\$485,707	\$ (193,436)	\$292,271	

The aggregate amortization expense for purchased intangible assets with finite lives was reflected in the Company's consolidated statements of operations as follows:

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Cost of subscriptions and licenses	Cost of subscriptions and licenses	\$ 3,123	\$ 3,154	\$ 6,310	\$ 6,176	Cost of subscriptions and licenses	\$ 3,161	\$ 3,129	\$ 9,471	\$ 9,305
Amortization of purchased intangibles	Amortization of purchased intangibles	9,502	10,517	20,050	20,423	Amortization of purchased intangibles	9,517	10,446	29,567	30,869
Total amortization expense	Total amortization expense	\$ 12,625	\$ 13,671	\$ 26,360	\$ 26,599	Total amortization expense	\$ 12,678	\$ 13,575	\$ 39,038	\$ 40,174

Note 7: Investments

Investments consist of the following:

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Cost method investments	Cost method investments	\$ 26,906	\$ 22,174	Cost method investments	\$ 27,957	\$ 22,174
Equity method investments	Equity method investments	91	96	Equity method investments	2,375	96
Total investments	Total investments	\$ 26,997	\$ 22,270	Total investments	\$ 30,332	\$ 22,270

Cost Method Investments

Through its *iTwin Ventures* initiative, the Company invests in technology development companies, generally in the form of equity interests or convertible notes. In March 2023, the Company acquired an equity interest in Worldsensing, a leading global connectivity hardware platform company for infrastructure monitoring, via contribution of its sensemetrics' Thread connectivity device business (the "Thread business") and cash. The non-cash contribution of the Thread business resulted in an insignificant gain, which was recorded in *Other income, net* in the consolidated statements of operations for the **six** nine months ended **June 30, 2023** **September 30, 2023** (see Note 20). In July 2022, the Company acquired an equity interest in Teralytics Holdings AG ("**Teralytics**"), a global platform company for human mobility analysis.

During the second quarter of 2023, the Company recognized impairment charges of \$7,318 to write-down certain cost method investments to their fair value primarily as a result of the investees' decline in operating performance and the overall decline in the venture investment valuation environment. The impairment charges were recorded in *Other income, net* in the consolidated statements of operations for the **three and six** nine months ended **June 30, 2023** **September 30, 2023** (see Note 20).

During the third quarter of 2023, the Company recognized gains on investments of \$2,360, which was recorded in *Other income, net* in the consolidated statements of operations for the **three and nine** months ended **September 30, 2023** (see Note 20).

During the **six** nine months ended **June 30, 2023** **September 30, 2023**, the Company invested a total of **\$11,700**, **\$12,591**, including \$8,928 of cash and non-cash for our investment in Worldsensing. During the **six** nine months ended **June 30, 2022** **September 30, 2022**, the Company invested a total of **\$4,361**, **\$14,921**, including \$11,130 of cash and non-cash for our investment in Teralytics. As of **June 30, 2023** **September 30, 2023**, our investment balance in Worldsensing and Teralytics Holdings AG was \$8,928 and \$7,270, respectively. As of December 31, 2022, our investment balance in Teralytics Holdings AG was \$11,130.

Equity Method Investments

The Company is party to joint ventures, which are accounted for using the equity method. For the nine months ended September 30, 2023 and 2022, the Company invested \$2,261 and \$1,700, respectively.

Note 8: Leases

The Company's operating leases consist of office facilities, office equipment, and automobiles. As of **June 30, 2023** **September 30, 2023**, the Company's leases have remaining terms of less than one year to ten years, some of which include one or more options to renew, with renewal terms from one year to **ten** five years and some of which include options to terminate the leases from less than one year to five years.

The components of operating lease cost reflected in the consolidated statements of operations were as follows:

		Three Months Ended		Six Months Ended		Three Months Ended		Nine Months Ended	
		June 30,		June 30,		September 30,		September 30,	
		2023	2022	2023	2022	2023	2022	2023	2022
Operating lease cost ⁽¹⁾	Operating lease cost ⁽¹⁾	\$ 4,534	\$ 5,195	\$ 9,162	\$ 10,948	\$ 4,312	\$ 4,703	\$ 13,474	\$ 15,651
Variable lease cost	Variable lease cost	1,146	968	2,348	2,241	1,133	1,115	3,481	3,356
Short-term lease cost	Short-term lease cost	—	5	—	10	—	6	—	16
Total operating lease cost	Total operating lease cost	\$ 5,680	\$ 6,168	\$ 11,510	\$ 13,199	\$ 5,445	\$ 5,824	\$ 16,955	\$ 19,023

- (1) Operating lease cost includes rent cost related to operating leases for office facilities of **\$4,329**, **\$4,180** and **\$5,014**, **\$4,553** for the three months ended **June 30, 2023** **September 30, 2023** and 2022, respectively, and **\$8,746**, **\$12,926** and **\$10,567**, **\$15,120** for the **six** nine months ended **June 30, 2023** **September 30, 2023** and 2022, respectively.

Supplemental operating cash flow and other information related to leases was as follows:

		Six Months Ended		Nine Months Ended	
		June 30,		September 30,	
		2023	2022	2023	2022
Cash paid for operating leases included in operating cash flows	Cash paid for operating leases included in operating cash flows	\$ 9,319	\$ 10,092	\$ 13,830	\$ 14,295
Right-of-use assets obtained in exchange for new operating lease liabilities	Right-of-use assets obtained in exchange for new operating lease liabilities				
(1)	(1)	\$ 11,212	\$ 5,091	\$ 14,794	\$ 7,763

(1) Right-of-use assets obtained in exchange for new operating lease liabilities does not include the impact from acquisitions of \$345 \$397 and \$1,237 for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

The weighted average remaining lease term for operating leases was 4.7 years and 3.9 years as of June 30, 2023 September 30, 2023 and December 31, 2022, respectively. The weighted average discount rate was 4.3% 4.6% and 3.4% as of June 30, 2023 September 30, 2023 and December 31, 2022, respectively.

As of June 30, 2023 September 30, 2023, the Company had additional minimum operating lease payments of \$1,080 \$961 for executed leases that have not yet commenced, primarily for office locations.

Note 9: Accruals and Other Current Liabilities

Accruals and other current liabilities consist of the following:

		June 30, 2023	December 31, 2022			June 30, 2023	December 31, 2022
		September 30, 2023				September 30, 2023	
Cloud Services Subscription ("CSS") deposits	Cloud Services Subscription ("CSS") deposits	\$ 260,118	\$ 201,082	Cloud Services Subscription ("CSS") deposits	\$ 269,047	\$ 201,082	
Accrued benefits	Accrued benefits	40,830	35,493	Accrued benefits	36,814	35,493	
Accrued compensation	Accrued compensation	28,446	40,296	Accrued compensation	34,631	40,296	
Due to customers	Due to customers	14,686	13,720	Due to customers	16,738	13,720	
Accrued acquisition stay bonus		5,919	9,135				
Employee stock purchase plan contributions		5,488	5,230				
Accrued indirect taxes	Accrued indirect taxes	4,730	9,766	Accrued indirect taxes	5,804	9,766	
Accrued professional fees	Accrued professional fees	3,896	4,984	Accrued professional fees	4,152	4,984	
Non-contingent consideration from acquisitions	Non-contingent consideration from acquisitions	3,662	2,434	Non-contingent consideration from acquisitions	3,966	2,434	
Accrued acquisition stay bonus				Accrued acquisition stay bonus	3,765	9,135	
Accrued cloud provisioning costs	Accrued cloud provisioning costs	2,375	4,224	Accrued cloud provisioning costs	3,469	4,224	
Employee stock purchase plan contributions				Employee stock purchase plan contributions	2,923	5,230	
Deferred compensation plan liabilities	Deferred compensation plan liabilities	2,238	2,067	Deferred compensation plan liabilities	2,182	2,067	

Contingent consideration from acquisitions	Contingent consideration from acquisitions	3	1,196	Contingent consideration from acquisitions	3	1,196
Other accrued and current liabilities	Other accrued and current liabilities	26,492	32,421	Other accrued and current liabilities	19,934	32,421
Total accruals and other current liabilities	Total accruals and other current liabilities	\$ 398,883	\$ 362,048	Total accruals and other current liabilities	\$ 403,428	\$ 362,048

Note 10: Long-Term Debt

Long-term debt consists of the following:

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Credit facility:	Credit facility:			Credit facility:		
Revolving loan facility due November 2025	Revolving loan facility due November 2025	\$ 201,245	\$ 345,597	Revolving loan facility due November 2025	\$ 153,445	\$ 345,597
Term loan due November 2025	Term loan due November 2025	192,500	195,000	Term loan due November 2025	191,250	195,000
Convertible senior notes due January 2026 (the "2026 Notes")	Convertible senior notes due January 2026 (the "2026 Notes")	687,830	687,830	Convertible senior notes due January 2026 (the "2026 Notes")	687,830	687,830
Convertible senior notes due July 2027 (the "2027 Notes")	Convertible senior notes due July 2027 (the "2027 Notes")	575,000	575,000	Convertible senior notes due July 2027 (the "2027 Notes")	575,000	575,000
Unamortized debt issuance costs	Unamortized debt issuance costs	(19,592)	(22,731)	Unamortized debt issuance costs	(18,023)	(22,731)
Total debt	Total debt	1,636,983	1,780,696	Total debt	1,589,502	1,780,696
Less: Current portion of long-term debt	Less: Current portion of long-term debt	(7,500)	(5,000)	Less: Current portion of long-term debt	(8,750)	(5,000)
Long-term debt	Long-term debt	\$ 1,629,483	\$ 1,775,696	Long-term debt	\$ 1,580,752	\$ 1,775,696

Credit Facility

The Company is party to a Credit Agreement dated December 19, 2017 (as amended from time to time), which provides for an \$850,000 senior secured revolving loan facility that matures on November 15, 2025 (the "Credit Facility"). The Credit Facility also provides up to \$50,000 of letters of credit and other borrowings subject to availability, including an \$85,000 U.S. dollar swingline sub-facility and a \$200,000 incremental "accordion" sub-facility. Debt issuance costs are amortized to interest expense through the maturity date.

Under the Credit Facility, the Company has a \$200,000 senior secured term loan with a maturity of November 15, 2025 (the "Term Loan"). The Term Loan requires principal repayment at the end of each calendar quarter. Beginning with March 31, 2022 and ending with December 31, 2023, the Company is required to repay \$1,250 per quarter. Beginning with March 31, 2024 and ending with the last such date prior to the maturity date, the Company is required to repay \$2,500 per quarter.

The Company had \$150 of letters of credit and surety bonds outstanding as of June 30, 2023, September 30, 2023 and December 31, 2022 under the Credit Facility. As of June 30, 2023, September 30, 2023 and December 31, 2022, the Company had \$648,605, \$696,405 and \$504,253, respectively, available under the Credit Facility.

Effective June 23, 2023, the Company amended the Credit Facility to replace the referenced interest rate based on LIBOR with the Secured Overnight Financing Rate ("SOFR").

Revolving loan borrowings under the Credit Facility bear interest at variable rates that reset every one, three, or six months depending on the period selected by the Company. Under the Term SOFR elections, revolving loan borrowings bear an interest rate of the applicable term SOFR rate plus 10 basis points ("bps"), plus a spread ranging from 125 bps to 225 bps as determined by the Company's net leverage ratio. Under the non-Term SOFR elections, revolving loan borrowings bear a base interest rate of the highest of (i) the prime rate, (ii) the overnight bank funding effective rate plus 50 bps, or (iii) the applicable term SOFR rate plus 10 bps, plus a spread ranging from 25 bps to 125 bps as determined by the Company's net leverage ratio.

Swingline borrowings under the Credit Facility bear interest that resets daily. Interest on U.S. dollar swingline borrowings bear an interest rate of the daily simple SOFR rate plus 3.5 bps, plus a spread ranging from 125 bps to 225 bps as determined by the Company's net leverage ratio. The Company cannot make optional currency swingline borrowings without the consent of the applicable swingline lender.

Term loan borrowings under the Credit Facility bear interest at variable rates that reset every one, three, or six months depending on the period selected by the Company. Under the Term SOFR elections, term loan borrowings bear an interest rate of the applicable term SOFR rate plus 10 bps, plus a spread ranging from 100 bps to 200 bps as determined by the Company's net leverage ratio. Under the non-Term SOFR elections, term loan borrowings bear a base interest rate of the highest of (i) the prime rate, (ii) the overnight bank funding effective rate plus 50 bps, or (iii) the applicable term SOFR rate plus 10 bps, plus a spread ranging from 0 bps to 100 bps as determined by the Company's net leverage ratio.

In addition, a commitment fee for the unused Credit Facility ranges from 20 bps to 30 bps as determined by the Company's net leverage ratio.

Borrowings under the Credit Facility are guaranteed by all of the Company's material first tier domestic subsidiaries and are secured by a first priority security interest in substantially all of the Company's and the guarantors' U.S. assets and 65% of the stock of their directly owned foreign subsidiaries.

The agreement governing the Credit Facility contains customary positive and negative covenants, including restrictions on our ability to pay dividends and make other restricted payments, as well as events of default, including, without limitation, payment defaults, breaches of representations and warranties, covenants defaults, cross-defaults to certain other indebtedness in excess of \$50,000, certain events of bankruptcy and insolvency, judgment defaults in excess of \$10,000, failure of any security document supporting the Credit Facility to be in full force and effect, and a change of control. The Credit Facility also contains customary financial covenants, including maximum net leverage ratio. As of June 30, 2023, September 30, 2023 and December 31, 2022, the Company was in compliance with all covenants in its Credit Facility.

Voluntary prepayments of amounts outstanding under the Credit Facility, in whole or in part, are permitted at any time, so long as the Company gives notice as required by the Credit Facility. However, if prepayment is made with respect to a SOFR-based loan and the prepayment is made on a date other than an interest payment date, the Company is subject to customary breakage costs.

Convertible Senior Notes

As of June 30, 2023, September 30, 2023 and December 31, 2022, the Company was in compliance with all covenants in the 2026 Notes and 2027 Notes, and none of the conditions of the 2026 Notes or 2027 Notes to early convert had been met.

Derivative Arrangements

The Company records derivative instruments as an asset or liability measured at fair value and depending on the nature of the hedge, the corresponding changes in the fair value of these instruments are recorded in the consolidated statements of operations or comprehensive income. If the derivative is determined to be a hedge, changes in the fair value of the derivative are offset against the change in the fair value of the hedged assets or liabilities through the consolidated statements of operations or recognized in *Other comprehensive income (loss), net of taxes* until the hedged item is recognized in the consolidated statements of operations. The ineffective portion of a derivative's change in fair value is recognized in earnings. Also, changes in the entire fair value of a derivative that is not designated as a hedge are recognized in earnings.

Effective on April 2, 2020, the Company entered into an interest rate swap with a notional amount of \$200,000 and a ten-year term to reduce the interest rate risk associated with the Credit Facility. Effective on June 26, 2023, the Company amended the interest rate swap agreement to replace the LIBOR rate to SOFR under the ISDA Fallback Protocols included within the agreement. Subsequent to the amendment, the Company will continue to pay a fixed interest rate of 72.9 bps, and will receive a floating interest rate equal to daily SOFR plus an ARRC spread adjustment of 11.448 bps. The interest rate swap is not designated as a hedging instrument for accounting purposes. The Company accounts for the interest rate swap as either an asset or a liability on the consolidated balance sheets and carries the derivative at fair value (see Note 17). Gain (loss) from the change in fair value and payments related to the interest rate swap are recognized in *Other income (expense), net* in the consolidated statements of operations (see Note 20). The bank counterparty to the derivative potentially exposes the Company to credit-related losses in the event of nonperformance. To mitigate that risk, the Company only contracts with counterparties who meet the Company's minimum requirements under its counterparty risk assessment process. The Company monitors counterparty risk on at least a quarterly basis and adjusts its exposure as necessary. The Company does not enter into derivative instrument transactions for trading or speculative purposes.

Interest Expense, Net

Interest expense, net consists of the following:

		Three Months Ended		Six Months Ended		Three Months Ended		Nine Months Ended	
		June 30,		June 30,		September 30,		September 30,	
		2023	2022	2023	2022	2023	2022	2023	2022
Contractual interest expense	Contractual interest expense	\$ (9,364)	\$ (5,700)	\$ (18,674)	\$ (9,747)	\$ (8,678)	\$ (7,345)	\$ (27,352)	\$ (17,092)
Amortization of deferred debt issuance costs	Amortization of deferred debt issuance costs	(1,823)	(1,868)	(3,646)	(3,646)	(1,823)	(1,822)	(5,469)	(5,468)
Other interest income (expense)		1,193	(153)	1,005	(1,158)				
Other interest income	Other interest (expense) income					(47)	(76)	958	(1,234)

Interest income	Interest income	510	82	739	164	Interest income	501	109	1,240	273
Interest expense, net	Interest expense, net	\$ (9,484)	\$ (7,639)	\$ (20,576)	\$ (14,387)	Interest expense, net	\$ (10,047)	\$ (9,134)	\$ (30,623)	\$ (23,521)

The weighted average interest rate on borrowings under the Credit Facility were 7.14%, 7.44% and 2.89% 4.34% for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and 6.89% 7.04% and 2.62% 3.20% for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

Note 11: Executive Bonus Plan

For the three months ended June 30, 2023 September 30, 2023 and 2022, the incentive compensation, including cash payments, election to receive shares of fully vested Class B Common Stock, and deferred compensation to plan participants, recognized under the amended and restated Bentley Systems, Incorporated Bonus Pool Plan (the "Bonus Plan") (net of all applicable holdbacks) was \$4,297 \$5,081 and \$6,811, \$8,454, respectively, and \$12,245 \$17,326 and \$16,530 \$24,984 for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

Note 12: Retirement Plans

Deferred Compensation Plan

Deferred compensation plan (income) expense (income) was \$3,777 \$(3,160) and \$(12,159) \$(4,576) for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and \$7,923 \$4,763 and \$(17,297) \$(21,873) for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

For the three months ended June 30, 2023 September 30, 2023 and 2022, elective participant deferrals into the Company's unfunded amended and restated Bentley Systems, Incorporated Nonqualified Deferred Compensation Plan (the "DCP") were \$118 \$61 and \$2,439, \$1,586, respectively, and \$1,651 \$1,712 and \$3,108 \$4,694 for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively. No discretionary contributions were made to the DCP during the three and six nine months ended June 30, 2023 September 30, 2023 and 2022. As of June 30, 2023 September 30, 2023 and December 31, 2022, phantom shares of the Company's Class B Common Stock issuable by the DCP were 17,995,119 17,911,610 and 21,587,831, respectively.

The total liabilities related to the DCP is included in the consolidated balance sheets as follows:

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Accruals and other current liabilities	Accruals and other current liabilities	\$ 2,238	\$ 2,067	Accruals and other current liabilities	\$ 2,182	\$ 2,067
Deferred compensation plan liabilities	Deferred compensation plan liabilities	82,641	77,014	Deferred compensation plan liabilities	79,537	77,014
Total DCP liabilities	Total DCP liabilities	\$ 84,879	\$ 79,081	Total DCP liabilities	\$ 81,719	\$ 79,081

Note 13: Common Stock

BSY Stock Repurchase Program

On May 11, 2022, the Company announced that its Board of Directors approved the BSY Stock Repurchase Program (the "Repurchase Program") authorizing the Company to repurchase up to \$200,000 of the Company's Class B Common Stock through June 30, 2024. On December 14, 2022, the Company's Board of Directors amended the Repurchase Program to allow the Company also to repurchase its outstanding convertible senior notes. This additional authorization did not increase the overall dollar limit of the Repurchase Program. The shares and notes proposed to be acquired in the Repurchase Program may be repurchased from time to time in open market transactions, through privately negotiated transactions, or by other means in accordance with federal securities laws. The Company intends to fund repurchases from available working capital and cash provided by operating activities. The timing, as well as the number and value of shares and/or notes repurchased under the Repurchase Program, will be determined by the Company at its discretion and will depend on a variety of factors, including management's assessment of the intrinsic value of the Company's shares, the market price of the Company's Class B Common Stock and outstanding notes, general market and economic conditions, available liquidity, compliance with the Company's debt and other agreements, and applicable legal requirements. The exact number of shares and/or notes to be repurchased by the Company is not guaranteed, and the Repurchase Program may be suspended, modified, or discontinued at any time without prior notice. The Company did not repurchase shares under the Repurchase Program for the six nine months ended June 30, 2023 September 30, 2023. For the six nine months ended June 30, 2022 September 30, 2022, the Company repurchased 463,001 896,126 shares for \$13,242 \$28,250 under the Repurchase Program. As of June 30, 2023 September 30, 2023, \$169,752 was available under the Company's Board of Directors authorization for future repurchases of Class B Common Stock and/or outstanding convertible senior notes under the Repurchase Program.

Common Stock Issuances, Sales, and Repurchases

For the six nine months ended June 30, 2023 September 30, 2023, the Company issued 2,236,827 2,422,082 shares of Class B Common Stock to colleagues who exercised their stock options, net of 221,078 234,472 shares withheld at exercise to pay for the cost of the stock options, as well as for \$5,989 \$6,408 of applicable income tax withholdings. The Company received \$9,700 \$10,590 in proceeds from the exercise of stock options. For the six nine months ended June 30, 2022 September 30, 2022, the Company issued 2,054,585 2,272,603 shares of Class B Common Stock to colleagues who exercised their stock options, net of \$55,063 362,826 shares withheld at exercise to pay for the cost of the stock options, as well as for \$8,400 \$8,459 of applicable income tax withholdings. The Company received \$5,861 \$6,855 in proceeds from the exercise of stock options.

For the six nine months ended June 30, 2022 September 30, 2022, the Company issued 185,178 shares of Class B Common Stock related to the exercise of acquisition options, net of 714,822 shares withheld at exercise to pay for the cost of the options. The Company did not receive any proceeds from the exercise of these options.

For the **six nine** months ended **June 30, 2023** **September 30, 2023** and 2022, the Company issued **137,197** **171,510** and **159,797** **284,992** shares of Class B Common Stock, respectively, in connection with Bonus Plan incentive compensation, net of shares withheld. Of the total **245,571** **306,824** shares awarded for the **six nine** months ended **June 30, 2023** **September 30, 2023**, **108,374** **135,314** shares were sold back to the Company in the same period to pay for applicable income tax withholdings of **\$4,326** **\$5,756**. Of the total **283,913** **409,108** shares awarded for the **six nine** months ended **June 30, 2022** **September 30, 2022**, **124,116** shares were sold back to the Company in the same period to pay for applicable income tax withholdings of \$5,197.

For the **six nine** months ended **June 30, 2023** **September 30, 2023** and 2022, the Company issued **2,782,181** **2,845,448** and **3,425,795** **3,523,386** shares of Class B Common Stock, respectively, to DCP participants in connection with distributions from the plan. The distribution in shares for the **six nine** months ended **June 30, 2023** **September 30, 2023** totaled **3,677,405** **3,781,387** shares of which **895,224** **935,939** shares were sold back to the Company in the same period to pay for applicable income tax withholdings of **\$36,329** **\$38,456**. The distribution in shares for the **six nine** months ended **June 30, 2022** **September 30, 2022** totaled **3,926,105** **4,023,718** shares of which **500,310** **500,332** shares were sold back to the Company in the same period to pay for applicable income tax withholdings of \$24,246.

Dividends

The Company declared cash dividends during the periods presented as follows:

	Dividend Per Share	Amount
2023:		
Second quarter	\$ 0.05	\$ 14,702
First quarter	0.05	14,522
2022:		
Second quarter	\$ 0.03	\$ 8,678
First quarter	0.03	8,353

Dividends Declared Subsequent to June 30, 2023

In July 2023, the Company's Board of Directors approved cash dividends of \$0.05 per share payable on August 24, 2023 to all stockholders of record of Class A and Class B Common Stock as of the close of business on August 15, 2023.

	Dividend Per Share	Amount
2023:		
Third quarter	\$ 0.05	\$ 14,768
Second quarter	0.05	14,702
First quarter	0.05	14,522
2022:		
Third quarter	\$ 0.03	\$ 8,592
Second quarter	0.03	8,678
First quarter	0.03	8,353

Global Employee Stock Purchase Plan

During the **six nine** months ended **June 30, 2023** **September 30, 2023**, colleagues who elected to participate in the Bentley Systems, Incorporated Global Employee Stock Purchase Plan (the "ESPP") purchased a total of **153,381** **315,840** shares of Class B Common Stock, net of shares withheld, resulting in cash proceeds to the Company of **\$4,557** **\$9,988**. Of the total **159,377** **333,324** shares purchased, **5,996** **17,484** shares were sold back to the Company to pay for applicable income tax withholdings of **\$222** **\$845**. During the **six nine** months ended **June 30, 2022** **September 30, 2022**, colleagues who elected to participate in the ESPP purchased a total of **109,749** **307,406** shares of Class B Common Stock, net of shares withheld, resulting in cash proceeds to the Company of **\$4,611** **\$10,335**. Of the total **112,249** **314,471** shares purchased, **2,500** **7,065** shares were sold back to the Company to pay for applicable income tax withholdings of **\$121** **\$273**. As of **June 30, 2023** **September 30, 2023** and December 31, 2022, **\$5,488** **\$2,923** and \$5,230 of ESPP withholdings via colleague payroll deduction were recorded in *Accruals and other current liabilities* in the consolidated balance sheets, respectively. As of **June 30, 2023** **September 30, 2023**, shares of Class B Common Stock available for future issuance under the ESPP were **24,434,497** **24,272,038**.

Note 14: Accumulated Other Comprehensive Loss

Accumulated other comprehensive loss consists of the following during the three months ended **June 30, 2023** **September 30, 2023** and 2022:

	Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, March 31, 2023	\$ (89,068)	\$ (306)	\$ (89,374)
Other comprehensive income, before taxes	1,538	9	1,547

Tax expense	—	(1)	(1)
Other comprehensive income, net of taxes	1,538	8	1,546
Balance, June 30, 2023	\$ (87,530)	\$ (298)	\$ (87,828)

	Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, June 30, 2023	\$ (87,530)	\$ (298)	\$ (87,828)
Other comprehensive (loss) income, before taxes	(7,294)	2	(7,292)
Tax expense	—	(8)	(8)
Other comprehensive loss, net of taxes	(7,294)	(6)	(7,300)
Balance, September 30, 2023	\$ (94,824)	\$ (304)	\$ (95,128)

		Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total		Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, March 31, 2022		\$ (74,430)	\$ (894)	\$ (75,324)				
Balance, June 30, 2022					Balance, June 30, 2022	\$ (88,250)	\$ (881)	\$ (89,131)
Other comprehensive (loss) income, before taxes	Other comprehensive (loss) income, before taxes	(13,820)	18	(13,802)	Other comprehensive (loss) income, before taxes	(12,809)	16	(12,793)
Tax expense	Tax expense	—	(5)	(5)	Tax expense	—	(5)	(5)
Other comprehensive (loss) income, net of taxes	Other comprehensive (loss) income, net of taxes	(13,820)	13	(13,807)	Other comprehensive (loss) income, net of taxes	(12,809)	11	(12,798)
Balance, June 30, 2022		\$ (88,250)	\$ (881)	\$ (89,131)				
Balance, September 30, 2022					Balance, September 30, 2022	\$ (101,059)	\$ (870)	\$ (101,929)

Accumulated other comprehensive loss consists of the following during the **six** **nine** months ended **June 30, 2023** **September 30, 2023** and 2022:

	Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, December 31, 2022	\$ (89,408)	\$ (332)	\$ (89,740)
Other comprehensive income, before taxes	1,878	41	1,919
Tax expense	—	(7)	(7)
Other comprehensive income, net of taxes	1,878	34	1,912
Balance, June 30, 2023	\$ (87,530)	\$ (298)	\$ (87,828)

	Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, December 31, 2022	\$ (89,408)	\$ (332)	\$ (89,740)
Other comprehensive (loss) income, before taxes	(5,416)	43	(5,373)
Tax expense	—	(15)	(15)
Other comprehensive (loss) income, net of taxes	(5,416)	28	(5,388)
Balance, September 30, 2023	\$ (94,824)	\$ (304)	\$ (95,128)

	Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, December 31, 2021	\$ (90,867)	\$ (907)	\$ (91,774)
Other comprehensive income, before taxes	2,617	36	2,653
Tax expense	—	(10)	(10)
Other comprehensive income, net of taxes	2,617	26	2,643
Balance, June 30, 2022	\$ (88,250)	\$ (881)	\$ (89,131)

	Foreign Currency Translation	Actuarial (Loss) Gain on Retirement Plan	Total
Balance, December 31, 2021	\$ (90,867)	\$ (907)	\$ (91,774)
Other comprehensive (loss) income, before taxes	(10,192)	52	(10,140)
Tax expense	—	(15)	(15)
Other comprehensive (loss) income, net of taxes	(10,192)	37	(10,155)
Balance, September 30, 2022	\$ (101,059)	\$ (870)	\$ (101,929)

Note 15: Stock-Based Compensation

Total stock-based compensation expense consists of the following:

		Three Months Ended June 30,		Six Months Ended June 30,			Three Months Ended September 30,		Nine Months Ended September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Restricted stock and restricted stock units ("RSUs") expense	Restricted stock and restricted stock units ("RSUs") expense	\$ 13,530	\$ 9,197	\$ 27,453	\$ 14,562	Restricted stock and restricted stock units ("RSUs") expense	\$ 13,988	\$ 10,441	\$ 41,441	\$ 25,003
Bonus Plan expense (see Note 11)	Bonus Plan expense (see Note 11)	3,336	5,978	7,882	14,139	Bonus Plan expense (see Note 11)	3,847	7,305	11,729	21,444
ESPP expense (see Note 13)	ESPP expense (see Note 13)	600	1,149	1,175	1,829	ESPP expense (see Note 13)	634	565	1,809	2,394
Stock grants expense	Stock grants expense	—	—	—	—	Stock grants expense	—	—	600	450
Stock option expense	Stock option expense	—	611	343	1,367	Stock option expense	—	395	343	1,762
Stock grants expense	Stock grants expense	600	450	600	450					
DCP elective participant deferrals expense ⁽¹⁾ (see Note 12)	DCP elective participant deferrals expense ⁽¹⁾ (see Note 12)	38	84	135	221	DCP elective participant deferrals expense ⁽¹⁾ (see Note 12)	35	85	170	306
Total stock-based compensation expense ⁽²⁾	Total stock-based compensation expense ⁽²⁾	\$ 18,104	\$ 17,469	\$ 37,588	\$ 32,568	Total stock-based compensation expense ⁽²⁾	\$ 18,504	\$ 18,791	\$ 56,092	\$ 51,359

(1) DCP elective participant deferrals expense excludes deferred incentive bonus payable pursuant to the Bonus Plan.

(2) As of **June 30, 2023** **September 30, 2023** and December 31, 2022, **\$4,338** **\$4,656** and \$7,300 remained in *Accruals and other current liabilities* in the consolidated balance sheets, respectively.

Total stock-based compensation expense is included in the consolidated statements of operations as follows:

		Three Months Ended		Six Months Ended		Three Months Ended		Nine Months Ended	
		June 30,		June 30,		September 30,		September 30,	
		2023	2022	2023	2022	2023	2022	2023	2022
Cost of subscriptions and licenses	Cost of subscriptions and licenses	\$ 1,132	\$ 785	\$ 2,166	\$ 1,170	\$ 1,254	\$ 757	\$ 3,420	\$ 1,927
Cost of services	Cost of services	707	564	1,714	947	671	460	2,385	1,407
Research and development	Research and development	4,424	5,544	9,710	10,939	4,977	6,754	14,687	17,693
Selling and marketing	Selling and marketing	2,943	2,189	5,813	3,643	3,244	2,014	9,057	5,657
General and administrative	General and administrative	8,898	8,387	18,185	15,869	8,358	8,806	26,543	24,675
Total stock-based compensation expense	Total stock-based compensation expense	\$ 18,104	\$ 17,469	\$ 37,588	\$ 32,568	\$ 18,504	\$ 18,791	\$ 56,092	\$ 51,359

Stock-based compensation expense is measured at the grant date fair value of the award and is recognized ratably over the requisite service period, which is generally the vesting period. Specifically for performance-based RSUs, stock-based compensation expense is measured at the grant date fair value of the award and is recognized ratably over the requisite service period based on the number of awards expected to vest at each reporting date. The Company accounts for forfeitures of equity awards as those forfeitures occur.

Stock Options

The following is a summary of stock option activity and related information under the Company's applicable equity incentive plans:

		Weighted Average		Weighted Average	Aggregate Intrinsic Value	Weighted Average		Weighted Average	Aggregate Intrinsic Value
		Stock Options	Exercise Price Per Share	Remaining Contractual Life (in years)		Stock Options	Exercise Price Per Share	Remaining Contractual Life (in years)	
Outstanding, December 31, 2022	Outstanding, December 31, 2022	3,794,515	\$ 5.57			3,794,515	\$ 5.57		
Exercised	Exercised	(2,457,905)	5.48			(2,656,554)	5.50		
Forfeited and expired	Forfeited and expired	(7,500)	5.60			(17,500)	5.68		
Outstanding, June 30, 2023		1,329,110	\$ 5.74	0.7	\$ 64,449				
Exercisable, June 30, 2023		1,329,110	\$ 5.74	0.7	\$ 64,449				
Outstanding, September 30, 2023	Outstanding, September 30, 2023	1,120,461	\$ 5.74	0.5	\$ 49,771				
Exercisable, September 30, 2023	Exercisable, September 30, 2023	1,120,461	\$ 5.74	0.5	\$ 49,771				

For the **six** **nine** months ended **June 30, 2023** **September 30, 2023** and 2022, the Company received cash proceeds of **\$9,700** **\$10,590** and **\$5,861**, **\$6,855**, respectively, related to the exercise of stock options. The total intrinsic value of stock options exercised for the **six** **nine** months ended **June 30, 2023** **September 30, 2023** and 2022 was **\$93,656** **\$102,667** and **\$82,288**, **\$89,532**, respectively.

As of **June 30, 2023** **September 30, 2023**, there was no remaining unrecognized compensation expense related to unvested stock options.

Restricted Stock and RSUs

Under the equity incentive plans, the Company may grant both time-based and performance-based shares of restricted Class B Common Stock and RSUs to eligible colleagues. Time-based awards generally vest ratably on each of the first four anniversaries of the grant date. Performance-based awards vesting is determined by the achievement of certain business profitability and growth targets, including growth in annualized recurring revenues ("ARR"), and actual bookings for perpetual licenses and non-recurring services, among others. Performance targets are generally set for performance periods of one year to three years.

The following is a summary of unvested restricted stock and RSU activity and related information under the Company's applicable equity incentive plans:

		Time-Based					Performance-Based					
		Total			Time-Based		Total			Time-Based		
		Restricted Stock and RSUs			Weighted Average		Restricted Stock and RSUs			Weighted Average		
		Grant Date Fair Value Per Share			Grant Date Fair Value Per Share		Grant Date Fair Value Per Share			Grant Date Fair Value Per Share		
Unvested, December 31, 2022	Unvested, December 31, 2022	3,068,851	2,706,078	362,773	\$ 36.67	\$ 38.21	Unvested, December 31, 2022	3,068,851	2,706,078	362,773	\$ 36.67	\$ 38.21
Granted	Granted	1,195,377 ⁽¹⁾	998,913	196,464 ⁽⁵⁾	41.15	39.03	Granted	1,199,644 ⁽¹⁾	1,003,180	196,464 ⁽⁵⁾	41.17	39.03
Vested	Vested	(518,106)	(360,946)	(157,160)	44.70	38.20	Vested	(780,084)	(622,924)	(157,160)	33.46	38.20
Forfeited and canceled	Forfeited and canceled	(121,669)	(87,875)	(33,794)	30.82	32.83	Forfeited and canceled	(180,944)	(143,620)	(37,324)	33.16	33.41
Unvested, June 30, 2023	Unvested, June 30, 2023	3,624,453 ⁽²⁾	3,256,170	368,283	37.32	39.14						
Unvested, September 30, 2023	Unvested, September 30, 2023	3,307,467	2,942,714	364,753	39.06	39.15						

(1) For the six nine months ended June 30, 2023 September 30, 2023, the Company only granted RSUs.

(2) Includes 64,939 59,089 RSUs which are expected to be settled in cash.

(3) Includes 199,076 time-based RSUs granted during the three months ended March 31, 2022 to certain officers and key employees, which cliff vest on January 31, 2025.

(4) Primarily relates to the 2022 annual performance period, except for 185,186 performance-based RSUs granted during the year ended December 31, 2022 with extraordinary terms, which are described below.

(5) Primarily relates to the 2023 annual performance period, except for 13,367 additional shares earned based on the achievement of 2022 performance goals for performance-based RSUs granted during the year ended December 31, 2022.

During the year ended December 31, 2022, the Company granted 185,186 performance-based RSUs to certain officers and key employees, which vest subject to the achievement of certain performance goals over a three-year performance period (the "Performance Period"). For each year of the Performance Period, one-third of the performance-based RSUs will be subject to a cliff, whereby no vesting of that portion will occur unless the Company's applicable margin metrics (which, for 2022, was Adjusted EBITDA margin and for 2023 and 2024, will be Adjusted operating income inclusive of stock-based compensation expense ("Adjusted OI w/SBC") margin, excluding the impact of currency exchange fluctuations) also equals or exceeds the relevant target level for such year. Provided that the applicable margin targets are met, the total number of performance-based RSUs that will vest is determined by the achievement of growth targets, which include growth in ARR, as well as actual bookings for perpetual licenses and non-recurring services. Final actual vesting will be determined on January 31, 2025. The 2022 Adjusted EBITDA margin target for the performance-based RSUs was met.

In 2016, the Company granted RSUs subject to performance-based vesting as determined by the achievement of certain business growth targets. Certain colleagues elected to defer delivery of such shares upon vesting. During the six nine months ended June 30, 2023 September 30, 2023 and 2022, 1,562 and 10,888 shares, respectively, were delivered to colleagues, and 20 28 and 16 23 additional shares, respectively, were earned as a result of dividends. As of June 30, 2023 September 30, 2023 and December 31, 2022, 7,821 7,829 and 9,363 shares, respectively, of these vested and deferred RSUs remained outstanding.

The weighted average grant date fair values of RSUs granted were \$40.80 \$40.82 and \$39.02 \$38.68, for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.

For the six nine months ended June 30, 2023 September 30, 2023 and 2022, restricted stock and RSUs were issued net of 104,773 137,675 and 52,026 81,301 shares, respectively, which were sold back to the Company to settle applicable income tax withholdings of \$4,336 \$6,062 and \$2,148 \$3,208, respectively.

As of June 30, 2023 September 30, 2023, there was \$95,227 \$82,609 of unrecognized compensation expense related to unvested time-based restricted stock and RSUs, which is expected to be recognized over a weighted average period of approximately 1.8 1.7 years. As of June 30, 2023 September 30, 2023, there was \$8,437 \$5,648 of unrecognized compensation expense related to unvested performance-based RSUs, which is expected to be recognized over a weighted average period of approximately 1.0 0.8 years.

Stock Grants

For the six nine months ended June 30, 2023 September 30, 2023 and 2022, the Company granted 12,639 and 13,632 fully vested shares of Class B Common Stock, respectively, with a fair value of \$600 and \$450, respectively.

Equity Awards Subsequent to September 30, 2023

In October 2023, the Company granted 265,759 time-based RSUs, which generally vest ratably on each of the first four anniversaries of the grant date. The unrecognized compensation expense related to these RSUs is approximately \$13,000, which is expected to be recognized over a weighted average period of approximately 4.0 years.

Note 16: Income Taxes

The following is a summary of *Income before income taxes*, *(Benefit) provision* *Provision* for income taxes, and effective tax rate for the periods presented:

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Income before income taxes	Income before income taxes	\$ 44,786	\$ 51,592	\$ 99,768	\$ 111,783	Income before income taxes	\$ 69,585	\$ 47,342	\$ 169,353	\$ 159,125
(Benefit) provision for income taxes		\$ (3,899)	\$ (4,674)	\$ 5,593	\$ (1,443)					
Provision for income taxes						Provision for income taxes	\$ 16,514	\$ 9,664	\$ 22,107	\$ 8,221
Effective tax rate	Effective tax rate	(8.7) %	(9.1) %	5.6 %	(1.3) %	Effective tax rate	23.7 %	20.4 %	13.1 %	5.2 %

For the three months ended June 30, 2023 September 30, 2023, the effective tax rate was higher compared to the prior year period primarily due to the an increase in the forecasted effective tax rate impact of the U.S. Global Intangible Low-Taxed Income ("GILTI") inclusion due to the mandatory capitalization of research and development expenses for U.S. tax purposes, partially offset by an increase in discrete tax benefits recognized in the current year period. purposes. For the three months ended June 30, 2023 September 30, 2023 and 2022, the Company recorded discrete tax benefits of \$20,394 \$4,428 and \$19,024, \$4,280, respectively, primarily associated with windfall tax benefits from stock-based compensation, net of the impact from officer compensation limitation provisions.

For the six nine months ended June 30, 2023 September 30, 2023, the effective tax rate was higher compared to the prior year period primarily due to the decrease in discrete tax benefits recognized in the current year period and the an increase in the forecasted effective tax rate impact of the GILTI inclusion due to the mandatory capitalization of research and development expenses for U.S. tax purposes, purposes and a decrease in discrete tax benefits recognized in the current year period. For the six nine months ended June 30, 2023 September 30, 2023 and 2022, the Company recorded discrete tax benefits of \$27,467 \$31,895 and \$31,752, \$36,032, respectively, primarily associated with windfall tax benefits from stock-based compensation, net of the impact from officer compensation limitation provisions.

Note 17: Fair Value of Financial Instruments

A financial asset or liability classification is determined based on the lowest level input that is significant to the fair value measurement. The fair value hierarchy consists of the following three levels:

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 inputs are quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument.

Level 3 inputs are unobservable inputs based on management's own assumptions used to measure assets and liabilities at fair value.

The Company's financial instruments include cash equivalents, account receivables, certain other assets, accounts payable, accruals, certain other current and long-term liabilities, and long-term debt.

Current assets and current liabilities — In general, the carrying amounts reported on the Company's consolidated balance sheets for current assets and current liabilities approximate their fair values due to the short-term nature of those instruments.

The following methods and assumptions were used by the Company in estimating its fair value measurements for Level 2 and Level 3 financial instruments as of June 30, 2023 September 30, 2023 and December 31, 2022:

Acquisition contingent consideration — The fair value of these liabilities is generally determined using a cost or income approach and is measured based on significant inputs not observable in the market, which represents a Level 3 measurement within the fair value hierarchy. The valuation of contingent consideration uses assumptions the Company believes would be made by a market participant.

Interest rate swap — The fair value of the Company's interest rate swap asset or liability is determined using an income approach and is measured based on the implied forward rates for the remaining term of the interest rate swap. The Company considers these valuation inputs to be Level 2 inputs in the fair value hierarchy.

Long-term debt — The fair value of the Company's borrowings under its Credit Facility approximated its carrying value based upon discounted cash flows at current market rates for instruments with similar remaining terms. The Company considers these valuation inputs to be Level 2 inputs in the fair value hierarchy. As of June 30, 2023 September 30, 2023, the estimated fair value of the 2026 Notes and 2027 Notes was \$700,438 \$671,962 and \$516,873, \$492,815, respectively. As of December 31, 2022, the estimated fair value of the 2026 Notes and 2027 Notes was \$622,431 and \$470,856, respectively. The estimated fair value of the 2026 Notes and 2027 Notes is based on quoted market prices of the Company's instrument in markets that are not active and are classified as Level 2 within the fair value hierarchy. Considerable judgment is necessary to interpret the market data and develop estimates of fair values. Accordingly, the estimates presented are not necessarily indicative of the amounts at which these instruments could be purchased, sold, or settled.

Deferred compensation plan liabilities — The fair value of deferred compensation plan liabilities, including the liability classified phantom investments in the DCP, are marked to market at the end of each reporting period.

Financial assets and financial liabilities carried at fair value measured on a recurring basis consist of the following:

June 30, 2023		Level 1	Level 2	Level 3	Total	September 30, 2023		Level 1	Level 2	Level 3	Total
Assets:						Assets:					
Money market funds ⁽¹⁾	Money market funds ⁽¹⁾	\$ 6,026	\$ —	\$ —	\$ 6,026	Money market funds ⁽¹⁾	\$ 3,023	\$ —	\$ —	\$ —	\$ 3,023
Interest rate swap ⁽²⁾	Interest rate swap ⁽²⁾	—	36,537	—	36,537	Interest rate swap ⁽²⁾	—	41,302	—	—	41,302
Total assets	Total assets	\$ 6,026	\$ 36,537	\$ —	\$ 42,563	Total assets	\$ 3,023	\$ 41,302	\$ —	\$ —	\$ 44,325
Liabilities:						Liabilities:					
Acquisition contingent consideration ⁽³⁾	Acquisition contingent consideration ⁽³⁾	\$ —	\$ —	\$ 3	\$ 3	Acquisition contingent consideration ⁽³⁾	\$ —	\$ —	\$ 3	\$ 3	\$ 3
Deferred compensation plan liabilities ⁽⁴⁾	Deferred compensation plan liabilities ⁽⁴⁾	84,879	—	—	84,879	Deferred compensation plan liabilities ⁽⁴⁾	81,719	—	—	—	81,719
Cash-settled equity awards ⁽³⁾	Cash-settled equity awards ⁽³⁾	968	—	—	968	Cash-settled equity awards ⁽³⁾	715	—	—	—	715
Total liabilities	Total liabilities	\$ 85,847	\$ —	\$ 3	\$ 85,850	Total liabilities	\$ 82,434	\$ —	\$ 3	\$ 3	\$ 82,437
December 31, 2022											
Assets:											
Money market funds ⁽¹⁾				\$ 19	\$ 19					\$ —	\$ 19
Interest rate swap ⁽²⁾				—	37,200					—	37,200
Total assets				\$ 19	\$ 37,200					\$ —	\$ 37,219
Liabilities:											
Acquisition contingent consideration ⁽³⁾				\$ —	\$ —					1,196	\$ 1,196
Deferred compensation plan liabilities ⁽⁴⁾				79,081	—					—	79,081
Cash-settled equity awards ⁽³⁾				536	—					—	536
Total liabilities				\$ 79,617	\$ —					1,196	\$ 80,813

(1) Included in *Cash and cash equivalents* in the consolidated balance sheets.

(2) Included in *Other assets* in the consolidated balance sheets.

(3) Included in *Accruals and other current liabilities* in the consolidated balance sheets.

(4) Included in *Deferred compensation plan liabilities*, except for current liabilities of \$2,238 \$2,182 and \$2,067 as of June 30, 2023 September 30, 2023 and December 31, 2022, respectively, which are included in *Accruals and other current liabilities* in the consolidated balance sheets.

The following is a reconciliation of the changes in fair value of the Company's financial liabilities which have been classified as Level 3 in the fair value hierarchy:

Six Months Ended	Year Ended	Nine Months Ended	Year Ended
June 30, 2023	December 31, 2022	September 30, 2023	December 31, 2022

Balance, beginning of year	Balance, beginning of year	\$ 1,196	\$ 6,613	Balance, beginning of year	\$ 1,196	\$ 6,613
Payments	Payments	(1,206)	(5,261)	Payments	(1,206)	(5,261)
Addition	Addition	—	1,390	Addition	—	1,390
Change in fair value	Change in fair value	—	(1,427)	Change in fair value	—	(1,427)
Foreign currency translation adjustments	Foreign currency translation adjustments	13	(119)	Foreign currency translation adjustments	13	(119)
Balance, end of period	Balance, end of period	\$ 3	\$ 1,196	Balance, end of period	\$ 3	\$ 1,196

The Company did not have any transfers between levels within the fair value hierarchy.

Note 18: Commitments and Contingencies

Purchase Commitment Commitments — In the normal course of business, the Company enters into various purchase commitments for goods and services. During June 2023, the nine months ended September 30, 2023, the Company entered into a \$122,000 approximately \$158,000 of non-cancelable future cash purchase commitment commitments for services related to cloud provisioning of the Company's software solutions and for other software costs through May 2026, 2026 and September 2028, respectively. As of June 30, 2023 September 30, 2023, the non-cancelable future cash purchase commitment was \$118,915. commitments were approximately \$137,000. The Company expects to fully consume its contractual commitment commitments in the ordinary course of operations.

Litigation — From time to time, the Company is involved in certain legal actions arising in the ordinary course of business. In management's opinion, based upon the advice of counsel, the outcome of such actions is not expected to have a material adverse effect on the Company's future financial position, results of operations, or cash flows.

Note 19: Geographic Data

Revenues by geographic region are presented in Note 3. Long-lived assets (other than goodwill), net of depreciation and amortization by geographic region (see Notes 5, 6, and 8) are as follows:

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Americas ⁽¹⁾	Americas ⁽¹⁾	\$ 158,643	\$ 164,729	Americas ⁽¹⁾	\$ 152,822	\$ 164,729
EMEA	EMEA	37,218	32,372	EMEA	37,103	32,372
APAC	APAC	154,546	167,670	APAC	149,797	167,670
Total long-lived assets	Total long-lived assets	\$ 350,407	\$ 364,771	Total long-lived assets	\$ 339,722	\$ 364,771

(1) Americas includes the U.S., Canada, and Latin America (including the Caribbean).

Note 20: Other Income, Net

Other income, net consists of the following:

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Gain (loss) from:	Gain (loss) from:					Gain (loss) from:				
Change in fair value of interest rate swap (see Note 17)	Change in fair value of interest rate swap (see Note 17)	\$ 3,826	\$ 7,406	\$ (663)	\$ 19,490	Change in fair value of interest rate swap (see Note 17)	\$ 4,765	\$ 9,828	\$ 4,102	\$ 29,318
Foreign exchange ⁽¹⁾	Foreign exchange ⁽¹⁾	2,104	(4,717)	3,558	(7,788)	Foreign exchange ⁽¹⁾	(3,154)	(11,027)	404	(18,815)
Sale of aircraft (see Note 5)	Sale of aircraft (see Note 5)	—	—	—	2,029	Sale of aircraft (see Note 5)	—	—	—	2,029

Change in fair value of acquisition contingent consideration (see Note 17)	Change in fair value of acquisition contingent consideration (see Note 17)	—	—	—	(500)	Change in fair value of acquisition contingent consideration (see Note 17)	—	506	—	6
Receipts (payments) related to interest rate swap		2,164	17	4,084	(277)					
Other (expense) income, net ⁽²⁾		(7,129)	808	(5,725)	907					
Receipts related to interest rate swap						Receipts related to interest rate swap	2,336	752	6,420	475
Other income (expense), net ⁽²⁾						Other income (expense), net ⁽²⁾	2,006	873	(3,719)	1,780
Total other income, net	Total other income, net	\$ 965	\$ 3,514	\$ 1,254	\$ 13,861	Total other income, net	\$ 5,953	\$ 932	\$ 7,207	\$ 14,793

- (1) Foreign exchange (loss) gain (loss) is primarily attributable to foreign currency translation derived mainly from U.S. dollar denominated cash and cash equivalents, account receivables, customer deposits, and intercompany balances held by foreign subsidiaries. Intercompany finance transactions primarily denominated in U.S. dollars resulted in unrealized foreign exchange (losses) gains (losses) of \$1,397 \$(1,574) and \$(5,799) \$(5,730) for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and \$2,258 \$684 and \$(6,563) \$(12,293) for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.
- (2) Other income (expense) income, net includes investment impairment charges of \$(7,318) for the three and six nine months ended June 30, 2023 September 30, 2023, partially offset by gains on investments of \$2,360 recorded during the three months ended September 30, 2023 (see Note 7).

Note 21: Net Income Per Share

The Company issues certain performance-based RSUs determined to be participating securities because holders of such shares have non-forfeitable dividend rights in the event of the Company's declaration of a dividend for common shares. As of June 30, 2023 September 30, 2023 and 2022, there were 368,283 364,753 and 356,946 362,773 participating securities outstanding, respectively.

Undistributed net income allocated to participating securities are subtracted from net income in determining basic net income attributable to common stockholders. Basic net income per share is computed by dividing basic net income attributable to common stockholders by the weighted average number of shares, inclusive of undistributed shares held in the DCP as phantom shares of the Company's Class B Common Stock.

For the Company's diluted net income per share numerator, interest expense, net of tax, attributable to the assumed conversion of the convertible senior notes is added back to basic net income attributable to common stockholders. For the Company's diluted net income per share denominator, the basic weighted average number of shares is adjusted for the effect of dilutive securities, including awards under the Company's equity compensation plans and ESPP, and for the dilutive effect of the assumed conversion of the convertible senior notes. Diluted net income per share attributable to common stockholders is computed by dividing diluted net income attributable to common stockholders by the weighted average number of fully diluted common shares.

Except with respect to voting and conversion, the rights of the holders of the Company's Class A Common Stock and the Company's Class B Common Stock are identical. Each class of shares has the same rights to dividends and allocation of income (loss) and, therefore, net income per share would not differ under the two-class method.

The details of basic and diluted net income per share are as follows:

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Numerator:	Numerator:					Numerator:				
Net income	Net income	\$ 48,685	\$ 55,673	\$ 94,175	\$ 112,061	Net income	\$ 53,027	\$ 36,997	\$ 147,202	\$ 149,058
Less: Net income attributable to participating securities	Less: Net income attributable to participating securities	(19)	(11)	(38)	(20)	Less: Net income attributable to participating securities	(18)	(11)	(56)	(31)
Net income attributable to Class A and Class B common stockholders, basic	Net income attributable to Class A and Class B common stockholders, basic	48,666	55,662	94,137	112,041	Net income attributable to Class A and Class B common stockholders, basic	53,009	36,986	147,146	149,027

Add: Interest expense, net of tax, attributable to assumed conversion of convertible senior notes	Add: Interest expense, net of tax, attributable to assumed conversion of convertible senior notes	1,723	1,705	3,440	3,400	Add: Interest expense, net of tax, attributable to assumed conversion of convertible senior notes	1,716	832	5,157	5,116
Net income attributable to Class A and Class B common stockholders, diluted	Net income attributable to Class A and Class B common stockholders, diluted	\$ 50,389	\$ 57,367	\$ 97,577	\$ 115,441	Net income attributable to Class A and Class B common stockholders, diluted	\$ 54,725	\$ 37,818	\$ 152,303	\$ 154,143
Denominator:	Denominator:					Denominator:				
Weighted average shares, basic	Weighted average shares, basic	311,914,602	308,244,778	311,366,371	308,512,924	Weighted average shares, basic	313,069,132	310,116,104	311,915,808	308,959,801
Dilutive effect of stock options, restricted stock, and RSUs	Dilutive effect of stock options, restricted stock, and RSUs	2,643,664	6,167,330	2,744,259	5,854,791	Dilutive effect of stock options, restricted stock, and RSUs	2,115,802	4,126,936	2,534,773	5,278,839
Dilutive effect of ESPP	Dilutive effect of ESPP	160,673	195,485	87,557	173,097	Dilutive effect of ESPP	6,466	168,518	60,526	171,571
Dilutive effect of assumed conversion of convertible senior notes	Dilutive effect of assumed conversion of convertible senior notes	17,633,786	17,667,623	17,633,786	17,667,623	Dilutive effect of assumed conversion of convertible senior notes	17,633,786	10,758,825	17,633,786	17,667,623
Weighted average shares, diluted	Weighted average shares, diluted	332,352,725	332,275,216	331,831,973	332,208,435	Weighted average shares, diluted	332,825,186	325,170,383	332,144,893	332,077,834
Net income per share, basic	Net income per share, basic	\$ 0.16	\$ 0.18	\$ 0.30	\$ 0.36	Net income per share, basic	\$ 0.17	\$ 0.12	\$ 0.47	\$ 0.48
Net income per share, diluted	Net income per share, diluted	\$ 0.15	\$ 0.17	\$ 0.29	\$ 0.35	Net income per share, diluted	\$ 0.16	\$ 0.12	\$ 0.46	\$ 0.46

The following potential common shares were excluded from the calculation of diluted net income per share attributable to common stockholders because their effect would have been anti-dilutive for the periods presented:

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

The following discussion should be read in conjunction with our unaudited consolidated financial statements and notes thereto appearing in Part I, Item 1 of this Quarterly Report on Form 10Q and with our audited consolidated financial statements and notes thereto included in our 2022 Annual Report on Form 10K.

All amounts presented in this Management's Discussion and Analysis of Financial Condition and Results of Operations, except share and per share amounts, are presented in thousands. Additionally, many of the amounts and percentages have been rounded for convenience of presentation. Minor differences in totals and percentage calculations may exist due to rounding.

Overview

We are a leading global provider of software for infrastructure engineering, and enable infrastructure professionals and their organizations, by “going digital” through our software and cloud services offerings, to better design, build, and operate better infrastructure. Our users engineer, construct, and operate projects and assets across the following infrastructure sectors: public works/utilities, resources, industrial, and commercial/facilities.

Our enduring commitment is to develop and support the most comprehensive portfolio of integrated software offerings across professional disciplines, project and asset lifecycles, infrastructure sectors, and geographies. We deliver our solutions via on-premises, cloud, and hybrid environments. Our software enables digital workflows across engineering disciplines, across distributed project teams, and from offices to the field.

We believe that our offerings, in particular our infrastructure digital twin solutions, empower the achievement of sustainable development goals by helping our users – infrastructure professionals – realize outcomes that are more sustainable and resilient.

Results of Operations

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Revenues:	Revenues:					Revenues:				
Subscriptions	Subscriptions	\$ 259,243	\$ 232,191	\$ 537,088	\$ 473,424	Subscriptions	\$ 270,751	\$ 235,307	\$ 807,839	\$ 708,731
Perpetual licenses	Perpetual licenses	11,718	11,548	21,265	21,753	Perpetual licenses	11,887	9,460	33,152	31,213
Subscriptions and licenses	Subscriptions and licenses	270,961	243,739	558,353	495,177	Subscriptions and licenses	282,638	244,767	840,991	739,944
Services	Services	25,788	24,546	52,807	48,625	Services	23,974	23,565	76,781	72,190
Total revenues	Total revenues	296,749	268,285	611,160	543,802	Total revenues	306,612	268,332	917,772	812,134
Cost of revenues:	Cost of revenues:					Cost of revenues:				
Cost of subscriptions and licenses	Cost of subscriptions and licenses	41,156	36,806	82,087	70,533	Cost of subscriptions and licenses	42,088	37,371	124,175	107,904
Cost of services	Cost of services	25,270	22,888	51,523	44,946	Cost of services	22,588	21,812	74,111	66,758
Total cost of revenues	Total cost of revenues	66,426	59,694	133,610	115,479	Total cost of revenues	64,676	59,183	198,286	174,662
Gross profit	Gross profit	230,323	208,591	477,550	428,323	Gross profit	241,936	209,149	719,486	637,472
Operating expense (income):	Operating expense (income):					Operating expense (income):				
Research and development	Research and development	70,117	64,866	137,917	126,139	Research and development	65,465	63,827	203,382	189,966
Selling and marketing	Selling and marketing	54,364	49,617	106,505	95,562	Selling and marketing	53,757	46,114	160,262	141,676
General and administrative	General and administrative	39,258	40,033	86,065	91,187	General and administrative	42,678	37,794	128,743	128,981
Deferred compensation plan	Deferred compensation plan	3,777	(12,159)	7,923	(17,297)	Deferred compensation plan	(3,160)	(4,576)	4,763	(21,873)
Amortization of purchased intangibles	Amortization of purchased intangibles	9,502	10,517	20,050	20,423	Amortization of purchased intangibles	9,517	10,446	29,567	30,869
Total operating expenses	Total operating expenses	177,018	152,874	358,460	316,014	Total operating expenses	168,257	153,605	526,717	469,619
Income from operations	Income from operations	53,305	55,717	119,090	112,309	Income from operations	73,679	55,544	192,769	167,853
Interest expense, net	Interest expense, net	(9,484)	(7,639)	(20,576)	(14,387)	Interest expense, net	(10,047)	(9,134)	(30,623)	(23,521)
Other income, net	Other income, net	965	3,514	1,254	13,861	Other income, net	5,953	932	7,207	14,793
Income before income taxes	Income before income taxes	44,786	51,592	99,768	111,783	Income before income taxes	69,585	47,342	169,353	159,125

Benefit (provision) for income taxes		3,899	4,674	(5,593)	1,443		
Provision for income taxes						Provision for income taxes	(16,514) (9,664) (22,107) (8,221)
Loss from investments accounted for using the equity method, net of tax	Loss from investments accounted for using the equity method, net of tax	—	(593)	—	(1,165)	Loss from investments accounted for using the equity method, net of tax	(44) (681) (44) (1,846)
Net income	Net income	\$ 48,685	\$ 55,673	\$ 94,175	\$ 112,061	Net income	\$ 53,027 \$ 36,997 \$ 147,202 \$ 149,058
Per share information:	Per share information:					Per share information:	
Net income per share, basic	Net income per share, basic	\$ 0.16	\$ 0.18	\$ 0.30	\$ 0.36	Net income per share, basic	\$ 0.17 \$ 0.12 \$ 0.47 \$ 0.48
Net income per share, diluted	Net income per share, diluted	\$ 0.15	\$ 0.17	\$ 0.29	\$ 0.35	Net income per share, diluted	\$ 0.16 \$ 0.12 \$ 0.46 \$ 0.46
Weighted average shares, basic	Weighted average shares, basic	311,914,602	308,244,778	311,366,371	308,512,924	Weighted average shares, basic	313,069,132 310,116,104 311,915,808 308,959,801
Weighted average shares, diluted	Weighted average shares, diluted	332,352,725	332,275,216	331,831,973	332,208,435	Weighted average shares, diluted	332,825,186 325,170,383 332,144,893 332,077,834

Comparison of the Three and Six Nine Months Ended June 30, 2023 September 30, 2023 and 2022

Revenues

		Comparison						Comparison				
		Three Months Ended		Constant				Three Months Ended		Constant		
		June 30,		Currency				September 30,		Currency		
		2023	2022	Amount	%	%(1)		2023	2022	Amount	%	%(1)
Subscriptions	Subscriptions	\$ 259,243	\$ 232,191	\$ 27,052	11.7 %	10.9 %	Subscriptions	\$ 270,751	\$ 235,307	\$ 35,444	15.1 %	11.7 %
Perpetual licenses	Perpetual licenses	11,718	11,548	170	1.5 %	1.4 %	Perpetual licenses	11,887	9,460	2,427	25.7 %	23.1 %
Subscriptions and licenses	Subscriptions and licenses	270,961	243,739	27,222	11.2 %	10.5 %	Subscriptions and licenses	282,638	244,767	37,871	15.5 %	12.1 %
Services	Services	25,788	24,546	1,242	5.1 %	6.1 %	Services	23,974	23,565	409	1.7 %	(0.5 %)
Total revenues	Total revenues	\$ 296,749	\$ 268,285	\$ 28,464	10.6 %	10.1 %	Total revenues	\$ 306,612	\$ 268,332	\$ 38,280	14.3 %	11.0 %
		Comparison						Comparison				
		Six Months Ended		Constant				Nine Months Ended		Constant		
		June 30,		Currency				September 30,		Currency		
		2023	2022	Amount	%	%(1)		2023	2022	Amount	%	%(1)
Subscriptions	Subscriptions	\$ 537,088	\$ 473,424	\$ 63,664	13.4 %	14.5 %	Subscriptions	\$ 807,839	\$ 708,731	\$ 99,108	14.0 %	13.6 %
Perpetual licenses	Perpetual licenses	21,265	21,753	(488)	(2.2 %)	(0.7 %)	Perpetual licenses	33,152	31,213	1,939	6.2 %	6.5 %
Subscriptions and licenses	Subscriptions and licenses	558,353	495,177	63,176	12.8 %	13.8 %	Subscriptions and licenses	840,991	739,944	101,047	13.7 %	13.3 %
Services	Services	52,807	48,625	4,182	8.6 %	11.6 %	Services	76,781	72,190	4,591	6.4 %	7.7 %
Total revenues	Total revenues	\$ 611,160	\$ 543,802	\$ 67,358	12.4 %	13.6 %	Total revenues	\$ 917,772	\$ 812,134	\$ 105,638	13.0 %	12.8 %

(1) Constant currency is a non-GAAP financial measure. Refer to the "Non-GAAP Financial Measures" section for additional information, including our definition and our use of constant currency.

The increase in total revenues for the three and nine months ended June 30, 2023 September 30, 2023 was primarily driven by increases in subscriptions revenues, and to a lesser extent, services and perpetual licenses revenues. The increase in total revenues for the six months ended June 30, 2023 was primarily driven by increases in subscriptions

revenues, and to a lesser extent, services revenues. Partially offsetting these increases were decreases in perpetual licenses revenues for the six months ended June 30, 2023.

Subscriptions. For the three months ended June 30, 2023 September 30, 2023, the increase in subscriptions revenues was driven by improvements in our business performance of approximately \$27,052 \$35,444 (\$25,364 27,438 on a constant currency basis). Our business performance excludes the impact of our platform acquisitions and includes the impact from programmatic acquisitions, which generally are immaterial, individually and in the aggregate.

For the six nine months ended June 30, 2023 September 30, 2023, the increase in subscriptions revenues was primarily driven by improvements in our business performance of approximately \$59,363 \$94,807 (\$64,351 91,790 on a constant currency basis) and the impact from our platform acquisition of approximately \$4,301 (\$4,330 on a constant currency basis). The platform acquisition impact relates to our acquisition of PLS and is inclusive of PLS' organic performance.

For the three and six nine months ended June 30, 2023 September 30, 2023, the improvements in business performance were primarily driven by expansion from accounts with revenues in the prior period ("existing accounts"), and growth of 3% attributable to new accounts, most notably smaller- and medium-sized accounts. Improvements in business performance for the three and six nine months ended June 30, 2023 September 30, 2023 were led by our civil and structural engineering applications, geoprofessional applications, and our Enterprise Systems for project delivery.

Perpetual licenses. For the three and nine months ended June 30, 2023 September 30, 2023, the increase in perpetual licenses revenues was driven by improvements in business performance of approximately \$170 \$2,427 (\$163 2,184 on a constant currency basis). For the six months ended June 30, 2023, the decrease in perpetual licenses revenues was driven by a decline in business performance of approximately \$488 and \$1,939 (\$158 2,026 on a constant currency basis), respectively.

For the three and nine months ended September 30, 2023, the improvements in our business performance were primarily driven by growth in new accounts.

Services. For the three and six months ended June 30, 2023 September 30, 2023, services revenues increased by approximately \$409 (decreased by approximately \$107 on a constant currency basis) due to business performance.

For the nine months ended September 30, 2023, the increase in services revenues was driven by improvements in our business performance of approximately \$1,242 \$4,591 (\$1,486 5,551 on a constant currency basis) and \$4,182 (\$5,659 on a constant currency basis), respectively.

For the three and six nine months ended June 30, 2023 September 30, 2023, the improvements in business performance were primarily driven by contributions from Cohesive digital integrator services of approximately \$1,597 \$1,168 (\$1,829 852 on a constant currency basis) and \$5,179 \$6,347 (\$6,445 7,297 on a constant currency basis), respectively.

Revenues by Geographic Region

Revenue from external customers is attributed to individual countries based upon the location of the customer. Revenues by geographic region are as follows:

		Comparison						Comparison				
		Three Months Ended		Constant				Three Months Ended		Constant		
		June 30,		Currency				September 30,		Currency		
		2023	2022	Amount	%	%(1)		2023	2022	Amount	%	%(1)
Americas	Americas	\$ 158,836	\$ 144,359	\$ 14,477	10.0 %	9.9 %	Americas	\$ 162,367	\$ 141,599	\$ 20,768	14.7 %	13.9 %
EMEA	EMEA	83,444	74,800	8,644	11.6 %	9.7 %	EMEA	86,956	75,416	11,540	15.3 %	7.3 %
APAC	APAC	54,469	49,126	5,343	10.9 %	11.2 %	APAC	57,289	51,317	5,972	11.6 %	8.4 %
Total revenues	Total revenues	\$ 296,749	\$ 268,285	\$ 28,464	10.6 %	10.1 %	Total revenues	\$ 306,612	\$ 268,332	\$ 38,280	14.3 %	11.0 %
		Comparison						Comparison				
		Six Months Ended		Constant				Nine Months Ended		Constant		
		June 30,		Currency				September 30,		Currency		
		2023	2022	Amount	%	%(1)		2023	2022	Amount	%	%(1)
Americas	Americas	\$ 327,181	\$ 298,619	\$ 28,562	9.6 %	9.7 %	Americas	\$ 489,548	\$ 440,218	\$ 49,330	11.2 %	11.0 %
EMEA	EMEA	176,276	152,280	23,996	15.8 %	18.1 %	EMEA	263,232	227,696	35,536	15.6 %	14.6 %
APAC	APAC	107,703	92,903	14,800	15.9 %	19.0 %	APAC	164,992	144,220	20,772	14.4 %	15.2 %
Total revenues	Total revenues	\$ 611,160	\$ 543,802	\$ 67,358	12.4 %	13.6 %	Total revenues	\$ 917,772	\$ 812,134	\$ 105,638	13.0 %	12.8 %

(1) Constant currency is a non-GAAP financial measure. Refer to the "Non-GAAP Financial Measures" section for additional information, including our definition and our use of constant currency.

Americas. For the three months ended June 30, 2023 September 30, 2023, the increase in revenues from the Americas was driven by improvements in our business performance of approximately \$14,477 \$20,768 (\$14,224 19,690 on a constant currency basis).

For the **six** **nine** months ended **June 30, 2023** **September 30, 2023**, the increase in revenues from the Americas was primarily driven by improvements in our business performance of approximately **\$24,872** **\$45,640** (**\$25,174** **44,865** on a constant currency basis) and the impact from our platform acquisition of approximately \$3,690 (\$3,697 on a constant currency basis).

The improvements in business performance for the three and **six** **nine** months ended **June 30, 2023** **September 30, 2023** were primarily due to expansion of our subscriptions revenues from existing accounts in the U.S.

EMEA. For the three and **six** **nine** months ended **June 30, 2023** **September 30, 2023**, the increase in revenues from EMEA was primarily driven by improvements in our business performance of approximately **\$8,644** **\$11,540** (**\$7,270** **5,529** on a constant currency basis) and **\$23,547** **\$35,087** (**\$27,164** **32,694** on a constant currency basis), respectively.

The improvements in business performance for the three and **nine** months ended **June 30, 2023** were primarily due to expansion of our subscriptions revenues from existing accounts in Central Europe and the Middle East. Partially offsetting these increases were reductions in Russia due to exiting our operations beginning in the second quarter of 2022.

The improvements in business performance for the six months ended **June 30, 2023** **September 30, 2023** were primarily due to expansion of our subscriptions revenues from existing accounts in the U.K., the Middle East, and to a lesser extent South Africa, partially offset by reductions in Russia due to exiting our operations beginning in the second quarter of 2022.

APAC. For the three and **six** **nine** months ended **June 30, 2023** **September 30, 2023**, the increase in revenues from APAC was primarily driven by improvements in our business performance of approximately **\$5,343** **\$5,972** (**\$5,519** **4,294** on a constant currency basis) and **\$14,638** **\$20,610** (**\$17,514** **21,809** on a constant currency basis), respectively.

The improvements in business performance for the three and **nine** months ended **June 30, 2023** were primarily due to expansion of our subscriptions revenues from existing accounts in India and Australia, partially offset by declines in China.

The improvements in business performance for the six months ended **June 30, 2023** **September 30, 2023** were primarily due to expansion of our subscriptions revenues from existing accounts in India, Australia, and Southeast Asia.

Revenues in China for the three and **six** **nine** months ended **June 30, 2023** decreased **September 30, 2023** increased as compared to the same periods in the prior **year**. **year**, primarily due to expansion of our perpetual licenses revenues. The future results in China remain uncertain as a result of continued geopolitical challenges, the obstacles there to cloud-deployed software, and the financial timing impact of the preference there for license sales, rather than subscriptions, of locally-developed solutions based on our platforms.

Cost of Revenues

		Comparison						Comparison				
		Three Months Ended		Constant				Three Months Ended		Constant		
		June 30,		Currency				September 30,		Currency		
		2023	2022	Amount	%	% ⁽¹⁾		2023	2022	Amount	%	% ⁽¹⁾
Cost of subscriptions and licenses	Cost of subscriptions and licenses	\$ 41,156	\$ 36,806	\$ 4,350	11.8 %	12.3 %	Cost of subscriptions and licenses	\$ 42,088	\$ 37,371	\$ 4,717	12.6 %	10.7 %
Cost of services	Cost of services	25,270	22,888	2,382	10.4 %	12.3 %	Cost of services	22,588	21,812	776	3.6 %	0.9 %
Total cost of revenues	Total cost of revenues	\$ 66,426	\$ 59,694	\$ 6,732	11.3 %	12.3 %	Total cost of revenues	\$ 64,676	\$ 59,183	\$ 5,493	9.3 %	7.1 %
		Comparison						Comparison				
		Six Months Ended		Constant				Nine Months Ended		Constant		
		June 30,		Currency				September 30,		Currency		
		2023	2022	Amount	%	% ⁽¹⁾		2023	2022	Amount	%	% ⁽¹⁾
Cost of subscriptions and licenses	Cost of subscriptions and licenses	\$ 82,087	\$ 70,533	\$ 11,554	16.4 %	18.2 %	Cost of subscriptions and licenses	\$ 124,175	\$ 107,904	\$ 16,271	15.1 %	15.6 %
Cost of services	Cost of services	51,523	44,946	6,577	14.6 %	18.9 %	Cost of services	74,111	66,758	7,353	11.0 %	13.0 %
Total cost of revenues	Total cost of revenues	\$ 133,610	\$ 115,479	\$ 18,131	15.7 %	18.5 %	Total cost of revenues	\$ 198,286	\$ 174,662	\$ 23,624	13.5 %	14.6 %

(1) Constant currency is a non-GAAP financial measure. Refer to the "Non-GAAP Financial Measures" section for additional information, including our definition and our use of constant currency.

Cost of subscriptions and licenses. For the three and six months ended June 30, 2023 September 30, 2023, on a constant currency basis, cost of subscriptions and licenses increased primarily due to an increase in headcount-related costs of approximately \$3,737 and \$8,232, respectively, \$2,871, mainly due to increases in headcount and annual compensation costs. Cost costs, and an increase in channel partner compensation of approximately \$767.

For the nine months ended September 30, 2023, on a constant currency basis, cost of subscriptions and licenses also increased primarily due to an increase in headcount-related costs of approximately \$11,103, mainly due to increases in headcount and annual compensation costs, an increase in cloud-related costs of approximately \$596 \$2,987, and \$2,740 for the three and six months ended June 30, 2023, respectively, an increase in channel partner compensation of approximately \$1,963.

Cost of services. For the three months ended June 30, 2023 September 30, 2023, on a constant currency basis, cost of services increased primarily due to an increase in headcount-related costs of approximately \$2,870, \$484, mainly due to third-party personnel costs, increases in headcount, partially offset by lower acquisition-related retention incentives.

For the six nine months ended June 30, 2023 September 30, 2023, on a constant currency basis, cost of services increased primarily due to an increase in headcount-related costs of approximately \$8,306, \$8,790, mainly due to third-party personnel costs, cost, and to a lesser extent, increases in headcount, headcount, partially offset by lower acquisition-related retention incentives.

Operating Expense (Income)

		Comparison							Comparison					
		Three Months Ended		Constant					Three Months Ended		Constant			
		June 30,		Currency					September 30,		Currency			
		2023	2022	Amount	%	% ⁽¹⁾	2023		2022	Amount	%	% ⁽¹⁾		
Research and development	Research and development	\$ 70,117	\$ 64,866	\$ 5,251	8.1 %	10.0 %	Research and development	\$ 65,465	\$ 63,827	\$ 1,638	2.6 %	1.7 %		
Selling and marketing	Selling and marketing	54,364	49,617	4,747	9.6 %	10.7 %	Selling and marketing	53,757	46,114	7,643	16.6 %	15.0 %		
General and administrative	General and administrative	39,258	40,033	(775)	(1.9 %)	(1.5 %)	General and administrative	42,678	37,794	4,884	12.9 %	11.3 %		
Deferred compensation plan	Deferred compensation plan	3,777	(12,159)	15,936	NM	NM	Deferred compensation plan	(3,160)	(4,576)	1,416	(30.9 %)	NM		
Amortization of purchased intangibles	Amortization of purchased intangibles	9,502	10,517	(1,015)	(9.7 %)	(9.4 %)	Amortization of purchased intangibles	9,517	10,446	(929)	(8.9 %)	(9.7 %)		
Total operating expenses	Total operating expenses	\$ 177,018	\$ 152,874	\$ 24,144	15.8 %	17.1 %	Total operating expenses	\$ 168,257	\$ 153,605	\$ 14,652	9.5 %	8.3 %		
		Comparison							Comparison					
		Six Months Ended		Constant					Nine Months Ended		Constant			
		June 30,		Currency					September 30,		Currency			
		2023	2022	Amount	%	% ⁽¹⁾	2023		2022	Amount	%	% ⁽¹⁾		
Research and development	Research and development	\$ 137,917	\$ 126,139	\$ 11,778	9.3 %	12.4 %	Research and development	\$ 203,382	\$ 189,966	\$ 13,416	7.1 %	8.8 %		
Selling and marketing	Selling and marketing	106,505	95,562	10,943	11.5 %	13.9 %	Selling and marketing	160,262	141,676	18,586	13.1 %	14.3 %		
General and administrative	General and administrative	86,065	91,187	(5,122)	(5.6 %)	(4.4 %)	General and administrative	128,743	128,981	(238)	(0.2 %)	0.2 %		
Deferred compensation plan	Deferred compensation plan	7,923	(17,297)	25,220	NM	NM	Deferred compensation plan	4,763	(21,873)	26,636	NM	NM		
Amortization of purchased intangibles	Amortization of purchased intangibles	20,050	20,423	(373)	(1.8 %)	(0.7 %)	Amortization of purchased intangibles	29,567	30,869	(1,302)	(4.2 %)	(3.7 %)		
Total operating expenses	Total operating expenses	\$ 358,460	\$ 316,014	\$ 42,446	13.4 %	15.8 %	Total operating expenses	\$ 526,717	\$ 469,619	\$ 57,098	12.2 %	13.3 %		

Percentage changes that are considered not meaningful are denoted with NM.

(1) Constant currency is a non-GAAP financial measure. Refer to the "Non-GAAP Financial Measures" section for additional information, including our definition and our use of constant currency.

Research and development. For the three and six nine months ended June 30, 2023 September 30, 2023, on a constant currency basis, research and development expenses increased primarily due to an increase in headcount-related costs of approximately \$6,666 \$1,358 and \$15,294, \$16,652, respectively, mainly due to increases in headcount and annual compensation costs. costs and headcount, partially offset by a decrease in stock-based compensation expense.

Selling and marketing. For the three and nine months ended June 30, 2023 September 30, 2023, on a constant currency basis, selling and marketing expenses increased primarily due to an increase in headcount-related costs of approximately \$5,481, \$6,094 and \$18,716, respectively, mainly due to increases in headcount and annual compensation costs, and to a lesser extent, an increase in variable stock-based compensation costs. The expense.

General and administrative. For the three months ended June 30, 2022 included \$1,123 of asset impairments and \$826 of termination benefits as a result of our decision to wind down business and exit the Russian market beginning in the second quarter of 2022.

For the six months ended June 30, 2023 September 30, 2023, on a constant currency basis, selling general and marketing administrative expenses increased primarily due to an increase in headcount-related costs of approximately \$12,622, \$2,009, mainly due to increases in annual compensation costs and headcount, and to a lesser extent, an increase increases in stock-based compensation expense, variable compensation third-party personnel costs, and travel-related costs. The six higher acquisition expenses of approximately \$931.

For the nine months ended June 30, 2022 included \$1,123 of asset impairments and \$826 of termination benefits as a result of our decision to wind down business and exit the Russian market beginning in the second quarter of 2022.

General and administrative. For the three months ended June 30, 2023 September 30, 2023, on a constant currency basis, general and administrative expenses decreased increased primarily due to an increase in headcount-related costs of approximately \$13,685, mainly due to increases in headcount and annual compensation costs. Partially offsetting these increases were lower non-income related taxes of approximately \$3,429. The three months ended June 30, 2022 included \$1,085 of asset impairments as a result of our decision to wind down business \$5,328 and exit the Russian market beginning in the second quarter of 2022. Partially offsetting these decreases were increases in headcount and annual compensation costs of approximately \$4,218.

For the six months ended June 30, 2023, on a constant currency basis, general and administrative expenses decreased primarily due to lower acquisition expenses of approximately \$5,851 (acquisition expenses were \$5,298 for the six months ended June 30, 2023 compared to \$11,251 for the six months ended June 30, 2022), lower non-income related taxes of approximately \$5,066, and a decrease in facility-related costs of approximately \$1,631, \$4,920. Costs resulting from our decision to wind down business and exit the Russian market beginning in the second quarter of 2022 were approximately \$3,050 \$2,758 lower in the current year period. Partially offsetting these decreases were increases in headcount-related costs of approximately \$11,677, mainly due to increases in headcount and annual compensation costs, and to a lesser extent, an increase in stock-based compensation expense.

Deferred compensation plan. For the three and nine months ended June 30, 2023 September 30, 2023 and 2022, deferred compensation plan (income) expense was \$3,777 as compared to deferred compensation plan income of \$12,159 for the three months ended June 30, 2022. For the six months ended June 30, 2023, deferred compensation plan expense was \$7,923 as compared to deferred compensation plan income of \$17,297 for the six months ended June 30, 2022. These amounts were attributable to the marked to market impact on deferred compensation plan liability balances period over period.

Amortization of purchased intangibles. For the three and six nine months ended June 30, 2023 September 30, 2023, on a constant currency basis, amortization of purchased intangibles decreased primarily due to previously acquired intangible assets that continue to become fully amortized and lower acquisition activity as compared to the prior year.

Interest Expense, Net

		Three Months Ended				Comparison			
		June 30,						September 30,	
		2023	2022	Amount	%	2023	2022	Amount	%
Interest expense	Interest expense	\$ (9,994)	\$ (7,721)	\$ (2,273)	29.4 %	Interest expense	\$ (10,548)	\$ (9,243)	\$ (1,305) 14.1 %
Interest income	Interest income	510	82	428	NM	Interest income	501	109	392 NM
Interest expense, net	Interest expense, net	\$ (9,484)	\$ (7,639)	\$ (1,845)	24.2 %	Interest expense, net	\$ (10,047)	\$ (9,134)	\$ (913) 10.0 %
		Six Months Ended				Comparison			
		June 30,						September 30,	
		2023	2022	Amount	%	2023	2022	Amount	%
Interest expense	Interest expense	\$ (21,315)	\$ (14,551)	\$ (6,764)	46.5 %	Interest expense	\$ (31,863)	\$ (23,794)	\$ (8,069) 33.9 %

Interest income	Interest income	739	164	575	NM	Interest income	1,240	273	967	NM
Interest expense, net	Interest expense, net	\$ (20,576)	\$ (14,387)	\$ (6,189)	43.0 %	Interest expense, net	\$ (30,623)	\$ (23,521)	\$ (7,102)	30.2 %

Percentage changes that are considered not meaningful are denoted with NM.

For the three and six nine months ended June 30, 2023 September 30, 2023, interest expense, net increased primarily due to a higher weighted average interest rate on borrowings under the revolving loan facility and on the Term Loan, partially offset by lower weighted average debt outstanding.

Other Income, Net

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Gain (loss) from:	Gain (loss) from:					Gain (loss) from:				
Change in fair value of interest rate swap	Change in fair value of interest rate swap	\$ 3,826	\$ 7,406	\$ (663)	\$ 19,490	Change in fair value of interest rate swap	\$ 4,765	\$ 9,828	\$ 4,102	\$ 29,318
Foreign exchange (1)	Foreign exchange (1)	2,104	(4,717)	3,558	(7,788)	Foreign exchange (1)	(3,154)	(11,027)	404	(18,815)
Sale of aircraft	Sale of aircraft	—	—	—	2,029	Sale of aircraft	—	—	—	2,029
Change in fair value of acquisition contingent consideration	Change in fair value of acquisition contingent consideration	—	—	—	(500)	Change in fair value of acquisition contingent consideration	—	506	—	6
Receipts (payments) related to interest rate swap		2,164	17	4,084	(277)					
Other (expense) income, net (2)		(7,129)	808	(5,725)	907					
Receipts related to interest rate swap						Receipts related to interest rate swap	2,336	752	6,420	475
Other income (expense), net (2)						Other income (expense), net (2)	2,006	873	(3,719)	1,780
Total other income, net	Total other income, net	\$ 965	\$ 3,514	\$ 1,254	\$ 13,861	Total other income, net	\$ 5,953	\$ 932	\$ 7,207	\$ 14,793

- (1) Foreign exchange (loss) gain (loss) is primarily attributable to foreign currency translation derived mainly from U.S. dollar denominated cash and cash equivalents, account receivables, customer deposits, and intercompany balances held by foreign subsidiaries. Intercompany finance transactions primarily denominated in U.S. dollars resulted in unrealized foreign exchange (losses) gains (losses) of \$1,397 \$(1,574) and \$(5,799) \$(5,730) for the three months ended June 30, 2023 September 30, 2023 and 2022, respectively, and \$2,258 \$684 and \$(6,563) \$(12,293) for the six nine months ended June 30, 2023 September 30, 2023 and 2022, respectively.
- (2) Other income (expense) income, net includes investment impairment charges of \$(7,318) for the three and six nine months ended June 30, 2023 September 30, 2023, partially offset by gains on investments of \$2,360 recorded during the three months ended September 30, 2023.

(Benefit) Provision for Income Taxes

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Income before income taxes	Income before income taxes	\$ 44,786	\$ 51,592	\$ 99,768	\$ 111,783	Income before income taxes	\$ 69,585	\$ 47,342	\$ 169,353	\$ 159,125
(Benefit) provision for income taxes		\$ (3,899)	\$ (4,674)	\$ 5,593	\$ (1,443)					

Provision for income taxes								Provision for income taxes							
								\$	16,514	\$	9,664	\$	22,107	\$	8,221
Effective tax rate	Effective tax rate	(8.7) %	(9.1) %	5.6 %	(1.3) %	Effective tax rate	23.7 %				20.4 %		13.1 %		5.2 %

For the three months ended June 30, 2023, the effective tax rate was higher compared to the prior year period primarily due to the increase in the forecasted effective tax rate impact of the GILTI inclusion due to the mandatory capitalization of research and development expenses for U.S. tax purposes, partially offset by an increase in discrete tax benefits recognized in the current year period. For the three months ended June 30, 2023 and 2022, we recorded discrete tax benefits of \$20,394 and \$19,024, respectively, primarily associated with windfall tax benefits from stock-based compensation, net of the impact from officer compensation limitation provisions.

For the six months ended June 30, 2023, the effective tax rate was higher compared to the prior year period primarily due to the decrease in discrete tax benefits recognized in the current year period and the increase in the forecasted effective tax rate impact of the GILTI inclusion due to the mandatory capitalization of research and development expenses for U.S. tax purposes. For the six months ended June 30, 2023 and 2022, we recorded discrete tax benefits of \$27,467 and \$31,752, respectively, primarily associated with windfall tax benefits from stock-based compensation, net of the impact from officer compensation limitation provisions.

For the nine months ended September 30, 2023, the effective tax rate was higher compared to the prior year period primarily due to an increase in the forecasted effective tax rate impact of the GILTI inclusion due to the mandatory capitalization of research and development expenses for U.S. tax purposes and a decrease in discrete tax benefits recognized in the current year period. For the nine months ended September 30, 2023 and 2022, we recorded discrete tax benefits of \$31,895 and \$36,032, respectively, primarily associated with windfall tax benefits from stock-based compensation, net of the impact from officer compensation limitation provisions.

Key Business Metrics

In addition to our results of operations discussed above, we believe the following presentation of key business metrics provides additional useful information to investors regarding our results of operations. To the extent material, we disclose below the additional purposes, if any, for which our management uses these key business metrics. Our key business metrics may vary significantly from period to period for reasons unrelated to our operating performance and may differ from similarly titled measures presented by other companies.

	June 30,				September 30,		
		2023	2022		2023	2022	
ARR	ARR	\$ 1,105,914	\$ 971,876	ARR	\$ 1,124,774	\$ 983,656	
Last twelve-months recurring revenues	Last twelve-months recurring revenues	\$ 1,041,941	\$ 930,798	Last twelve-months recurring revenues	\$ 1,076,434	\$ 950,367	
Twelve-months ended constant currency ⁽¹⁾ :	Twelve-months ended constant currency ⁽¹⁾ :			Twelve-months ended constant currency ⁽¹⁾ :			
ARR growth rate	ARR growth rate	13 %	14 %	ARR growth rate	12.5 %	14 %	
Account retention rate	Account retention rate	98 %	98 %	Account retention rate	97 %	99 %	
Recurring revenues dollar-based net retention rate	Recurring revenues dollar-based net retention rate	110 %	109 %	Recurring revenues dollar-based net retention rate	110 %	110 %	

(1) Constant currency is a non-GAAP financial measure. Refer to the "Non-GAAP Financial Measures" section for additional information, including our definition and our use of constant currency.

Recurring revenues

Recurring revenues are the basis for our other revenue-related key business metrics. We believe this measure is useful in evaluating our ability to consistently retain and grow our revenues within our existing accounts.

Recurring revenues are subscriptions revenues that recur monthly, quarterly, or annually with specific or automatic renewal clauses and professional services revenues in which the underlying contract is based on a fixed fee and contains automatic annual renewal provisions.

ARR

ARR is a key business metric that we believe is useful in evaluating the scale and growth of our business as well as to assist in the evaluation of underlying trends in our business. Furthermore, we believe ARR, considered in connection with our last twelve-month recurring revenues dollar-based net retention rate, is a leading indicator of revenue

growth.

ARR is defined as the sum of the annualized value of our portfolio of contracts that produce recurring revenues as of the last day of the reporting period, and the annualized value of the last three months of recognized revenues for our contractually recurring consumption-based software subscriptions with consumption measurement durations of less than one year, calculated using the spot foreign exchange rates. We believe that the last three months of recognized revenues, on an annualized basis, for our recurring software subscriptions with consumption measurement period durations of less than one year is a reasonable estimate of the annual revenues, given our consistently high retention rate and stability of usage under such subscriptions.

ARR resulting from the annualization of recurring contracts with consumption measurement durations of less than one year, as a percentage of total ARR, was 45% 46% and 40% 41% as of June 30, 2023 September 30, 2023 and 2022, respectively. Within our consumption-measured ARR, the continued transition to our E365 subscription offering has increased daily consumption-measured ARR, representing 88% 39% and 32% 33% of total ARR as of June 30, 2023 September 30, 2023 and 2022, respectively. For the six nine months ended June 30, 2022 September 30, 2022, ARR was reduced by \$11,190 due to our decision to exit the Russian market.

Constant currency ARR growth rate is the growth rate of ARR measured on a constant currency basis. During the twelve months ended September 30, 2022, our ARR growth rate was favorably impacted by 2.5% due to the ARR onboarding from our platform acquisition of PLS. We believe that ARR growth is an important metric indicating the scale and growth of our business.

Last twelve-month recurring revenues

Last twelve-month recurring revenues is a key business metric that we believe is useful in evaluating our ability to consistently retain and grow our recurring revenues. We believe that we will continue to experience favorable growth in recurring revenues primarily due to our strong account retention and recurring revenues dollar-based net retention rates, as well as the addition of new accounts with recurring revenues.

Last twelve-months recurring revenues is calculated as recurring revenues recognized over the preceding twelve-month period.

The last twelve-months recurring revenues for the periods ended June 30, 2023 September 30, 2023 compared to the last twelve-months of the comparative twelve-month period increased by \$111,143. \$126,067. This increase was primarily due to growth in ARR, which is primarily the result of growing our recurring revenues within our existing accounts as expressed in our recurring revenues dollar-based net retention rate, as well as additional recurring revenues resulting from new accounts and acquisitions, including the favorable impact from our platform acquisition of PLS. For the twelve months ended June 30, 2023 September 30, 2023 and 2022, 89% and 88%, respectively, of our revenues were recurring revenues.

Account retention rate

Account retention rate is a key business metric that we believe is useful in evaluating the long-term value of our account relationships and our ability to retain our account base. We believe that our consistent and high account retention rates illustrate our ability to retain and cultivate long-term relationships with our accounts.

Account retention rate for any given twelve-month period is calculated using the average currency exchange rates for the prior period, as follows: the prior period recurring revenues from all accounts with recurring revenues in the current and prior period, divided by total recurring revenues from all accounts during the prior period.

Our account retention rate as of September 30, 2023 was negatively impacted due to our decision to exit the Russian market by approximately 1%.

Recurring revenues dollar-based net retention rate

Recurring revenues dollar-based net retention rate is a key business metric that we believe is useful in evaluating our ability to consistently retain and grow our recurring revenues.

Recurring revenues dollar-based net retention rate is calculated, using the average exchange rates for the prior period, as follows: the recurring revenues for the current period, including any growth or reductions from existing accounts, but excluding recurring revenues from any new accounts added during the current period, divided by the total recurring revenues from all accounts during the prior period. A period is defined as any trailing twelve months. Related to our platform acquisitions, recurring revenues into new accounts will be captured as existing accounts starting with the second anniversary of the acquisition when such data conforms to the calculation methodology. This may cause variability in the comparison.

Given that recurring revenues represented 89% of our total revenues for the twelve months ended June 30, 2023 September 30, 2023, this metric helps explain our revenue performance, excluding the impact from acquisitions, as primarily growth into existing accounts.

Non-GAAP Financial Measures

In addition to our results determined in accordance with GAAP discussed above, we believe the following presentation of financial measures not in accordance with GAAP provides useful information to investors regarding our results of operations. To the extent material, we disclose below the additional purposes, if any, for which our management uses these non-GAAP financial measures and provide reconciliations between these non-GAAP financial measures and their most directly comparable GAAP financial measures. Non-GAAP financial information should be considered in addition to, not as a substitute for, or in isolation from, the financial information prepared in accordance with GAAP, including operating income, or other measures of performance. Our non-GAAP financial measures may vary significantly from period to period for reasons unrelated to our operating performance and may differ from similarly titled measures presented by other companies.

Adjusted OI w/SBC

Adjusted OI w/SBC is a non-GAAP financial measure and is used to measure the operational strength and performance of our business, as well as to assist in the evaluation of underlying trends in our business.

Adjusted OI w/SBC is our primary performance measure, which excludes certain expenses and charges, including the non-cash amortization expense resulting from the acquisition of intangible assets, as we believe these may not be indicative of the Company's core business operating results. We intentionally include stock-based compensation expense in this measure as we believe it better captures the economic costs of our business.

Management uses this non-GAAP financial measure to understand and compare operating results across accounting periods, for internal budgeting and forecasting purposes, to evaluate financial performance, and in our comparison of our financial results to those of other companies. It is also a significant performance measure in certain of our executive incentive compensation programs.

Adjusted OI w/SBC is defined as operating income adjusted for the following: amortization of purchased intangibles, expense (income) relating to deferred compensation plan liabilities, acquisition expenses, and realignment expenses (income), for the respective periods.

Adjusted operating income

Adjusted operating income is a non-GAAP financial measure that we believe is useful to investors in making comparisons to other companies, although this measure may not be directly comparable to similar measures used by other companies.

Adjusted operating income is defined as operating income adjusted for the following: amortization of purchased intangibles, expense (income) relating to deferred compensation plan liabilities, acquisition expenses, realignment expenses (income), and stock-based compensation expense, for the respective periods.

Reconciliation of operating income to Adjusted OI w/SBC and to Adjusted operating income:

		Three Months Ended		Six Months Ended			Three Months Ended		Nine Months Ended	
		June 30,		June 30,			September 30,		September 30,	
		2023	2022	2023	2022		2023	2022	2023	2022
Operating income	Operating income	\$ 53,305	\$ 55,717	\$ 119,090	\$ 112,309	Operating income	\$ 73,679	\$ 55,544	\$ 192,769	\$ 167,853
Amortization of purchased intangibles ⁽¹⁾	Amortization of purchased intangibles ⁽¹⁾	12,625	13,671	26,360	26,599	Amortization of purchased intangibles ⁽¹⁾	12,678	13,575	39,038	40,174
Deferred compensation plan ⁽²⁾	Deferred compensation plan ⁽²⁾	3,777	(12,159)	7,923	(17,297)	Deferred compensation plan ⁽²⁾	(3,160)	(4,576)	4,763	(21,873)
Acquisition expenses ⁽³⁾	Acquisition expenses ⁽³⁾	3,521	3,856	12,298	17,853	Acquisition expenses ⁽³⁾	2,980	3,203	15,278	21,056
Realignment expenses (income) ⁽⁴⁾	Realignment expenses (income) ⁽⁴⁾	29	3,194	(1,950)	3,194	Realignment expenses (income) ⁽⁴⁾	150	(971)	(1,800)	2,223
Adjusted OI w/SBC	Adjusted OI w/SBC	73,257	64,279	163,721	142,658	Adjusted OI w/SBC	86,327	66,775	250,048	209,433
Stock-based compensation expense ⁽⁵⁾	Stock-based compensation expense ⁽⁵⁾	17,670	17,395	36,868	32,348	Stock-based compensation expense ⁽⁵⁾	18,039	18,626	54,907	50,974
Adjusted operating income	Adjusted operating income	\$ 90,927	\$ 81,674	\$ 200,589	\$ 175,006	Adjusted operating income	\$ 104,366	\$ 85,401	\$ 304,955	\$ 260,407

Further explanation of certain of our adjustments in arriving at Adjusted OI w/SBC and Adjusted operating income are as follows:

- (1) *Amortization of purchased intangibles.* Amortization of purchased intangibles varies in amount and frequency and is significantly impacted by the timing and size of our acquisitions. Management finds it useful to exclude these non-cash charges from our operating expenses to assist in budgeting, planning, and forecasting future periods. The use of intangible assets contributed to our revenues earned during the periods presented and will also contribute to our revenues in future periods. Amortization of purchased intangible assets will recur in future periods.
- (2) *Deferred compensation plan.* We exclude *Deferred compensation plan* expense (income) when we evaluate our continuing operational performance because it is not reflective of our ongoing business and results of operation. We believe it is useful for investors to understand the effects of this item on our total operating expenses. Deferred compensation plan liabilities are marked to market at the end of each reporting period, with changes in the liabilities recorded as an expense (income) to *Deferred compensation plan* in the consolidated statements of operations.
- (3) *Acquisition expenses.* We incur expenses for professional services rendered in connection with business combinations, which are included in our U.S. GAAP presentation of general and administrative expense (See Note 4 to our consolidated financial statements included in Part I, Item 1 of this Quarterly Report on Form 10-Q). Also included in our acquisition expenses are retention incentives paid to executives of the acquired companies. We exclude these acquisition expenses when we evaluate our continuing operational performance as we would not have

otherwise incurred these expenses in the periods presented as part of our continuing operations. For the three and **six** **nine** months ended **June 30, 2022** **September 30, 2022**, **\$26** **\$350** and **\$9,799**, **\$10,149**, respectively, of our acquisition expenses related to our platform acquisition of PLS.

- (4) *Realignment expenses (income)*. We exclude these charges and subsequent adjustments to our estimates when we evaluate our continuing operational performance because they are not reflective of our ongoing business and results of operations. We believe it is useful for investors to understand the effects of these items on our total operating expenses. In the ordinary course of operating our business, we incur severance expenses that are not included in this adjustment. For the three and **six** **nine** months ended **June 30, 2022** **September 30, 2022**, *Realignment expenses (income)* were comprised of asset impairments and termination benefits as a result of our decision to wind down business and exit the Russian market beginning in the second quarter of 2022. For the three and **six** **nine** months ended **June 30, 2023** **September 30, 2023**, *Realignment expenses (income)* primarily relates to the continued wind down of our Russian entities.
- (5) *Stock-based compensation expense*. We exclude non-cash stock-based compensation expenses from certain of our non-GAAP measures because we believe this is useful to investors in making comparisons to other companies.

Constant currency

Constant currency and constant currency growth rates are non-GAAP financial measures that present our results of operations excluding the estimated effects of foreign currency exchange rate fluctuations. We have operations outside the U.S. that are conducted in local currencies. As a result, the comparability of the financial results reported in U.S. dollars is affected by changes in foreign currency exchange rates. We use constant currency and constant currency growth rates to evaluate the underlying performance of the business, and we believe it is helpful for investors to present operating results on a comparable basis period over period to evaluate its underlying performance.

In reporting period-over-period results, we calculate the effects of foreign currency fluctuations and constant currency information by translating current period results using prior period average foreign currency exchange rates.

Liquidity and Capital Resources

Our primary source of operating cash is from the sale of subscriptions, perpetual licenses, and services. Our primary use of cash is payment of our operating costs, which consist primarily of headcount-related costs. In addition to operating expenses, we also use cash to service our debt obligations, to pay quarterly dividends, to repurchase our Class B Common Stock and convertible debt, and for capital expenditures in support of our operations. We also use cash to fund our acquisitions of software assets and businesses, and other investment activities, including our *iTwin Ventures* initiative which makes seed, early, and growth stage investments in technology companies with promising and emerging opportunities for infrastructure digital twin solutions potentially relevant to our business.

We have the right to require that certain equity awardees receive gross or net quantities of shares of our Class B Common Stock. On a gross basis, this determination is most meaningfully for the issuance of shares Stock, including in connection with share issuances under our executive bonus plan incentive compensation Bonus Plan and distributions from the DCP, as awardees DCP. In the case of a gross issuance or distribution, an awardee is required to reimburse promptly reimburse to us the cash required for their his or her tax withholding amounts. On Conversely, under a net basis, issuance or distribution, shares are withheld in consideration of remitting withholding taxes on behalf of an equity awardees, awardee, thereby requiring us to remit cash for the tax withholdings. During the **six** **nine** months ended **June 30, 2023** **September 30, 2023**, and the first quarter of 2022, we allowed certain impacted equity awardees the option to receive net quantities of shares of our Class B Common Stock, whereas during Stock. During the second quarter of 2022, nine months ended September 30, 2022, we exercised our right permitted impacted awardees to require that certain equity awardees elect to receive gross net quantities of shares of our Class B Common Stock. Stock in the first quarter, but exercised our right to require that these awardees receive gross quantities of our Class B Common Stock during the second and third quarters. We will continue to evaluate whether share awards will be required to be received by awardees on a gross basis, or if net settlement may be elected by awardees.

We believe that existing domestic and international cash and cash equivalent balances, together with cash generated from operations, and liquidity under the Credit Facility, will be sufficient to meet our domestic and international working capital and capital expenditure requirements through the next twelve months. However, our future capital requirements may be materially different than those currently planned in our budgeting and forecasting activities and depend on many factors, including our strategy of regularly acquiring and integrating specialized infrastructure engineering software businesses, our rate of revenue growth, the timing and extent of spending on research and development, the expansion of our sales and marketing activities, the timing of new product introductions, market acceptance of our products, competitive factors, our discretionary payments of dividends or repurchases of our Class B Common Stock and convertible debt, currency fluctuations, and overall economic conditions, globally. To the extent that current and anticipated future sources of liquidity are insufficient to fund our future business activities and requirements, we may be required to seek additional equity or debt financing. The sale of additional equity would result in additional dilution to our stockholders, while the incurrence of additional debt financing, including convertible debt, would result in additional debt service obligations. Such debt instruments also could introduce new or modified covenants that might restrict our operations, operations and/or our ability to pay dividends, consummate acquisitions, or otherwise pursue our business strategies. We cannot provide assurance that we could obtain additional financing on favorable terms or at all.

Cash and cash equivalents

		June 30, 2023	December 31, 2022			September 30, 2023	December 31, 2022
Cash and cash equivalents held domestically	Cash and cash equivalents held domestically	\$ 2,887	\$ 3,883	Cash and cash equivalents held domestically	\$	2,679	\$ 3,883
Cash and cash equivalents held by foreign subsidiaries	Cash and cash equivalents held by foreign subsidiaries	79,829	67,801	Cash and cash equivalents held by foreign subsidiaries		64,284	67,801

Total cash and cash equivalents	Total cash and cash equivalents	\$ 82,716	\$ 71,684	Total cash and cash equivalents	\$ 66,963	\$ 71,684
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Long-term debt

		June 30, 2023	December 31, 2022		September 30, 2023	December 31, 2022
Current portion of long-term debt	Current portion of long-term debt	\$ 7,500	\$ 5,000	Current portion of long-term debt	\$ 8,750	\$ 5,000
Long-term debt	Long-term debt	1,629,483	1,775,696	Long-term debt	1,580,752	1,775,696
Total debt	Total debt	\$ 1,636,983	\$ 1,780,696	Total debt	\$ 1,589,502	\$ 1,780,696

Comparison of the Six Nine Months Ended June 30, 2023 September 30, 2023 and 2022

Our cash flow activities for the six nine months ended June 30, 2023 September 30, 2023 and 2022 consist of the following:

		Six Months Ended June 30, 2023	2022		Nine Months Ended September 30, 2023	2022
Net Cash Provided By (Used In):	Net Cash Provided By (Used In):			Net Cash Provided By (Used In):		
Operating activities	Operating activities	\$ 256,819	\$ 168,730	Operating activities	\$ 329,643	\$ 238,198
Investing activities	Investing activities	(29,752)	(723,967)	Investing activities	(51,245)	(740,445)
Financing activities	Financing activities	(215,976)	325,773	Financing activities	(280,019)	254,692

Operating activities

Net cash provided by operating activities was \$256,819 \$329,643 for the six nine months ended June 30, 2023 September 30, 2023. Compared to the same period in the prior year, net cash provided by operating activities was higher by \$88,089 \$91,445 due to an increase in net cash flows from the change in operating assets and liabilities of \$73,814 and \$51,510, a net increase in non-cash adjustments of \$32,161, \$41,791, partially offset by a decrease in net income of \$17,886, \$1,856. The increase in cash flows from the change in operating assets and liabilities was primarily due to a decrease in accounts receivable period over period due to the timing of collections from accounts an increase in deferred revenues period over period, higher accounts payable, and higher CSS deposits, and the overall timing of tax payments, deposits.

For the six nine months ended June 30, 2022 September 30, 2022, net cash provided by operating activities was \$168,730 \$238,198 resulting from net income of \$112,061, \$149,058, changes in operating assets and liabilities of \$29,255, \$24,892, and non-cash adjustments of \$27,414, \$64,248.

Investing activities

Net cash used in investing activities was \$29,752 \$51,245 for the six nine months ended June 30, 2023 September 30, 2023 due to \$11,253 \$23,110 in acquisition related payments, net of cash acquired, to complete two acquisitions, \$18,906 related to purchases of property and equipment and investment in capitalized software, \$10,299 and \$11,352 for purchases of investments.

For the nine months ended September 30, 2022, net cash used in investing activities was \$740,445 primarily due to \$719,539 in acquisition related payments, net of cash acquired, to complete one acquisition, and \$8,200 for purchases of investments.

For the six months ended June 30, 2022, net cash used in investing activities was \$723,967 primarily due to \$714,197 in acquisition related payments, net of cash acquired, to complete two four acquisitions.

Financing activities

Net cash used in financing activities was \$215,976 \$280,019 for the six nine months ended June 30, 2023 September 30, 2023 primarily due to the net paydown of the Credit Facility of \$146,852, \$195,902, payments for shares acquired of \$51,202, \$57,527, and payments of dividends of \$29,224, \$43,992.

For the six nine months ended June 30, 2022 September 30, 2022, net cash provided by financing activities was \$325,773 \$254,692 primarily due to an increase in net borrowings under the Credit Facility of \$391,374, \$340,912, partially offset by net payments for shares acquired of \$53,762, \$70,463, including shares repurchased under the Repurchase Program, and payments of dividends of \$17,163, \$25,828.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

There have been no material changes in our market risk exposure as described in Part II, Item 7A. Quantitative and Qualitative Disclosures About Market Risk in our 2022 Annual Report on Form 100K.

Item 4. Controls and Procedures

Evaluation of Effectiveness of Disclosure Controls and Procedures

Our management maintains 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") that are designed to provide reasonable assurance that information required to be disclosed in our reports filed or submitted under the Exchange Act is processed, recorded, summarized, and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer (our principal executive officer and principal financial officer, respectively), as appropriate, to allow for timely decisions regarding required disclosure.

We evaluated, under the supervision and with the participation of management, including our principal executive and principal financial officers, the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the period covered by this report. Based on this evaluation, our principal executive officer and principal financial officer concluded that, as of **June 30, 2023** **September 30, 2023**, our disclosure controls and procedures were effective at the reasonable assurance level.

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting will necessarily 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 Bentley Systems, Incorporated have been detected.

Changes in Internal Control over Financial Reporting

There was no change in our internal control over financial reporting identified in management's evaluation pursuant to Rules 13a or 15d of the Exchange Act that occurred during the quarter ended **June 30, 2023** **September 30, 2023** that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We are subject from time to time to various legal proceedings and claims which arise in the ordinary course of our business. Although the outcome of these and other claims cannot be predicted with certainty, we do not believe that the ultimate resolution of pending matters will have a material adverse effect on our financial condition, results of operations, or cash flows. We currently believe that we do not have any material litigation pending against us.

Item 1A. Risk Factors

There have been no material changes from the risk factors previously disclosed in Part I, Item 1A. Risk Factors in our 2022 Annual Report on Form 100K.

Item 2. Unregistered Sales of Equity Securities, and Use of Proceeds, and Issuer Purchases of Equity Securities

Recent Sales of Unregistered Equity Securities

From **April 1, 2023** **July 1, 2023** to **June 30, 2023** **September 30, 2023**, we issued **1,729,443** **218,438** shares of our Class B Common Stock pursuant to the vesting of restricted stock and RSUs.

From July 1, 2023 to September 30, 2023, we issued 63,267 shares of our Class B Common Stock in connection with distributions from our DCP.

None of the foregoing transactions involved any underwriters, underwriting discounts or commissions, or any public offering. Unless otherwise stated, the sales of the above securities were deemed to be exempt from registration under the Securities Act in reliance on Rule 701 promulgated under Section 3(b) of the Securities Act as transactions by an issuer pursuant to benefit plans and contracts relating to compensation as provided under Rule 701. All recipients had adequate access, through their relationships with us, to information about us. The issuance of these securities were made without any general solicitation or advertising.

Item 5. Other Information

Rule 10b5-1 Trading Plans

Effective June 6, 2023, David R. Shaman, Chief Legal Officer and Secretary, terminated a trading plan established pursuant to Rule 10b5-1 of the Exchange Act, which was intended to satisfy the affirmative defense conditions of Rule 10b5-1(c) and was adopted effective December 16, 2022, to sell an aggregate of 65,696 shares of our Class B common stock through December 31, 2023. Effective June 8, 2023, Mr. Shaman adopted a trading plan established pursuant to Rule 10b5-1 of the Exchange Act, which is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c), to sell an aggregate of 127,942 shares of our Class B common stock through March 31, 2024.

During the three months ended **June 30, 2023** **September 30, 2023**, **there were no other Company** **none of the Company's** directors or executive officers **who** adopted or terminated any contract, instruction or written plan for the purchase or sale of Company securities that was intended to satisfy the affirmative defense conditions of Rule 10b5-1(c) or any "non-Rule 10b5-1 trading arrangement."

Item 6. Exhibits

Exhibit Number	Description
10.1	Sixth Amendment, dated as of June 21, 2023, to the Amended and Restated Credit Agreement dated as of December 19, 2017, by and among Bentley Systems, Incorporated, PNC Bank National Association, as administrative agent, and the lenders party thereto (filed as Exhibit 10.1 to our Current Report on Form 8-K filed on June 23, 2023 (File No. 001-39548) and incorporated herein by reference)
31.1*	Certification of CEO pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities Exchange Act of 1934, as amended
31.2*	Certification of CFO pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities Exchange Act of 1934, as amended
32*	Certification of CEO and CFO Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.INS	Inline XBRL Instance Document—the instance document does not appear in the Interactive Data File as its XBRL tags are embedded within the Inline XBRL document
101.SCH	Inline XBRL Taxonomy Extension Schema
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase
104	Cover page formatted as Inline XBRL and contained in Exhibit 101
* Filed or furnished herewith. The certification attached as Exhibit 32.1 32 that accompanies this Quarterly Report on Form 10□Q is not deemed filed with the U.S. Securities and Exchange Commission and is not to be incorporated by reference into any filing of Bentley Systems, Incorporated under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Quarterly Report on Form 10□Q, irrespective of any general incorporation language contained in such filing.	

SIGNATURE

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 thereunto duly authorized.

Bentley Systems, Incorporated

Date: [August 8, 2023](#) [November 7, 2023](#)

By:

/s/ WERNER ANDRE

Werner Andre

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

[51](#) [52](#)

Exhibit 31.1

Management Certification Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Gregory S. Bentley, certify that:

1. I have reviewed this quarterly report on Form 10□Q of Bentley Systems, Incorporated (the “registrant”);
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

- a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
- a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 8, 2023 November 7, 2023

/s/ GREGORY S. BENTLEY

Gregory S. Bentley

Chief Executive Officer

(Principal Executive Officer)

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Exhibit 31.2

**Management Certification Pursuant to
Section 302 of the Sarbanes-Oxley Act of 2002**

I, Werner Andre, certify that:

1. I have reviewed this quarterly report on Form 100Q of Bentley Systems, Incorporated (the "registrant");
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

- d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
- a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
- b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 8, 2023 November 7, 2023

/s/ WERNER ANDRE

Werner Andre

Chief Financial Officer and Chief Accounting Officer

(Principal Financial Officer)

Exhibit 32

**Certification of CEO and CFO Pursuant to
18 U.S.C. Section 1350,
as Adopted Pursuant to
Section 906 of the Sarbanes-Oxley Act of 2002**

In connection with the Quarterly Report of Bentley Systems, Incorporated (the "Company") on Form 10-Q for the period ended June 30, 2023 September 30, 2023, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers of the Company certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: August 8, 2023 November 7, 2023

/s/ GREGORY S. BENTLEY

Gregory S. Bentley

Chief Executive Officer

(Principal Executive Officer)

/s/ WERNER ANDRE

Werner Andre

Chief Financial Officer and Chief Accounting Officer

(Principal Financial Officer)

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