

INDUSTRY INSIGHTS

# **Global Software Sector Update**

Winter 2020



# **Executive Summary**

Heading into 2020, software M&A activity and valuations will likely remain strong at least for the first half of 2020, but we anticipate rising uncertainty into the second half of the year with the U.S. presidential election in November 2020. Additionally, in 2020 other technology sectors may continue to soften given continued concerns around global economic uncertainty, supply chain disruptions caused by the Coronavirus and continued trade tensions between the U.S. and China.

2019 saw a bifurcation in the technology M&A market, with a record year for software M&A volumes and the second largest by value, following an outlier 2018 marked by a large number of multibillion-dollar deals. This positive and consistent trend is evident in the increase in multiples for software deals, where median revenue multiples reached 4.5x revenue in 2019, up from 4.4x revenue in 2018 and up from as low as 2.7x revenue in 2013.<sup>1</sup>

In terms of deal themes, 2019 marked another year of the "change of the guard", as the industry's long-time buyers are no longer acquiring at the same rate, both in terms of volume and value. In parallel, private equity's participation in technology M&A deals, and in particular software buyouts, has increased steadily over the past several years, and participation has consistently accounted for over 30% of all software buyouts, up from just 11% in 2010.<sup>1</sup> 2019 has also been highlighted by the "verticalization" of software continuing to gain prominence with investors, open source models becoming mainstream, and acquisition of developer-centric capabilities and platforms.



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# **Global Software M&A Continues Apace**

2019 Marked the Highest Deal Volume and Second Highest Deal Value

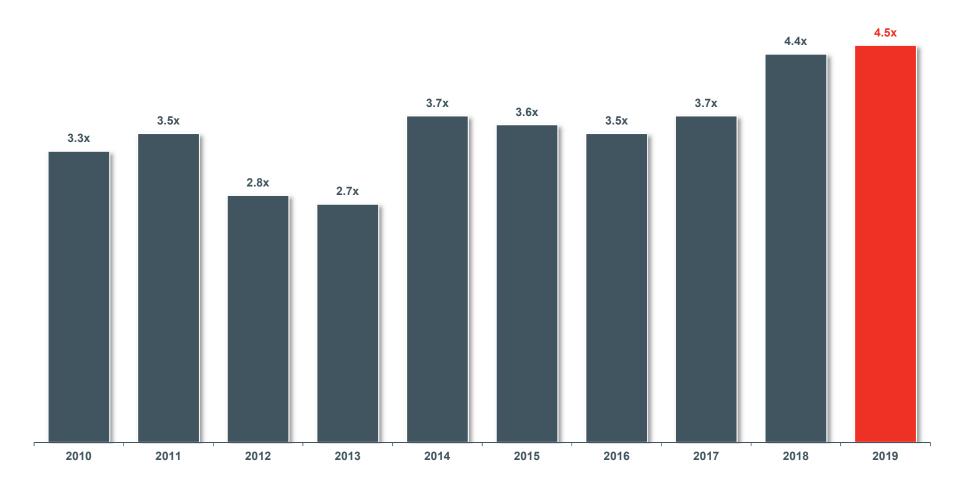




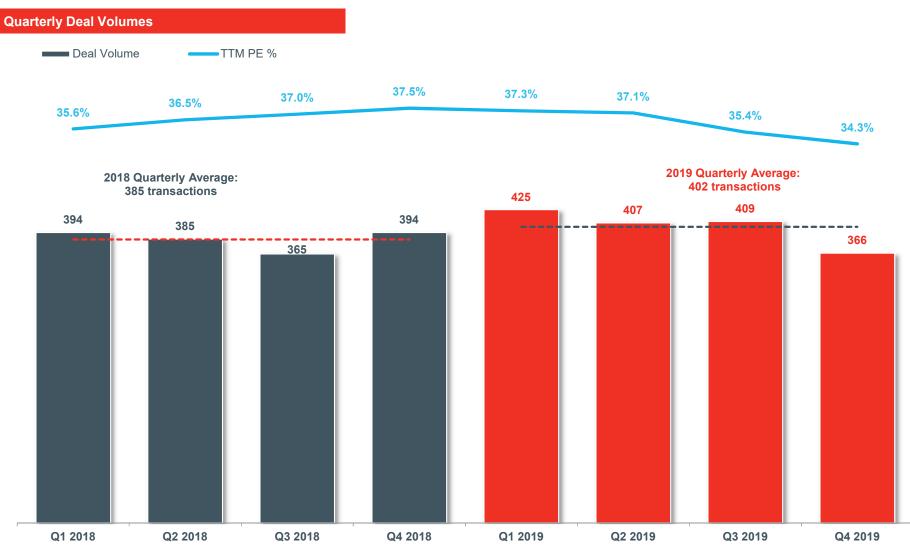
## A Record Year for Software Valuations

**Annual Median Deal Multiple** 

EV/LTM Revenue



# Volumes and Overall PE Participation Remained Robust with Q4 Results Below Trend



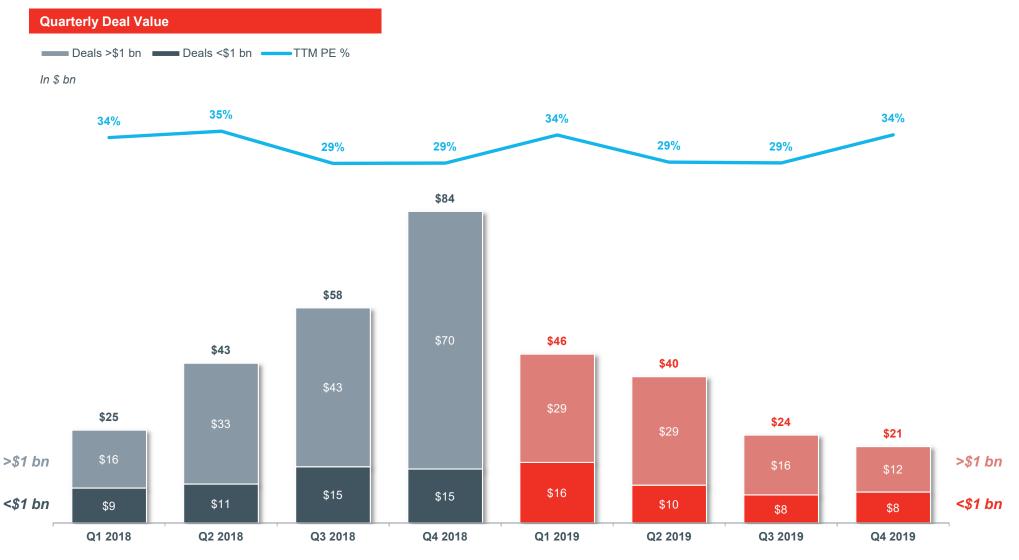
# Total Deal Value Decreased Progressively Q/Q, Primarily Driven by a Sharp Drop in Big-Ticket Deals

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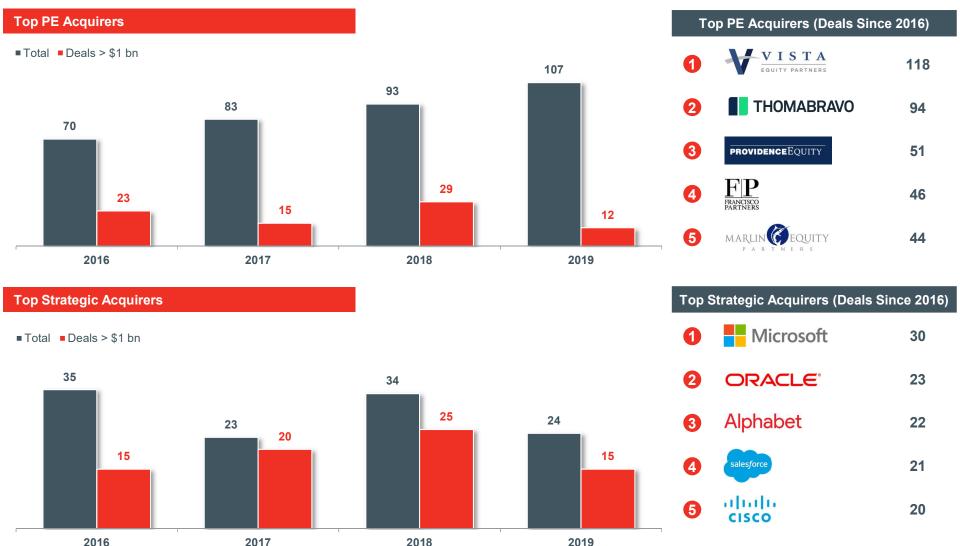
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# Consistent Growth in Top Five PE Activity While Large Cap (>\$1 bn) Activity Is More Cyclical



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# Select Large-Cap Deals (>\$1 bn)

### Q4 2019

### December 2019



LogMeIn provides remote-access software as a service (SaaS) that enables businesses and consumers to access remote PCs and Mac computers through the internet or mobile devices. It also provides web conferencing and team collaboration SaaS.

This investment builds on the strength of Francisco Partners' infrastructure and security software franchise.

### December 2019



Instructure provides learning management SaaS for schools and employee training SaaS to businesses. Software provides features for managing school assessments, analytics, registration, video learning, employee training and development.

Thoma Bravo intend to build on the strong momentum in the business and accelerate growth and product investment both organically and through M&A.

### October 2019

SOPHOS acquired by

### THOMABRAVO



Sophos provides cyber security SaaS for consumers, businesses and government agencies globally. Sophos leverages AI to enable anti-virus, endpoint security, antispam and encryption. It also provides related managed services.

Thoma Bravo believes that the acquisition of Sophos represents an attractive opportunity to increase its exposure to the large and growing cyber security market.

### October 2019



Cision provides businesses with a PR and marketing campaign management SaaS called C3. It also operates PR Newswire, which distributes press releases globally and provides a database of press releases.



As a private company, Cision can make strategic investments for sustainable and profitable growth, while remaining agile and focused on operational excellence.

December 2019

17.0x

Rev.



Shape Security provides AI-enabled web and mobile application fraud protection software for banks, airlines, retailers and government agencies. Its software solutions include features for analysis of transactions, devices and user behaviors in real time; user credential defense; and imitation attack protection.

Shape's ML- and Al-powered capabilities will scale and extend F5's broad portfolio of application services and expand its ability to optimize and protect customers' applications in a complex multicloud world.



PR = Public Relations; ML = Machine Learning; AI = Artificial Intellgience Deals selected represent largest publicly announced transactions in the software sector

\$1.0

bn



### Q4 2019



inventory across internet-connected devices and platforms,



Deal

Size

EV/

Rev

auction types.

rubicon

including mobile devices, computers and connected TVs. The combined company will offer a single platform for transacting connected TV (CTV), desktop display, video, audio and mobile inventory across all geographies and



Buildium provides property management SaaS for residential property managers, community associations and landlords. The software enables property managers to market vacancies, track income/expenses, process online payments and coordinate maintenance requests.

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The SMB market is a growth opportunity for RealPage, as it is an area where technology is underutilized, and is currently served by myriad point products. Buildium enables RealPage to reach deeper into that market, with a best-in-class platform backed by data science.

### October 2019



Onshape provides product design and development SaaS for enterprises. Features include data management, computer-aided design (CAD), workflow, real-time collaboration, design analytics and integration to business applications.



The acquisition of Onshape complements PTC's onpremise business with the industry's only proven, scalable pure SaaS platform, opening new CAD and PLM growth opportunities while positioning PTC to be a leader as the market transitions toward a SaaS model.

ObserveIT provides insider threat management

## November 2019

observe it

acquired by

### proofpoint.



software for businesses and governments. Licensed software enables monitoring, detection, prevention and investigation of IT security risks.

The integrated DLP platform will deliver real-time detection of the anomalous interactions across people, data, devices and applications, allowing security teams to understand and respond to data being mishandled, whether on a corporate device, in a cloud app like Office 365 or via email.

CRM = Customer Relationship Management; PLM = Product Lifecycle Management; DLP = Data Loss Prevention

Sources: 451 Research, SEC filings, S&P Global Market Intelligence, Mergermarket, company press releases and various news sources (as of December 31, 2019)

LTM Deals selected represent largest publicly announced mid-market (<\$1 bn) transactions in the software sector All trademarks, trade names, or logos referenced herein are the property of their respective owners.

# Pagemill Partners Tracked Software Universe



BI = Business Intelligence, CRM = Customer Relationship Management; ERP = Enterprise Resource Planning; SCM = Supply Chain Management; HCM = Human Capital Management

Source: S&P Global Market Intelligence as of December 31, 2019, and includes the most actively traded software companies for respective covered sectors, excluding most microcap companies. All trademarks, trade names, or logos referenced herein are the property of their respective owners.

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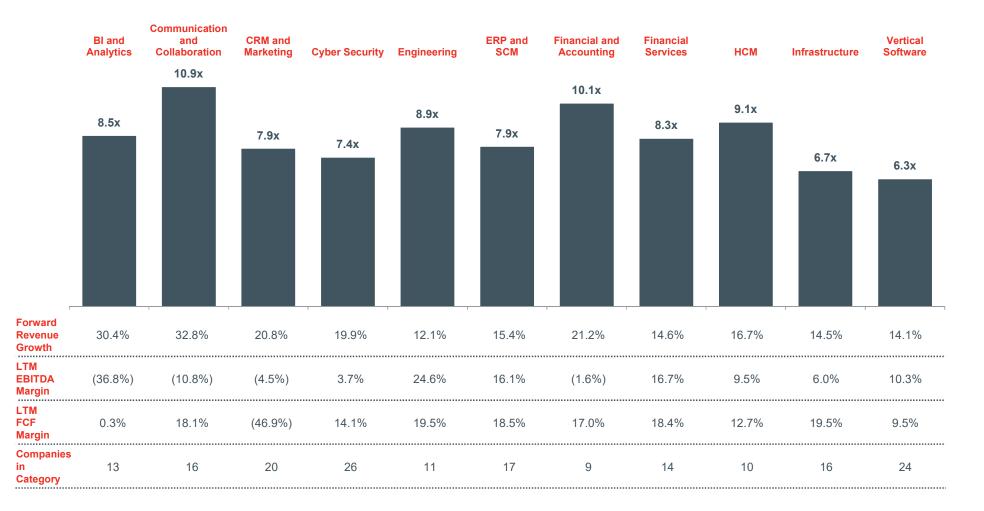
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# Pagemill Tracked Software Verticals KPIs

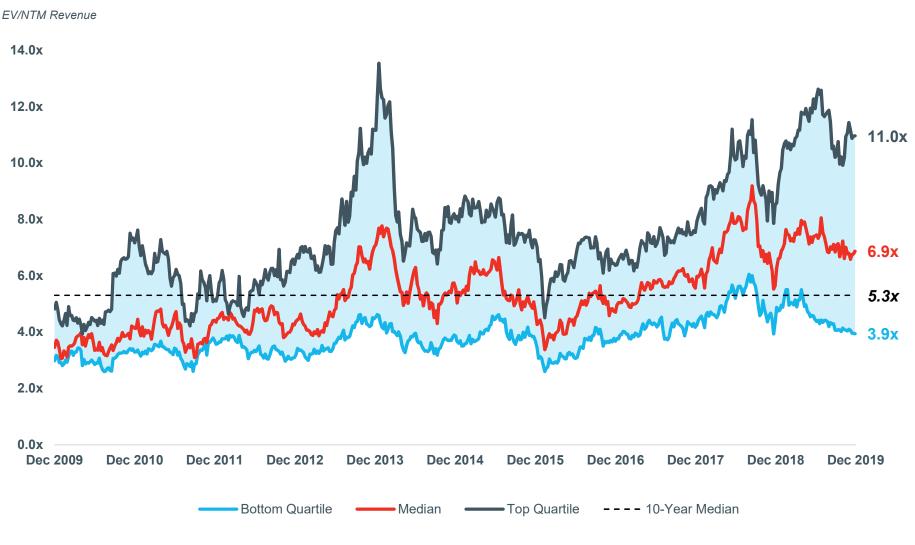
**EV/CY20 Revenue Multiples** 





# Pagemill SaaS Index

Performance of Market Indices for the Latest 10 Years



Pagemill SaaS Index includes: TWOU, BNFT, BOX, CSLT, CSOD, FIVN, HUBS, LPSN, LOGM, NEWR, PFPT, QLYS, RP, RNG, CRM, NOW, SPLK, SPSC, VEEV, WIX, WDAY, ZEN, SCWX, APPF, TEAM, TWLO, INST, SHOP, NTNX, BL, COUP, OKTA, ALRM, AYX, APPN, BLKB, ECOM, CLDR, EBIX, EVBG, FEYE, HSTM, JCOM, KXS, MIME, NH, PAYC, PCTY, QTWO, TRHC, TLND, TTD, UPLD, WK, YEXT, ZIXI, ADBE, DBX, ZUO, DOCU, SMAR, ZS, SVMK and PD. NTM = Next 12 Months



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## SaaS Universe and the Rule of 40

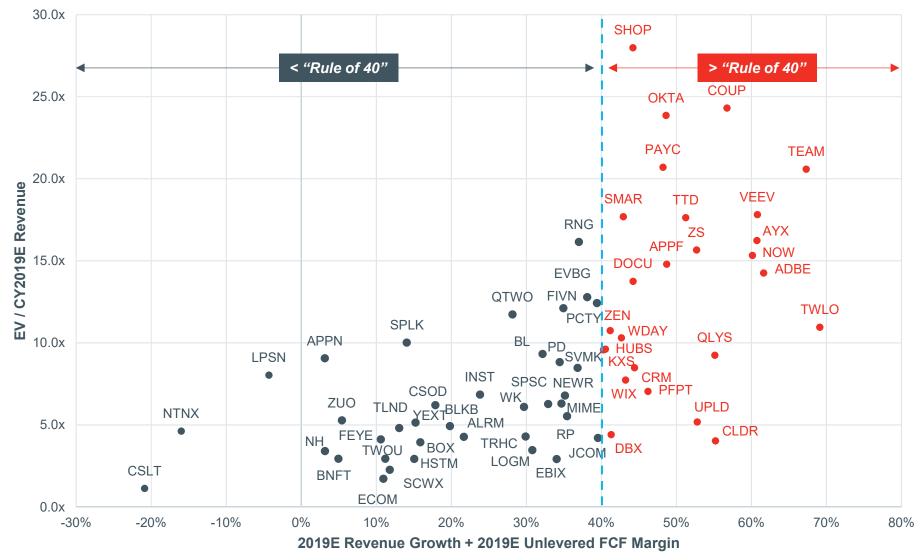


 $\label{eq:Rule of 40: Unlevered Free Cash Flow Margin + Revenue Growth \geq 40\% \\ \end{tabular} Excludes outliers and uses FY 2019E EBITDA as a proxy if FY 2019E unlevered free cash flow is unavailable.$ 

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## SaaS Universe and the Rule of 40 ...



Rule of 40: Unlevered Free Cash Flow Margin + Revenue Growth ≥ 40% Excludes outliers and uses FY 2019E EBITDA as a proxy if FY 2019E unlevered free cash flow is unavailable.

The material in this report is for information purposes only and is not intended to be relied upon as financial, accounting, tax, legal or other professional advice. This report does not constitute, and should not be construed as soliciting or offering any investment or other transaction, identifying securities for you to purchase or offer to purchase, or recommending the acquisition or disposition of any investment. Duff & Phelps does not guarantee the accuracy or reliability of any data provided from third party resources. Although we endeavor to provide accurate information from third party sources, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future.

### **Communications and Collaboration**

Date	Target	Buyer	Value	Abstract	Date	Target	Buyer	Value	Abstract
Aug-19	pitney bowes Software solutions business	<b>S sync</b> sort	\$700 mn 2.2x Rev.	Data management software assets	Jul-19	HighQ	THOMSON REUTERS"	NA	Collaboration & project management SaaS
Jun-19	looker	Alphabet	\$2.6 bn 28.9x Rev.	Big data analytics SaaS	May-19	GitPrime	PLURALSIGHT	\$170 mn	Software engineering management SaaS
Jun-19	+ab eau	salesforce	\$16.3 bn <i>13.7x Rev.</i>	BI analytics SaaS	Apr-19		Audax Group	NA	CRM and contact center SaaS

### **CRM and Marketing**

**BI and Analytics** 

### **Cyber Security**

Date	Target	Buyer	Value	Abstract	Date	Target	Buyer	Value	Abstract
Oct-19	CISION	Plathium Equity	\$2.8 bn 3.7x Rev. 12.5x EBITDA	Marketing campaign management software	Oct-19	SOPHOS	THOMABRAVO	\$3.7 bn <i>5.4x Rev.</i>	Security SaaS
Apr-19	Marketing and commerce software	Centerbridge	\$215 mn <i>5.4x Rev.</i>	Marketing & commerce software and SaaS	Aug-19	Symantec. Enterprise security	& BROADCOM	\$10.7 bn 4.6x Rev. 30.6x EBITDA	Security software & services
Apr-19	EPSILON	PUBLICIS GROUPE	\$4.4 bn 2.3x Rev. 8.2x EBITDA	Online marketing SaaS	Aug-19	Carbon Black.	<b>vm</b> ware	\$2.1 bn 9.0x Rev.	Endpoint & server security software



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Date

Target

## Select M&A Transactions by Vertical

Abstract

Financial	and	Accounting	Software	
i manciai	anu	Accounting	Sultware	

## **Financial Services**

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**ERP and SCM** 

Value

Buyer

Target

Date

Date	Target	Buyer	Value	Abstract	Date	Target	Buyer	Value	Abstract
Apr-19	myob	KKR	\$1.1 bn <i>4.5x Rev.</i> 10.5x EBITDA	Accounting software/SaaS	Aug-19	🔆 kony	TEMENOS	\$509 mn	Mobile application development SaaS
Mar-19	<b>kyriba</b>	Bridgepoint	\$1.2 bn <i>10.9x Rev.</i>	Enterprise treasury management SaaS	Apr-19	axioma	Deutsche Börse	\$850 mn <i>8.5x Rev.</i>	Risk and investment portfolio software
Jan-19		paya	NA	Billing and payment SaaS	Mar-19	≦eFront	BlackRock	, \$1.3 bn `9. <i>3x Rev.</i>	Investment portfolio management software

Oct-19	Onshape 📚 ptc \$470 mn	Product design and development SaaS	Nov-19 <b>scout</b> workdoy \$540 mn Sourcing and supplier management SaaS
Sep-19	PSE SIEMENS NA	Process modelling software and services	May-19 Amber Road FOURTHING GLOBAL TRACE F2 OPEN: 4.8x Rev. management SaaS
Sep-19	ST75 mn	Engineering simulation SaaS	Feb-19 Aptean \$950 mn Enterprise software and 10.6x EBITDA SaaS

### Engineering

Value

**Buyer** 



### 0 0 0

Abstract

Target

Ultimate

**Buyer** 

H&F

Date

Jun-19

Feb-19

### Workplace management \$140 mn fm:systems SignalFx Aug-19 Aug-19 ASURE

**HCM** 

Value

\$10.9 bn

9.9x Rev.

Date

Select M&A Transactions by Vertical

### splunk> 4.3x Rev. SaaS and systems Learning mgmt and \$1.8 bn Mar-19 🖞 ATTUNITY QIK 🔘 INSTRUCTURE THOMABRAVO 6.9x Rev. employee training SaaS

HR management

software

Buyer

Target

Abstract

### Vertical Software

Value

Date

Jan-19

Target

**ROGUE WAVE** 

Abstract

Vehicle dealership

Buyer

Dec-19			\$720 mn	finance and insurance mgmt. SaaS
Nov-19	Buildium	REALPAGE Outperform	\$580 mn <i>11.6x Rev.</i>	Property management SaaS
Jun-19	<b>:::</b> medidata		\$5.8 bn 8.8x Rev 72.1x EBITDA	Clinical development SaaS

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Abstract

Cloud performance

monitoring SaaS

Big data integration and

replication software

Application development

software

Infrastructure

Value

\$1.1 bn

21.0x Rev.

\$405 mn

\$480 mn

9.6x EBITDA

PERFORCE 4.0x Rev.

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# Public Trading Data for Software Companies ......

\$ in millions (except for share price)

Company Name	Share Price	52-V	Veek	% of 52-	Market	Enterprise	Rev	enue	Revenue	EBITDA	EBITDA	EV/R	evenue
	12/31/2019	Low	High	Week High	Сар	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
BI and Analytics	¢100.07	\$56.24	\$147.79	220/	¢6 510 0	¢6 264 7	\$350.6	\$520.2	33%	\$26.3	70/	18.2x	10.0%
Alteryx, Inc.	\$100.07			-32%	\$6,512.2	\$6,364.7							12.2x
Datadog, Inc.	37.78	27.55	44.09	-14%	11,176.5	10,477.4	310.7	502.9	43%	(14.0)		33.7x	20.8x
Domo, Inc.	21.72	14.80	47.08	-54%	605.2	589.4	166.6	198.4	15%	(112.4)	-65%	3.5x	3.0x
Dynatrace, Inc.	25.30	17.05	27.48	-8%	7,097.7	7,455.7	482.8	625.1	23%	(163.7)	-32%	15.4x	11.9x
Expert System S.p.A.	3.43	1.26	4.26	-19%	137.1	138.1	37.9	40.9	11%	(2.3)	-6%	3.6x	3.4x
Gridsum Holding Inc.	1.22	1.19	4.69	-74%	42.1	117.3	40.6	NA	NA	(76.1)	NA	2.9x	NA
MicroStrategy Incorporated	142.63	120.50	158.90	-10%	1,464.4	1,000.7	484.7	521.0	8%	(1.0)	0%	2.1x	1.9x
New Relic, Inc.	65.71	50.00	109.00	-40%	3,862.9	3,579.9	542.9	665.0	17%	(25.9)	-5%	6.6x	5.4x
PagerDuty, Inc.	23.39	20.53	59.82	-61%	1,806.4	1,460.3	154.3	210.7	27%	(53.3)	-32%	9.5x	6.9x
Splunk Inc.	149.77	99.49	153.66	-3%	23,359.5	23,529.6	2,189.8	2,881.9	23%	(187.1)	-8%	10.7x	8.2x
Talend S.A.	39.11 26.77 2.49	31.14	53.09	-26% -46% -75%	1,204.6	1,187.1 3,158.6	236.7	297.0	20% 1% 14%	(53.1) 157.0 (59.6)	-21% 8% -121%	5.0x	4.0x 1.7x 0.2x
Teradata Corporation	26.77	23.71	49.42	-46%	3,011.6	3,158.6	1,993.0 48.1	1,889.4 56.1	1%	157.0	8%	1.6x 0.3x	1.7x
Veritone, Inc.	2.49	2.31	9.98	-75%	61.3	12.1	48.1	56.1	14%	(59.6)	-121%	0.3x	0.2x
Communications and Colla	boration												
8x8, Inc.	\$18.30	\$16.50	\$26.67	-31%	\$1,834.1	\$1,945.5	\$389.9	\$508.7	23%	(\$105.7)	-26%	5.0x	3.8x
Atlassian Corporation Plc	120.34	84.18	149.80	-20%	29,383.0	28,752.9	1,416.0	1,792.4	27%	10.6	1%	20.3x	16.0x
Box, Inc.	16.78	12.46	24.93	-33%	2,510.7	2,735.5	676.4	773.3	11%	(78.8)	-11%	4.0x	3.5x
DocuSign, Inc.	74.11	38.80	76.28	-3%	13,299.4	13,273.3	898.8	1,215.2	26%	(167.7)	-17%	14.8x	10.9x
Dropbox, Inc.	17.91	16.08	26.49	-3% -32%	7,438.4	7,308.6	1,591.2	1,901.5	<u>26%</u> 15%	92.8	6%	4.6x	3.8x
Everbridge, Inc.	78.08	51.79	104.22	-25%	2,638.4	2,557.6	185.6	257.6	29%	(36.7)	-18%	13.8x	9.9x
Extreme Networks, Inc.	7.37	5.37	8.59	-14%	895.9	1,184.1	1,011.4	1,115.3	29% 8%	43.6	4%	1.2x	1.1x
Five9, Inc.	65.58	40.82	69.86	-6% -1% -5%	4,005.5	3,906.4	308.1	372.5	15% 2% 23% 37%	19.6	6% 31% 1% -82%	12.7x	10.5x
Open Text Corporation	44.07	31.43	44.67	-1%	11,875.0	13,728.7	2,898.5	2,988.0	2%	903.4	31%	12.7x 4.7x	4.6x
RingCentral, Inc.	168.67	77.40	177.99	-5%	14,522.8	14,366.6	838.6	1,096.0	23%	8.6	1%	17.1x	13.1x
Slack Technologies, Inc.	22.48	19.53	42.00	-46%	12,372.5	11,613.6	570.5	855.8	37%	(512.8)	-82%	20.4x	13.6x
Smartsheet Inc.	44.92	22.26	55.79	-19%	5,277.1	4,778.6	244.5	375.7	39%	(74.3)	-27%	19.5x	12.7x
CooTek (Cayman) Inc.	4.95	4.55	13.30	-63%	314.7	263.6	155.9	257.8	59%	(24.4)	-15%	1.7x	1.0x
Twilio Inc.	4.95 98.28	80.13	151.00	-63% -35%	13,479.4	12,221.4	1,007.5	1,465.0	59% 31%	(24.4) (226.2)	-15% -20%	1.7x 12.1x	1.0x 8.3x
Vonage Holdings Corp.	7.41	7.01	13.75	-46%	1,797.9	2,349.0	1,153.5	1,289.9	9%	105.3	9%	2.0x	1.8x
Zoom Communications, Inc.	68.04	59.94	107.34	-37%	18.806.4	18,050.8	540.2	866.8	42%	21.8	4%	33.4x	20.8x
	00.01	50.01	107.04	01.70	.0,000.4	.0,000.0	010.2	000.0	72 /0	<u> </u>	-170	50.17	20.07

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*\$ in millions (except for share price)* 

Commonly Mana	Share Price	52-V	Veek	% of 52-	Market	Enterprise	Rev	enue	Revenue	EBITDA	EBITDA	EV/R	evenue
Company Name	12/31/2019	Low	High	Week High	Cap	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
CRM and Marketing													
Adobe Inc.	\$329.81	\$215.15	\$332.88	-1%	\$159,080.2	\$159,041.5	\$11,171.3	\$13,170.9	18%	\$3,833.9	34%	14.2x	12.1x
Aimia Inc.	2.78	2.31	3.32	-16%	301.3	96.3	102.6	89.7	-10%	(42.9)	-43%	0.9x	1.1x
Brightcove Inc.		6.90	12.88	-33%	337.2	331.0	177.7	202.3	10%	(2.3)	-1%	1.9x	1.6x
Cardlytics. Inc.	62.86	10.30	65.43	-4%	1,616.2	1,521.1	189.0	275.0	34%	(25.4)	-12%	8.1x	5.5x
ChannelAdvisor Corporation		8.01	13.83	-35%	253.7	221.9	130.0	136.0	5%	7.1	5%	1.7x	1.6x
Hottolink, Inc.	3.33	2.52	4.74	-30%	51.2	50.8	32.5	NA	NA	(9.1)	NA	1.6x	NA
HubSpot, Inc.	158.50	117.77	207.98	-24%	6,787.2	6,415.0	632.7	829.3	24%	(32.0)	-5%	10.1x	7.7x
LivePerson, Inc.	37.00	17.78	42.85	-14%	2,349.3	2,338.8	278.3	351.9	21%	(43.3)	-15%	8.4x	6.6x
Medallia, Inc.	31.11	23.76	44.72	-30%	3,992.4	3,673.1	378.7	479.8	21%	(77.8)	-20%	9.7x	7.7x
NICE Ltd.	155.06	109.32	163.57	-5%	9,634.6	9,781.7	1,554.5	1,704.2	8%	400.1	25%	6.3x	5.7x
Pegasystems Inc.	79.65	45.25	79.82	0%	6,318.8	6,278.9	891.2	1,038.8	12%	(73.5)	-8%	7.0x	6.0x
salesforce.com, inc.	162.64	130.10	167.56	-3%	144,261.7	144,225.7	15,850.0	20,922.2	23%	2,293.0	13%	9.1x	6.9x
Shopify Inc.	397.58	129.48	416.60	-5%	46,086.4	43,530.2	1,416.9	2,129.1	37%	(95.6)	-6%	30.7x	20.4x
Sprout Social, Inc.	16.05	15.60	18.75	-14%	768.5	880.1	96.8	131.4	29%	(21.0)	-21%	9.1x	6.7x
SVMK Inc.	17.87	11.29	19.82	-10%	2,405.6	2,598.3	291.0	372.3	21%	(38.6)	-13%	8.9x	7.0x
TechTarget, Inc.	26.10	11.60	30.00	-13%	730.9	732.6	129.9	146.6	10%	26.4	20%	5.6x	5.0x
Upland Software, Inc.	35.71	26.09	54.87	-35%	902.1	1,136.6	201.8	261.4	19%	48.3	22%	5.6x	4.3x
Verint Systems Inc.	55.36	40.63	63.94	-13%	3,699.4	4,211.9	1,294.7	1,460.7	7%	178.0	13%	3.3x	2.9x
Yext, Inc.	14.42	12.83	23.32	-38%	1,655.6	1,529.3	281.2	380.7	28%	(97.4)	-33%	5.4x	4.0x
Zendesk, Inc.	76.63	55.33	94.89	-19%	8,596.0	8,747.6	758.8	1,058.3	30%	(129.2)	-16%	11.5x	8.3x

*\$ in millions (except for share price)* 

Commony Norma	Share Price	52-V	Veek	% of 52-	Market	Enterprise	Rev	enue	Revenue	EBITDA	EBITDA	EV/R	evenue
Company Name	12/31/2019	Low	High	Week High	Сар	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
Cyber Security													
Absolute Software Corp.	\$6.71	\$5.61	\$7.15	-6%	\$280.6	\$250.3	\$100.3	\$108.8	7%	\$16.4	16%	2.5x	2.3x
Avast Plc	6.00	3.60	6.28	-4%	6,038.4	7,181.1	845.1	937.0	7%	368.3	42%	8.5x	7.7x
Charle Daint Caffreiana I tal	440.00	400.00	132.76	-16%	16,892.5	15,208.0	1,976.4	2,051.6	3%	900.1	45%	7.7x	7.4x
CrowdStrike Holdings, Inc.	49.87	44.58	101.88	-51%	10,250.5	9,416.8	409.8	680.6	46%	(126.1)	-27%	23.0x	13.8x
CyberArk Software Ltd.	49.87 116.58	69.15	148.74	-22%	4,415.9	3,909.3	413.3	510.9	19%	77.7	18%	9.5x	7.7x
FireEye, Inc.	10.53	12.00	18.66	-11%	3,527.7	3,620.7	871.6	950.4	8%	(120.3)	-14%	4.2x	3.8x
Forescout Technologies, Inc	. 32.80	23.95	46.43	-29%	1,547.3	1,502.3	330.2	386.7	14%	(85.2)	-25%	4.5x	3.9x
Fortinet, Inc.	106.76	65.06	110.28	-3%	18,259.6	16,360.9	2,048.8	<u>2,475.9</u>	15%	371.5	17%	8.0x	6.6x
F-Secure Oyj	3.42	2.46	3.82	-10%	539.2	561.8	234.4	264.2	7%	12.4	5%	2.4x	2.1x
Mimecast Limited	43.38	31.84	54.57	-21%	2,689.2	2,733.2	382.4	487.6	21%	28.7	7%	7.1x	5.6x
MobileIron, Inc.	4.86	4.39	7.79	-38%	544.5	463.7	205.3	218.9	6%	(41.1)	-20%	2.3x	2.1x
Okta, Inc.	115.37	59.28	141.85	-19%	13,983.3	13,713.3	534.2	757.1	32%	(159.2)	-28%	25.7x	18.1x
Palo Alto Networks, Inc.	231.25	178.80	260.63	-11%	22,652.7	21,670.4	3,015.5	3,790.3	20%	91.4	3%	7.2x	5.7x
Ping Identity Holding Corp.	24.30	15.22	25.45	-5%	1,935.1	1,928.7	234.2 843.2	265.8	11%	49.7	21%	8.2x	7.3x
Proofpoint, Inc.	114.78	81.07	133.58	-14%	6,479.8	6,227.0	843.2	1,061.1	20%	(24.6)	-3%	7.4x	5.9x
Qualys, Inc.	83.37	69.35	97.12	-14%	3,231.6	2,971.8	311.1	366.8	14%	95.4	30%	9.6x	8.1x
Radware Ltd.	25.78	21.99	26.98	-4%	1,208.9	1,006.7	248.5	275.6	9%	29.4		4.1x	3.7x
Rapid7, Inc.	56.02	29.48	66.01	-15%	2,766.5	2,782.0	304.1	397.6	23%	(27.9)	-9%	9.1x	7.0x
SecureWorks Corp.	16.66	10.37	24.91	-33%	1,353.3	1,244.6	541.5	580.3	6%	(7.7)	-1%	2.3x	2.1x
NortonLifeLock Inc.	25.52	17.50	26.71	-4%	15,905.3	18,711.3	4,765.0	2,464.9	-42%	1,061.0	25%	3.9x	7.6x
Tenable Holdings, Inc.	23.96	20.29	36.26	-34%	2,352.6	2,097.7	332.8	435.5	24%	(77.2)	-22%	6.3x	4.8x
Trend Micro Incorporated	51.53	40.90	59.63	-14%	7,165.0	5,576.3	1,511.4	1,574.1	4%	493.1		3.7x	3.5x
Tufin Software Tech Ltd.	17.59	14.85	31.04	-43%	613.0	515.1	102.4	121.4	18%	(15.0)	-15%	5.0x	4.2x
Varonis Systems, Inc.	77.71	48.67	80.00	-3%	2,368.9		269.1	286.4	13%		-20%		8.0x
Zix Corporation	6.78	5.34	11.15	-39%	364.4	650.8	141.5	212.7	23%	22.5	13%	4.6x	3.1x
Zscaler, Inc.	46.50	38.03	89.54	-48%	5,950.0	5,606.6	333.1	468.7	31%	(21.2)	-6%	16.8x	12.0x

# Public Trading Data for Software Companies .....

\$ in millions (except for share price)

Company Name	Share Price	52-V	Veek	% of 52-	Market	Enterprise	Rev	enue	Revenue	EBITDA	EBITDA	EV/R	evenue
	12/31/2019	Low	High	Week High	Сар	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
Engineering	<b>\$05.04</b>		¢ 40.00	470/	<b>00 577 4</b>	<b>\$0.504.0</b>	¢ 400 0	<b>*5000</b>	400/	<b><b><b><b></b></b></b></b>	00/	E 0	<b>5</b> 4
Altair Engineering Inc.	\$35.91	\$25.54	\$43.28	-17%	\$2,577.4	\$2,534.2	\$438.0	\$500.6	12%	\$25.9	6%	5.8x	5.1x
ANSYS, Inc.	257.41	137.14	260.10	-1%	22,029.5	21,404.4	1,445.1	1,675.1	11%	570.1	38%	14.8x	12.8x
Aspen Technology, Inc.	120.93	78.76	142.15	-15%	8,248.4	8,545.7	618.3	624.0	2% 22% 7% 7% 20%	301.7	49% 12%	13.8x	13.7x
Autodesk, Inc.	183.46	121.12	185.75	-1%	40,367.3	41,386.3	3,112.3	3,975.2	22%	382.9	12%	13.3x	10.4x
AVEVA Group plc	61.66 69.36	29.98	62.96	-2% -10% -2%	9,937.4	9,952.8	1,011.0	1,140.4 2,497.7	7%	196.4 630.2 1,235.6	19% 27% 27%	9.8x	8.7x 7.7x 7.4x
Cadence Design Systems	69.36	41.43	77.08	-10%	19,461.9	19,270.8	2,306.6 4,210.7	2,497.7	7%	630.2		8.4x	7.7x
Dassault Systèmes SE	164.46	107.75	167.15	-2%	42,738.1	40,316.2	4,210.7	5,474.4	20%	1,235.6	27%	9.6x	7.4x
PTC Inc.	74.89 354.23	62.05	102.47	-27% -8%	8,649.3	9,020.9	1,277.1	1,525.4	19% 7%	168.0 1,857.6	13% 35%	7.1x 8.0x	5.9x
Roper Technologies, Inc.	354.23	257.89	385.51	-8%	36,860.4	43,021.5	5,348.3	5,762.3	7%	1,857.6	35%	8.0x	7.5x
Synopsys, Inc.	139.20	81.03	146.66	-5%	20,954.5	20,369.4	3,360.7	3,751.0	12%	691.8	21%	6.1x	5.9x 7.5x 5.4x
Trimble Inc.	41.69	30.85	46.25	-10%	10,386.4	12,091.5	3,225.8	3,355.3	3%	640.9	20%	3.7x	3.6x
ERP and SCM													
American Software, Inc.	\$14.88	\$9.78	\$17.11	-13%	\$475.5	\$383.8	\$108.9	\$115.3	5%	\$7.6	7%	3.5x	3.3x
The Descartes Systems Inc	42.79	26.18	44.80	-4%	3,600.8	3,594.9	312.6	360.1	10%	110.7	34%	11.5x	10.0x
Kinaxis Inc.	77.11	48.39	84.04	-4% -8%	2,022.5	1,826.6	173.5	360.1 210.6	10% 11%	110.7 29.8	34% 16%	10.5x	10.0x 8.7x
Manhattan Associates, Inc.	79.75	39.85	89.53	-11%	5,096.1	5,022.9	609.4	649.5	6%	132.8	22%	8.2x	7.7x
Microsoft Corporation	157.70	97.20	159.55	-1%	1,203,062.6	3 1,152,023.6	129,814.0	148,122.9	11%	57,424.0	43%	8.9x	7.8x
Oracle Corporation	52.98	44.41	60.50	-12%	169,941.2	197,041.2	39,583.0	40,446.8	2%	16,190.0	41%	5.0x	4.9x
Sansan, Inc.	50.98	32.57	57.60	-12%	1,583.3	1,467.2	93.9	150.0	36%	(3.6)	-3%	15.6x	9.8x
SAP SE	135.02	94.21	140.28	-4%	161.171.5	173,129.8	29,374.1	32,710.0	6%	7,694.9	25%	5.9x	5.3x
ServiceNow, Inc.	282.32	168.47	303.17	-4% -7%	53,234.0	52,887.3	3,224.1	4,410.3	6% 28%	237.8	7%	16.4x	12.0x
Serviceware SF	14.98	13.44	26.93	-44%	157.3	101.8	70.9	87.3	19%	1.9	3%	1.4x	1.2x
Serviceware SE SPS Commerce, Inc.	55.42	39.91	59.14	-6%	1,930.8	1,749.1	271.6	306.9	10%	1.9 51.2 53.2	18%	6.4x	1.2x 5.7x 8.3x
Technology One Limited	5.82	4.18	6.60	-6% -12%	1,855.1	1,781.3	192.2	215.9	10% 5%	53.2	18% 26%	9.3x	8.3x
Tecsys Inc.	16.48	7.94	17.41	-5%	215.5	222.4	68.5	82.7	10%	3.5	5%	3.2x	2.7x
TOTVS S.A.	16.06	6.73	17.32	_7%	3 062 1	2,808.8	588.2	613.0	8%	62.8	11%	1 8v	<u>4.1X</u>
WiseTech Global Limited	16.42	<u>0.75</u> 11 //	27.26	-7% -40%	3,062.1 5,224.2	5,041.5	588.2 244.2	613.0 361.3	8% 25%	62.8 71.4	25%	4.8x 20.6x	4.6x 14.0x
Yonyou Network Tech., Ltd.	4.08	<u>11.44</u> 2.34	5 22	-22%	10 212 8	10 160 8	1,142.2	1,562.7	21%	135.2	10%	8.9x	6.5x
	14.33	13.04	5.22 24.65		10,212.8	10,169.8			21% 17%	(77.1)	10% -28%	5.4x	
Zuora, Inc.	14.33	13.04	24.00	-42%	1,621.6	1,462.8	269.2	326.0	1/70		-2070	0.4X	4.5x

Pagemill Partners A Division of DUFF & PHELPS

*\$ in millions (except for share price)* 

	Share Price	52-V	Veek	% of 52-	Market	Enterprise	Rev	enue	Revenue	EBITDA	EBITDA	EV/R	evenue
Company Name	12/31/2019	Low	High	Week High	Сар	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
Financial & Accounting Sof	ftware												
Anaplan, Inc.	\$52.40	\$23.78	\$60.36	-13%	\$7,001.2	\$6,744.9	\$319.0	\$460.3	33%	(\$125.6)	-36%	21.1x	14.7x
Avalara, Inc.	73.25	30.67	94.31	-22%	5,636.0	5,189.1	351.7	469.5	25%	(41.7)	-11%	14.8x	11.1x
Basware Oyj	26.65	18.81	46.12	-42%	383.7	433.6	158.7	175.7	6%	(9.2)	-6%	2.7x	2.5x
BlackLine, Inc.	51.56	38.40	56.29	-8%	2,868.8	2,672.0	271.0	346.7	21%	(13.0)	-5%	9.9x	7.7x
Coupa Software Incorporated	146.25	58.28	159.97	-9%	9,330.5	9,258.8	353.2	486.8	28%	(47.9)	-13%	26.2x	19.0x
Intuit Inc.	261.93	188.21	295.78	-11%	68,182.1	66,702.1	6,933.0	7,831.5	10%	2,078.0	29%	9.6x	8.5x
The Sage Group plc	9.92	7.58	10.94	-9%	10,823.7	11,345.5	2,381.2	2,572.5	0%	594.1	23%	4.8x	4.4x
Workiva Inc.	42.05	34.43	64.12	-34%	1,953.7	1,787.0	282.1	341.2	16%	(25.7)	-9%	6.3x	5.2x
Xerox Holdings Corporation	36.87	19.33	39.47	-7%	7,970.9	12,448.9	9,228.0	8,708.6	-4%	1,388.0	15%	1.3x	1.4x
Anaplan, Inc.	52.40	23.78	60.36	-13%	7,001.2	6,744.9	319.0	460.3	33%	(125.6)	-36%	21.1x	14.7x

Financial Services													
Bill.com Holdings, Inc.	\$38.05	\$34.60	\$41.75	-9%	\$2,684.6	\$2,804.1	\$121.1	\$153.0	23%	(\$11.5)	-9%	23.2x	18.3x
Bottomline Technologies, Inc.	53.60	37.04	54.24	-1%	2,356.6	2,401.7	427.7	471.4	9%	38.1	9%	5.6x	5.1x
Broadridge Financial, Inc.	123.54	92.44	136.99	-10%	14,163.4	15,817.8	4,338.0	4,682.9	7%	892.5	20%	3.6x	3.4x
EVO Payments, Inc.	26.41	21.81	31.93	-17%	1,089.3	2,128.6	507.2	632.0	8%	121.8	21%	4.2x	3.4x
FINEOS Corp. Holdings plc	1.86	1.63	2.35	-21%	492.2	509.5	71.5	95.7	NA	1.6	NA	7.1x	5.3x
Fidelity National Info, Inc.	139.09	98.10	141.35	-2%	85,484.8	104,943.8	9,158.0	13,557.0	31%	2,830.0	27%	11.5x	7.7x
GreenSky, Inc.	8.90	5.74	16.42	-46%	564.1	674.6	505.5	617.6	16%	146.4	28%	1.3x	1.1x
Guidewire Software, Inc.	109.77	76.31	123.60	-11%	9,064.8	8,476.2	696.3	820.3	19%	14.5	2%	12.2x	10.3x
i3 Verticals, Inc.	28.25	18.65	31.45	-10%	409.1	609.7	376.3	165.9	13%	25.0	17%	1.6x	3.7x
Jack Henry & Associates ,Inc.	145.67	120.99	152.93	-5%	11,207.4	11,184.9	1,598.2	1,723.1	6%	443.7	27%	7.0x	6.5x
Q2 Holdings, Inc.	81.08	46.12	93.63	-13%	3,904.5	3,725.0	295.8	414.2	30%	(30.5)	-10%	12.6x	9.0x
SimCorp A/S	113.76	65.96	116.31	-2%	4,504.9	4,550.6	497.0	539.9	6%	168.8	33%	9.2x	8.4x
SS&C Tech. Holdings, Inc.	61.40	42.51	67.73	-9%	15,516.4	23,394.7	4,540.4	4,775.1	3%	1,680.2	36%	5.2x	4.9x
Temenos AG	158.18	110.38	190.55	-17%	11,223.7	12,399.0	921.9	1,181.1	21%	286.6	29%	13.4x	10.5x

*\$ in millions (except for share price)* 

	Share Price 52-W		Veek	% of 52-	Market	Enterprise	Revenue		Revenue	EBITDA	EBITDA	EV/Revenue	
Company Name	12/31/2019	Low	High	Week High	Сар	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
НСМ													
Automatic Data Processing	\$170.50	\$126.06	\$174.50	-2%	\$73,775.0	\$75,254.7	\$14,360.6	\$15,476.3	7%	\$3,567.7	25%	5.2x	4.9x
Benefitfocus, Inc.	21.94	19.25	60.66	-64%	718.3	869.1	283.3	338.5	14%	(19.6)	-7%	3.1x	2.6x
Ceridian HCM Holding Inc.	67.88	33.17	68.63	-1%	9,773.2	10,213.5	802.8	927.6	13%	148.7	18%	12.7x	11.0x
Cornerstone OnDemand, Inc.	58.55	48.24	62.66	-7%	3,555.0	3,553.5	565.2	654.3	14%	17.1	3%	6.3x	5.4x
Paychex, Inc.	85.06	63.33	88.43	-4%	30,484.4	30,835.5	4,033.5	4,260.7	6%	1,656.6	41%	7.6x	7.2x
Paycom Software, Inc.	264.76	115.03	279.95	-5%	15,265.4	15,217.1	694.6	907.6	24%	236.2	32%	21.9x	16.8x
PayGroup Limited	0.48	0.40	0.62	-22%	33.4	30.9	4.3	NA	NA	(1.6)	NA	7.3x	NA
Paylocity Holding Corp., Inc.	120.82	56.70	122.65	-1%	6,465.4	6,419.8	493.8	617.7	20%	75.5	15%	13.0x	10.4x
TriNet Group, Inc.	56.61	39.52	76.92	-26%	3,953.6	4,136.6	3,755.0	1,002.0	8%	274.0	29%	1.1x	4.1x
Workday, Inc.	164.45	151.06	226.83	-28%	37,823.5	37,271.3	3,439.5	4,352.4	20%	(190.6)	-5%	10.8x	8.6x

Infrastructure													
Akamai Technologies, Inc.	\$86.38	\$57.18	\$93.12	-7%	\$13,959.1	\$14,596.1	\$2,834.9	\$3,074.2	7%	\$805.2	28%	5.1x	4.7x
Appian Corporation	38.21	25.22	62.94	-39%	2,565.9	2,404.6	256.1	308.9	16%	(46.5)	-18%	9.4x	7.8x
Cisco Systems, Inc.	47.96	40.96	58.26	-18%	203,458.9	195,066.9	51,991.0	51,365.7	0%	16,207.0	31%	3.8x	3.8x
Citrix Systems, Inc.	110.90	90.28	114.73	-3%	14,441.4	14,903.2	3,010.6	3,117.6	4%	802.9	27%	5.0x	4.8x
Cloudera, Inc.	11.63	4.89	15.43	-25%	3,339.6	3,160.2	727.0	868.7	11%	(226.8)	-29%	4.3x	3.6x
Cloudflare, Inc.	17.06	14.50	22.08	-23%	5,121.2	4,484.3	258.6	376.2	33%	(74.7)	-26%	17.3x	11.9x
Commvault Systems, Inc.	44.64	40.73	69.20	-35%	2,040.6	1,583.6	695.5	695.6	2%	50.0	7%	2.3x	2.3x
Elastic N.V.	64.30	60.10	104.10	-38%	5,189.7	4,925.0	342.3	528.9	40%	(127.3)	-34%	14.4x	9.3x
F5 Networks, Inc.	139.65	121.36	173.44	-19%	8,489.9	7,517.6	2,242.4	2,363.8	4%	594.2	26%	3.4x	3.2x
Fastly, Inc.	20.07	14.12	35.25	-43%	1,879.6	1,700.9	182.3	256.5	31%	(26.4)	-13%	9.3x	6.6x
Juniper Networks, Inc.	24.63	22.42	28.77	-14%	8,243.8	7,883.0	4,418.3	4,496.8	2%	712.3	16%	1.8x	1.8x
NetApp, Inc.	62.25	44.55	78.35	-21%	14,207.1	13,005.1	5,762.0	5,838.3	3%	1,165.0	21%	2.3x	2.2x
Nutanix, Inc.	31.26	17.74	54.68	-43%	6,009.7	5,735.2	1,237.6	1,579.9	27%	(654.5)	-53%	4.6x	3.6x
Software Aktiengesellschaft	34.90	25.59	39.52	-12%	2,581.9	2,373.7	981.5	982.9	-2%	290.8	29%	2.4x	2.4x
SolarWinds Corporation	18.55	12.66	21.22	-13%	5,695.4	7,390.3	906.2	1,050.5	12%	219.0	23%	8.2x	7.0x
VeriSign, Inc.	192.68	142.37	221.78	-13%	22,622.4	23,189.6	1,228.6	1,292.2	5%	847.8	69%	18.9x	17.9x

*\$ in millions (except for share price)* 

Compony Nome	Share Price	52-V	Veek	% of 52-	Market	Enterprise	Revenue		Revenue	EBITDA	EBITDA	EV/Revenue	
Company Name	12/31/2019	Low	High	Week High	Сар	Value	LTM	FY 2020	Growth	LTM	Margin LTM	LTM	FY 2020
Vertical Software													
2U, Inc.	\$23.99	\$11.37	\$80.49	-70%	\$1,522.8	\$1,680.9	\$526.6	\$728.6	27%	(\$61.6)	-11%	3.2x	2.3x
Allscripts Healthcare. Inc.	9.82	8.75	12.40	-21%	1,593.6	2,502.6	1,763.0	1,856.2	4%	129.6	7%	1.4x	1.3x
Amdocs Limited	72.19	52.60	72.89	-1%	9,726.7	9,297.6	4,086.7	4,255.0	4%	775.5	19%	2.3x	2.2x
AppFolio, Inc.	109.95	55.00	116.98	-6%	3.745.1	3,777.0	239.0	324.4	27%	17.8	7%	15.8x	11.6x
ArcSoft Corporation Limited	6.79	5.00	12.54	-46%	2,755.1	2,395.8	74.9	116.7	33%	30.5	35%	32.0x	20.5x
AssetMark Financial, Inc.	29.02	22.87	29.81	-3%	2,101.0	2,139.1	403.4	327.2	15%	51.1	18%	5.3x	6.5x
Black Knight, Inc.	64.48	43.94	64.80	0%	9,521.9	11,198.8	1,162.5	1,210.8	3%	378.5	32%	9.6x	9.2x
Blackbaud, Inc.	79.60	60.00	97.35	-18%	3,814.7	4,410.5	883.8	938.1	5%	113.9	13%	5.0x	4.7x
Boxlight Corporation	1.11	1.03	4.56	-76%	12.2	20.3	39.7	44.3	14%	(4.7)	-12%	0.5x	0.5x
Castlight Health, Inc.	1.33	1.21	4.15	-68%	194.4	158.6	149.0	136.1	-5%	(30.0)	-21%	1.1x	1.2x
CDK Global, Inc.	54.68	41.50	63.90	-14%	6,638.1	9,327.5	1,963.1	2,062.4	-1%	696.8	34%	4.8x	4.5x
Cerner Corporation	73.39	50.51	76.47	-4%	23,051.6	23,590.8	5,616.0	<u>5,918.0</u>	4%	1,109.7	20%	4.2x	4.0x
CoreLogic, Inc.	43.71	32.42	49.49	-12%	3,475.8	5,251.8	1,739.5	1,719.5	-2%	357.4	20%	3.0x	3.1x
Ebix, Inc.	33.41	31.06	63.89	-48%	1,018.9	1,710.7	570.8	712.6	21%	158.8	27%	3.0x	2.4x
Envestnet, Inc.	69.63	46.83	73.94	-6%	3,653.7	4,250.8	870.3	1,034.0	14%	89.7	10%	4.9x	4.1x
HealthStream, Inc.	27.20	23.61	30.00	-9%	880.7	741.9	251.2	249.5	-2%	31.4	12%	3.0x	3.0x
Inovalon Holdings, Inc.	18.82	11.50	18.86	0%	2,916.7	3,844.4	605.2	706.2	10%	164.9	26%	6.4x	5.4x
Instructure, Inc.	48.21	36.49	54.31	-11%	1,841.1	1,763.0	258.5	303.5	17%	(65.8)	-25%	6.8x	5.8x
K12 Inc.	20.35	18.90	37.43	-46%	797.3	682.3	1,021.6	1,054.3	3%	60.2	6%	0.7x	0.6x
Pluralsight, Inc.	17.21	14.84	35.70	-52%	1.751.8	1,872.9	295.4	395.3	25%	(131.6)	-42%	6.3x	4.7x
RealPage, Inc.	53.75	44.17	65.92	-18%	4,974.0	5,441.2	960.3	1,151.0	17%	163.0	17%	5.7x	4.7x
Tabula Rasa HealthCare, Inc	c. 48.68	37.41	68.99	-29%	1,016.2	1,217.9	268.8	345.2	21%	10.6	4%	4.5x	3.5x
Tyler Technologies, Inc.	300.02	176.27	301.39	0%	11,696.7	11,526.9	1,039.6	1,210.1	11%	195.7	18%	11.1x	9.5x
Veeva Systems Inc.	140.66	82.41	176.90	-20%	20,900.2	19,432.5	1,024.9	1,388.0	27%	309.1	28%	19.0x	14.0x

# **Firm Overview**

Pagemill Partners

### A Division of DUFF&PHELPS

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Pagemill Partners, a division of Duff & Phelps, is a technology advisory firm located in the heart of Silicon Valley with representation in London and Paris.

Strong track record of execution, running

Fluency in key trends in the technology sector

Thought leaders and strategic advisors to

entrepreneurs and the PE community

bespoke and competitive processes

300+ transactions completed

Significant Transaction **Experience** 

**Deep Domain Expertise** 

### Unparalleled Access to **Buyers**

Unconflicted and Focused Approach

- Unmatched access to technology-focused financial sponsors and strategics
- Regular dialogue with key players in the eco-system
- Singular focus on technology as a sector
- Purely focused on M&A advisory services for emerging growth and middle market clients

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Global advisory focused firm ranked #4 middle market M&A advisor for the past 10 years<sup>1</sup> with 350+ corporate finance professionals and 3,500+ advisory focused professionals

- Advised on over 80 M&A transactions in 2019
- 450 transactions for over 100 PE firms in 2019
- Five dedicated industry practices, each with deep sector expertise
- Established Tech, Industrials, Services, Healthcare and Consumer practices
- Provides advisory services to 70% of Fortune 100 companies
- Global relationships across relevant industry sectors and geographies
- Across products, the firm is focused on providing advisory services
- Unconflicted as firm does not provide lending or audit services

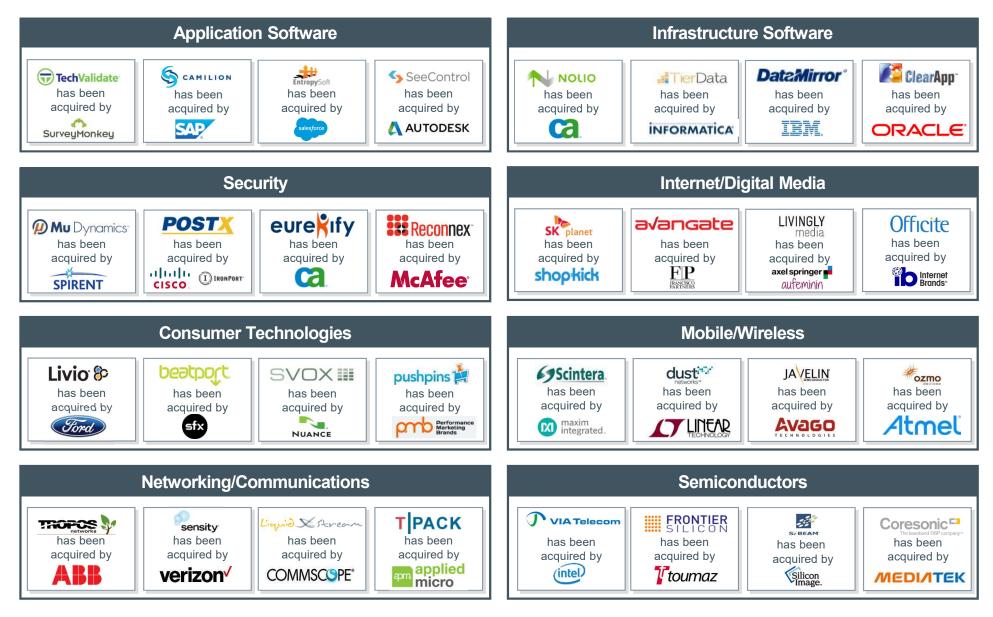
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# **Relevant Software Credentials**



# Distinguished Enterprise Software Franchise

### Pagemill has completed over 300 transactions, 80% of which are in enterprise software

- Industry leaders leveraging both SaaS and perpetual models, including companies with hybrid delivery models
- Underlying technology architecture, reliance on third-party technologies and strategic partnerships, product roadmaps, and vertical go-to-market strategies are all important attributes that we have demonstrated experience in articulating and positioning



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## About Duff & Phelps

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