



SAAS INDUSTRY UPDATE | Q1 2019

### NOTABLE & QUOTABLE

"Today, there's no one with more than 50 percent [of the commercial cloud market]. In fact, the highest application percentage of any company in any segment is sort of mid-20s. This generation will see a leader that's much more material than that, and I volunteer us to do it."

- Mark Hurd, Oracle CEO

"We see our customers as invited guests to a party, and we are the hosts. It's our job every day to make every important aspect of the customer experience a little bit better." – Jeff Bezos, Amazon CEO

"A lot of what we were trying to solve was based off us trying to scratch our own itch, as we had seen that HR management was a pain point in our personal businesses. But it was only after designing prototypes, talking to customers, and seeing if they had the same pain points that we were really able to refine our product to create something not only able to solve their pain points but something they would be willing to invest in." – **Nir Leibovich, GoCo CEO** 

PRODUCT

young SaaS companies often struggle to scale and grow at the same pace that the software itself would allow. Nacho de Marco looks at <u>the benefits of outsourcing</u> and how that can lead to outpacing competitors. While there are inherent challenges and risks associated with doing so, including managing a remote workforce and overcoming language barriers, de Marco explores the benefits that may outweigh these concerns.

With the innate ability of platforms to scale rapidly as single instance, multi-tenant solutions,

<u>Free trials don't always work</u>. Done well, free trials can be an effective tool to increase sales velocity, but they are not always the silver bullet that SaaS companies need to fuel their growth. In this write-up, Peter Cohen details what can cause free trials to fall short and outlines creative, often-unconsidered alternatives that can supplement and potientially replace free trials in some instances for SaaS companies aggressively pursuing growth.

SaaS company valuations have historically been among the highest of all categories of businesses participating in the capital markets, but toward the end of 2018, valuations took a

hit, dropping to 8.2x revenue according to the Bessemer Cloud Index. Public markets rebounded for SaaS companies during Q1 2019 to 10x revenue on average for companies in the Bessemer Cloud Index. Alex Wilhelm at Crunchbase examines <u>the drivers associated with</u> SaaS companies' historically high valuations and their implications for private market activity.

MARKETS

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#### **Upcoming Events**

Silicon Y'all October 7<sup>th</sup> – 9<sup>th</sup> Ross Bridge Resort www.siliconyall.com

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### **Quarterly Tip: Growth or Profitability – Which to Choose?**

#### Growth or Profitability – Which Should I Choose?

One of the most frequent questions we are asked by SaaS founders and entrepreneurs is whether their focus should be on growing revenues or achieving profitability, especially when it comes to the impact on Enterprise Value. It is a complicated question that presents meaningful tradeoffs unique to each company and one that companies should always feel a healthy amount of tension over. There is a difference between choosing profitability over growth and not having the ability to grow efficiently. To build Enterprise Value over time, a company has to be able to execute on an efficient growth model. Efficient growth is what drives Enterprise Value.

At our annual <u>Silicon Y'all SaaS and Internet Summit</u>, we ask this question to our Private Equity panel each year, and each year 100% of these extremely sophisticated investors indicate that they are more excited to invest in a company growing 50% and breaking even than one growing 10% with 20% EBITDA margins. However, they universally acknowledge that for operators and owners in the trenches, it isn't that simple of a decision.

#### The Case for Profitability

The simplistic purpose of every company is to produce returns for its owners. Beyond that ultimate goal, turning a profit is required to sustain a company and its employees. While serial entrepreneurs may have a war-chest from an earlier exit to fund early losses, bootstrapped companies do not have this luxury and often have to focus on getting to a breakeven level quickly before cash available for operations dries up. Recognizing this, there is no harm in managing to breakeven, especially if maximizing profitability would require taking in capital at an unappealing valuation or bringing on debt with restrictive terms (personal guarantees, risky covenants, high rates, etc.).

#### The Case for Growth

A true single-instance, multi-tenant SaaS platform has the capacity for unlimited scalability. Once the product and tech are welldeveloped and hardened, the success of a SaaS company shifts from overcoming product and execution risks (does it work and is the team strong?) to demand and capital risk (is it needed/used and how can we grow even faster?). Because of this, if SaaS companies can show strong bootstrapped growth with manageable churn, investors love to pour capital into a platform that has grown but is constrained by its own capital availability. Private equity investors are great to help think through strategic decisions and guide based on their experience, but they are looking for investments where much of the heavy lifting has already been done. With low churn and high ARR, PEGs can eventually dial back the sales and marketing spend for customer acquisition and significant profitability often results for the company for years to come.

#### What is the Right Balance between Profitability and Growth?

While they all acknowledge that it is somewhat rudimentary, PEGs examine SaaS companies based on the "Rule of 40" – that is, Growth Rate + EBITDA Margin should be greater than 40. The strongest companies are often scoring greater than 80. Therefore, as owners weigh their current options to fund growth or focus on achieving a profitability hurdle, they can determine how to effectively budget growth-driving expenses like sales and marketing, development, conference sponsorship/participation, etc. against the anticipated impact to their bottom line.

Ultimately, having a proven growth model is the key for investors and drives valuation upward. Sophisticated investors recognize that some companies may have had to choose profitability over spending for continued growth, but their capital can assist by efficiently increasing sales and marketing expenses in channels that historically have yielded fruit. If it is not clear to an investor that a company has a model for growth, the investment will be less attractive and valuations suppressed. In understanding the growth model, they'll key in on unit economics – if you can point to past trends around successful sales and marketing campaigns, they'll be excited to pour fuel on that fire.

### Silicon Y'all – SaaS & Internet Summit 2019

From October 7<sup>th</sup> – 9<sup>th</sup>, Founders will host its 7<sup>th</sup> annual SaaS & Internet Summit – Silicon Y'all. For 2019, we're bringing the event back to Alabama to show off the best of our home state! The 2018 event continued to build on previous years, and we look forward to an even better event in 2019. The summit continues as a unique 2-day gathering, limited to 60 operating company CEOs and 15 professionals from leading private equity firms and acquisitive strategic organizations. Attendees will engage in targeted discussions about growth, value, and current trends in the SaaS, Internet and Payment sectors, while also participating in a variety of activities and networking opportunities. For more information, please visit <u>SiliconYall.com</u> and click here to join the 2019 waitlist.



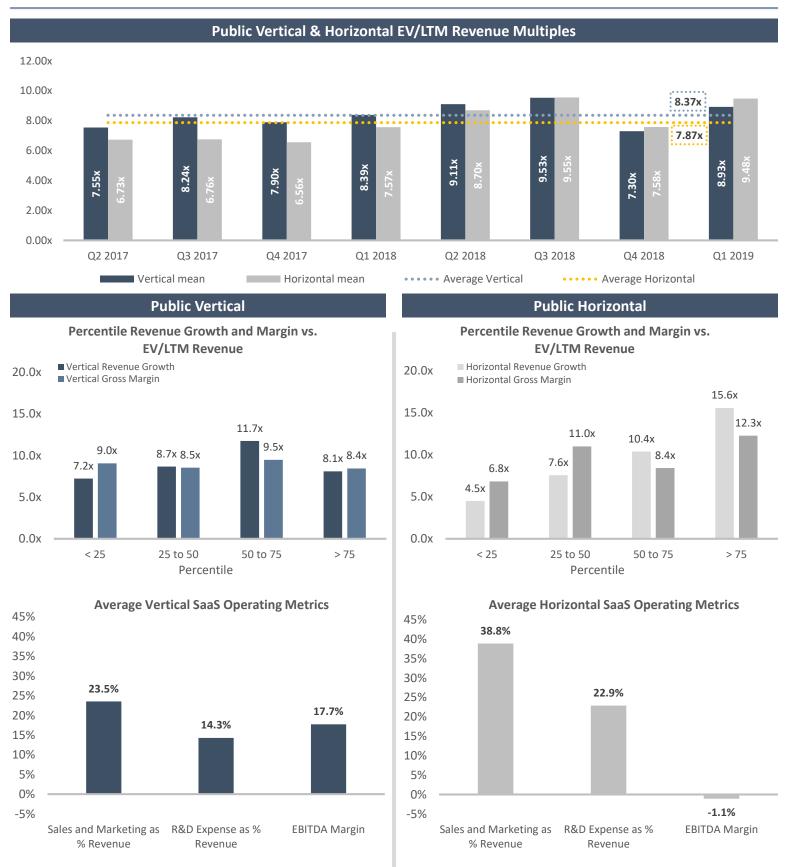


# **Recent Transactions**

Announced Date	Target	Buyer	Purchase Price	LTM Revenue	LTM EBITDA	Enterprise Value / LTM Revenue	Enterprise Value / LTM EBITDA
01/23/2019	TRENDKITE	CISION	\$224	\$25	N/A	8.8x	N/A
01/31/2019	Catalyst	opentext	\$75	N/A	N/A	N/A	N/A
02/01/2019	MICROPACT		\$204	\$70	N/A	2.9x	N/A
02/04/2019		Hellman & Friedman	\$10,822	\$1,140	\$123	9.5x	88.0x
02/07/2019		CARBONITE	\$618	\$215	N/A	2.9x	N/A
02/12/2019	EllieMae	THOMABRAVO	\$3,380	\$480	\$57	7.0x	59.6x
02/13/2019	Platform Assets	brightcove <sup>,</sup>	\$15	N/A	N/A	N/A	N/A
02/15/2019	JAGGED PEAK. Enterprise Commerce Made Easy	Singapore POST	\$38	N/A	N/A	N/A	N/A
02/19/2019	DEMISTO		\$560	N/A	N/A	N/A	N/A
02/21/2019	Avalara	WARBURG PINCUS Position Exited	\$3,125	\$272	N/A	11.5x	N/A
03/08/2019	Cetus labs	navis	\$15	N/A	N/A	N/A	N/A
03/10/2019	figure eight	¢abbeu.	\$300	\$29	N/A	10.2x	N/A
03/14/2019	PIEtech	ENVESTNET	\$500	N/A	N/A	N/A	N/A
03/18/2019		CURTISS - WRIGHT	\$50	\$15	N/A	3.3x	N/A
03/22/2019	≝eFront	BLACKROCK	\$1,300	N/A	N/A	N/A	N/A
03/28/2019	ipswitch	Progress <sup>®</sup>	\$225	\$75	N/A	3.0x	N/A



### **METRICS OVERVIEW**



TOUNDERS ADVISORS

### **VALUATION & GROWTH METRICS**

### FA SaaS Index - Valuation & Growth - As of Q1 2019

(In millions)

			LTM	YoY		LTM	Enterprise	
Ticker	Company Name	F	Revenue	Growth		EBITDA	LTM Revenue	LTM EBITDA
	aaS Companies							
TWOU	2U, Inc.	\$	441.7	40.6%	\$	(17.9)	8.9x	NN
APPF	AppFolio, Inc.	\$	204.8	33.0%	\$	21.8	13.9x	107.9
BKI	Black Knight, Inc.	\$	1,126.8	5.9%	\$	361.0	8.4x	25.9
BLKB	Blackbaud, Inc.	\$	860.3	6.5%	\$	121.6	4.9x	30.93
EBIX	Ebix, Inc.	\$	532.5	35.5%	\$	169.0	4.3x	13.1
FDS	FactSet Research Systems Inc.	\$	1,392.3	6.8%	\$	471.1	7.0x	20.7
INOV	Inovalon Holdings, Inc.	\$	580.4	33.8%	\$	155.0	5.2x	23.4
INST	Instructure, Inc.	\$	219.6	25.9%	\$	(45.5)	7.3x	NN
MDSO	Medidata Solutions, Inc.	\$	660.0	16.7%	\$	80.6	6.7x	49.7
MCO	Moody's Corporation	\$	4,458.1	2.4%	\$	2,087.6	8.6x	18.0
QTWO	Q2 Holdings, Inc.	\$	257.6	26.1%	\$	(24.4)	12.5x	NN
RP	RealPage, Inc.	\$	902.5	25.5%	\$	146.6	6.8x	42.0>
SPSC	SPS Commerce, Inc.	\$	256.1	12.7%	\$	43.2	6.9x	43.3>
TEMN	Temenos AG	\$	871.9	13.9%	\$	256.2	12.9x	44.9>
TYL	Tyler Technologies, Inc.	\$	961.2	11.5%	\$	190.1	8.2x	39.9
VEEV	Veeva Systems Inc.	\$	862.2	24.9%	\$	236.9	20.3x	73.8
	Min	\$	204.8	2.4%	\$	(45.5)	4.3x	13.1
	Median	\$	760.1	20.8%	\$	150.8	7.7x	39.9
	Mean	\$	911.7	20.1%	\$	265.8	8.9x	41.0
	Max	\$	4,458.1	40.6%	\$	2,087.6	20.3x	107.9>
Horizonta	l SaaS Companies							
EGHT	8x8, Inc.	\$	352.6	18.9%	\$	(76.1)	5.4x	NM
ADBE	Adobe Inc.	\$	9,552.0	24.1%	\$	3,247.3	13.7x	40.3
ALRM	Alarm.com Holdings, Inc.	\$	440.1	23.1%	\$	75.2	7.2x	40.2
AMBR	Amber Road, Inc.	\$	86.2	7.0%	\$	(6.6)	3.1x	NN
TEAM	Atlassian Corporation Plc	\$	1,115.1	37.9%	\$	6.3	25.3x	NN
BNFT	Benefitfocus, Inc.	\$	264.7	9.6%	\$	(24.9)	6.3x	NN
BL	BlackLine, Inc.	\$	240.6	27.5%	\$	(12.4)	10.6x	NN
вох	Box, Inc.	\$	608.4	20.2%	\$	(87.9)	4.4x	NN
BCOV	Brightcove Inc.	\$	165.5	3.7%	\$	(7.9)	1.7x	NN
CARB	Carbonite, Inc.	\$	313.6	27.3%	\$	33.8	2.6x	25.8
CSLT	Castlight Health, Inc.	\$	155.4	10.4%	\$	(29.7)	3.0x	NN
ECOM	Channel Advisor Corporation	\$	131.3	4.5%	\$	0.1	2.2x	NN
CTXS	Citrix Systems, Inc.	\$	2,995.9	4.8%	\$	802.8	4.6x	16.5
CSOD	Cornerstone OnDemand, Inc.	\$	544.9	8.2%	\$	16.1	5.9x	240.6
COUP	Coupa Software Incorporated	\$	260.4	39.4%	\$	(38.2)	20.8x	NN
DOCU	DocuSign, Inc.	\$	701.0	35.2%	\$	(391.0)	12.1x	NN
EGAN	eGain Corporation	\$	66.0	9.4%	\$	5.2	4.7x	70.5
EVBG	Everbridge, Inc.	\$	159.4	42.3%	\$	(36.6)	16.7x	NN
FIVN	Five9, Inc.	\$	273.3	28.8%	\$	18.7	11.8x	171.3
HUBS	HubSpot, Inc.	Ś	550.2	34.9%	\$	(32.6)	12.8x	NN
INTU	Intuit Inc.	Ś	6,233.0	10.7%	\$	1,779.0	10.7x	37.6
KXS	Kinaxis Inc.	Ś	159.6	16.0%	\$	30.1	8.7x	48.5
LPSN	LivePerson, Inc.	\$	258.0	14.1%	\$	(11.6)	7.2x	NN
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## VALUATION & GROWTH METRICS, CONT'D

		LTM	YoY	LTM	Enterprise	e Value /
Ticker	Company Name	 Revenue	Growth	 EBITDA	LTM Revenue	LTM EBITDA
Horizonta	al SaaS Companies					
LOGM	LogMeIn, Inc.	\$ 1,232.5	14.0%	\$ 344.8	3.4x	11.7x
MIME	Mimecast Limited	\$ 340.4	30.0%	\$ 28.6	9.0x	112.7x
MOBL	MobileIron, Inc.	\$ 197.6	9.0%	\$ (38.6)	2.5x	NM
MODN	Model N, Inc.	\$ 146.3	(1.3%)	\$ (14.8)	3.7x	NM
NEWR	New Relic, Inc.	\$ 479.2	35.0%	\$ (9.3)	12.0x	NM
PAYC	Paycom Software, Inc.	\$ 612.4	31.0%	\$ 205.6	19.1x	56.6x
PCTY	Paylocity Holding Corporation	\$ 443.9	24.3%	\$ 60.0	11.0x	105.8x
PEGA	Pegasystems Inc.	\$ 868.9	0.2%	\$ (25.2)	5.5x	NM
PFPT	Proofpoint, Inc.	\$ 757.5	33.7%	\$ (30.9)	9.1x	NM
QLYS	Qualys, Inc.	\$ 289.4	19.3%	\$ 85.8	10.7x	37.5x
RNG	RingCentral, Inc.	\$ 724.8	33.8%	\$ 6.7	12.7x	NM
CRM	salesforce.com, inc.	\$ 13,282.0	26.0%	\$ 1,524.0	9.1x	79.5x
SCWX	SecureWorks Corp.	\$ 518.7	10.9%	\$ (7.5)	2.6x	NM
NOW	ServiceNow, Inc.	\$ 2,808.5	35.1%	\$ 134.8	16.7x	NM
SHOP	Shopify Inc.	\$ 1,179.4	55.1%	\$ (84.9)	19.6x	NM
SMAR	Smartsheet Inc.	\$ 177.7	59.7%	\$ (47.4)	22.9x	NM
DATA	Tableau Software, Inc.	\$ 1,191.6	29.1%	\$ (91.5)	8.6x	NM
ULTI	The Ultimate Software Group, Inc.	\$ 1,198.8	21.2%	\$ 117.0	9.0x	83.8x
UPLD	Upland Software, Inc.	\$ 166.8	53.3%	\$ 40.2	7.8x	34.0x
VRNS	Varonis Systems, Inc.	\$ 273.1	19.1%	\$ (30.9)	6.0x	NM
WIX	Wix.com Ltd.	\$ 640.2	36.0%	\$ (27.6)	9.1x	NM
WDAY	Workday, Inc.	\$ 2,822.2	31.7%	\$ (240.2)	15.0x	NM
WK	Workiva Inc.	\$ 254.4	17.8%	\$ (34.3)	8.9x	NM
YEXT	Yext, Inc.	\$ 228.3	34.1%	\$ (68.8)	9.8x	NM
ZEN	Zendesk, Inc.	\$ 650.4	39.6%	\$ (114.9)	15.4x	NM
ZIXI	Zix Corporation	\$ 83.1	25.1%	\$ 7.2	4.8x	23.9x
ZUO	Zuora, Inc.	\$ 235.2	40.1%	\$ (68.3)	8.5x	NM
	Min	\$ 66.0	(1.3%)	\$ (391.0)	1.7x	11.7x
	Median	\$ 396.3	24.7%	\$ (8.6)	8.9x	44.4x
	Mean	\$ 1,148.6	24.4%	\$ 137.6	9.5x	68.7x
	Max	\$ 13,282.0	59.7%	\$ 3,247.3	25.3x	240.6x



### **OPERATING STATISTICS**

### FA SaaS Index - Operating Statistics - As of Q1 2019

		COGS	Gross	SG&A	R&D Expense	Sales & Marketing	EBITDA
Ticker	Company Name	As a % of Revenue	Margin	As a % of Revenue	As a % of Revenue	As a % of Revenue	Margin
Vertical S	SaaS Companies						
TWOU	2U, Inc.	22.1%	77.9%	74.1%	15.8%	55.4%	(4.1%)
APPF	AppFolio, Inc.	39.1%	60.9%	31.4%	18.9%	18.1%	10.6%
BKI	Black Knight, Inc.	55.5%	44.5%	1.0%	0.2%	N/A	32.0%
BLKB	Blackbaud, Inc.	45.6%	54.4%	35.4%	13.7%	23.6%	14.1%
EBIX	Ebix, Inc.	32.8%	67.2%	27.6%	8.3%	3.7%	31.7%
FDS	FactSet Research Systems Inc.	47.3%	52.7%	23.1%	15.6%	N/A	33.8%
INOV	Inovalon Holdings, Inc.	25.6%	74.4%	42.5%	5.2%	8.8%	26.7%
INST	Instructure, Inc.	30.1%	69.9%	65.3%	31.2%	46.7%	(20.7%)
MDSO	Medidata Solutions, Inc.	25.6%	74.4%	41.9%	26.0%	24.0%	12.2%
MCO	Moody's Corporation	28.5%	71.5%	24.6%	1.1%	N/A	46.8%
QTWO	Q2 Holdings, Inc.	51.3%	48.7%	39.7%	24.8%	20.6%	(9.5%)
RP	RealPage, Inc.	38.3%	61.7%	31.4%	18.7%	19.0%	16.2%
SPSC	SPS Commerce, Inc.	32.6%	67.4%	45.1%	9.0%	27.7%	16.9%
TEMN	Temenos AG	28.2%	71.8%	27.4%	N/A	17.4%	29.4%
TYL	Tyler Technologies, Inc.	52.9%	47.1%	22.5%	7.2%	N/A	19.8%
VEEV	Veeva Systems Inc.	28.4%	71.6%	27.3%	18.5%	17.3%	27.5%
	Min	22.1%	44.5%	1.0%	0.2%	3.7%	(20.7%)
	Median	32.7%	67.3%	31.4%	15.6%	19.8%	18.3%
	Mean	36.5%	63.5%	35.0%	14.3%	23.5%	17.7%
	Max	55.5%	77.9%	74.1%	31.2%	55.4%	46.8%
	al SaaS Companies	26.00/	62.40/	74.20/	47.00	50 5%	(24.69())
EGHT	8x8, Inc.	36.9%	63.1%	71.3%	17.6%	50.5%	(21.6%)
ADBE	Adobe Inc.	14.0%	86.0%	37.8%	17.3%	29.5%	34.0%
ALRM	Alarm.com Holdings, Inc.	35.5%	64.5%	24.8%	22.5%	13.2%	17.1%
AMBR	Amber Road, Inc.	43.6%	56.4%	50.9%	18.8%	26.2%	(7.6%)
TEAM	Atlassian Corporation Plc	17.3%	82.7%	39.7%	48.8%	21.7%	0.6%
BNFT	Benefitfocus, Inc.	49.4%	50.6%	46.4%	20.1%	29.4%	(9.4%)
BL	BlackLine, Inc.	22.0%	78.0%	76.8%	18.7%	56.3%	(5.2%)
BOX	Box, Inc.	28.5%	71.5%	66.6%	26.9%	51.3%	(14.5%)
BCOV	Brightcove Inc.	40.0%	60.0%	48.2%	20.7%	34.3%	(4.8%)
CARB	Carbonite, Inc.	22.8%	77.2%	46.1%	19.7%	27.9%	10.8%
CSLT	Castlight Health, Inc.	38.2%	61.8%	45.4%	40.2%	28.6%	(19.1%)
ECOM	ChannelAdvisor Corporation	22.6%	77.4%	65.4%	16.6%	45.3%	0.1%
CTXS	Citrix Systems, Inc.	12.9%	87.1%	47.6%	17.1%	36.6%	26.8%
CSOD	Cornerstone OnDemand, Inc.	25.9%	74.1%	57.0%	21.0%	40.4%	2.9%
COUP	Coupa Software Incorporated	32.1%	67.9%	61.8%	24.9%	40.6%	(14.7%)
DOCU	DocuSign, Inc.	27.2%	72.8%	106.8%	26.9%	77.0%	(55.8%)
EGAN	eGain Corporation	33.3%	66.7%	38.5%	22.3%	26.0%	7.9%
EVBG	Everbridge, Inc.	32.1%	67.9%	67.6%	32.6%	46.4%	(23.0%)
FIVN	Five9, Inc.	40.3%	59.7%	43.5%	13.5%		6.8%
HUBS	HubSpot, Inc.	19.5%	80.5%	65.8%	24.7%	51.3%	(5.9%)
INTU	Intuit Inc.	16.8%	83.2%	38.6%	19.5%	28.1%	28.5%
KXS	Kinaxis Inc.	30.8%	69.2%	36.3%	18.1%		18.8%
LPSN	LivePerson, Inc.	26.0%	74.0%	61.1%	23.5%		(4.5%)
LOGM	LogMeIn, Inc.	24.0%	76.0%	44.8%	15.7%		28.0%
MIME	Mimecast Limited	26.7%	73.3%	56.7%	17.0%	40.9%	8.4%



# **OPERATING STATISTICS, CONT'D**

		COGS	Gross	SG&A	R&D Expense	Sales & Marketing	EBITDA
Ticker	Company Name	As a % of Revenue	Margin	As a % of Revenue	As a % of Revenue	As a % of Revenue	Margin
Horizont	al SaaS Companies						
MOBL	MobileIron, Inc.	18.8%	81.2%	62.9%	39.8%	48.1%	(19.6%)
MODN	Model N, Inc.	44.2%	55.8%	50.4%	20.6%	23.7%	(10.1%)
NEWR	New Relic, Inc.	16.2%	83.8%	68.6%	22.7%	53.6%	(1.9%)
PAYC	Paycom Software, Inc.	13.1%	86.9%	42.5%	8.7%	24.7%	33.6%
PCTY	Paylocity Holding Corporation	34.4%	65.6%	45.5%	13.9%	24.2%	13.5%
PEGA	Pegasystems Inc.	34.6%	65.4%	50.8%	21.4%	45.3%	(2.9%)
PFPT	Proofpoint, Inc.	27.7%	72.3%	60.8%	25.7%	48.1%	(4.1%)
QLYS	Qualys, Inc.	23.5%	76.5%	37.6%	19.5%	24.6%	29.7%
RNG	RingCentral, Inc.	23.8%	76.2%	63.9%	14.9%	49.0%	0.9%
CRM	salesforce.com, inc.	26.0%	74.0%	55.6%	14.2%	45.7%	11.5%
SCWX	SecureWorks Corp.	47.4%	52.6%	45.1%	16.9%	27.3%	(1.5%)
NOW	ServiceNow, Inc.	23.7%	76.3%	56.8%	20.8%	45.6%	4.8%
SHOP	Shopify Inc.	44.7%	55.3%	42.1%	22.3%	32.0%	(7.2%)
SMAR	Smartsheet Inc.	19.0%	81.0%	78.8%	33.7%	59.7%	(26.7%)
DATA	Tableau Software, Inc.	12.6%	87.4%	64.9%	33.7%	51.8%	(7.7%)
ULTI	The Ultimate Software Group, Inc.	38.1%	61.9%	37.5%	19.4%	25.0%	9.8%
UPLD	Upland Software, Inc.	31.6%	68.4%	35.1%	13.7%	14.1%	24.1%
VRNS	Varonis Systems, Inc.	10.7%	89.3%	74.2%	26.8%	61.2%	(11.3%)
WIX	Wix.com Ltd.	21.5%	78.5%	51.9%	32.9%	41.8%	(4.3%)
WDAY	Workday, Inc.	29.6%	70.4%	43.0%	42.9%	31.6%	(8.5%)
WK	Workiva Inc.	27.1%	72.9%	55.1%	32.8%	37.2%	(13.5%)
YEXT	Yext, Inc.	25.2%	74.9%	92.2%	15.8%	69.6%	(30.2%)
ZEN	Zendesk, Inc.	30.4%	69.6%	66.0%	26.1%	48.9%	(17.7%)
ZIXI	Zix Corporation	27.4%	72.6%	55.6%	15.0%	N/A	8.7%
ZUO	Zuora, Inc.	49.6%	50.4%	59.5%	23.7%	42.8%	(29.0%)
	Min	10.7%	50.4%	24.8%	8.7%	13.2%	(55.8%)
	Median	27.1%	72.9%	53.5%	20.8%	40.4%	(3.5%)
	Mean	28.4%	71.6%	54.8%	22.9%	38.8%	(1.1%)
	Max	49.6%	89.3%	106.8%	48.8%	77.0%	34.0%



### **BALANCE SHEET METRICS**

#### FA SaaS Index - Balance Sheet Metrics - As of Q1 2019

Ticker         Company Name         Assets         Equity         Ratio         Outstanding         Outstanding         Assets         Equity           Vertical Sas Companies         - <th></th> <th></th> <th>Return on</th> <th>Return on</th> <th>Current</th> <th>Days Sales</th> <th>Days Payable</th> <th>Liabilities/</th> <th>Debt/</th>			Return on	Return on	Current	Days Sales	Days Payable	Liabilities/	Debt/
Vertical SaaS Companies         1         0         1         0         1         0           TWOU         ZU, Inc.         (6.8%)         (6.3%)         5.1x         45.7         81.3         19.6%         9.0%           BKB         Black Kright, Inc.         4.4%         9.6%         1.2x         63.4         35.1         54.7%         93.6%           BKB         Black Kright, Inc.         7.3%         0.7x         38.1         26.2         78.5%         132.4%           EBIX         Ebix, Inc.         7.1%         16.5%         1.5x         95.8         74.4         34.5         59.1%         95.9%           INOV         Inovalon Holdings, Inc.         2.0%         (4.7%)         1.9x         61.6         76.4         65.3%         152.2%           INST         Instructure, Inc.         1.20%         (34.4%)         1.4x         34.4         34.5         52.4%         31.9%         50.5%         15.2%         32.4%         10.27         7.4         96.6%         139.5%         10.5%         13.5%         13.6%         63.5%         11.2%         63.5%         11.4%         13.9%         63.7%         13.4%         63.5%         13.4%         64.5%         64.5%	Ticker	Company Name				-			
TWOU         2U, Inc.         (4.8%)         (6.3%)         5.1x         45.7         81.3         10.6%         9.0%           BK         Black Knight, Inc.         2.3%         7.3%         0.7x         38.1         26.2         78.5%         112.4%           BK         Bki, Inc.         2.3%         7.3%         0.7x         38.1         26.2         78.5%         112.4%           BVB         Back, Knight, Inc.         2.3%         7.3%         0.7x         38.1         26.2         78.5%         112.4%           FDS         FactSet Research Systems Inc.         17.6%         51.6%         2.5x         44.8         34.5         59.1%         52.2%           INOT         Instructure, Inc.         (12.0%)         (34.3%)         1.4x         43.4         34.5         52.2%         31.9%           MCO         Modory's Corporation         12.8%         353.3%         1.4x         10.2.7         7.4         96.6%         11895.6%           RP         RealPage, Inc.         2.7%         4.4%         0.8x         103.9         214.0         77.8%         19.4%           VEV         Veve Systems Inc.         9.7%         21.4%         33.5%         11.4         4.5		· · · ·							Equity
APPF         AppColidy, Inc.         6.8%         20.7%         1.5x         11.1         6.1         52.6%         76.4%           BIK         Black Neight, Inc.         2.3%         7.3%         0.7x         38.1         26.2         78.5%         112.4%           BIK         Black Neight, Inc.         7.3%         15.5%         1.5x         95.8         207.2         64.0%         134.4%           EBIK         Ebix, Inc.         17.6%         51.6%         1.5x         95.8         207.2         64.0%         134.4%           INT         Instructure, Inc.         11.0%         (12.0%)         (13.4%)         1.4x         43.4         34.5         52.4%         33.3%           INST         Instructure, Inc.         1.2.6%         9.1%         2.6%         86.1         17.6         36.1%         31.3%           OWCO         Modely S Corporation         1.2.8%         35.3%         1.44         34.5         23.0         68.9%         144.2%           VEW         Real/Bage, Inc.         5.7%         2.14%         38.7         31.0         49.4%         66.0%           SPS Commerce, Inc.         5.0%         8.9%         4.8%         38.7         31.0         49.4% <td></td> <td></td> <td>(4.8%)</td> <td>(8.3%)</td> <td>5 1x</td> <td>45 7</td> <td>81 3</td> <td>19.6%</td> <td>9.0%</td>			(4.8%)	(8.3%)	5 1x	45 7	81 3	19.6%	9.0%
Bit         Black knight, Inc.         4.4%         9.6%         1.2x         6.3.4         35.1         54.7%         93.6%           BitkB         Bitakbaud, Inc.         2.3%         7.3%         0.7x         83.1         26.2         76.4%         192.4%           EBIK         EactSet Research Systems Inc.         17.6%         51.6%         1.5x         95.8         207.2         64.0%         134.4%           FDS         FactSet Research Systems Inc.         17.6%         51.6%         1.5x         95.8%         105.7         64.16         17.6         45.13         31.3%           INST         Instructure, Inc.         (12.0%)         (34.3%)         1.4x         102.7         7.4         96.6%         1895.6%           QTWO         Q2 Holdings, Inc.         (5.1%)         (31.7%)         2.1x         26.5         23.0         68.9%         144.2%           VEV         Vee Systems Inc.         9.7%         21.4%         0.8x         10.3         21.8%         6.4%           TN         Tyler Technologies, Inc.         5.3%         10.5%         10.0x         97.9         4.5         28.8%         6.4%           Mealan         4.7%         9.3%         1.5x         63.6<									
BitKB         BitKB         BitKB         BitKB         BitKB         BitK         BitKB         BitKB <thb< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thb<>									
EBIX         Ebix, Inc.         7.1%         15.5%         1.5x         95.8         207.2         64.0%         134.4%           FDS         FactSet Research Systems Inc.         17.6%         51.6%         2.5x         44.8         34.5         59.1%         95.5%           INST         Instructure, Inc.         (12.0%)         (14.7%)         1.9x         61.6         76.4         65.3%         132.8%           MDSO         Medidata Solutions, Inc.         2.6%         9.1%         2.6x         86.1         17.6         36.1%         31.9%           MCO         Moody's Corporation         12.8%         353.3%         1.4k         102.7         7.4         96.6%         1895.6%           RP         RealPage, Inc.         2.7%         4.4%         0.8k         35.7         31.0         49.4%         66.0%           SPSC         SPS Commerce, Inc.         5.0%         8.9%         4.8k         38.7         17.2         18.8%         6.4%           TLW         Type Technologies, Inc.         5.3%         10.0%         1.0k         97.9         4.5         28.8%         8.1%           VEV         Veew Systems Inc.         9.7%         21.4%         30.5k         11.8		-							
FDS       FactSet Research Systems Inc.       17.6%       51.6%       2.5x       44.8       34.5       59.1%       95.3%         INOV       Inovalon Holdings, Inc.       2.0%       (4.7%)       1.4x       43.4       34.5       52.4%       33.9%         MDSO       Medidata Solutions, Inc.       2.6%       9.1%       2.6k       86.1       17.6       36.1%       31.9%         MCO       Mody's Corporation       12.8%       353.3%       1.4x       102.7       7.4       96.6%       1895.6%         QTWO       Q2 Holdings, Inc.       (5.1%)       (31.7%)       2.1x       25.5       23.0       68.9%       144.2%         SPSC       SPS Commere, Inc.       5.0%       8.9%       4.8x       38.7       17.2       18.8%       66.0%         SPSC       SPS Commere, Inc.       5.3%       10.0%       7.4       9.6       52.8%       8.3%         TVL       Tyler Echnologies, Inc.       5.3%       10.0%       7.4       9.6       52.8%       8.3%         VEV       Veeva Systems Inc.       9.7%       21.4%       3.6x       118.4       11.9       25.2%       N/A         Median       4.7%       9.3%       1.5x       53.6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
INOV         Inovalon Holdings, Inc.         2.0%         (4.7%)         1.9x         61.6         7.6.4         65.3%         152.7%           INST         Instructure, Inc.         (12.0%)         (34.3%)         1.4x         43.4         34.5         52.4%         33.3%           MCO         Medidata Solutions, Inc.         2.6%         33.3%         1.4x         102.7         7.4         96.6%         11.895.6%           MCO         Moddy's Corporation         12.8%         353.3%         1.4x         102.7         7.4         96.6%         11.895.6%           SPC         SPC comparce, Inc.         2.7%         4.4%         0.8x         45.7         31.0         49.4%         66.0%           SPC         SPC commerce, Inc.         5.3%         10.5%         1.0x         97.9         4.5         2.8.8%         8.1%           TV         Typer Technologies, Inc.         5.3%         10.5%         1.0x         97.9         4.5         2.8.8%         8.1%           VEV         Veve systems Inc.         9.7%         21.4%         3.6x         111.1         4.5         18.8%         6.4%           Meain         4.7%         9.3%         1.5x         53.6         28.6									
INST         Instructure, Inc.         (12.0%)         (34.3%)         1.4x         43.4         34.5         52.4%         33.9%           MDSO         Medidata Solutions, Inc.         2.6%         9.1%         2.6x         86.1         17.6         36.1%         31.9%           MCO         Moody's Corporation         12.8%         353.3%         1.4x         102.7         7.4         9.6%         1492.5%           QTWO         Q2 Holdings, Inc.         5.7%         (31.7%)         2.1x         26.5         23.0         68.9%         144.2%           SPSC         SPS Commerce, Inc.         5.0%         8.9%         4.8x         38.7         17.2         18.8%         6.60%           SPSC         SPS Commerce, Inc.         5.3%         10.5%         1.0x         97.9         4.5         2.8.8%         8.3%           VEV         Veera Systems Inc.         9.7%         21.4%         0.7x         11.1         4.5         18.8%         6.4%           Meain         4.7%         30.3%         2.1x         66.0         51.7         53.0%         209.0%         Max         17.6%         35.3%         51.1         18.4         214.0         96.6%         1895.6%									
MDSO         Medidata Solutions, Inc.         2.6%         9.1%         2.6%         86.1         17.6         3.1.4%         18.95.6%           MCO         Moody's Corporation         12.8%         353.3%         1.4x         102.7         7.4         96.6%         1895.6%           RP         RealPage, Inc.         2.7%         4.4%         0.8x         45.7         31.0         49.4%         66.9%           SPC         SPS Commerce, Inc.         5.0%         8.9%         4.8x         38.7         71.2         18.8%         6.4%           TENN         Ternenos AG         10.0%         47.4%         0.8x         10.3.9         214.0         77.8%         193.3%           VEV         Veva Systems Inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Mealan         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           VEEV         Veva Systems Inc.         10.3%         2.97%         1.0x         45.8         77.7         49.4%         4.4%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6% <tr< td=""><td></td><td><b>-</b> .</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>		<b>-</b> .							
NCO         Moody's Corporation         12.8%         353.3%         1.4x         102.7         7.4         96.6%         11935.6%           QTWO         02 Holdings, Inc.         (5.1%)         (31.7%)         2.1x         26.5         23.0         68.9%         144.2%           PR         RealPage, Inc.         5.0%         8.9%         4.8x         38.7         17.2         18.8%         6.64%           SPS Commerce, Inc.         5.3%         10.0%         47.4%         0.8x         103.9         214.0         77.8%         194.3%           TVL         Tyler Technologies, Inc.         5.3%         10.5%         1.0x         97.9         4.5         28.8%         8.1%           VEV         Veeva Systems Inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         920.9%           Max         17.6%         33.3%         5.1x         118.4         214.0         96.6%         1895.6%           CEHT         8.4%, Inc.         (13.8%)         (37.9%)         5.3x         21.8         7.49.64%         46.6%           <									
OTWO         Q2 Holdings, Inc.         (5.1%)         (31.7%)         2.1x         26.5         23.0         68.9%         144.2%           RP         RealPage, Inc.         2.7%         4.4%         0.8x         45.7         31.0         49.4%         66.0%           SPC         PS Commerce, Inc.         5.0%         8.9%         4.8x         38.7         17.2         18.8%         6.4%           TEMN         Temenos AG         10.0%         47.4%         0.8x         103.9         214.0         77.8%         193.3%           VEV         Veva Systems Inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         11.8.4         214.0         96.6%         1995.6%           Horizontal Saac Companies         E         E         E         E         E         E         E         E         E         E         E         E									
RP         RealPage, Inc.         2.7%         4.4%         0.8x         45.7         31.0         49.4%         66.0%           SPSC SPS Commerce, Inc.         5.0%         8.9%         4.8x         38.7         17.2         18.8%         6.4%           TEMN         Tremons AG         10.0%         47.4%         0.8x         103.9         214.0         77.8%         19.3%           TVL         Tyler Technologies, Inc.         5.3%         10.5%         1.0x         97.9         4.5         28.8%         8.1%           VEV         Veeva Systems Inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Median         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           ADE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         94.4%         41.9%           ABR         Amber Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           MBR									
SPSC SPS Commerce, Inc.         5.0%         8.9%         4.8x         38.7         17.2         18.8%         6.4%           TEMN Termenos AG         10.0%         47.4%         0.8x         103.9         214.0         77.8%         194.3%           VEV         Vereva Systems Inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Min         (12.0%)         (34.3%)         0.7x         11.1         4.5         18.8%         6.4%           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           Perizontal Sas Companies           E           EGHT         8.4%, Inc.         (13.8%)         637.9%)         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.3x         18.0         66.1		-							
TEMN         Temenos AG         10.0%         47.4%         0.8x         103.9         214.0         77.8%         194.3%           TYL         Tyler Technologies, Inc.         5.3%         10.5%         1.0x         97.9         4.5         28.8%         8.1%           VEEV         Versa         5.3%         10.5%         1.0x         97.9         4.5         28.8%         8.1%           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           Horizontal         SaaS         Companies         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         30.7         29.1%         37.1           BNFT         Benetifrocus, Inc.         (9.0%		-							
TYL VEEV         Tyler Technologies, Inc.         5.3%         10.5%         1.0x         97.9         4.5         28.8%         8.1%           VEEV         Veeva Systems inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Min         (12.0%)         (34.3%)         0.7x         11.1         4.5         18.8%         6.4%           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           EGHT         8x8, Inc.         (13.8%)         (37.9%)         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         2.0%         1.0x         45.3         37.7         49.4%         41.93         73.1%         73.1%           AIRM         Alarm.com Hodings, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           B									
VEEV         Veeva Systems Inc.         9.7%         21.4%         3.6x         118.4         11.9         25.2%         N/A           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         118.4         21.0         96.6%         1995.6%           Portional SaaS Companies           EGHT         & 8.6, Inc.         (13.8%)         (37.9%)         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alamos moldings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.13           ALBR         Anber Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           BNFT         BenefitSocus, Inc.         (9.9%)         N/A         2.7x         58.9         14.4         103.0%									
Min         (12.0%)         (34.3%)         0.7x         11.1         4.5         18.8%         6.4%           Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           Horizontal SaaS Companies         E         E         64.0%         5.3x         21.8         78.9         54.4%         86.6%           ADEE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.1%           AMBR         Amber Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.		-							
Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           Horizontal SaaS Companies           EGHT         8x8, Inc.         (13.8%)         (37.9%)         5.5x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.1%           AMBR         Ather Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         10.13%           BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.         (5.1%)         (23.8%)         0.9x         37.1         81.6%         22.2.16%	VLLV	veeva systems nic.	9.770	21.470	3.04	110.4	11.9	23.270	NA
Median         4.7%         9.3%         1.5x         53.6         28.6         53.6%         93.6%           Mean         4.1%         30.1%         2.1x         64.0         51.7         53.0%         209.0%           Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           Horizontal SaaS Companies           EGHT         8x8, Inc.         (13.8%)         (37.9%)         5.5x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.1%           AMBR         Ather Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         10.13%           BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.         (5.1%)         (23.8%)         0.9x         37.1         81.6%         22.2.16%		Min	(12.0%)	(34.3%)	0.7x	11.1	4.5	18.8%	6.4%
Mean Max         4.1% 17.6%         30.1% 353.3%         2.1x 5.1x         64.0         51.7         53.0% 214.0         209.0% 96.6%           Horizontal SaaS Companies           EGHT         8x8, Inc.         (13.8%)         (37.9%)         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarn.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.1%           AMBR         Amber Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           TEAM         Atlassian Corporation Plc         (1.2%)         (54.3%)         3.3         18.0         46.1         75.9%         122.1%           BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.         (4.0%)         (9.2%)         1.3x         98.1         37.1         85.6         82.8           CARB         Carbonite, Inc.         0.3									93.6%
Max         17.6%         353.3%         5.1x         118.4         214.0         96.6%         1895.6%           Verticate Seas Companies           EGHT         8x8, Inc.         (13.8%)         (37.9%)         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ALRM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.1%           AMBR         Amber Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.         (4.0%)         (9.2%)         1.3x         98.1         37.1         35.7%         52.8%           BCV         Box, Inc.         (51.9%)         (23.8%)         0.9x         47.5         37.1         81.6%         270.6%           CSDT         Carbonite, Inc.         0.3%         (14.4%)         0.9x		Mean	4.1%	30.1%	2.1x	64.0	51.7	53.0%	209.0%
Horizontal SaaS Companies           EGHT         8x8, Inc.         (13.8%)         (37.9%)         5.3x         21.8         78.9         54.4%         86.6%           ADBE         Adobe Inc.         10.3%         29.0%         1.0x         45.8         37.7         49.4%         41.9%           ARM         Alarm.com Holdings, Inc.         8.3%         7.4%         3.2x         41.4         39.7         39.1%         37.1%           AMBR         Amber Road, Inc.         (5.9%)         (39.7%)         0.6x         63.2         24.4         72.7%         101.3%           RAM         Alassian Corporation Plc         (1.2%)         (54.3%)         3.3x         18.0         46.1         75.9%         122.1%           BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.         (13.9%)         (580.6%)         0.9x         101.2         34.1         95.2%         359.5%           BCV         Brightcove Inc.         (5.1%)         (23.8%)         0.9x         47.5         37.1         81.6%         270.6%           CARB         Carbonite, Inc.         0.3% <td></td> <td>Max</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Max							
EGHT       8x8, Inc.       (13.8%)       (37.9%)       5.3x       21.8       78.9       54.4%       86.6%         ADBE       Adobe Inc.       10.3%       29.0%       1.0x       45.8       37.7       49.4%       41.9%         ALRM       Alarm.com Holdings, Inc.       8.3%       7.4%       3.2x       41.4       39.7       39.1%       37.1%         AMBR       Amber Road, Inc.       (5.9%)       (39.7%)       0.6x       63.2       24.4       72.7%       101.3%         TEAM       Atlassian Corporation PIc       (1.2%)       (54.3%)       3.3x       18.0       46.1       75.9%       122.1%         BNFT       Benefitfocus, Inc.       (9.0%)       N/A       2.7x       58.9       14.4       103.0%       -2649.7%         BL       Blackline, Inc.       (4.0%)       (9.2%)       1.3x       98.1       37.1       35.7%       5.2%         BCOV       Brightcove Inc.       (51.1%)       (23.8%)       0.9x       47.5       37.1       81.6%       270.6%         CARB       Carbonite, Inc.       0.3%       (14.4%)       0.9x       55.5       69.2       89.3%       388.2%         CSDD       Cormerstone OnDemand, Inc.		L							
ADBE       Adobe Inc.       10.3%       29.0%       1.0x       45.8       37.7       49.4%       41.9%         ALRM       Alarm.com Holdings, Inc.       8.3%       7.4%       3.2x       41.4       39.7       39.1%       37.1%         AMBR       Amber Road, Inc.       (5.9%)       (39.7%)       0.6x       63.2       24.4       72.7%       101.3%         BMRT       Benefitfocus, Inc.       (9.0%)       N/A       2.7x       58.9       14.4       103.0%       -2649.7%         BL       BlackLine, Inc.       (4.0%)       (9.2%)       1.3x       98.1       37.1       35.7%       5.2%         BOX       Box, Inc.       (13.9%)       (580.6%)       0.9x       101.2       34.1       95.2%       359.5%         BCOV       Brightcove Inc.       (5.1%)       (23.8%)       0.9x       47.5       37.1       81.6%       270.6%         CSLT       Castlight Health, Inc.       (8.3%)       (18.3%)       1.9x       79.6       44.0       28.2%       12.6%         COV       ChannelAdvisor Corporation       (2.6%)       (7.7%)       1.9x       59.7       31.3       39.0%       22.7%         CTXS       Citrix Systems, Inc.	Horizont	al SaaS Companies							
ALRMAlarm.com Holdings, Inc.8.3%7.4%3.2x41.439.739.1%37.1%AMBRAmber Road, Inc.(5.9%)(39.7%)0.6x63.224.472.7%101.3%TEAMAtlassian Corporation Plc(1.2%)(54.3%)3.3x18.046.175.9%122.1%BNFTBenefitfocus, Inc.(9.0%)N/A2.7x58.914.4103.0%-2649.7%BLBlackline, Inc.(4.0%)(9.2%)1.3x98.137.135.7%5.2%BOXBox, Inc.(13.9%)(580.6%)0.9x101.234.195.2%359.5%BCOVBrightcove Inc.(5.1%)(23.8%)0.9x58.037.855.8%28.4%CARBCarbonite, Inc.0.3%(1.4%)0.9x47.537.181.6%270.6%CSLTCastlight Health, Inc.(8.3%)(18.3%)1.9x79.644.028.2%12.6%CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDernand, Inc.0.3%(20.1%)1.1x109.814.957.7%55.7%DOCUDocusign, Inc.N/AN/A1.9x60.547.868.3%0.0%CTXSCitrix Systems, Inc.0.3%(20.1%)1.1x109.814.957.7%55.7%DOCUDocusign, Inc.N/AN/A1.9x60.547.868.3%0.0%	EGHT	8x8, Inc.	(13.8%)	(37.9%)	5.3x	21.8	78.9	54.4%	86.6%
AMBRAmber Road, Inc.(5.9%)(39.7%)0.6x63.224.472.7%101.3%TEAMAtlassian Corporation PIc(1.2%)(54.3%)3.3x18.046.175.9%122.1%BNFTBenefitfocus, Inc.(9.0%)N/A2.7x58.914.4103.0%-2649.7%BLBlackLine, Inc.(4.0%)(9.2%)1.3x98.137.135.7%5.2%BOXBox, Inc.(13.9%)(58.6%)0.9x101.234.195.2%359.5%BCVBrightcove Inc.(5.1%)(23.8%)0.9x47.537.181.6%270.6%CARBCarbonite, Inc.0.3%(14.4%)0.9x47.537.181.6%270.6%CSLTCastlight Health, Inc.(8.3%)(18.3%)1.9x79.644.028.2%12.6%ECOMChannelAdvisor Corporation(2.6%)(7.7%)1.9x59.731.339.0%22.7%CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocusign, Inc.N/AN/A1.3%46.140.346.3%0.0%FVBGEverbridge, Inc.1.6%(1.3%)6.1x30.421.163.7% <t< td=""><td>ADBE</td><td>Adobe Inc.</td><td>10.3%</td><td>29.0%</td><td>1.0x</td><td>45.8</td><td>37.7</td><td>49.4%</td><td>41.9%</td></t<>	ADBE	Adobe Inc.	10.3%	29.0%	1.0x	45.8	37.7	49.4%	41.9%
TEAMAtlassian Corporation PIc(1.2%)(54.3%)3.3x18.046.175.9%122.1%BNFTBenefitfocus, Inc.(9.0%)N/A2.7x58.914.4103.0%-2649.7%BLBlackLine, Inc.(4.0%)(9.2%)1.3x98.137.135.7%5.2%BOXBox, Inc.(13.9%)(580.6%)0.9x101.234.195.2%359.5%BCOVBrightcove Inc.(5.1%)(23.8%)0.9x58.037.855.8%28.4%CARBCarbonite, Inc.0.3%(14.4%)0.9x47.537.181.6%270.6%CSLTCastlight Health, Inc.(8.3%)(18.3%)1.9x79.644.028.2%12.6%ECOMChannelAdvisor Corporation(2.6%)(7.7%)1.9x59.731.339.0%22.7%CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x30.421.163.7%14.3%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%14.3% </td <td>ALRM</td> <td>Alarm.com Holdings, Inc.</td> <td>8.3%</td> <td>7.4%</td> <td>3.2x</td> <td>41.4</td> <td>39.7</td> <td>39.1%</td> <td>37.1%</td>	ALRM	Alarm.com Holdings, Inc.	8.3%	7.4%	3.2x	41.4	39.7	39.1%	37.1%
BNFT         Benefitfocus, Inc.         (9.0%)         N/A         2.7x         58.9         14.4         103.0%         -2649.7%           BL         BlackLine, Inc.         (4.0%)         (9.2%)         1.3x         98.1         37.1         35.7%         5.2%           BOX         Box, Inc.         (13.9%)         (580.6%)         0.9x         101.2         34.1         95.2%         359.5%           BCOV         Brightcove Inc.         (5.1%)         (23.8%)         0.9x         58.0         37.8         55.8%         28.4%           CARB         Carbonite, Inc.         0.3%         (1.4%)         0.9x         47.5         37.1         81.6%         270.6%           CSLT         Castlight Health, Inc.         (8.3%)         (18.3%)         1.9x         59.7         31.3         39.0%         22.7%           CTXS         Citrix Systems, Inc.         7.9%         100.5%         0.9x         55.5         69.2         89.3%         388.2%           COUP         Coupa Software Incorporated         (4.3%)         (20.1%)         1.1x         109.8         14.9         57.7%         55.7%           DOCU         Docusign, Inc.         N/A         N/A         1.9x         84.1 <td>AMBR</td> <td>Amber Road, Inc.</td> <td>(5.9%)</td> <td>(39.7%)</td> <td>0.6x</td> <td>63.2</td> <td>24.4</td> <td>72.7%</td> <td>101.3%</td>	AMBR	Amber Road, Inc.	(5.9%)	(39.7%)	0.6x	63.2	24.4	72.7%	101.3%
BL         BlackLine, Inc.         (4.0%)         (9.2%)         1.3x         98.1         37.1         35.7%         5.2%           BOX         Box, Inc.         (13.9%)         (580.6%)         0.9x         101.2         34.1         95.2%         359.5%           BCOV         Brightcove Inc.         (5.1%)         (23.8%)         0.9x         58.0         37.8         55.8%         28.4%           CARB         Carbonite, Inc.         0.3%         (1.4%)         0.9x         47.5         37.1         81.6%         270.6%           CSLT         Castlight Health, Inc.         (8.3%)         (18.3%)         1.9x         79.6         44.0         28.2%         12.6%           ECOM         ChannelAdvisor Corporation         (2.6%)         (7.7%)         1.9x         59.7         31.3         39.0%         22.7%           CTXS         Citrix Systems, Inc.         7.9%         100.5%         0.9x         55.5         69.2         89.3%         388.2%           CSOD         Cornerstone OnDemand, Inc.         0.3%         (33.1%)         1.5x         69.2         24.9         90.8%         50.55%           DOCU         Docusign, Inc.         N/A         N/A         1.9x         84.1	TEAM	Atlassian Corporation Plc	(1.2%)	(54.3%)	3.3x	18.0	46.1	75.9%	122.1%
BOX         Box, Inc.         (13.9%)         (580.6%)         0.9x         101.2         34.1         95.2%         359.5%           BCOV         Brightcove Inc.         (5.1%)         (23.8%)         0.9x         58.0         37.8         55.8%         28.4%           CARB         Carbonite, Inc.         0.3%         (1.4%)         0.9x         47.5         37.1         81.6%         270.6%           CSLT         Castlight Health, Inc.         (8.3%)         (18.3%)         1.9x         79.6         44.0         28.2%         12.6%           ECOM         ChannelAdvisor Corporation         (2.6%)         (7.7%)         1.9x         59.7         31.3         39.0%         22.7%           CTXS         Citrix Systems, Inc.         7.9%         100.5%         0.9x         55.5         69.2         89.3%         388.2%           CSOD         Cornerstone OnDemand, Inc.         0.3%         (39.1%)         1.5x         69.2         24.9         90.8%         500.5%           COUP         Coupa Software Incorporated         (4.3%)         (20.1%)         1.1x         109.8         14.9         57.7%         55.7%           DOCU         Docusign, Inc.         N/A         N/A         1.9x	BNFT	Benefitfocus, Inc.	(9.0%)	N/A	2.7x	58.9	14.4	103.0%	-2649.7%
BCOV         Brightcove Inc.         (5.1%)         (23.8%)         0.9x         58.0         37.8         55.8%         28.4%           CARB         Carbonite, Inc.         0.3%         (1.4%)         0.9x         47.5         37.1         81.6%         270.6%           CSLT         Castlight Health, Inc.         (8.3%)         (18.3%)         1.9x         79.6         44.0         28.2%         12.6%           ECOM         ChannelAdvisor Corporation         (2.6%)         (7.7%)         1.9x         59.7         31.3         39.0%         22.7%           CTXS         Citrix Systems, Inc.         7.9%         100.5%         0.9x         55.5         69.2         89.3%         388.2%           CSOD         Cornerstone OnDemand, Inc.         0.3%         (39.1%)         1.5x         69.2         24.9         90.8%         500.5%           COUP         Coupa Software Incorporated         (4.3%)         (20.1%)         1.1x         109.8         14.9         57.7%         55.7%           DOCU         Docusign, Inc.         N/A         N/A         1.9x         84.1         41.5         62.0%         71.4%           EGAN         eGain Corporation         4.6%         N/A         1.3x6	BL	BlackLine, Inc.	(4.0%)	(9.2%)	1.3x	98.1	37.1	35.7%	5.2%
CARBCarbonite, Inc.0.3%(1.4%)0.9x47.537.181.6%270.6%CSLTCastlight Health, Inc.(8.3%)(18.3%)1.9x79.644.028.2%12.6%ECOMChannelAdvisor Corporation(2.6%)(7.7%)1.9x59.731.339.0%22.7%CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGM <td>BOX</td> <td>Box, Inc.</td> <td>(13.9%)</td> <td>(580.6%)</td> <td>0.9x</td> <td>101.2</td> <td>34.1</td> <td>95.2%</td> <td>359.5%</td>	BOX	Box, Inc.	(13.9%)	(580.6%)	0.9x	101.2	34.1	95.2%	359.5%
CSLTCastlight Health, Inc.(8.3%)(18.3%)1.9x79.644.028.2%12.6%ECOMChannelAdvisor Corporation(2.6%)(7.7%)1.9x59.731.339.0%22.7%CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.(8.2%)(13.%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	BCOV	Brightcove Inc.	(5.1%)	(23.8%)	0.9x	58.0	37.8	55.8%	28.4%
ECOMChannelAdvisor Corporation(2.6%)(7.7%)1.9x59.731.339.0%22.7%CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	CARB	Carbonite, Inc.	0.3%	(1.4%)	0.9x	47.5	37.1	81.6%	270.6%
CTXSCitrix Systems, Inc.7.9%100.5%0.9x55.569.289.3%388.2%CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeln, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	CSLT	Castlight Health, Inc.	(8.3%)	(18.3%)	1.9x	79.6	44.0	28.2%	12.6%
CSODCornerstone OnDemand, Inc.0.3%(39.1%)1.5x69.224.990.8%500.5%COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	ECOM	ChannelAdvisor Corporation	(2.6%)	(7.7%)	1.9x	59.7	31.3	39.0%	22.7%
COUPCoupa Software Incorporated(4.3%)(20.1%)1.1x109.814.957.7%55.7%DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%HUBSHubSpot, Inc.(2.7%)(14.5%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	CTXS	Citrix Systems, Inc.	7.9%	100.5%	0.9x	55.5	69.2	89.3%	388.2%
DOCUDocuSign, Inc.N/AN/A1.9x84.141.562.0%71.4%EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	CSOD	Cornerstone OnDemand, Inc.	0.3%	(39.1%)	1.5x	69.2	24.9	90.8%	500.5%
EGANeGain Corporation4.6%N/A1.3x60.547.868.3%0.0%EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	COUP	Coupa Software Incorporated	(4.3%)	(20.1%)	1.1x	109.8	14.9	57.7%	55.7%
EVBGEverbridge, Inc.(8.2%)(40.3%)2.4x66.232.056.8%60.7%FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeln, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	DOCU	DocuSign, Inc.	N/A	N/A	1.9x	84.1	41.5	62.0%	71.4%
FIVNFive9, Inc.1.6%(1.3%)6.1x30.421.163.7%143.8%HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	EGAN	eGain Corporation	4.6%	N/A	1.3x	60.5	47.8	68.3%	0.0%
HUBSHubSpot, Inc.(2.7%)(14.5%)4.0x40.934.056.3%85.4%INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeln, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	EVBG	Everbridge, Inc.	(8.2%)	(40.3%)	2.4x	66.2	32.0	56.8%	60.7%
INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeln, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	FIVN	Five9, Inc.	1.6%	(1.3%)	6.1x	30.4	21.1	63.7%	143.8%
INTUIntuit Inc.19.1%63.4%1.3x31.8129.847.6%14.8%KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeln, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	HUBS	HubSpot, Inc.	(2.7%)	(14.5%)	4.0x	40.9	34.0	56.3%	85.4%
KXSKinaxis Inc.5.3%9.5%2.7x92.938.134.8%6.0%LPSNLivePerson, Inc.(4.9%)(24.2%)2.8x68.735.161.2%99.5%LOGMLogMeIn, Inc.1.0%1.2%0.5x25.946.027.8%10.9%	INTU	-				31.8			14.8%
LPSN         LivePerson, Inc.         (4.9%)         (24.2%)         2.8x         68.7         35.1         61.2%         99.5%           LOGM         LogMeIn, Inc.         1.0%         1.2%         0.5x         25.9         46.0         27.8%         10.9%		Kinaxis Inc.		9.5%					6.0%
LOGM LogMeln, Inc. 1.0% 1.2% 0.5x 25.9 46.0 27.8% 10.9%		LivePerson, Inc.							99.5%
MIME Mimecast Limited (0.2%) (5.1%) 1.3x 78.5 31.1 68.7% 78.2%	LOGM	LogMeIn, Inc.							10.9%
	MIME	Mimecast Limited	(0.2%)	(5.1%)	1.3x	78.5	31.1	68.7%	78.2%



# BALANCE SHEET METRICS, CONT'D

		Return on	Return on	Current	Days Sales	Days Payable	Liabilities/	Debt/
Ticker	Company Name	Assets	Equity	Ratio	Outstanding	Outstanding	Assets	Equity
Horizont	al SaaS Companies							
MOBL	MobileIron, Inc.	(13.9%)	(81.8%)	1.4x	68.1	18.1	76.5%	37.0%
MODN	Model N, Inc.	(8.5%)	(63.6%)	1.3x	63.6	13.4	66.7%	95.7%
NEWR	New Relic, Inc.	(2.6%)	(14.7%)	2.9x	83.8	31.2	67.7%	115.2%
PAYC	Paycom Software, Inc.	6.3%	39.1%	1.0x	1.8	16.9	80.7%	14.8%
PCTY	Paylocity Holding Corporation	1.4%	17.1%	1.1x	3.6	9.2	86.3%	N/A
PEGA	Pegasystems Inc.	(3.8%)	(4.8%)	1.9x	130.1	14.4	38.5%	9.8%
PFPT	Proofpoint, Inc.	(5.8%)	(29.6%)	0.8x	68.0	29.5	60.0%	11.6%
QLYS	Qualys, Inc.	5.8%	16.6%	1.8x	74.3	5.0	41.3%	11.2%
RNG	RingCentral, Inc.	(1.3%)	(9.8%)	3.1x	43.2	25.0	65.7%	122.9%
CRM	salesforce.com, inc.	1.3%	8.5%	0.9x	121.5	12.7	49.2%	21.6%
SCWX	SecureWorks Corp.	(2.9%)	(5.5%)	1.1x	104.9	29.2	33.1%	N/A
NOW	ServiceNow, Inc.	(0.6%)	(3.8%)	1.1x	51.6	20.9	72.8%	91.4%
SHOP	Shopify Inc.	(3.2%)	(3.9%)	12.6x	6.0	70.7	11.4%	4.9%
SMAR	Smartsheet Inc.	(16.2%)	(53.8%)	1.8x	46.3	39.4	45.9%	3.6%
DATA	Tableau Software, Inc.	(5.1%)	(12.4%)	2.6x	75.4	18.3	44.6%	26.4%
ULTI	The Ultimate Software Group, Inc.	1.9%	8.4%	1.0x	67.0	13.1	69.6%	11.5%
UPLD	Upland Software, Inc.	2.4%	(17.1%)	0.6x	72.2	23.3	82.1%	333.4%
VRNS	Varonis Systems, Inc.	(8.4%)	(33.6%)	1.7x	49.6	6.9	64.0%	51.1%
WIX	Wix.com Ltd.	(3.8%)	(49.6%)	2.0x	8.4	111.1	83.4%	253.9%
WDAY	Workday, Inc.	(5.2%)	(23.6%)	1.1x	79.7	10.9	64.5%	61.5%
WK	Workiva Inc.	(11.0%)	N/A	1.0x	64.4	24.1	98.5%	1082.0%
YEXT	Yext, Inc.	(20.1%)	(90.2%)	1.3x	79.9	39.0	68.3%	N/A
ZEN	Zendesk, Inc.	(7.3%)	(35.7%)	1.5x	40.2	33.2	69.5%	138.1%
ZIXI	Zix Corporation	0.4%	7.4%	0.4x	23.9	119.0	62.3%	118.3%
ZUO	Zuora, Inc.	N/A	N/A	1.9x	83.8	6.4	48.9%	8.8%
	Min	(20.1%)	(580.6%)	0.4x	1.8	5.0	11.4%	(2649.7%)
	Median	(2.8%)	(12.4%)	1.4x	63.4	31.3	63.0%	55.7%
	Mean	(2.6%)	(25.4%)	2.0x	60.4	35.4	61.3%	54.9%
	Max	19.1%	100.5%	12.6x	130.1	129.8	103.0%	1082.0%



### FOUNDERS SAAS INDEX KEY

Ticker	Company Name	Vertical/Business Description	Website
Vertical	SaaS Companies		
TWOU	2U, Inc.	Higher Education: Learning management system for colleges and universities	https://www.2u.com
APPF	AppFolio, Inc.	Real Estate and Legal: Property management solution for real estate industry; practice and case management solution for the legal industry	https://www.appfolioinc.com
BKI	Black Knight, Inc.	Integrated technology, services, data and analytics to the mortgage and real estate industries	https://www.blackknightinc.com/
BLKB	Blackbaud, Inc.	Cloud software solutions for nonprofits and other charitable giving entities in the United States, Canada, Europe, and Australia	https://www.blackbaud.com/
EBIX	Ebix, Inc.	Insurance: End-to-end solutions ranging from infrastructure exchanges, carrier systems, agency systems and risk compliance solutions to custom software development	https://www.ebix.com
FDS	FactSet Research Systems Inc.	Financial information and analytic software for investment professionals	https://www.factset.com/
INOV	Inovalon Holdings, Inc.	Cloud-based healthcare software and services platform	https://www.inovalon.com/
INST	Instructure, Inc.	Higher Education: Learning management platform for academic institutions and corporations	https://www.instructure.com
MDSO	Medidata Solutions, Inc.	Life Sciences: Data analytics platform for clinical research	https://www.mdsol.com
MCO	Moody's Corporation	Financial analysis software and services	https://www.moodys.com/
QTWO	Q2 Holdings, Inc.	Financial: Virtual banking solutions for regional and community banks and credit unions	https://www.q2ebanking.com
RP	RealPage, Inc.	Rental Housing: Property management solutions	https://www.realpage.com
SPSC	SPS Commerce, Inc.	Consumer Packaged Goods/Retail/Distribution: Supply chain management solutions	https://www.spscommerce.com
TEMN	Temenos AG	Enterprise software for banks and financial services	https://www.temenos.com/en/
TYL	Tyler Technologies, Inc.	Integrated software and technology services for the public sector	https://www.tylertech.com/
VEEV	Veeva Systems Inc.	Life Sciences: Content management, CRM, customer master and customer data platforms	https://www.veeva.com
Horizon	tal SaaS Companies		
EGHT	8x8, Inc.	Communications suite that provides call center solutions, business phone services, collaboration and virtual meetings	https://www.8x8.com
ADBE	Adobe Inc.	Mulitmedia, creativity and digital marketing software	https://www.adobe.com/
ALRM	Alarm.com Holdings, Inc.	Security, video monitoring, home automation, and energy management solutions for consumers and businesses	https://www.alarm.com
AMBR	Amber Road, Inc.	Global trade management (GTM) solutions	https://www.amberroad.com
TEAM	Atlassian Corporation Plc	Offer project tracking, content creation and sharing, real-time communication, and service management products to large and small organizations	https://www.atlassian.com/
BNFT	Benefitfocus, Inc.	Benefits management platform for employers and carriers	https://www.benefitfocus.com
BL	BlackLine, Inc.	Provides financial accounting close solutions to address various aspects of the financial closing process	https://www.blackline.com/
BOX	Box, Inc.	Application that allows for the storage, management and sharing of content online	https://www.box.com
BCOV	Brightcove Inc.	Media, Marketing & Enterprise: Video marketing suite and video delivery	https://www.brightcove.com
CARB	Carbonite, Inc.	Automatic cloud backup for businesses and consumers	https://www.carbonite.com
CSLT	Castlight Health, Inc.	Health benefits platform that engages employees to make better healthcare decisions and enables employers to communicate and evaluate their benefit programs	https://www.castlighthealth.com
ECOM	ChannelAdvisor Corporation	E-commerce: Platform that enables retailers and brands to manage their e-commerce operations	https://www.channeladvisor.com



# FOUNDERS SAAS INDEX KEY, CONT'D

Ticker	Company Name	Business Description	Website
Horizon	tal SaaS Companies		
CTXS	Citrix Systems, Inc.	Solutions that power business mobility through secure, mobile workspaces that provide instant access to apps, desktops, data and communications	https://www.citrix.com
CSOD	Cornerstone OnDemand, Inc.	Applications to recruit, train, manage and connect people across an organization	https://www.cornerstoneondemand.com
COUP	Coupa Software Incorporated	Provides a cloud-based spend management platform	http://www.coupa.com/
DOCU	DocuSign, Inc.	Electronic signature technology and digital transaction management services	https://www.docusign.com/
EGAN	eGain Corporation	Customer engagement cloud solutions and knowledge-powered software applications	http://www.egain.com/
EVBG	Everbridge, Inc.	Communications and enterprise safety applications that enable customers to automate and accelerate the process of keeping people safe and businesses running during critical events	https://www.everbridge.com/
FIVN	Five9, Inc.	Contact Centers: Virtual contact center platform	https://www.five9.com
HUBS	HubSpot, Inc.	Customer relationship management, marketing, and sales solutions	https://www.hubspot.com
INTU	Intuit Inc.	Business, financial, accounting and tax preparation software and related services for small businesses, accountants and individuals	https://www.intuit.com/
кхѕ	Kinaxis Inc.	Manufacturing: Supply chain management solutions	https://www.kinaxis.com
LPSN	LivePerson, Inc.	Enables mobile and online messaging between brands and consumers	https://www.liveperson.com
LOGM	LogMeIn, Inc.	Suite of products that enable individuals and business to securely connect with their workplace, colleagues and customers	https://www.logmeininc.com
MIME	Mimecast Limited	Cloud security and risk management	https://www.mimecast.com
MOBL	MobileIron, Inc.	Enterprise mobility management tools including traditional mobile device management, mobile application management, and mobile content management capabilities	https://www.mobileiron.com
MODN	Model N, Inc.	Life Sciences and Technology: Revenue management solutions	https://www.modeln.com
NEWR	New Relic, Inc.	Software: Analytics platform to monitor software performance	https://www.newrelic.com
PAYC	Paycom Software, Inc.	Human capital management software	https://www.paycom.com
РСТҮ	Paylocity Holding Corporation	Payroll and human capital management solutions for medium sized organizations	https://www.paylocity.com
PEGA	Pegasystems Inc.	Customer relationship management applications, application development platform, and operations applications	https://www.pega.com
PFPT	Proofpoint, Inc.	Enables large and mid-sized organizations to defend, protect, archive, and govern their sensitive data worldwide	https://www.proofpoint.com/us
QLYS	Qualys, Inc.	Information security and compliance solutions	https://www.qualys.com
RNG	RingCentral, Inc.	Cloud-based business communications	https://www.ringcentral.com
CRM	salesforce.com, inc.	Customer relationship management	https://www.salesforce.com
SCWX	Secure Works Corp.	Provides information security services, protecting its customers' computers, networks and information assets from malicious activity such as cybercrime	https://www.secureworks.com
NOW	ServiceNow, Inc.	Suite of products including service management, IT service management, IT operations management and business management solutions	https://www.servicenow.com
SHOP	Shopify Inc.	E-commerce/Retail: E-commerce platform for small and medium-sized businesses	https://www.shopify.ca
SMAR	Smartsheet Inc.	Collaboration and work management software application	https://www.smartsheet.com/
DATA	Tableau Software, Inc.	Interactive data visualization and business intelligence software products	https://www.tableau.com/
ULTI	The Ultimate Software Group, Inc.	Human resources and payroll solutions	https://www.ultimatesoftware.com



# FOUNDERS SAAS INDEX KEY, CONT'D

Ticker	Company Name	Business Description	Website
Horizon	tal SaaS Companies		
UPLD	Upland Software, Inc.	Enterprise document and workflow automation, financial management, mobile engagement management, professional services automation applications	https://uplandsoftware.com
VRNS	Varonis Systems, Inc.	Platform that enables enterprises to map, analyze, manage, and migrate their unstructured data	https://www.varonis.com
wix	Wix.com Ltd.	Web development, design and management through an online platform, enabling businesses, organizations, professionals and individuals to create a digital presence	https://www.wix.com/
WDAY	Workday, Inc.	Financial management and human capital management solutions	https://www.workday.com
WK	Workiva Inc.	All-in-one platform for risk, audit, finance and compliance	https://www.workiva.com
YEXT	Yext, Inc.	Cloud-based network of apps, search engines and other online brand management tools	https://www.yext.com/
ZEN	Zendesk, Inc.	Customer service platform	https://www.zendesk.com
ZIXI	Zix Corporation	Email encription/security	https://www.zixcorp.com
ZUO	Zuora, Inc.	Recurring billing, collections, quoting, revenue recognition and subscription metrics automation software	https://www.zuora.com/



# FOUNDERS TECHNOLOGY TRANSACTIONS

Predikto	BUILD TOGETHER Has been	NXGEN	Software Application Provider	A Vertical SaaS Company	<u>CHURCHSTREAMING</u>	COVALENTWOR
Has been acquired by	recapitalized by	Has been recapitalized by	Has been acquired by	Has been acquired by a portfolio company of	Has been recapitalized by	Has been acquired 1
United Technologies	Serent	PARTHENON CAPITAL PARTNERS	amazon	INSIGHT	Ministry Brands	(F)
Sell-Side Advisor	CAPITAL Financial Advisor	Sell-Side Advisor	Financial Advisor	Sell-Side Advisor	Sell-Side Advisor	SPS COMMERCE Sell-Side Advisor
RothIRA.com	* TheraNest	LIVETEXT	DepositAccounts	GradesFirst	SoughRoller	BULLOOG
Has been acquired by	Has been	Learn what's possible. Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired by	Has been
(1) INVESTOPEDIA A subsidiary of	recapitalized by		lendingtree	The		recapitalized by
IAC	GSV GREATER SUM VENTURES	Quad Partners	_	Board Company	XLMEDIA	GO CAPITA
Sell-Side Advisor	Financial Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Financial Advisor
SmarterServices Belpine you make smarter decisions	ion	m o n e y u n d e r 3 0	FlexOffers.com	SHIPT"		K-12 Content 8 Messaging Platfo
Has been recapitalized by	INTERACTIVE Has been acquired by	Has been acquired by	Has been acquired by	Has secured growth capital from	Has been acquired by	Has been acquired 1
Main Line			Bankrate, Inc. <sub>00</sub>	Harbert Hit in estimation HMC Corporation	Maysteel.	
EQUITY PARTNERS Sell-Side Advisor	Sell-Side Advisor	X L M E D I A Sell-Side Advisor	Sell-Side Advisor	Strategic Advisor	Sell-Side Advisor	communitybrand Sell-Side Advisor
South Cypress	TICKET+BISCUIT	Ministry Brands and	A C T E K S O F T	TriNgvus	HEALTH INFORMATION DESIGNS Has been	LowCards.com
Has secured growth funding from	Has been recapitalized by	in10sity.	Has been acquired by	Has been acquired by	recapitalized by	Has been acquired 1
FIDELIS CAPITAL	BALLAST POINT	Have been acquired by PROVIDENCEEQUITY	CALLIDUS			iCommission
Financial Advisor	Financial Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Financial Advisor	Sell-Side Advisor
ШШ	♥YOUCARING	netDirectMerchants	veggies		<b>red</b> Orbit	USDiagnosti
Has been acquired by	Has been acquired by	Has been	Veggies Has been acquired by		Has been acquired by	Has been acquired b
	ALPINE INVESTORS, L.P.	recapitalized by THE MUSTANG GROUP	<b>301</b> Digital Media	Has been acquired by An Undisclosed	Science Matters Media	Alere
	Sell-Side Advisor	PERMIT ION'TY FOR THE PROBAD OFFICIENT	Sell-Side Advisor	Strategic Buyer		Sell-Side Advisor
Sell-Side Advisor	Sell-Side Advisor	Financial Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Adviso
fivecentnickel.com	nursing jobs.org		ElderCarelink		BARGAINEERING	
Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired 1
QUINSTREET	Internet Brands <sup>a</sup>		QUINSTREET	An Undisclosed Strategic Buyer	Bankrate, Inc.	IReviews, Inc.
Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor	Sell-Side Advisor
		TICKET+BISCUIT	ALLSTAR	rolling and		Top Insurance Lea
Comprehensive Screening Solutions Has been acquired by	Has been acquired by	Has secured growth	Backed by Private Equity Partner	Has been acquired by	Has been acquired by	Gen Company
	An Undisclosed	funding from	KLH CAPITAL		A Fortune 100	Has been acquired 1 Bankrate, Inc
Softer Ware, Sell-Side Advisor	Strategic Buyer Sell-Side Advisor	CAG CAPITAL PARTNERS	Completed a management buyout Financial Advisor	Call Side Advisor	Company	
Self-Side Advisor	Sell-Side Advisor	Financial Advisor	Filialicial Advisor	Sell-Side Advisor	Sell-Side Advisor	Financial Advisor
	Bankaholic <sup>®</sup> Bringing yar die kent in kenkling.		CardOffers.com	GetRich Slowly Personal Finance That Makes Cents	PORTFOLIO OF TRUCKING EMPLOYMENT WEBSITES OWNED BY	Petri
Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired by	Has been acquired by	VERTICAL ALLIANCE Group, Inc.	Has been acquired 1
	Bankrate, Inc. <sub>00</sub>	Brands	Bankrate, Inc.	QUINSTREET	Has been acquired by	BlueWhaleWel
QUINSTREET			Ŭ U	-	Brands <sup>®</sup>	



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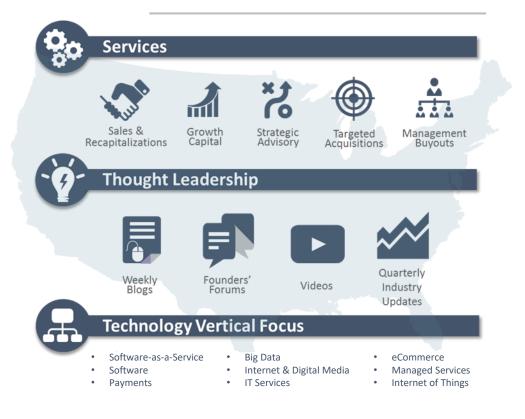
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