FOUNDERS



SaaS Industry Update | Q4 2016

Notable & Quotable

- "The world of work is changing; the way people work today is very different, and it continues to transform. People bring their own devices to work, people want to be able to access work from anywhere around the world and the ability to analyze and reason over billions of data points that are available to people to make smarter decisions." – Kirill Tatarinov, CEO at Citrix
- "It turns out, if you look at all the languages today, security is not a major consideration in the design. These languages were all designed for their worth and network security was not a consideration. I had long believed that your fundamental language design has to incorporate security. If you ask a computer scientist, they'll tell you that in the next five to ten years, this whole landscape will change, and secured-by-design languages will come to the forefront." Sridhar Vembu, CEO at Zoho
- "We live in the cloud age, and networking things together is creating so much value for the world, but it's just not happening fast enough with data." – Brett Hurt, CEO at data.world
- "I'm busy drinking from the buyer hose. Listening, listening, listening." Steve Lucas, CEO at Marketo

Market Insights

- The prevalence of SaaS is acting as a driver for the growth of cloud computing. Cisco predicts that, by 2020, 92% of our work will be cloud-based and 74% of that will involve SaaS in all its variations. At the same time, the requirement for big data analysis via IoT devices utilizing the cloud presents increased risk for SaaS providers. In a recent article, Daniel Matthews discusses how blockchain could provide a potential solution to the security risks associated with the centralization of data.
- On an episode of The SaaS Revolution Show, Michael Treskow, Partner at Eight Roads Ventures, joins Alex Theuma to discuss what a VC looks for when investing in SaaS startups. Michael provides several insights from his experiences investing in SaaS startups during his time at Warburg Pincus, Accel and now Eight Roads Ventures.
- Content marketing can be key to the customer growth and overall success of a SaaS business. <u>In an article</u> he wrote for Forbes, Mike Templeman discusses the unique qualities that SaaS businesses have that allow them to use content marketing strategies that might not provide an ROI when deployed in other industries.

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Upcoming Events

MarTech San Francisco

May 9 - 11, 2017

Hosted at the Hilton of San Francisco, Union Square

Click here for more details

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Quarterly Tip: The Power of Incentives

Last October, Founders hosted its fourth annual SaaS & Internet Summit (Silicon Y'all) at Chateau Elan Winery & Resort outside of Atlanta, Georgia. We gathered more than 50 SaaS & Internet CEOs, 12 of the top technology private equity and venture capital groups, and 2 of the leading technology debt providers. **Matt Hamilton**, **Principal at Summit Partners**, shared how he and the Summit team view the power of incentives and their ability to influence employee behavior. Here are some highlights from his talk:

The Power of Employee Incentives:

- **1. Incentives provide motivation:** *To develop effective incentives, employers must understand why people do what they do, which in turn helps them understand how to get employees to do what they want them to do.*
- 2. Incentives set direction: Incentives help employers effectively communicate the strategic and tactical goals of the firm.
- **3.** Incentives are "always on": Incentives never take a vacation and are often the most consistent and reliable managers.

Matt outlined for participants several different types of incentives and how these different incentives work. Key takeaways:

Types of Incentives

Rewards: Potential net gain

Penalties: Potential net loss

Extrinsic: Opportunity for a bonus, a trophy

Intrinsic: Personal enjoyment and satisfaction; pride

Social: Reward handed out in advance for a desired action

Contingent: A reward given in arrears for a completed action(s)

Gain Framed: A reward given conditionally upon a certain outcome being achieved

Loss Framed: A reward that is offered with the possibility of it being taken away given a certain outcome

Monetary: A cash reward

Non-Monetary: An in-kind payment

Incentives Best Practices

- ✓ Be exact about what you want to change and how you will measure the outcome
- Understand what people value and then build incentive systems around those values
- ✓ Never stop experimenting
- Strive for mass personalization
- ✓ Consider loss-framed incentives
- \checkmark Promote intrinsic motivation it's free
- All else equal, shorter feedback cycles are better than longer
- ✓ Continuously reevaluate

MarTech San Francisco 2017

Our Team would love for you to join us at MarTech San Francisco from May 9th-11th. This is the top marketing technology conference with over 2,500 attendees, 60 educational sessions, and hundreds of providers representing some of the most well known brands and MarTech solutions for the financial, technological, and product space. If you're looking for a conference where you can learn without being sold, MarTech is the answer. <u>Click here</u> to learn more, and please let us know if you will be attending.





Recent SaaS Transactions

Representative Transactions Announced in Q4 2016

(In millions)

Announced Date	Target	Buyer	Purchase Price	LTM Revenue	LTM EBITDA	Enterprise LTM Revenue	Value / LTM EBITDA
12/19/2016	ISCS, Inc.	Guidewire Software, Inc.	\$ 160.0	-	-	-	-
12/12/2016	Revitas Inc.	Model N, Inc.	\$ 60.0	-	-	-	-
12/6/2016	Deltek, Inc.	Roper Technologies, Inc.	\$ 2,800.0	-	-	-	-
12/6/2016	IntraLinks Holdings, Inc.	Synchronoss Technologies, Inc.	\$ 843.8	\$ 290.4	\$ 20.0	2.9x	42.7x
11/29/2016	Operative Media, Inc.	SintecMedia Ltd.	\$ 200.0	-	-	-	-
11/29/2016	eGov Holdings, Inc.	Booz Allen Hamilton Inc.	\$ 250.0	-	-	-	-
11/14/2016	ServiceMax, Inc.	GE Digital LLC	\$ 915.0	-	-	-	-
11/9/2016	TubeMogul, Inc.	Adobe Systems Incorporated	\$ 542.2	\$ 212.0	\$ (20.7)	2.6x	NM
11/7/2016	RevSpring, Inc.	GTCR, LLC	\$ 400.0	-	-	-	-
11/7/2016	Datahug Limited	Callidus Software Inc.	\$ 13.0	-	-	-	-
10/31/2016	iSqFt, Inc.	Roper Technologies, Inc.	\$ 631.0	-	-	-	-
10/27/2016	Mtelligence Corporation	Aspen Technology, Inc.	\$ 37.4	-	-	-	-
10/24/2016	Masergy Communications, Inc.	Berkshire Partners LLC	\$ 900.0	-	-	-	-
10/21/2016	Everyday Health, Inc.	Ziff Davis, LLC	\$ 465.3	\$ 253.9	\$ 31.0	1.8x	15.0x
10/20/2016	Appirio Inc.	Wipro Limited	\$ 500.0	\$ 196.0	-	2.6x	-
10/14/2016	PitchBook Data, Inc.	Morningstar, Inc.	\$ 180.0	\$ 31.1	-	7.2x	-
10/3/2016	Krux Digital Inc.	salesforce.com, inc.	\$ 791.0	-	-	-	-



Valuation & Growth Metrics

FIB SaaS Index - Valuation & Growth - As of Q4 2016

(In millions)

			LTM	ΥοΥ		LTM	YoY	Enterprise	Value /
Ticker	Company Name	R	evenue	Growth	1	EBITDA	Growth*	LTM Revenue	LTM EBITDA
Vertical S	aaS Companies								
TWOU	2U, Inc.	\$	205.9	37.1%	\$	(19.1)	5.9%	7.8x	N/A
APPF	AppFolio, Inc.	\$	105.6	40.8%	\$	(4.7)	36.9%	7.7x	, N/A
ATHN	athenahealth, Inc.	\$	1,082.9	17.1%	\$	107.1	20.5%	4.4x	, 44.6x
BCOV	Brightcove Inc.	\$	150.3	11.6%	\$	(1.0)	(156.0%)	1.7x	N/A
ECOM	ChannelAdvisor Corporation	\$	113.2	12.5%	\$	(6.2)	(6.6%)	1.9x	N/A
EBIX	Ebix, Inc.	\$	298.3	12.4%	\$	111.0	3.3%	7.5x	, 20.0x
ELLI	Ellie Mae, Inc.	\$	360.3	41.9%	\$	73.3	7.3%	7.9x	39.0x
FIVN	Five9, Inc.	\$	162.1	25.8%	\$	1.8	196.1%	5.3x	466.0x
INST	Instructure, Inc.	\$	110.9	51.5%	\$	(50.4)	(1.7%)	5.5x	N/A
KXS	Kinaxis Inc.	\$	116.0	27.0%	\$	20.4	(5.5%)	10.8x	, 61.4x
MDSO	Medidata Solutions, Inc.	\$	463.4	18.1%	\$	65.6	16.7%	6.9x	48.6x
MB	MINDBODY, Inc.	\$	139.0	37.1%	\$	(14.3)	28.5%	7.2x	N/A
MIX	MiX Telematics Limited	\$	111.8	5.8%	\$	17.8	8.6%	1.2x	, 7.6x
MODN	Model N, Inc.	\$ \$	110.5	15.0%	\$	(27.3)	(2.0%)	2.2x	N/A
NH	NantHealth, Inc.	\$	96.7	102.2%	\$	(130.6)	(5.9%)	10.0x	, N/A
NEWR	New Relic, Inc.	\$	242.6	49.6%	\$	(54.5)	8.5%	7.1x	, N/A
QTWO	Q2 Holdings, Inc.	\$	150.2	38.0%	\$	(20.4)	6.9%	8.8x	, N/A
RP	RealPage, Inc.	\$	568.1	21.3%	\$	91.2	21.6%	5.1x	31.5x
SHOP	Shopify Inc.	\$	389.3	89.7%	\$	(26.5)	(9.8%)	12.7x	N/A
SPSC	SPS Commerce, Inc.	\$	193.3	21.9%	\$	18.9	2.0%	4.1x	42.3x
VEEV	Veeva Systems Inc.	\$	544.0	32.9%	\$	121.8	16.8%	10.4x	46.3x
	·								
	Min	\$	96.7	5.8%	\$	(130.6)	(156.0%)	1.2x	7.6x
	Median	\$	162.1	27.0%	\$	(1.0)	6.9%	7.1x	43.5x
	Mean	\$	272.1	33.8%	\$	13.0	9.2%	6.5x	80.7x
	Max	\$	1,082.9	102.2%	\$	121.8	196.1%	12.7x	466.0x
Horizonta	al SaaS Companies								
EGHT	8x8, Inc.	\$	244.2	24.9%	\$	4.6	5.4%	4.9x	256.9x
ALRM	Alarm.Com Holdings, Inc.	\$	248.2	25.7%	\$	39.0	4.7%	4.9x	31.2x
AMBR	Amber Road, Inc.	\$	73.2	9.0%	\$	(10.7)	22.6%	2.9x	N/A
APTI	Apptio, Inc.	\$	160.6	24.2%	\$	(22.2)	19.8%	2.6x	N/A
BAS1V	BasWare Oyj	\$	156.8	3.6%	\$	(8.5)	(335.0%)	3.6x	N/A
BV	Bazaarvoice, Inc.	\$	201.7	2.2%	\$	(7.2)	13.5%	1.5x	N/A
BNFT	Benefitfocus, Inc.	\$	233.3	26.0%	\$	(21.5)	22.0%	3.8x	N/A
BL	BlackLine, Inc.	\$	123.1	47.3%	\$	(14.6)	18.4%	11.2x	N/A
BOX	Box, Inc.	\$	398.6	31.7%	\$	(110.5)	12.6%	5.5x	N/A
CALD	Callidus Software Inc.	\$	206.7	19.4%	\$	(7.2)	(665.1%)	4.9x	N/A
CARB	Carbonite, Inc.	\$	207.0	51.5%	\$	(<i>)</i> .2) 19.4	145.4%	2.4x	25.3x
CSLT	Castlight Health, Inc.	\$	101.7	35.0%	\$	(50.4)	19.8%	2.6x	N/A
CTXS	Citrix Systems, Inc.	\$	3,418.3	4.4%	\$	1,026.2	2.8%	3.6x	12.0x
CSOD	Cornerstone OnDemand, Inc.	\$	423.1	24.6%	\$	(46.3)	0.8%	5.6x	N/A
COTV	Cotiviti Holdings, Inc.	\$	625.2	15.5%	\$	213.9	3.7%	6.6x	19.3x
COUP	Coupa Software Incorporated	\$	122.1	68.4%	\$	(39.2)	7.9%	9.3x	N/A
COVS	Covisint Corporation	\$	71.2	(10.4%)	\$	(10.0)	5.9%	0.7x	N/A
EGAN	eGain Corporation	\$	63.7	(10.4%)	\$	0.0	(98.5%)	1.0x	N/A
		\$	76.8	(++.5/0)	\$	(3.1)	68.4%	5.8x	N/A



Valuation & Growth Metrics, Cont'd

			LTM	YoY	LTM	YoY	Enterprise	Value /
Ticker	Company Name	F	levenue	Growth	 EBITDA	Growth*	LTM Revenue	LTM EBITDA
Horizonta	al SaaS Companies							
HGN	Halogen Software Inc.	\$	72.3	10.0%	\$ 6.4	94.0%	2.2x	25.3x
HUBS	HubSpot, Inc.	\$	271.0	48.9%	\$ (38.6)	(5.8%)	7.7x	N/A
JIVE	Jive Software, Inc.	\$	204.1	4.2%	\$ 3.0	145.3%	1.2x	79.7x
LPSN	LivePerson, Inc.	\$	222.8	(6.8%)	\$ 2.3	(86.4%)	1.7x	165.8x
LOGM	LogMeIn, Inc.	\$	336.1	23.7%	\$ 25.9	(35.1%)	14.8x	192.3x
MRIN	Marin Software Incorporated	\$	99.9	(8.0%)	\$ (3.8)	11.7%	0.5x	N/A
MIME	Mimecast Limited	\$	171.0	26.1%	\$ (0.9)	(52.4%)	5.9x	N/A
MOBL	MobileIron, Inc.	\$	163.9	9.8%	\$ (61.9)	(11.7%)	2.0x	N/A
NTNX	Nutanix, Inc.	\$	524.0	85.1%	\$ (234.9)	(69.5%)	7.7x	N/A
PAYC	Paycom Software, Inc.	\$	329.1	46.5%	\$ 68.0	9.7%	10.0x	48.3x
PCTY	Paylocity Holding Corporation	\$	264.1	40.8%	\$ 7.1	7.9%	6.8x	250.5x
PEGA	Pegasystems, Inc.	\$	750.3	9.9%	\$ 64.8	(27.3%)	4.4x	51.4x
QLYS	Qualys, Inc.	\$	197.9	20.5%	\$ 47.8	3.9%	5.2x	21.5x
RNG	RingCentral, Inc.	\$	379.7	28.2%	\$ (11.3)	(18.8%)	4.9x	N/A
CRM	salesforce.com, inc.	\$	8,392.0	25.9%	\$ 696.5	30.4%	7.0x	84.6x
SQI	SQLi	\$	205.9	7.3%	\$ 14.9	2.7%	0.8x	11.1x
SCWX	SecureWorks Corp.	\$	404.6	27.7%	\$ (32.3)	23.4%	1.8x	N/A
NOW	ServiceNow, Inc.	\$	1,390.5	38.3%	\$ (68.7)	17.1%	10.3x	N/A
TNGO	Tangoe, Inc.	\$	219.4	5.7%	\$ 9.6	(33.4%)	0.9x	20.7x
RUBI	The Rubicon Project, Inc.	\$	299.6	52.6%	\$ 46.9	12.6%	0.8x	5.2x
ULTI	The Ultimate Software Group, Inc.	\$	781.3	26.4%	\$ 67.6	4.7%	7.3x	84.6x
TWLO	Twilio, Inc.	\$	277.3	66.1%	\$ (34.1)	(6.7%)	9.1x	N/A
UPLD	Upland Software, Inc.	\$	73.0	6.1%	\$ 5.0	53.5%	3.3x	47.7x
VRNS	Varonis Systems, Inc.	\$	164.5	29.3%	\$ (13.5)	7.3%	3.9x	N/A
WDAY	Workday, Inc.	\$	1,569.4	35.0%	\$ (260.8)	(6.7%)	9.9x	N/A
WK	Workiva Inc.	\$	178.6	23.0%	\$ (39.8)	9.6%	3.2x	N/A
XTLY	Xactly Corporation	\$	91.9	29.1%	\$ (14.4)	10.2%	3.9x	N/A
XRO	Xero Limited	\$	183.5	55.0%	\$ (59.9)	(1.1%)	9.3x	N/A
ZEN	Zendesk, Inc.	\$	312.0	49.4%	\$ (84.2)	(1.1%)	8.1x	N/A
ZIXI	Zix Corporation	\$	60.1	9.9%	\$ 14.8	48.0%	4.1x	16.8x
	Min	\$	60.1	(11.3%)	\$ (260.8)	(665.1%)	0.5x	5.2x
	Median	\$	207.0	25.7%	\$ (7.2)	5.9%	4.4x	39.4x
	Mean	\$	525.4	25.5%	\$ 21.9	(12.0%)	4.9x	72.5x
	Max	\$	8,392.0	85.1%	\$ 1,026.2	145.4%	14.8x	256.9x

Note: Figures in grey text indicate that a) the year growth reflects a reduction in deficit from previous year or b) the year growth rate reflects growth from a deficit in previous year to positive EBITDA this year



Operating Statistics

FIB SaaS Index - Operating Statistics - As of Q4 2016

		Revenue	COGS	Gross	SG&A	R&D Expense	Sales & Marketing	EBITDA
Ticker	Company Name	3 Year CAGR*	As a % of Revenue	Margin	As a % of Revenue	As a % of Revenue	As a % of Revenue	Margin
Vertical	SaaS Companies							
TWOU	2U, Inc.	35.3%	19.9%	80.1%	74.1%	1.0%	51.8%	(9.3%)
APPF	AppFolio, Inc.	58.4%	42.3%	57.7%	44.3%	17.8%	27.3%	(4.4%)
ATHN	athenahealth, Inc.	22.1%	49.3%	50.7%	35.5%	12.4%	23.7%	9.9%
BCOV	Brightcove Inc.	11.0%	36.6%	63.4%	48.7%	20.5%	36.0%	(0.7%)
ECOM	ChannelAdvisor Corporation	18.5%	24.4%	75.6%	72.3%	15.7%	50.0%	(5.5%)
EBIX	Ebix, Inc.	13.4%	28.5%	71.5%	23.2%	11.4%	5.9%	37.2%
ELLI	Ellie Mae, Inc.	41.0%	33.3%	66.7%	35.0%	16.2%	15.2%	20.3%
FIVN	Five9, Inc.	24.4%	41.3%	58.7%	48.0%	14.7%	32.5%	1.1%
INST	Instructure, Inc.	62.1%	29.5%	70.5%	86.3%	33.7%	63.2%	(45.4%)
KXS	Kinaxis Inc.	24.1%	30.9%	69.1%	35.9%	17.8%	26.2%	17.6%
MDSO	Medidata Solutions, Inc.	18.7%	24.3%	75.7%	40.6%	24.3%	23.6%	14.1%
MB	MINDBODY, Inc.	41.9%	31.0%	69.0%	62.5%	22.0%	40.6%	(10.3%)
MIX	MiX Telematics Limited	7.6%	30.8%	69.2%	59.8%	2.3%	13.2%	15.9%
MODN	Model N, Inc.	3.0%	49.8%	50.2%	58.0%	22.1%	30.1%	(24.7%)
NH	NantHealth, Inc.	57.1%	50.0%	50.0%	117.4%	73.5%	N/A	(135.0%)
NEWR	New Relic, Inc.	65.9%	19.2%	80.8%	82.9%	24.8%	64.5%	(22.4%)
QTWO	Q2 Holdings, Inc.	38.2%	51.5%	48.5%	45.4%	21.6%	24.2%	(13.6%)
RP	RealPage, Inc.	14.6%	42.3%	57.7%	38.4%	13.0%	23.7%	16.1%
SHOP	Shopify Inc.	97.9%	46.2%	53.8%	44.1%	19.5%	33.1%	(6.8%)
SPSC	SPS Commerce, Inc.	22.8%	33.3%	66.7%	49.0%	11.4%	34.1%	9.8%
VEEV	Veeva Systems Inc.	37.3%	31.9%	68.1%	30.4%	17.9%	21.5%	22.4%
	Min	3.0%	19.2%	48.5%	23.2%	1.0%	5.9%	(135.0%)
	Median	24.4%	33.3%	66.7%	48.0%	17.8%	28.7%	(0.7%)
	Mean	34.1%	35.5%	64.5%	53.9%	19.7%	32.0%	(5.4%)
	Max	97.9%	51.5%	80.8%	117.4%	73.5%	64.5%	37.2%
	al SaaS Companies							
EGHT	8x8, Inc.	26.5%	25.8%	74.2%	65.4%	11.0%	54.2%	1.9%
ALRM	Alarm.Com Holdings, Inc.	25.2%	37.4%	62.6%	28.2%	18.8%	15.1%	15.7%
AMBR	Amber Road, Inc.	11.7%	48.8%	51.2%	51.9%	23.0%	30.9%	(14.7%)
APTI	Apptio, Inc.	29.6%	33.7%	66.3%	61.7%	22.1%	47.2%	(13.8%)
BAS1V	BasWare Oyj	6.4%	81.0%	19.0%	7.7%	9.0%	4.5%	(5.4%)
BV	Bazaarvoice, Inc.	9.2%	37.7%	62.3%	47.9%	24.5%	32.5%	(3.6%)
BNFT	Benefitfocus, Inc.	30.6%	51.7%	48.3%	37.8%	25.5%	23.8%	(9.2%)
BL	BlackLine, Inc.	56.8%	24.5%	75.5%	84.3%	22.3%	63.2%	(11.8%)
BOX	Box, Inc.	47.5%	28.1%	71.9%	80.6%	29.1%	63.5%	(27.7%)
CALD	Callidus Software Inc.	22.5%	37.8%	62.2%	55.3%	17.4%	38.0%	(3.5%)
CARB	Carbonite, Inc.	24.5%	29.3%	70.7%	53.1%	16.1%	35.4%	9.4%
CSLT	Castlight Health, Inc.	98.7%	33.9%	66.1%	79.2%	39.8%	57.4%	(49.6%)
CTXS	Citrix Systems, Inc.	5.4%	14.6%	85.4%	45.7%	17.0%	34.7%	30.0%
CSOD	Cornerstone OnDemand, Inc.	31.7%	32.1%	67.9%	70.1%	14.2%	53.3%	(10.9%)
COTV	Cotiviti Holdings, Inc.	25.1%	40.3%	59.7%	25.1%	N/A	0.2%	34.2%
COUP	Coupa Software Incorporated		36.7%	63.3%	72.2%	N/A	55.4%	(32.1%)
COVS	Covisint Corporation	(10.2%)	47.0%	53.0%	54.0%	18.2%	38.8%	(14.1%)
EGAN	eGain Corporation	(1.6%)	33.6%	66.4%	49.2%	23.6%	38.0%	0.0%
EVBG	Everbridge, Inc.	36.8%	30.9%	69.1%	63.9%	19.2%	45.3%	(4.0%)
HGN	Halogen Software Inc.	14.6%	23.8%	76.2%	54.7%	16.9%	40.7%	8.8%
HUBS	HubSpot, Inc.	51.7%	22.8%	77.2%	76.7%	18.9%	60.0%	(14.2%)



Operating Statistics, Cont'd

		Revenue	COGS	Gross	SG&A	R&D Expense	Sales & Marketing	EBITDA
Ticker	Company Name	3 Year CAGR*	As a % of Revenue	Margin	As a % of Revenue	As a % of Revenue	As a % of Revenue	Margin
Horizont	al SaaS Companies							
JIVE	Jive Software, Inc.	11.9%	33.0%	67.0%	49.3%	22.4%	36.6%	1.5%
LPSN	LivePerson, Inc.	7.8%	28.4%	71.6%	59.5%	18.0%	40.2%	1.0%
LOGM	LogMeIn, Inc.	26.4%	13.5%	86.5%	66.5%	17.0%	48.4%	7.7%
MRIN	Marin Software Incorporated	8.9%	35.2%	64.8%	52.8%	27.9%	32.9%	(3.8%)
MIME	Mimecast Limited	27.5%	28.0%	72.0%	67.0%	12.1%	52.2%	(0.5%)
MOBL	MobileIron, Inc.	15.8%	18.5%	81.5%	80.2%	41.1%	62.1%	(37.8%)
NTNX	Nutanix, Inc.	80.0%	39.2%	60.8%	79.2%	32.0%	68.5%	(44.8%)
PAYC	Paycom Software, Inc.	45.2%	14.7%	85.3%	57.2%	6.4%	36.2%	20.7%
PCTY	Paylocity Holding Corporation	42.9%	42.6%	57.4%	47.5%	13.5%	26.8%	2.7%
PEGA	Pegasystems, Inc.	13.8%	31.9%	68.1%	43.3%	19.4%	37.2%	8.6%
QLYS	Qualys, Inc.	22.4%	21.5%	78.5%	45.1%	17.8%	29.3%	24.2%
RNG	RingCentral, Inc.	33.2%	24.3%	75.7%	65.3%	17.3%	50.7%	(3.0%)
CRM	salesforce.com, inc.	27.3%	26.6%	73.4%	58.2%	14.4%	46.7%	8.3%
SQI	SQLi	6.0%	66.8%	33.2%	26.5%	N/A	0.4%	7.2%
SCWX	SecureWorks Corp.	27.6%	49.7%	50.3%	55.2%	12.8%	4.9%	(8.0%)
NOW	ServiceNow, Inc.	48.5%	28.7%	71.3%	61.7%	20.5%	50.4%	(4.9%)
TNGO	Tangoe, Inc.	16.2%	45.9%	54.1%	38.1%	11.8%	19.2%	4.4%
RUBI	The Rubicon Project, Inc.	58.6%	24.3%	75.7%	53.1%	18.8%	28.9%	15.7%
ULTI	The Ultimate Software Group,	23.9%	38.4%	61.6%	40.8%	15.6%	28.7%	8.7%
TWLO	Twilio Inc.	77.1%	43.5%	56.5%	41.8%	29.5%	23.5%	(12.3%)
UPLD	Upland Software, Inc.	21.8%	37.5%	62.5%	40.7%	21.3%	16.7%	6.9%
VRNS	Varonis Systems, Inc.	30.1%	9.6%	90.4%	77.6%	22.3%	65.6%	(8.2%)
WDAY	Workday, Inc.	49.6%	30.8%	69.2%	49.8%	43.4%	37.2%	(16.6%)
WK	Workiva Inc.	28.0%	28.9%	71.1%	63.3%	32.2%	45.0%	(22.3%)
XTLY	Xactly Corporation	28.4%	39.8%	60.2%	60.5%	19.2%	43.7%	(15.6%)
XRO	Xero Limited	68.7%	23.9%	76.1%	80.0%	28.4%	65.7%	(32.6%)
ZEN	Zendesk, Inc.	63.0%	30.1%	69.9%	74.2%	31.6%	53.5%	(27.0%)
ZIXI	Zix Corporation	7.7%	17.5%	82.5%	45.8%	15.9%	N/A	24.7%
	Min	(10.2%)	9.6%	19.0%	7.7%	6.4%	0.2%	(49.6%)
	Median	26.9%	31.9%	68.1%	55.2%	19.0%	38.4%	(3.6%)
	Mean	30.4%	33.2%	66.8%	56.0%	21.1%	39.2%	(4.3%)
	Max	98.7%	81.0%	90.4%	84.3%	43.4%	68.5%	34.2%

Note: Figures in grey text indicate that 3-Year CAGR is calculated using expected revenue



Balance Sheet Metrics

FIB SaaS Index - Balance Sheet Metrics - As of Q4 2016

Return on Return on Current Days Sales Days Payable Ticker Company Name Assets Equity Ratio Outstanding Outstanding TWOU 2U, Inc. (5.5%) (10.6%) 4.5x 7.3 36.9 APPF AppFolio, Inc. (5.5%) (11.6%) 1.5x 7.9 13.6 ATHN athenahealth, Inc. 2.1% 3.6% 1.1x 52.1 28.7 ECOV Brightcove Inc. (3.8%) (12.8%) 1.1x 52.1 28.7 ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELLI Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 RXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 6.2% 2.1x 69.2 205.9	Assets 20.1% 24.7% 46.7%	Debt/ Equity 3.9% N/A 46.0%
Vertical SaaS Companies TWOU 2U, Inc. (5.5%) (10.6%) 4.5x 7.3 36.9 APPF AppFolio, Inc. (5.8%) (11.6%) 1.5x 7.9 13.6 ATHN athenahealth, Inc. 2.1% 3.6% 1.7x 52.4 7.0 BCOV Brightcove Inc. (3.8%) (12.8%) 1.1x 52.1 28.7 ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELU Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 MDSO Meididata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MB MINDBODY, Inc. (9.4%) (22.2%) </th <th>20.1% 24.7% 46.7%</th> <th>3.9% N/A</th>	20.1% 24.7% 46.7%	3.9% N/A
TWOU 2U, Inc. (5.5%) (10.6%) 4.5x 7.3 36.9 APPF AppFolio, Inc. (5.8%) (11.6%) 1.5x 7.9 13.6 ATHN athenahealth, Inc. 2.1% 3.6% 1.7x 52.4 7.0 BCOV Brightcove Inc. (3.8%) (12.8%) 1.1x 52.1 28.7 ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELU Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (40.%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A N/A N/A <td>24.7% 46.7%</td> <td>N/A</td>	24.7% 46.7%	N/A
APPF AppFolio, Inc. (5.8%) (11.6%) 1.5x 7.9 13.6 ATHN athenahealth, Inc. 2.1% 3.6% 1.7x 52.4 7.0 BCOV Brightcove Inc. (3.8%) (12.8%) 1.1x 52.1 28.7 ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELL Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSD Medidata Solutions, Inc. 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 46.8 <t< td=""><td>24.7% 46.7%</td><td>N/A</td></t<>	24.7% 46.7%	N/A
ATHN athenahealth, Inc. 2.1% 3.6% 1.7x 52.4 7.0 BCOV Brightcove Inc. (3.8%) (12.8%) 1.1x 52.1 28.7 ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELL Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 6.2% 2.1x 69.2 205.9 MDN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A 1.9x N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x	46.7%	
BCOV Brightcove Inc. (3.8%) (12.8%) 1.1x 52.1 28.7 ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELU Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 2.7.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MDN MIX Delematics Limited 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A N/A N/A N		//6/1%
ECOM ChannelAdvisor Corporation (6.5%) (9.4%) 2.2x 82.0 47.3 EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELU Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MIX Mix Telematics Limited 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 7.7.7 NH NantHealth, Inc. N/A N/A N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2	42.7%	40.0%
EBIX Ebix, Inc. 8.5% 22.2% 2.3x 67.4 108.9 ELLI Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MB MINDBODY, Inc. (9.4%) (22.2%) 4.8x 20.8 39.3 MDN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A N/A N/A N/A NEWR New Relic, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 <t< td=""><td></td><td>4.2%</td></t<>		4.2%
ELLI Ellie Mae, Inc. 6.2% 8.0% 6.1x 34.5 39.4 FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MIX MINDBODY, Inc. (9.4%) (22.2%) 4.8x 20.8 39.3 MIX MiX Telematics Limited 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH Nathealth, Inc. N/A N/A N/A N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (6.3%) (11.7%) 6.4x 3.7 73.7<		62.1%
FIVN Five9, Inc. (4.0%) (41.9%) 2.2x 27.6 16.2 INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MB MINDBODY, Inc. (9.4%) (22.2%) 4.8x 20.8 39.3 MIX MiX Telematics Limited 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A 1.9x N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 7.3.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x		0.1%
INST Instructure, Inc. (28.7%) (192.7%) 1.0x 45.5 51.9 KXS Kinaxis Inc. 7.5% 14.0% 2.4x 61.1 57.4 MDSO Medidata Solutions, Inc. 4.2% 8.4% 3.9x 81.3 20.3 MB MINDBODY, Inc. (9.4%) (22.2%) 4.8x 20.8 39.3 MIX Mix Telematics Limited 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A 1.9x N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 7.0 <td></td> <td>151.0%</td>		151.0%
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MIX MiX Telematics Limited 4.2% 6.2% 2.1x 69.2 205.9 MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A N/A N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 410.2 10.8 Mean (3.9%) (10.0%) 2.1x 3.7 7.0 <t< td=""><td></td><td>15.2%</td></t<>		15.2%
MODN Model N, Inc. (18.7%) (47.6%) 2.0x 68.6 17.7 NH NantHealth, Inc. N/A N/A N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Man (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Forizontal SaaS Companies EGHT	23.6%	2.5%
NH NantHealth, Inc. N/A N/A 1.9x N/A N/A NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Fortzontal SaaS Companies EGHT 8x8		N/A
NEWR New Relic, Inc. (13.5%) (33.7%) 2.0x 46.8 54.2 QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies VEEV Veevalue 110.2 205.9 EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.		25.0%
QTWO Q2 Holdings, Inc. (9.1%) (33.3%) 2.1x 25.9 18.2 RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		23.0% N/A
RP RealPage, Inc. 3.2% 4.7% 1.2x 60.3 29.6 SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		N/A
SHOP Shopify Inc. (6.3%) (11.7%) 6.4x 3.7 53.7 SPSC SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		31.7%
SPSC VEEV SPS Commerce, Inc. 1.7% 2.4% 5.8x 36.3 12.7 Min 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		N/A
VEEV Veeva Systems Inc. 8.3% 11.9% 2.9x 110.2 10.8 Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		N/A
Min (28.7%) (192.7%) 1.0x 3.7 7.0 Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		N/A
Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		,
Median (3.9%) (10.0%) 2.2x 49.5 33.3 Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3	12.9%	0.1%
Mean (3.3%) (17.3%) 2.9x 48.0 43.5 Max 8.5% 22.2% 6.4x 110.2 205.9 Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3	40.3%	20.1%
Horizontal SaaS Companies EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3	38.9%	34.0%
EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3	91.1%	151.0%
EGHT 8x8, Inc. (1.0%) (1.1%) 5.0x 17.2 65.5 ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3		
ALRM Alarm.Com Holdings, Inc. 8.9% 6.0% 4.9x 37.2 73.3	12.8%	N/A
		3.6%
AIVIDIN AUTUELINUAU, III		69.5%
APTI Apptio, Inc. (12.0%) (99.3%) 1.2x 127.0 23.8		0.1%
BAS1V BasWare Oyj (4.2%) (10.5%) 1.4x 60.3 N/A		35.6%
BV Bazaarvoice, Inc. (2.3%) (10.3%) 1.1x 82.3 25.0		20.0%
BNFT Benefitfocus, Inc. (10.9%) N/A 1.0x 49.1 20.9		(302.6%)
BL BlackLine, Inc. (5.7%) (17.1%) 1.5x 98.9 71.6		N/A
BOX Box, Inc. (19.0%) (142.8%) 1.1x 100.8 27.0		101.0%
CALD Callidus Software Inc. (3.5%) (10.4%) 1.9x 87.6 16.9		1.1%
CARB Carbonite, Inc. 1.6% (118.7%) 0.7x 18.0 42.8		N/A
CSLT Castlight Health, Inc. (20.3%) (53.1%) 7.3x 49.6 30.1		N/A
CTXS Citrix Systems, Inc. 8.2% 23.4% 0.8x 74.7 65.5		51.7%
CSOD Cornerstone OnDemand, Inc. (6.0%) (384.3%) 1.4x 104.4 58.4		884.3%
COTV Cotiviti Holdings, Inc. 4.1% 5.7% 1.2x 42.9 25.4		83.4%
COUP Coupa Software Incorporated (12.3%) (35.3%) 2.7x 67.5 8.3		N/A
COVS Covisint Corporation (12.3)// (33.3)// 2.7// 07.5 0.5 COVS Covisint Corporation (9.0%) (22.3%) 1.9x 46.0 61.8		N/A
EGAN eGain Corporation (6.0%) N/A 0.9x 55.7 33.3		(297.1%)
EVBG Everbridge, Inc. (8.4%) (85.8%) 1.3x 79.8 45.9		(257.170) N/A



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							
HGN	Halogen Software Inc.	3.6%	10.8%	1.0x	56.9	52.3	83.0%	N/A
HUBS	HubSpot, Inc.	(11.6%)	(37.9%)	1.4x	43.3	20.5	54.3%	0.9%
JIVE	Jive Software, Inc.	(2.6%)	(22.1%)	1.2x	100.0	16.1	72.0%	0.9%
LPSN	LivePerson, Inc.	(4.8%)	(17.0%)	1.3x	51.1	41.7	37.0%	N/A
LOGM	LogMeIn, Inc.	0.6%	1.3%	1.1x	22.8	100.4	55.8%	15.3%
MRIN	Marin Software Incorporated	(8.9%)	(18.1%)	4.6x	74.2	21.5	18.2%	3.9%
MIME	Mimecast Limited	(4.2%)	(6.0%)	1.5x	72.9	40.3	57.9%	3.3%
MOBL	MobileIron, Inc.	(26.0%)	(123.3%)	1.5x	96.5	19.6	73.3%	N/A
NTNX	Nutanix, Inc.	(36.5%)	(255.0%)	2.1x	68.4	74.7	73.5%	N/A
PAYC	Paycom Software, Inc.	3.7%	40.8%	1.0x	2.1	33.0	89.2%	25.6%
PCTY	Paylocity Holding Corporation	(0.2%)	(3.0%)	1.1x	2.5	9.8	90.0%	N/A
PEGA	Pegasystems, Inc.	4.0%	8.2%	1.5x	116.3	20.7	48.7%	N/A
QLYS	Qualys, Inc.	5.3%	8.5%	2.3x	82.6	19.0	36.5%	N/A
RNG	RingCentral, Inc.	(6.9%)	(24.4%)	1.8x	25.4	26.5	48.5%	11.6%
CRM	salesforce.com, inc.	0.3%	2.9%	0.8x	124.2	15.3	57.3%	36.1%
SQI	SQLi	5.0%	8.0%	1.2x	131.2	50.0	53.5%	17.4%
SCWX	SecureWorks Corp.	(4.7%)	(7.1%)	1.3x	87.3	38.4	29.5%	N/A
NOW	ServiceNow, Inc.	(4.9%)	(94.7%)	1.2x	69.2	34.6	81.0%	131.2%
TNGO	Tangoe, Inc.	(0.1%)	(2.3%)	2.9x	93.9	38.4	19.9%	2.8%
RUBI	The Rubicon Project, Inc.	2.4%	8.8%	1.9x	190.3	NM	37.9%	N/A
ULTI	The Ultimate Software Group, Inc	2.0%	7.9%	1.1x	68.5	12.8	62.5%	2.1%
TWLO	Twilio Inc.	(8.1%)	(18.5%)	4.8x	29.9	9.8	20.2%	N/A
UPLD	Upland Software, Inc.	(2.3%)	(25.7%)	0.9x	63.0	32.3	57.6%	66.3%
VRNS	Varonis Systems, Inc.	(5.7%)	(21.3%)	1.9x	112.7	45.0	54.5%	N/A
WDAY	Workday, Inc.	(8.0%)	(35.5%)	1.9x	79.0	17.6	63.3%	46.0%
WK	Workiva Inc.	(19.0%)	(389.3%)	1.0x	39.1	21.2	102.2%	(675.2%)
XTLY	Xactly Corporation	(13.1%)	(163.0%)	1.0x	75.9	14.0	91.9%	204.2%
XRO	Xero Limited	(16.8%)	(29.3%)	3.2x	42.1	142.4	19.0%	N/A
ZEN	Zendesk, Inc.	(14.5%)	(35.0%)	1.7x	37.3	27.1	37.0%	N/A
ZIXI	Zix Corporation	9.2%	11.0%	1.0x	5.2	88.4	40.4%	N/A
	Min	(36.5%)	(389.3%)	0.7x	2.1	8.3	12.8%	(675.2%)
	Median	(4.8%)	(18.1%)	1.3x	68.5	30.1	54.5%	16.3%
	Mean	(5.5%)	(47.3%)	1.8x	68.6	38.3	56.7%	19.4%
	Max	9.2%	40.8%	7.3x	190.3	142.4	118.5%	884.3%



FIB SaaS Index Key

FIB SaaS Index - Key

Ticker	Company Name	Vertical/Business Description	Website
Vertical	SaaS Companies		
rwou	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
ATHN	athenahealth, Inc.	Healthcare: Revenue cycle management, practice management and electronic health record management	https://www.athenahealth.com
BCOV	Brightcove Inc.	Media, Marketing & Enterprise: Video marketing suite and video delivery	https://www.brightcove.com
COM	ChannelAdvisor Corporation	E-commerce: Platform that enables retailers and brands to manage their e-commerce operations	https://www.channeladvisor.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
ELLI	Ellie Mae, Inc.	Residential Mortgage: Loan origination and enterprise management software	https://www.elliemae.com
IVN	Five9, Inc.	Contact Centers: Virtual contact center platform	https://www.five9.com
NST	Instructure, Inc.	Higher Education: Learning management platform for academic institutions and corporations	https://www.instructure.com
<xs< td=""><td>Kinaxis Inc.</td><td>Manufacturing: Supply chain management solutions</td><td>https://www.kinaxis.com</td></xs<>	Kinaxis Inc.	Manufacturing: Supply chain management solutions	https://www.kinaxis.com
MDSO	Medidata Solutions, Inc.	Life Sciences: Data analytics platform for clinical research	https://www.mdsol.com
MB	MINDBODY, Inc.	Wellness: Business management software for small and medium sized businesses in the wellness industry	https://www.mindbodyonline.com
MIX	MiX Telematics Limited	Transportation & Logistics: Driver safety, vehicle tracking and fleet management services and solutions	https://www.mixtelematics.co.za
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
NH	NantHealth, Inc.	Healthcare: Focused on developing and marketing a range of healthcare solutions	http://nanthealth.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
бнор	Shopify Inc.	E-commerce/Retail: E-commerce platform for small and medium-sized businesses	https://www.shopify.ca
SPSC	SPS Commerce, Inc.	Consumer Packaged Goods/Retail/Distribution: Supply chain management solutions	https://www.spscommerce.com
VEEV	Veeva Systems Inc.	Life Sciences: Content management, CRM, customer master and customer data platforms	https://www.veeva.com
Horizont	al SaaS Companies		
EGHT	8x8 Inc.	Communications suite that provides call center solutions, business phone services, collaboration and virtual meetings	https://www.8x8.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



FIB SaaS Index Key, Cont'd

Ticker	Company Name	Vertical/Business Description	Website
Horizon	tal SaaS Companies		
APTI	Apptio, Inc.	Enable IT leaders to analyze, optimize, and plan technology investments, and to benchmark their financial and operational performance against peers	http://www.apptio.com/
BAS1V	BasWare Oyj	E-voicing and E-procurement solutions	https://www.basware.com
BV	Bazaarvoice, Inc.	User-generated content engine that helps brands and retailers capture, manage and respond to customer input	https://www.bazaarvoice.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
CALD	Callidus Software Inc.	Marketing automation, territory optimization, sales enablement, configure price quote, contract lifecycle management, incentive compensation and sales talent management solutions	https://www.calliduscloud.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
CTXS	Citrix Systems, Inc.	Solutions that power business mobility through secure, mobile workspaces that provide instant access to apps, desktops, data and communications on any device, over any network and cloud	https://www.citrix.com
CSOD	Cornerstone OnDemand, Inc.	Applications to recruit, train, manage and connect people across an organization	https://www.cornerstoneondemand.com
COTV	Cotiviti Holdings, Inc.	Enables payers to achieve accuracy across the payment continuum and improve their financial results	http://www.cotiviti.com
COUP	Coupa Software Incorporated	Provides a cloud-based spend management platform	http://www.coupa.com/
COVS	Covisint Corporation	Platform that enables rapid development, operation, and securing of identity and IoT applications	https://www.covisint.com
EGAN	eGain Corporation	Digital customer engagement solutions	https://www.egain.com
EVBG	Everbridge, Inc.	Provides critical 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/
HGN	Halogen Software Inc.	Talent management solutions such as performance management, learning & development, succession & leadership development, compensation management and recruiting & onboarding	https://www.halogensoftware.com
HUBS	HubSpot, Inc.	Customer relationship management, marketing, and sales solutions	https://www.hubspot.com
JIVE	Jive Software, Inc.	Enterprise collaboration solutions	https://www.jivesoftware.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
MRIN	Marin Software Incorporated	Performance advertising platform	https://www.marinsoftware.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
NTNX	Nutanix, Inc.	Provides enterprise cloud platform solutions that converge traditional silos of server, virtualization, and storage into one integrated solution	https://www.nutanix.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

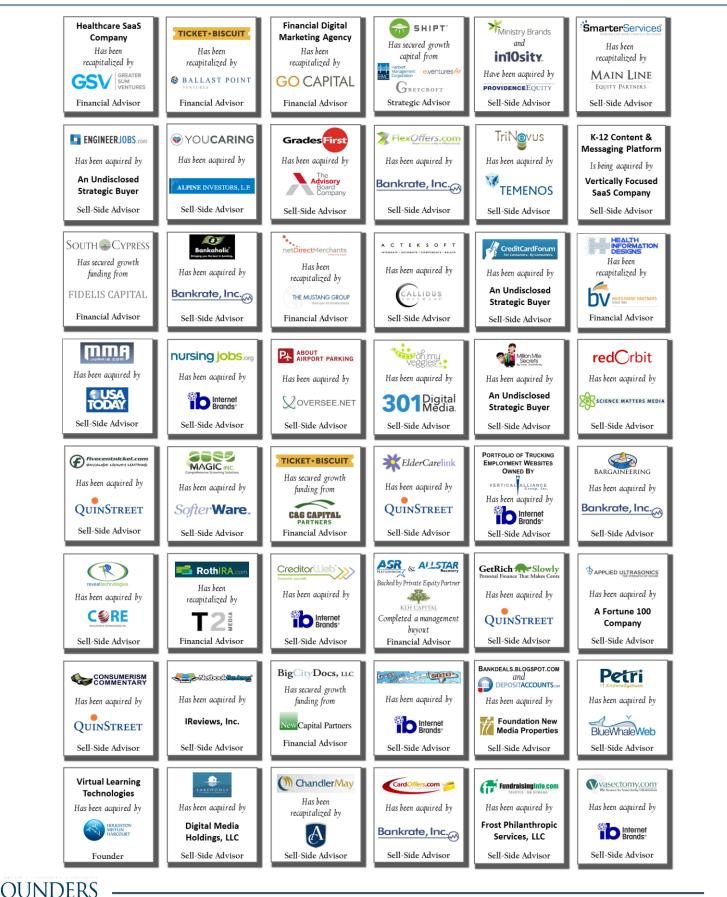


FIB SaaS Index Key, Cont'd

Ticker	Company Name	Vertical/Business Description	Website
Horizon	tal SaaS Companies		
PEGA	Pegasystems Inc.	Customer relationship management applications, application development platform, and operations applications	https://www.pega.com
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
SQI	SciQuest, Inc.	Spend management and procurement solutions	https://www.sciquest.com
SCWX	SecureWorks 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
TNGO	Tangoe, Inc.	Platform for the management of IT assets, services and costs	https://www.tangoe.com
RUBI	The Rubicon Project, Inc.	Automated buying and selling of advertising	https://rubiconproject.com
ULTI	The Ultimate Software Group, Inc.	Human resources and payroll solutions	https://www.ultimatesoftware.com
TWLO	Twilio, Inc.	Twilio allows software developers to programmatically make and receive phone calls and send and receive text messages using its web service APIs	https://www.twilio.com
UPLD	Upland Software, Inc.	Enterprise work management products that enable document and workflow automation, financial management, mobile engagement management, professional services automation, etc.	https://uplandsoftware.com
VRNS	Varonis Systems, Inc.	Platform that enables enterprises to map, analyze, manage, and migrate their unstructured data	https://www.varonis.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
XTLY	Xactly Corporation	Suite of solutions including sales compensation planning, employee performance management, sales quote planning & management, incentive compensation, etc.	https://www.xactlycorp.com
XRO	Xero Limited.	Accounting software for small businesses, accountants and bookkeepers	https://www.xero.com
ZEN	Zendesk, Inc.	Customer service platform	https://www.zendesk.com
ZIXI	Zix Corporation	Email encription/security	https://www.zixcorp.com



FIB Technology Transactions





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Founders Investment Banking

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