VISTA POINT advisors

Mergers & Acquisitions | Capital Raising | Strategic Advisory

Software Industry Update Q1 2019

Vista Point Advisors Overview

Vista Point Advisors was founded on the principle that founder-led technology companies in the emerging and middle markets are unique and require specialized attention and advice when considering investment and exit opportunities. Our unique focus on sell-side processes provides our clients with unconflicted advice that assures our interests are completely aligned with the entrepreneur. VPA is focused exclusively on working with founder-owned and operated businesses to deliver the most favorable transactions at premium valuations.



Unconflicted Advice

Vista Point exclusively provides sell-side M&A and Capital Raising advisory services to technology businesses removing the conflict of interest associated with working both sides of the table.



Deep Technology Domain Expertise

Vista Point bankers are industry specialists that focus exclusively on core technology markets allowing us to provide relevant insights into our client's business and create the strategic framework to optimize valuation.



Differentiated Negotiation Framework

The firm utilizes a unique negotiation framework to increase the competitiveness of the transaction process, and ultimately yield higher valuations at better terms for clients.

Our Differentiated Model Yields Differentiated Results



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- There were 370 reported software M&A transactions in Q1 2019 totaling \$73.7b in reported transaction value
 - Software M&A deal volume in Q1 2019 was up 3.9% relative to Q1 2018, which saw 356 transactions
 - Notable deals include:
 - Fiserv's \$37.7b acquisition of First Data, representing 4.0x LTM Revenue
 - CCPIB, GIC Private, and Hellman & Friedman's \$10.8b acquisition of Ultimate Software Group, representing 9.5x LTM Revenue
 - Cloudera's \$5.1b acquisition of Hortonworks, representing 15.6x LTM Revenue
 - Thoma Bravo's \$3.4b acquisition of Ellie Mae, representing 7.1x LTM Revenue
 - Vista Equity Partners' \$1.7b acquisition of Apptio, representing 7.5x LTM Revenue
- The Software IPO market saw one major IPO pricing in Q1 2019
 - Lyft (NAS: LYFT), the second largest ride-sharing service provider in the U.S., raised \$2.3b on 3/29/19 and has traded up 8.7%
 through the end of the quarter



Active Acquirers and Notable Transactions

Most Active Acquirers (Since 2010)



Notable Recent Transactions

Acquirer	fiserv.	CIC H&F	cloudera	THOMA BRAVO	VISTA EQUITY PARTNERS
Target	First Data.	Ultimate SOFTWARE	HORTONWORKS	Compliance. Quality. Efficiency.	
Date	1/16/19	2/4/19	1/3/19	2/12/19	1/10/19
EV	\$37.7b	\$10.8b	\$5.1b	\$3.4b	\$1.7b
EV / LTM Rev	4.0x	9.5x	15.6x	7.1x	7.5x
EV / LTM EBITDA	12.4x	81.3x	N/A	39.3x	N/A

Source: Capital IQ and Pitchbook as of 3/31/19

Software M&A Market Overview

Quarterly Software M&A Value and Deal Count (Since 2011)



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Software M&A Market Overview

Transactions by Reported Value



Transactions by Target Funding

7% 13%	9% 11%	9% 16%	10% 13%	6% 17%	9% 17%	9% 13%	7% 19%	8% 16%	9% 15%	6% 10% 14%	6% 15%	7% 14%	6% 5% 14%	10% 16%	6% 7% 16%	6% 18%	7% 7% 20%	8% 16%	6% 13% 15%	6% 22%	6% 10% 16%	8% 11% 19%	8% 10% 20%	8% 10% 22%	8% 9% 21%	7% 16%	8% 11% 21%	9% 9% 17%	\$50M+ \$30-\$50M \$10-\$30M
73%	73%	70%	73%	70%	69%	68%	66%	68%	68%	66%	73%	70%	71%	66%	67%	67%	64%	67%	65%	65%	63%			56%	59%	70%	58%	61%	No Funding / Undisclosed
Q1 '12	Q2 '12	Q3 '12	Q4 '12	Q1 '13	Q2 '13	Q3 '13	Q4 '13	Q1 '14	Q2 '14	Q3 '14	Q4 '14	Q1 '15	Q2 '15	Q3 '15	Q4 '15	Q1 '16	Q2 '16	Q3 '16	Q4 '16	Q1 '17	Q2 '17	Q3 '17	Q4 '17	Q1 '18	Q2 '18	Q3 '18	Q4 '18	Q1 '19	

Source: Capital IQ and Pitchbook as of 3/31/19

Despite High Valuations, Investments Lead Exits 3:1



Source: Capital IQ and Pitchbook as of 3/31/19, Investors ranked by investments made in the last 12 months



IPO Summary

The IPO market experienced a slight downtick in Q1 2019, with only two major technology pricings on U.S. stock exchanges, although there is increasing talk of additional large IPOs this year

	IP	Os		First Follow-On	("FO") Offering	
Year	# of IPOs / Capital Raised	File to Price Change	# of FOs	% of FOs	Avg. Days Post Lockup Expiration	IPO to FOs Price Change
2019 Capital Raised # of IPOs	Software Internet Hardware \$ in billions \$ 3 \$ 0.1 \$ 2.3 \$ 0.1 \$ 2.3 \$ 1 2 1 1 2 3	Increase No Change Decrease	N/A	N/A	N/A	N/A
2018 Capital Raised # of IPOs	\$- \$10 \$20 \$30 \$40 \$50 \$16.6 \$22.7 \$40.0 32 15 6 53 - 20 40 60	9% 34% 57%	N/A	N/A	N/A	N/A
2017 Capital Raised # of IPOs	\$- \$5 \$10 \$1.9 \$3.4 \$5.6 14 12 17 - 10 20 30	53%	\$- \$0.5 \$1.0 \$0.1 1 - 5 10	6%	-35	100%

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Software Public Market Performance Last 3 Months





Source: Capital IQ and Pitchbook as of 3/31/19



Software Public Market Performance Last 3 Months (cont.)





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Software Public Market Performance

Public Market Performance Since January 1st, 2016





High Growth Software: NAS:UPLD, NYSE:SQ, TENB, ASX:XRO, NAS:COUP, NYS:ZEN, NAS:TEAM, NAS:PFPT, NAS:SPLK, EBIX, NYS:HUBS, NYS:NOW, DOCU, NEWR, NAS:FSCT, NYS:DATA, NAS:WDAY, NAS:CYBR All Software: See all bucketed companies

High Margin Software: NAS:VRSN, NAS:MSFT, NAS:PAYX, NYS:ORCL, NAS:AZPN, NYS:VMW, FISV, NYS:PAYC, TSE:OTEX, JKHY, NAS:ADBE, FIS, SWI, EBIX, NAS:LOGM, TSE:DSG, NAS:INTU, FRA:SOW Source: Capital IQ and Pitchbook as of 3/31/19; ¹ No companies in this group reported positive LTM EBITDA



Public Company Summary

						Software							
	CRM	Accounting / ERP	Supply Chain Management	Human Capital Management	Knowledge / Content Management	Business Intelligence	Systems / Network Management	Security / Storage	Application Infrastructure	Financial Technology	Healthcare IT/ Life Sciences Software	Median	Mean
52-Wk High	95%	91%	88%	96%	89%	95%	88%	87%	87%	93%	77%	89%	90
Aggregate Mkt Cap (\$ in m)	\$147,982	\$539,452	\$201,492	\$101,303	\$193,043	\$166,246	\$188,231	\$125,310	\$1,314,270	\$146,194	\$46,270	\$166,246	\$288,16
Aggregate EV (\$ in m)	\$146,217	\$591,976	\$202,551	\$99,273	\$194,745	\$200,330	\$191,020	\$122,233	\$1,314,796	\$160,616	\$45,161	\$191,020	\$297,17
Quarterly Mkt Cap % Change	19.8%	17.7%	16.0%	27.9%	20.7%	20.6%	24.9%	24.3%	15.9%	20.1%	20.4%	20.4%	20.8
Quarterly EV % Change	18.1%	17.8%	15.5%	29.7%	20.8%	17.6%	33.1%	24.4%	17.5%	8.1%	15.6%	17.8%	19.8
LTM EV / Revenue	10.5x	6.4x	8.9x	8.6x	4.3x	3.5x	4.6x	7.0x	5.1x	6.6x	3.1x	6.4x	6.3
FY+1 EV / Revenue	8.6x	5.5x	8.3x	7.7x	4.2x	3.5x	4.5x	6.1x	5.0x	6.3x	2.9x	5.5x	5.7
FY+2 EV / Revenue	7.1x	5.0x	7.6x	6.7x	4.1x	3.4x	5.4x	6.2x	4.3x	5.9x	2.8x	5.4x	5.3
LTM EV / EBITDA	NM	16.3x	27.5x	19.1x	17.5x	21.0x	15.7x	36.9x	12.1x	19.8x	15.5x	18.3x	20.1
FY+1 EV / EBITDA	29.7x	16.3x	24.3x	26.8x	21.9x	13.1x	12.6x	24.4x	9.4x	19.5x	11.6x	19.5x	19.0
FY+2 EV / EBITDA	35.9x	14.9x	21.8x	23.5x	19.0x	11.1x	13.6x	22.7x	9.5x	18.7x	16.6x	18.7x	18.
LTM P / E	NM	25.9x	49.2x	80.1x	34.8x	53.9x	20.8x	56.3x	18.3x	44.7x	71.5x	47.0x	45.6
FY+1 P / E	109.0x	21.5x	38.2x	58.1x	26.4x	24.3x	18.1x	43.9x	17.7x	38.2x	31.5x	31.5x	38.
FY+2 P / E	99.2x	19.3x	34.2x	44.6x	33.2x	18.9x	18.9x	43.3x	16.6x	33.1x	34.8x	33.2x	36.
LTM Revenue Growth	27%	14%	7%	23%	9%	1%	14%	21%	15%	14%	14%	14%	15
FY+1 Revenue Growth	19%	8%	7%	21%	9%	7%	5%	19%	11%	8%	6%	8%	11
FY+2 Revenue Growth	20%	7%	8%	20%	9%	7%	7%	19%	6%	10%	7%	8%	11
LTM EBITDA Margin	1%	16%	28%	13%	8%	8%	17%	2%	18%	20%	16%	16%	13
FY+1 EBITDA Margin	12%	25%	34%	26%	22%	24%	27%	15%	27%	26%	17%	25%	23
FY+2 EBITDA Margin	14%	27%	35%	27%	25%	25%	29%	17%	28%	27%	18%	27%	25



Select Q1 2019 M&A Transactions

					Enterprise	Targe	t LTM	Enterpris	e Value /
Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
03/29/19	Torc Robotics	Daimler Trucks North America	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/29/19	Sparkler	The Nickelodeon Group	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/29/19	SimpleReach	Nativo	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
03/28/19	EAMS Group	Arcadis	SaaS	Platform / OS	N/A	N/A	N/A	N/A	N/A
03/28/19	File990	GI Partners	SaaS	Content / Document Management	N/A	N/A	N/A	N/A	N/A
03/28/19	Qriously	Brandwatch	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
03/28/19	Ipswitch	Progress Software	SaaS	File Sharing	\$225	\$75	N/A	3.0x	N/A
03/28/19	Buoy Labs	Resideo Technologies	On Premise	Mapping / Tracking	N/A	N/A	N/A	N/A	N/A
03/27/19	Monkey Group	ezCater	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/27/19	LemonStand	MailChimp	SaaS	Ecommerce	N/A	N/A	N/A	N/A	N/A
03/27/19	Circdata	Aquiline Capital Partners, ClearCourse Partnership	SaaS	Ecommerce	N/A	N/A	N/A	N/A	N/A
03/26/19	Tax Systems	Bowmark Capital	On Premise	Accounting / ERP	\$194	N/A	N/A	N/A	N/A
03/26/19	Criticall	Armira Partners, F24	On Premise	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
03/26/19	Entertainment Partners	TPG Capital	SaaS	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
03/26/19	Venue Management Systems	Hospitality Management Solutions	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/26/19	Numeracy	Snowflake	On Premise	Development	N/A	N/A	N/A	N/A	N/A
03/25/19	Retail10X	Sonata Software	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/25/19	Espial	Enghouse Systems	SaaS	Video Management	\$33	\$21	(\$3)	1.6x	N/M
03/25/19	Phacil	By Light Professional IT Services	On Premise	Governance, Risk, & Compliance	N/A	\$140	N/A	N/A	N/A
03/25/19	Entic	Aquicore	SaaS	Real Estate	N/A	N/A	N/A	N/A	N/A
03/25/19	PlanSource Benefits Administration	Vista Equity Partners	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
03/25/19	Deep Science	Defendry	On Premise	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
03/22/19	QualMetrix	Clinigence	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Kyriba	Bridgepoint Advisers	SaaS	Fintech	\$1,200	\$110	N/A	10.9x	N/A
03/22/19	RIVS	Clovis Point Capital	SaaS	Human Capital	N/A	\$7	\$3	N/A	N/A
	Meronimi	Proxima Group	SaaS	Supply Chain	N/A	N/A	N/A	N/A	N/A
	Sentient Ascend	Evolv Technologies	SaaS	Testing	N/A	N/A	N/A	N/A	N/A
03/21/19	• •	Apple	On Premise	Development	\$7	N/A	N/A	N/A	N/A
	JNPSoft	TecAlliance	On Premise	Supply Chain	N/A	N/A	N/A	N/A	N/A
03/21/19		Fort Point Capital	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Broadscope Fund Administrators	Apex Fund Services	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
	Spirit Data Capture	Renovotec Ltd	On Premise	Supply Chain	N/A	N/A	N/A	N/A	N/A
	Azuqua	Okta	On Premise	Development	\$53	N/A	N/A	N/A	N/A
	My Event Nation	SquadUP	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	The Financial Xchange	MLF Financial Group	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
	The Foundry Visionmongers	Roper Technologies	On Premise	CAD / CAM	\$697	N/A	N/A	N/A	N/A
	NexDefense	Dragos	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
	Lighthouse Practice Management Group	Henry Schein	SaaS	Vertical Software	N/A	\$50	N/A	N/A	N/A
	Bluesun	Internet Pipeline, Thoma Bravo	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
	AgileCraft	Atlassian	SaaS	Development	\$166	N/A	N/A	N/A	N/M
	Convenient Payments	The Beekman Group	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
	Tactical Communications Group	Curtiss-Wright	SaaS	Vertical Software	\$50	\$15	N/A	3.3x	N/A
	Pirum Systems	Bowmark Capital	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
	Kallidus	Apse Capital	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
03/18/19	DealerBuilt	ParkerGale Capital	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A

Other Operation Angliner Octory Sector Value Revenue BAIL NA						Enterprise	Targe	t LTM	Enterpris	se Value /
Op/14/10Modern ReboticsDarlightOn PremiseWenck StokenerN/AN/AN/AN/AN/AN/A03/14/10Kenck TechnologiesErnethene, Juard SolutonsOn PremiseFindenS500N/AN/AN/AN/A03/14/19Kencin StokeneErnetheneSizeN/AN/AN/AN/AN/AN/A03/14/19Kencin StokeneErnetheneSizeMich SolutonsN/AN/AN/AN/AN/A03/13/19NariaDefastErnetheneSizeMich SolutonsN/AN/AN/AN/AN/A03/13/19NariaDefastErnetheneSizeMich SolutonsN/AN/AN/AN/AN/AN/A03/13/19NariaMich SolutonsErnetheneSizeSizeSizeN/A <th>Date</th> <th>Target</th> <th>Acquirer</th> <th>Delivery</th> <th>Sector</th> <th> Value</th> <th></th> <th></th> <th>LTM Revenue</th> <th>LTM EBITDA</th>	Date	Target	Acquirer	Delivery	Sector	 Value			LTM Revenue	LTM EBITDA
09/14/09Modern RoboticsNANANANANANANANANA01/14/09Servet EnchanologiesGinzenitsMapping TrackingNANANANA03/14/19PreschSissoNaNANANANA03/14/19ArcanDafastiOn FremiseFinchSissoNANANANA03/12/19NaraDafastiDafastiSissoVentcal SoftwareNANANANANA03/12/19NaraDafastiCentral SoftwareSissoVentcal SoftwareNA	03/14/19	Blue Dot Solutions	Omnitracs, Vista Equity Partners	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
D01/LADSHintenEnventStoolNA	03/14/19	Modern Robotics	· · · ·	On Premise	Vertical Software		N/A	N/A	N/A	N/A
D/14/19Arrenal ageUplicitariamUplicitariamOn PremiseWeardNANANANANANAD/13/19NaronGenera Power SystemsSa5Weice ManagementNAS17S3NANAD/13/19NaronGenera Power SystemsSa5Weice ManagementNANANANANAD/13/19ProuderAllyIrragite Software, StRT Captal PathersOn PremiseTractchNA	03/14/19	Servelec Technologies	FFL Partners, Laurel Solutions	On Premise	Mapping / Tracking	N/A	N/A	N/A	N/A	N/A
02/13/10VarianDeCatSa5Victual SoftwareN/AN/AN/AN/AN/AN/AN/A03/13/10NorriorContract Power SyrtuantOn PremiseFrancehorN/AN/AN/AN/AN/A03/13/12ProgradDecarationaOn PremiseFrancehorN/AN/AN/AN/AN/AN/A03/13/12ProgradSecuraSiySecuraSiySa5SecuraCiv SorrigeN/AN/AN/AN/AN/AN/A03/13/12ProgradMediforugMila GroupSa5SecuraCiv SorrigeN/A	03/14/19	PIEtech	Envestnet	On Premise	Fintech	\$500	N/A	N/A	N/A	N/A
Di/linNurkinGeniera & Power SystemsSaasVertical SoftwareNAS17S13NANANAD3/121ProviderAllyImagine Software, KIG Capital PartnersOn FreniseFintechNANANANANAD3/121Powerd GroupCorrelsySassSecurity/StrazgeNANANANANANANAD3/111Figure SightOpenSassSecurity/StrazgeNA<	03/14/19	Arsenal.gg	Lightstream	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
00/12/19NOV200 SolutionsUniqueOn FrenixsFindechNAN	03/13/19	vzaar	DaCast	SaaS	Video Management	N/A	N/A	N/A	N/A	N/A
07/17/1ProviderAilyProder MayNA </td <td>03/13/19</td> <td>Neurio</td> <td>Generac Power Systems</td> <td>SaaS</td> <td>Vertical Software</td> <td>N/A</td> <td>\$17</td> <td>\$3</td> <td>N/A</td> <td>N/A</td>	03/13/19	Neurio	Generac Power Systems	SaaS	Vertical Software	N/A	\$17	\$3	N/A	N/A
07/17/19PengxSecure/Systems/NA <td>03/13/19</td> <td>ADVIZOR Solutions</td> <td>Pursuant</td> <td>On Premise</td> <td>Fintech</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	03/13/19	ADVIZOR Solutions	Pursuant	On Premise	Fintech	N/A	N/A	N/A	N/A	N/A
op/11/19The Weld GroupSax SVertical SoftwareN/AS14N/AN/AN/AN/A03/11/19Faquer EightAppenOn PremisSofte KoognitionS10N/A<	03/12/19	ProviderAlly	Imagine Software, KRG Capital Partners	On Premise	Fintech	N/A	N/A	N/A	N/A	N/A
Op/11/19 Fugure Eight Appen On Premise Speech Recognition S100 N/A N/A	03/12/19	EvengX	SecureSky	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
op/11/19 Avice Material Solutions On Premise Freenomunications NA	03/11/19	The Weidt Group	Willdan Group	SaaS	Vertical Software	N/A	\$14	N/A	N/A	N/A
03/11/19Nginx15 Networks07 N/A	03/11/19	Figure Eight	Appen	On Premise	Speech Recognition	\$300	N/A	N/A	N/A	N/A
03/11/19TechPilot LabsSecurityOP remixeVertical SolvanceN/AN/AN/AN/AN/A03/11/19VoiceMasterCardSas5Telecommunications5195540N/A4.9xN/A03/11/19Jogital PharmacistMasterCardSas6FintechN/A <td< td=""><td>03/11/19</td><td>Avtec</td><td>Motorola Solutions</td><td>On Premise</td><td>Telecommunications</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>	03/11/19	Avtec	Motorola Solutions	On Premise	Telecommunications	N/A	N/A	N/A	N/A	N/A
03/11/19VolteHil-Rom HoldingsSaTelecommunicationsS195S40N/A4.9N/A03/11/19Soro SoftwareDauntlesSaaSFintachN/AN/AN/AN/AN/A03/11/19Jordial PharmacistK1 Investment ManagementSaaSTelecommunicationsS125N/AN/AN/AN/AN/A03/06/19TorafsatsMasterGardSaaSTelecommunicationsN/A	03/11/19	Nginx	F5 Networks	On Premise	Systems / Network	\$670	N/A	N/A	N/A	N/A
0j1/1j19EthocaMater CardSaaSFintechNANANANANANA03/11/19Soro SoftwareDauntiesSaaSERMN/A <td>03/11/19</td> <td>TechPilot Labs</td> <td>Securly</td> <td>On Premise</td> <td>Vertical Software</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	03/11/19	TechPilot Labs	Securly	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
GA/1.1/19Soro SoftwareDaurllessSa 5CPMN/AN/AN/AN/AN/AN/AN/AN/AN/A03/11/19Joigtal PharmacistK1 Investment ManagementSa 35TelecommunicationsS125N/A <td>03/11/19</td> <td>Voalte</td> <td>Hill-Rom Holdings</td> <td>SaaS</td> <td>Telecommunications</td> <td>\$195</td> <td>\$40</td> <td>N/A</td> <td>4.9x</td> <td>N/A</td>	03/11/19	Voalte	Hill-Rom Holdings	SaaS	Telecommunications	\$195	\$40	N/A	4.9x	N/A
03/31/19Digital PharmacistK1 Investment ManagementSa STelecommunications\$125N/AN/AN/AN/AN/A03/06/19TransfastMasterCardSa SFintechN/A	03/11/19	Ethoca	MasterCard	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
03/08/19TransfastMasterCardSaaSFintechN/A	03/11/19	Soro Software	Dauntless	SaaS	CRM	N/A	N/A	N/A	N/A	N/A
03/08/19OctopiNavis HoldingsSaaSMapping / TrackingN/A	03/11/19	Digital Pharmacist	K1 Investment Management	SaaS	Telecommunications	\$125	N/A	N/A	N/A	N/A
03/07/19Accelerated DynamicsAnimal DynamicsOn PremiseMapping / TrackingN/AN/AN/AN/AN/AN/A03/07/19Floating Point FXCycloMedia Technology, ESO Capital GroupOn PremiseCAD / CAMN/A	03/08/19	Transfast	MasterCard	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
03/07/19Floating Point FXCycloMedia Technology, ESO Capital GroupOn PremiseCAD / CAMN/A </td <td>03/08/19</td> <td>Octopi</td> <td>Navis Holdings</td> <td>SaaS</td> <td>Mapping / Tracking</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	03/08/19	Octopi	Navis Holdings	SaaS	Mapping / Tracking	N/A	N/A	N/A	N/A	N/A
03/07/19NimbleDroidHeadSpinOn PremiseTestingN/A<	03/07/19	Accelerated Dynamics	Animal Dynamics	On Premise	Mapping / Tracking	N/A	N/A	N/A	N/A	N/A
03/07/19SnappyDataTIBCO Software, Virgo CapitalOn PremiseSystems / NetworkN/AN/AN/AN/AN/AN/A03/06/19PaysaCeridian HCMSaaSHuman CapitalN/AN/AN/AN/AN/A03/06/19Clearview LogixCeridian HCMOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19JoreflightBoeingOn PremiseBusiness IntelligenceN/AN/AN/AN/AN/AN/A03/06/19ForeflightBoeingOn PremiseVertical SoftwareN/AN/AN/AN/AN/A03/06/19ForeflightBoeingOn PremiseVertical SoftwareN/AN/AN/AN/AN/A03/06/19TouchtownAtlantic Street Capital, Ocean Avenue Capital PartnersOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19Videre esportsGlobal Gaming TechnologiesSaaSEcommerceS9N/AN/AN/AN/AN/A03/06/19QuickMarOrgoneer Investment GroupSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19QuickMarSouthfield CapitalOn PremiseMapping / TrackingN/AN/AN/AN/AN/A03/05/19QuickMarVidere esportsGlobal Gaming TechnologiesSaaSBusiness SoftwareN/AN/AN/AN/AN/A0	03/07/19	Floating Point FX	CycloMedia Technology, ESO Capital Group	On Premise	CAD / CAM	N/A	N/A	N/A	N/A	N/A
03/06/19PaysaCeridian HCMSaaSHuman CapitalN/AN/AN/AN/AN/A03/06/19Clearview LogixCeridian HCMOn PremiseVertical SoftwareN/AN/AN/AN/AN/A03/06/19daVIZtaAccel-KKR, IntegriChainOn PremiseBusienss IntelligenceN/AN/AN/AN/AN/AN/A03/06/19foreflightBoeingOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19foreflightSolaging TechnologySilver Lake ManagementSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19foder eSportsGlobal Gaming TechnologiesSaaSSecommerceSp<	03/07/19	NimbleDroid	HeadSpin	On Premise	Testing	N/A	N/A	N/A	N/A	N/A
03/06/19Clearview LogixCeridian HCMOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19daVIZtaAccel-KKR, IntegriChainOn PremiseBusiness IntelligenceN/AN/AN/AN/AN/AN/A03/06/19foreFlightBoeingOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/AN/A03/06/19Assessment TechnologySilver Lake ManagementSaaSVertical SoftwareN/A<	03/07/19	SnappyData	TIBCO Software, Virgo Capital	On Premise	Systems / Network	N/A	N/A	N/A	N/A	N/A
03/06/19davIZtaAccel-KKR, Integri ChainOn PremiseBusiness IntelligenceN/AN/AN/AN/AN/A03/06/19ForeFlightBeeingOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19Assessment TechnologySilver Lake ManagementSaaSVertical SoftwareN/A<	03/06/19	Paysa	Ceridian HCM	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
03/06/19ForeFlightBoeingOn PremiseVertical SoftwareN/AN/	03/06/19	Clearview Logix	Ceridian HCM	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/06/19Assessment TechnologySilve Lake ManagementSaa SVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19TouchtownAtlantic Street Capital, Ocean Avenue Capital PartnersOn PremiseVertical SoftwareN/A<	03/06/19	daVIZta	Accel-KKR, IntegriChain	On Premise	Business Intelligence	N/A	N/A	N/A	N/A	N/A
03/06/19TouchtownAtlantic Street Capital, Ocean Avenue Capital PartnersOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19Videre eSportsGlobal Gaming TechnologiesSaaSEcommerce\$9N/AN/AN/AN/AN/A03/06/19APTAREACE & Company, GIC PrivateOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A03/06/19QuickMarDragoneer Investment GroupSaaSVertical SoftwareN/AN/AN/AN/AN/A03/06/19Protos SecuritySouthfield CapitalOn PremiseMapping / TrackingN/AN/AN/AN/AN/A03/05/19Inva KCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/A03/05/19Chrome RiverCertifyOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/A03/05/19Gub Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19UDD D Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn PremiseFintechN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn P	03/06/19	ForeFlight	Boeing	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/06/19Videre eSportsGlobal Gaming TechnologiesSaaSEcommerce\$9N/AN/AN/AN/AN/A03/06/19APTAREACE & Company, GIC PrivateOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A03/06/19QuickMarDragoneer Investment GroupSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19Protos SecuritySouthfield CapitalOn PremiseMapping / TrackingN/AN/AN/AN/AN/AN/A03/05/19Ink AKCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19Ink AKCWagzOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/AN/A03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19QUDD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn PremiseFintechN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn Premise <td< td=""><td>03/06/19</td><td>Assessment Technology</td><td>Silver Lake Management</td><td>SaaS</td><td>Vertical Software</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>	03/06/19	Assessment Technology	Silver Lake Management	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/06/19APTAREACE & Company, GIC PrivateOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A03/06/19QuickMarDragoneer Investment GroupSaa SVertical SoftwareN/AN/AN/AN/AN/AN/AN/A03/06/19Protos SecuritySouthfield CapitalOn PremiseMapping / TrackingN/AN/AN/AN/AN/AN/AN/A03/05/19NvoicepayFleetCor TechnologiesSaa SBusiness SoftwareN/AN/AN/AN/AN/AN/A03/05/19Link AKCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/AN/A03/05/19UUDD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A <t< td=""><td>03/06/19</td><td>Touchtown</td><td>Atlantic Street Capital, Ocean Avenue Capital Partners</td><td>On Premise</td><td>Vertical Software</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></t<>	03/06/19	Touchtown	Atlantic Street Capital, Ocean Avenue Capital Partners	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/06/19QuickMarDragoner Investment GroupSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A03/06/19Protos SecuritySouthfield CapitalOn PremiseMapping / TrackingN/AN/AN/AN/AN/AN/AN/A03/05/19InvoicepayFleetCor TechnologiesSaaSBusiness SoftwareN/AN/AN/AN/AN/AN/AN/A03/05/19Link AKCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19Chrome RiverCertifyOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/AN/A03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/AN/A03/05/19UDOD Financial Information ServicesFinancewareOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseSaSContent and ServicesN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseSaSContent and ServicesN/AN/AN/AN/AN/A03/05/19UghthouseBioTelemetrySaaSVertical SoftwareN/AN/AN/AN/AN/A03/05/19 <td>03/06/19</td> <td>Videre eSports</td> <td>Global Gaming Technologies</td> <td>SaaS</td> <td>Ecommerce</td> <td>\$9</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	03/06/19	Videre eSports	Global Gaming Technologies	SaaS	Ecommerce	\$9	N/A	N/A	N/A	N/A
03/06/19Protos SecuritySouthfield CapitalOn PremiseMapping / TrackingN/AN/AN/AN/AN/AN/A03/05/19NvoicepayFleetCor TechnologiesSaaSBusiness SoftwareN/AN/AN/AN/AN/AN/A03/05/19Link AKCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19CertifyCertifyOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/A03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19UUODD Financial Information ServicesFinancewareOn PremiseFeurity / StorageN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseSaSContent and ServicesN/AN/AN/AN/AN/A03/05/19UghthouseAppleOn PremiseSaSContent and ServicesN/AN/AN/AN/AN/A03/05/19Genva Health SolutionsBioTelemetrySaSVertical SoftwareSoftwareN/AN/AN/AN/AN/A03/05/19UghthouseBioTelemetrySaSVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19UghthouseSaS	03/06/19	APTARE	ACE & Company, GIC Private	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
03/05/19NvoicepayFleetCor TechnologiesSaa SBusiness SoftwareN/AN/AN/AN/AN/AN/A03/05/19Link AKCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A03/05/19Chrome RiverCertifyOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/AN/A03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19UUODD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19UjobD Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19UUODD Financial Information ServicesFinancewareOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19UighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaa SVertical Software\$65\$6N/A10.8xN/A	03/06/19	QuickMar	Dragoneer Investment Group	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/05/19Link AKCWagzOn PremiseVertical SoftwareN/AN/AN/AN/AN/A03/05/19Chrome RiverCertifyOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/A03/05/19Fain Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19QUODD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19WhiteHat SecurityNTT SecurityOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19LighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/04/19SeedInvestCircleSaSContent and ServicesN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaaSVertical Software\$65\$6N/A10.8xN/A	03/06/19	Protos Security	Southfield Capital	On Premise	Mapping / Tracking	N/A	N/A	N/A	N/A	N/A
03/05/19Chrome RiverCertifyOn PremiseAccounting / ERP\$1,000N/AN/AN/AN/A03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19QUODD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19WhiteHat SecurityNTT SecurityOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19LighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/04/19SeedInvestCircleSaaSContent and ServicesN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaaSVertical Software\$65\$6N/A10.8xN/A	03/05/19	Nvoicepay	FleetCor Technologies	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
03/05/19Farin Financial Risk ManagementAccel-KKROn PremiseFintechN/AN/AN/AN/AN/A03/05/19QUODD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19WhiteHat SecurityNTT SecurityOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19LighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/05/19SeedInvestCircleSaaSContent and ServicesN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaaSVertical Software\$65\$6N/A10.8xN/A	03/05/19	Link AKC	Wagz	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/05/19QUODD Financial Information ServicesFinancewareOn PremiseFintechN/AN/AN/AN/AN/A03/05/19WhiteHat SecurityNTT SecurityOn PremiseSecurity / StorageN/AN/AN/AN/AN/A03/05/19LighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/05/19SeedInvestCircleSaaSContent and ServicesN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaaSVertical Software\$65\$6N/A10.8xN/A	03/05/19	Chrome River	Certify	On Premise	Accounting / ERP	\$1,000	N/A	N/A	N/A	N/A
03/05/19WhiteHat SecurityNTT SecurityOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A03/05/19LighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/AN/A03/05/19SeedInvestCircleSaaSContent and ServicesN/AN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaaSVertical Software\$65\$6N/A10.8xN/A		0					,	,	,	,
03/05/19LighthouseAppleOn PremiseContent and ServicesN/AN/AN/AN/AN/A03/04/19SeedInvestCircleSaaSContent and ServicesN/AN/AN/AN/AN/A03/04/19Geneva Health SolutionsBioTelemetrySaaSVertical Software\$65\$6N/A10.8xN/A							,	,	,	,
03/04/19 SeedInvest Circle SaaS Content and Services N/A N/A N/A N/A N/A N/A 03/04/19 Geneva Health Solutions BioTelemetry SaaS Vertical Software \$65 \$6 N/A 10.8x N/A		•	-				•	•		
03/04/19 Geneva Health Solutions BioTelemetry SaaS Vertical Software \$65 \$6 N/A 10.8x N/A	03/05/19	Lighthouse	Apple	On Premise	Content and Services		N/A	N/A	,	
	03/04/19	SeedInvest	Circle	SaaS	Content and Services	,	,	,	,	,
03/04/19 Sentral Education Global Payments SaaS Vertical Software N/A N/A N/A N/A N/A N/A			BioTelemetry		Vertical Software			,		,
	03/04/19	Sentral Education	Global Payments	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A

					Enterprise	Targe	et LTM	Ent <u>erpri</u>	se Value /
Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
03/04/19	BluVector	Comcast	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
03/04/19	EnableSoft	Macquarie Asset Management	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
03/04/19	Every	Wave	On Premise	Fintech	N/A	N/A	N/A	N/A	N/A
03/04/19	Golden Hour	ZOLL Medical	On Premise	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
03/04/19	TranSend Solutions	Civica-UK	SaaS	Supply Chain	N/A	N/A	N/A	N/A	N/A
03/01/19	Cartasite	Geoforce	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
03/01/19	ProtectWise	Verizon Communications	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
02/28/19	Verimatrix	INSIDE Secure	On Premise	Security / Storage	\$158	\$79	\$15	2.0x	10.9x
02/28/19	SolaCom Technologies	Comtech Telecommunications	SaaS	Vertical Software	\$33	N/A	N/A	N/A	N/A
02/28/19	MicroPact	Tyler Technologies	SaaS	Development	\$195	\$70	N/A	2.8x	N/A
02/28/19	Speedpay	ACI Worldwide	SaaS	Fintech	\$750	\$350	N/A	2.1x	N/A
02/28/19	Audaxium	GSD Company	SaaS	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
02/28/19	AllSight	AlpInvest Partners, CPPIB	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
02/28/19	iGov Solutions	i3 Verticals	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/27/19	Aptean	TA Associates Management	On Premise	Accounting / ERP	\$1,000	N/A	N/A	N/A	N/A
02/27/19	ShiftMe	Forge	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
02/27/19	Bedrock Data	Formstack	SaaS	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
02/27/19	Limejump	Royal Dutch Shell	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/26/19	Clients First Business Solutions	Datix	On Premise	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
02/26/19	Cursor	DataRobot	SaaS	Content / Document Management	N/A	N/A	N/A	N/A	N/A
02/26/19		ServiceMax	On Premise	Telecommunications	N/A	N/A	N/A	N/A	N/A
02/25/19		HII Technical Solutions	SaaS	IT Infrastructure & Management	\$193	\$160	N/A	1.2x	N/A
	SolidOpinion	Ideanomics	SaaS	Content and Services	N/A	N/A	N/A	N/A	N/A
		Piper Jaffray	On Premise	Fintech	\$42	N/A	N/A	N/A	N/A
02/25/19	Worksoft	Marlin Equity Partners	SaaS	Testing	N/A	N/A	N/A	N/A	N/A
	Sea Pine Technologies	Zurich American Insurance Company	SaaS	Fintech	N/A	N/A	N/A	N/A	N/M
	ConnectWise	Thoma Bravo	SaaS	Business Software	\$1,500	N/A	N/A	N/A	N/A
02/25/19		Crosslink Professional Tax Solutions	On Premise	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
	STR Helper	Host Compliance	SaaS	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
	Contactually	Compass	SaaS	CRM	N/A	N/A	N/A	N/A	N/A
	Containerchain	WiseTech Global	SaaS	Supply Chain	\$48	\$107	N/A	0.4x	N/A
02/25/19	Preparis	Agility Recovery	SaaS	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
02/22/19	nCipher Security	Entrust Datacard	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
02/22/19	Business Equipment Consultants	NCR	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
02/22/19		Appriss Retail	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
	Euclid Technology	Aquiline Capital Partners	SaaS	Business Intelligence	N/A	N/A	N/A	N/A	N/A
02/21/19	Cylance	Blackberry	SaaS	Security / Storage	\$1,500	N/A	N/A	N/A	N/M
02/21/19	HomeFront Software	Hyphen Solutions	SaaS On Bromise	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
	Shippable Attunity	JFrog	On Premise SaaS	Development	N/A \$516	N/A \$86	N/A \$9.1	N/A 6.0x	N/A 56.8x
02/21/19	1	CPPIB, QlikTech International		Integration / Middleware					
	About.me Schwab Performance Technologies	Broadly	On Premise On Premise	Content & Services	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	5	Envestnet Tamarac	On Premise On Premise	Business Intelligence	N/A	N/A N/A	N/A N/A		N/A N/A
		EnergyIQ The Nielsen Company	On Premise	Vertical Software Video Management	N/A \$11	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Watermark Learning			•	\$11 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
02/21/19	watermark Learning	Leeds Equity Partners	On Premise	Vertical Software	N/A	N/A	N/A	IN/A	IN/A

					Enterprise	Targe	t LTM	Enterpri	se Value /
Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
02/21/19	TopYa!	Challenger Sports	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/20/19	AppRiver	True Wind Capital, Zix	On Premise	Security / Storage	\$275	N/A	N/A	N/A	N/A
02/19/19	CityBase	GTY Technology Holdings	SaaS	Vertical Software	\$160	N/A	N/A	N/A	N/A
02/19/19	Questica	GTY Technology Holdings	SaaS	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
02/19/19	Bonfire	GTY Technology Holdings	On Premise	Business Software	\$108	N/A	N/A	N/A	N/A
02/19/19	Demisto	Palo Alto Networks	On Premise	Security / Storage	\$560	N/A	N/A	N/A	N/A
02/19/19	PanaCast	GN Store Nord	On Premise	Video Management	\$125	N/A	N/A	N/A	N/A
02/19/19	Alooma	Alphabet	On Premise	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
02/19/19	PivotDesk	SquareFoot	SaaS	Ecommerce	N/A	N/A	N/A	N/A	N/A
02/19/19	Delivery BIZ Pro	GetSwift	SaaS	Business Intelligence	\$5	N/A	N/A	N/A	N/A
02/19/19	Donseed	Causeway Technologies	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/19/19	Buyatab	Stored Value Systems	SaaS	Ecommerce	N/A	N/A	N/A	N/A	N/A
02/19/19	SchoolAdmin	Quad Partners	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/19/19	WLM	Causeway Technologies	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/15/19	Mindbody	Vista Equity Partners	SaaS	Ecommerce	\$1,575	\$229	(\$26)	6.9x	N/M
02/15/19	Interset	Micro Focus	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
02/15/19	PullString	Apple	On Premise	Development	\$30	N/A	N/A	N/A	N/A
02/15/19	IcePortal	Beijing Shiji Information Technology	SaaS	Content / Document Management	N/A	N/A	N/A	N/A	N/A
02/15/19	BitMitigate	Epik.com	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
02/14/19	Assima	Partner One Capital	On Premise	Business Software	\$8	N/A	N/A	N/A	N/A
02/14/19	Enterworks	STG Partners	On Premise	Business Intelligence	N/A	N/A	N/A	N/A	N/A
02/14/19	Browz	Avetta, Norwest Venture Partners	SaaS	Supply Chain	N/A	N/A	N/A	N/A	N/A
02/14/19	Steward	The Sales Developers	On Premise	Content and Services	N/A	N/A	N/A	N/A	N/A
02/13/19	ECustoms	Descartes Systems Group	SaaS	Governance, Risk, & Compliance	\$194	\$40	N/A	4.9x	N/A
02/13/19	Ooyala	Brightcove	On Premise	Diversified Media	\$15	N/A	N/A	N/A	N/A
02/13/19	Anaqua	Astorg Partners	SaaS	Content / Document Management	N/A	N/A	N/A	N/A	N/A
02/13/19	Ushr	Dynamic Map Platform	On Premise	Mapping / Tracking	\$200	N/A	N/A	N/A	N/A
02/13/19	Vocalize.ai	Sensory	On Premise	Speech Recognition	N/A	N/A	N/A	N/A	N/A
02/13/19	Proactive Technologies	Abacus Group	On Premise	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
02/13/19	Axis New England	Motion Industries	On Premise	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
02/13/19	•	THQ Nordic	On Premise	Diversified Media	\$3	\$18	N/A	0.2x	N/A
	Axis New York	Motion Industries	On Premise	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
02/12/19	GreenShoot Labs	The Panoply Holdings	SaaS	Business Software	\$12	N/A	N/A	N/A	N/A
02/12/19	Trunk	InVision	SaaS	File Sharing	N/A	N/A	N/A	N/A	N/A
02/12/19	Ellie Mae	Thoma Bravo	SaaS	Fintech	\$3,397	\$480	\$86	7.1x	39.3x
02/12/19	Netsend	Corcentric	SaaS	Content / Document Management	N/A	N/A	N/A	N/A	N/A
02/12/19	Connotate	import.io	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/12/19	Agency Multiplied	Arthur J. Gallagher & Company	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
02/12/19	Fenris IV	Dark2	SaaS	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
02/12/19	Vantage Computing	Asolvi	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/12/19	Vandegrift Forwarding	A.P. Møller-Mærsk	SaaS	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
02/12/19	Adya	Qualys	SaaS	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
02/11/19	IDology	GB Group	SaaS	Security / Storage	N/A	N/A	\$16	N/A	N/A
02/11/19	Solium Capital	Morgan Stanley	SaaS	Fintech	\$574	\$108	\$14	5.3x	42.3x
02/11/19	HallGo	MobiTech International	SaaS	Hosting / Data Center	N/A	N/A	N/A	N/A	N/A

					Enterprise	Targe	t LTM	Ent <u>erpri</u>	se Value /
Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
02/11/19	Jobvite	K1 Investment Management	SaaS	Human Capital	\$200	N/A	N/A	N/A	N/A
02/11/19	Determine	Corcentric	SaaS	Hosting / Data Center	\$24	\$24	(\$10)	1.0x	N/M
02/11/19	Technical Response Planning	Gryphon Investors	SaaS	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
02/11/19	Canvas Talent	Jobvite, K1 Investment Management	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
02/11/19	SignCAD Systems	Bentley Systems	On Premise	CAD / CAM	N/A	N/A	N/A	N/A	N/A
02/11/19	F&I Administration Solutions	StoneEagle F&I	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
02/11/19	StoneEagle	StoneEagle F&I	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
02/11/19	STR	Gregory C. Rigamer & Associates	SaaS	Business Intelligence	N/A	N/A	N/A	N/A	N/A
02/11/19	Talemetry	Jobvite	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
02/08/19	GrokStyle	Facebook	SaaS	Ecommerce	N/A	N/A	N/A	N/A	N/A
02/08/19	Think Chromatic	Matt Emery	SaaS	Augmented & Virtual Reality	N/A	N/A	N/A	N/A	N/A
02/07/19	Covetrus	Henry Schein Animal Health	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/07/19	Zafin	Accenture	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
02/07/19	Ру	Hired	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
02/07/19	Onestream Software	Kohlberg Kravis Roberts	SaaS	Business Intelligence	\$1,000	N/A	N/A	N/A	N/A
02/07/19	Aucerna	Thoma Bravo	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/07/19	Blue Prairie Group	Bluff Point Associates	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
02/07/19	Euclid	The We Company	SaaS	Ecommerce	N/A	N/A	N/A	N/A	N/A
02/07/19	MyCivic	Tyler Technologies	SaaS	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
02/07/19	Organik SEO	Digitopia Agency	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/07/19	Webroot	Carbonite	SaaS	Governance, Risk, & Compliance	\$619	\$215	N/A	2.9x	N/A
	AGEman Solutions	EquiSoft	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
	Jinfonet Software	Logi Analytics	SaaS	Business Intelligence	N/A	N/A	N/A	N/A	N/A
	AetherPal	VMware	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
	Anchor FM	Spotify	SaaS	Development	N/A	N/A	N/A	N/A	N/A
02/06/19	-	New Relic	SaaS	Business Intelligence	N/A	N/A	N/A	N/A	N/A
	APT Solutions	Aquiline Capital Partners	SaaS	Business Intelligence	N/A	N/A	N/A	N/A	N/A
02/06/19		OTC Markets Group	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
	Travel Tripper	Pegasus Solutions	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/06/19	•	Main Street Capital	SaaS	Advertising and Marketing	\$11	N/A	N/A	N/A	N/A
02/06/19	-	Besomebody	On Premise	Augmented & Virtual Reality	N/A	N/A	N/A	N/A	N/A
	Bloombox	Innovative Properties	On Premise	Business Software	\$2	N/A	N/A	N/A	N/A
	Core Security	HelpSystems	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
02/06/19		Helix TCS	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
02/05/19		K1 Investment Management, PerfectServe	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/05/19	Indix	Avalara	On Premise	Ecommerce	N/A	N/A	N/A	N/A	N/A
02/04/19		ADB Safegate, The Carlyle Group	SaaS	Business Intelligence	\$37	N/A	N/A	N/A	N/A
	ServiceMax	Silver Lake Management	SaaS	Business Software	N/A	N/A	N/A	N/A	N/A
02/04/19	-	Vector Capital	SaaS	CRM	\$100	N/A	N/A	N/A	N/A
02/04/19		Microsoft	SaaS	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
02/04/19	•	CPPIB, GIC Private, Hellman & Friedman	On Premise	Human Capital	\$10,838	\$1,141	\$133	9.5x	81.3x
02/04/19	0,	Microsoft	SaaS	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
	•	Cowles Company, Gestalt Diagnostics	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/04/19	GoCanvas	K1 Investment Management	On Premise	Business Software	\$100	\$20	N/A	5.0x	N/A
02/04/19	Anova Data	Ribbon Communications	On Premise	Telecommunications	\$19	N/A	N/A	N/A	N/A

Date Target Acquire Delay Sector Value Reserve UNL BUILDA 07/04/19 signafinor Differio Control Santa Wincla Schware N/A						Enterprise	Targe	t LTM	Enterpri	se Value /
Op/O/MISurveyAtchSchool/InterSardVertical SoftwareN/AN/AN/AN/AN/AN/A02/04/19Painet SoftwareDR InternationalSardVertical SoftwareN/AN/AN/AN/A02/04/19Painet SoftwareDR InternationalOn PremiseVertical SoftwareN/AN/AN/AN/AN/A02/04/19SoftwareDr PremiseConternot Concernet ManagementS50N/AN/AN/AN/AN/A02/04/19SoftwareDr PremiseConternot Concernet ManagementS50N/A <t< th=""><th>Date</th><th>Target</th><th>Acquirer</th><th>Delivery</th><th>Sector</th><th>Value</th><th>Revenue</th><th>EBITDA</th><th>LTM Revenue</th><th>LTM EBITDA</th></t<>	Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
0/0/0/10SimouthinSchool (minSindVertical SoftwareNANANANANANA02/0/13Branct SoftwareQSB internationalSindVertical SoftwareNANANANANA02/0/13GreetsQSB internationalOn PremseCenterl SoftwareNA	02/04/19	SigmaFlow	IPKeys Technologies	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
02/04/19Panet SerbareNANANANANANANA02/01/19GenetolsRelation SerbareNANANANANANA02/01/19IOTASportchSasVertical SoftwareNANANANANANA02/01/19SID baiThe MPD GroupOn PremiseSums InteligenceNA <td></td> <td>-</td> <td>· · ·</td> <td>SaaS</td> <td>Vertical Software</td> <td></td> <td>N/A</td> <td>N/A</td> <td></td> <td>N/A</td>		-	· · ·	SaaS	Vertical Software		N/A	N/A		N/A
CU/L/L/L CU/L/L/L/ CU/L/L/L/ CU/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L	02/04/19	Rsam	ACL Services	On Premise	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
02/01/19Nonce Document InsigningKofaxKofaxOn PremiseConcent Management5500N/AN/AN/AN/AN/A02/01/19Det Technology ServicesThe NPO GroupOn PremiseBatten InstitutionesN/AN/AN/AN/AN/A02/01/19Det Technology ServicesSaratrakOn PremiseBatten InstitutionesN/A<	02/04/19	Planet Software	QSR International	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
Display Spartsch Spartsch Spartsch NA NA NA NA N	02/02/19	Greenlots	Royal Dutch Shell	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
0/0/0/12Sh DataPh NP GroupSa DPrivateN/A	02/01/19	Nuance Document Imaging	Kofax	On Premise	Content / Document Management	\$500	N/A	N/A	N/A	N/A
02/02/10Dertox Technology ServicesPayrocSaaSFinischN/AN/AN/AN/AN/AN/A02/02/10PociOra/Smartar kOn FremisVertical SoftwareN/AN/AN/AN/AN/A01/21/10Rotit GamesSum DigitalOn FremisVertical SoftwareSiN/AN/AN/AN/AN/A01/21/10Rotit GamesCalero Commerce, LIP PartnersOn FremisVertical SoftwareN/AN/AN/AN/AN/AN/AN/A01/20/12ZagataCalaro CatalyteOn FremisSecurity (StorageN/A <td>02/01/19</td> <td>LOT.TO</td> <td>Sportech</td> <td>SaaS</td> <td>Vertical Software</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	02/01/19	LOT.TO	Sportech	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
op/10/12/12 Prodicar NA	02/01/19	SSI Data	The NPD Group	On Premise	Business Intelligence	N/A	N/A	N/A	N/A	N/A
OI/11/19 Beditticarmes Electrocomponents SaaS Systems / Network N/A N/A </td <td>02/01/19</td> <td>Detrok Technology Services</td> <td>Payroc</td> <td>SaaS</td> <td>Fintech</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	02/01/19	Detrok Technology Services	Payroc	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
OLJALUP Red kite Games Sumo bigital On Premise Business Shrware NA NA NA	02/01/19	PoolCar	Smartrak	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/20/19 Race Spric Celera Commerce, LLR Partners On Premise Business Stivare NA NA NA NA N	01/31/19	Monition	Electrocomponents	SaaS	Systems / Network	N/A	N/A	N/A	N/A	N/A
01301/322gataCulture AmpSasCMNANANANANANA01301/3Stater DigitalCatalyteOn PremiseGMNANANANANANA01301/3Singularity NetworksGisco SystemsOn PremiseSupply ChainNA	01/31/19	Red Kite Games	Sumo Digital	On Premise	Vertical Software	\$3	N/A	N/A	N/A	N/A
01/20/19Sandera DigitalCatalyteOn PremiseCRMNANAN/ANANA01/20/19Singuintrin NetworksGisco SystemsOn PremiseSupply ChainNAN/A </td <td>01/30/19</td> <td>RazorSync</td> <td>Celero Commerce, LLR Partners</td> <td>On Premise</td> <td>Business Software</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	01/30/19	RazorSync	Celero Commerce, LLR Partners	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
012019 Singularity Metworks Clsc Systems On Premise Security / Storage N/A N/A <t< td=""><td>01/30/19</td><td>Zugata</td><td>Culture Amp</td><td>SaaS</td><td>CRM</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></t<>	01/30/19	Zugata	Culture Amp	SaaS	CRM	N/A	N/A	N/A	N/A	N/A
0120/19 Carrier Web USA 1.D. Systems On Permise Suppl("Chain" NA N/A	01/30/19	Statêra Digital	Catalyte	On Premise	CRM	N/A	N/A	N/A	N/A	N/A
01/29/19 Waypoint Media Fanl Saa's Vertical Software N/A	01/30/19	Singularity Networks	Cisco Systems	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
01/29/19Simply MigrateMimecastOn PremiseIntegration / MiddlewareN/AN/AN/AN/AN/AN/A01/29/19ViroxUnitySaaSContent and ServicesN/AN/AN/AN/AN/AN/A01/29/19Silenit TNuMSPOn PremiseFintechN/A<	01/30/19	CarrierWeb USA	I.D. Systems	On Premise	Supply Chain	N/A	N/A	N/A	N/A	N/A
01/29/19VivosUnitySar SContent and ServicesN/AN/AN/AN/AN/A01/29/19Salient ITNuMSPOn PremiseHosting / Data CenterN/AN/AN/AN/AN/AN/A01/29/19FriftechN/AN/AN/AN/AN/AN/AN/AN/AN/AN/A01/29/19RetinadLumierevROn PremiseAugmented & Virtual RealityN/A	01/29/19	Waypoint Media	FanAl	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/29/19Salient ITNuMSPOn PremiseHosting / Data CenterN/AN/AN/AN/AN/AN/A01/29/19T-Pro SolutionsBlacksmith ApplicationsOn PremiseFintechN/AN/AN/AN/AN/AN/A01/29/19DarkBytesSophosOn PremiseSecurity / StorageN/A </td <td>01/29/19</td> <td>Simply Migrate</td> <td>Mimecast</td> <td>On Premise</td> <td>Integration / Middleware</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	01/29/19	Simply Migrate	Mimecast	On Premise	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
D1/23/19T-Pro SolutionsBlacksmith ApplicationsOn PremiseFintechN/AN/AN/AN/AN/AN/A01/23/19RetinadLumiereVROn PremiseAugmented & Virtual RealityN/AN/AN/AN/AN/A01/23/19DarkBytesSophosOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A01/23/19DeemEnterprise HoldingsSaaSContent and ServicesN/AN/AN/AN/AN/AN/A01/28/19Emulate3DRockwell AutomationOn PremiseContent and ServicesN/AN/AN/AN/AN/AN/A01/28/19Intellectual TechnologyArlington Capital PartnersOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseVertical SoftwareN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseSaaSContent / Document ManagementS75N/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseGoremance, Risk, & ComplianceN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseGoremance, Risk, & ComplianceN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsMorgan Stanley Capital Partners, NovacapOn PremiseGoremance, Risk,	01/29/19	Vivox	Unity	SaaS	Content and Services	N/A	N/A	N/A	N/A	N/A
01/29/19RetinadLumiereVROn PremiseAugmented & Virtual RealityN/AN/AN/AN/AN/A01/29/19DarkBytesSophosOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A01/29/19HelpfulShopifyOn PremiseSecurity / StorageN/A <td< td=""><td>01/29/19</td><td>Salient IT</td><td>NuMSP</td><td>On Premise</td><td>Hosting / Data Center</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>	01/29/19	Salient IT	NuMSP	On Premise	Hosting / Data Center	N/A	N/A	N/A	N/A	N/A
01/29/19DarkBytesSophosOn PremiseSecurity / StorageN/AN/AN/AN/AN/AN/A01/29/19HelpfulShopifyOn PremiseHuman CapitalN/A <td< td=""><td>01/29/19</td><td>T-Pro Solutions</td><td>Blacksmith Applications</td><td>On Premise</td><td>Fintech</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></td<>	01/29/19	T-Pro Solutions	Blacksmith Applications	On Premise	Fintech	N/A	N/A	N/A	N/A	N/A
01/29/19HelpfulShopifyOn PremiseHuman CapitalN/AN/AN/AN/AN/AN/A01/28/19DeemEnterprise HoldingsSaaSContent and ServicesN/AN/AN/AN/AN/AN/A01/28/19Emulate3DRockwell AutomationOn PremiseCAD / CAMN/A <td>01/29/19</td> <td>Retinad</td> <td>LumiereVR</td> <td>On Premise</td> <td>Augmented & Virtual Reality</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	01/29/19	Retinad	LumiereVR	On Premise	Augmented & Virtual Reality	N/A	N/A	N/A	N/A	N/A
01/28/19DeemEnterprise HoldingsSaaSContent and ServicesN/AN/AN/AN/AN/A01/28/19Emulate3DRockwell AutomationOn PremiseCAD / CAMN/AN/AN/AN/AN/AN/A01/28/19Intellectual TechnologyArlington Capital PartnersOn PremiseVertical SoftwareN/A	01/29/19	DarkBytes	Sophos	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
01/28/19Enulate3DRockwell AutomationOn PremiseCAD / CAMN/AN/AN/AN/AN/AN/A01/28/19Intellectual TechnologyArlington Capital PartnersOn PremiseVertical SoftwareN/AN/AN/AN/AN/A01/28/19Intellectual TechnologyCentury Park Capital PartnersOn PremiseWertical SoftwareN/AN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A01/28/19Granta DesignAnsysSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A01/24/19IerrarleCube SolutionsMortheat Capital PartnersSaaSContent / Document Management\$75N/AN/AN/AN/A01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19Mariama SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/A01/24/19Mariekworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/A01/23/19Qualtrics	01/29/19	Helpful	Shopify	On Premise	Human Capital	N/A	N/A	N/A	N/A	N/A
01/28/19Intellectual TechnologyArlington Capital PartnersOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A01/28/19MCCiCentury Park Capital PartnersOn PremiseBusiness SoftwareN/AN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseVertical SoftwareN/AN	01/28/19	Deem	Enterprise Holdings	SaaS	Content and Services	N/A	N/A	N/A	N/A	N/A
01/28/19MCCiCentury Park Capital PartnersOn PremiseBusiness SoftwareN/AN/AN/AN/AN/AN/A01/28/19Last Call AnalyticsAmple OrganicsOn PremiseVertical SoftwareN/AN/AN/AN/AN/AN/A01/26/19Granta DesignAnsysSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A01/26/19Clarity Software SolutionsMorgan Stanley Capital PartnersSaaSContent/ Document Management\$75N/AN/AN/AN/AN/A01/24/19EmeraldCube SolutionsNorthleaf Capital Partners, NovacapOn PremiseGovernance, Risk, & ComplianceN/AN/AN/AN/AN/A01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19Hariana SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/A01/24/19BrickworkB8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/24/19Ale AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/A01/24/19Ale AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/A01/24/19Ale AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/A01/23/19JiRa DpsBpifrance, Daher CapitalSaaS <t< td=""><td>01/28/19</td><td>Emulate3D</td><td>Rockwell Automation</td><td>On Premise</td><td>CAD / CAM</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></t<>	01/28/19	Emulate3D	Rockwell Automation	On Premise	CAD / CAM	N/A	N/A	N/A	N/A	N/A
01/28/19Last Call AnalyticsAmple OrganicsOn PremiseVertical SoftwareN/AN/AN/AN/AN/A01/26/19Granta DesignAnsysSaaSVertical SoftwareN/AN/AN/AN/AN/A01/26/19Granta DesignAnsysSaaSVertical SoftwareN/AN/AN/AN/AN/A01/26/19Clarity Software SolutionsMorgan Stanley Capital PartnersSaaSContent / Document Management\$75N/AN/AN/AN/A01/24/19EmeraldCube SolutionsNorthleaf Capital Partners, NovacapOn PremiseGovernance, Risk, & ComplianceN/AN/AN/AN/AN/A01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19Mariana SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/A01/24/19Brickworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/AN/AN/A01/23/19GuantricsSAPSaaSTesting\$8,000\$400N/AN/AN/A01/23/19FinEappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/	01/28/19	Intellectual Technology	Arlington Capital Partners	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/26/19Granta DesignAnsysSaaSVertical SoftwareN/AN/AN/AN/AN/AN/A01/25/19Clarity Software SolutionsMorgan Stanley Capital PartnersSaaSContent / Document Management\$75N/AN/AN/AN/A01/24/19EmeraldCube SolutionsNorthleaf Capital Partners, NovacapOn PremiseGovernance, Risk, & ComplianceN/AN/AN/AN/AN/A01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19Hariana SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/A01/24/19Brickworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/A01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/AN/AN/A01/23/19FinRappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/A01/23/19BlipparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/A01/23/19TrendKiteCision GroupSaaSVertical SoftwareN/AN/AN/AN	01/28/19	MCCi	Century Park Capital Partners	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
01/25/19Clarity Software SolutionsMorgan Stanley Capital PartnersSaaSContent / Document Management\$75N/AN/AN/AN/AN/A01/24/19EmeraldCube SolutionsNorthleaf Capital Partners, NovacapOn PremiseGovernance, Risk, & ComplianceN/AN/AN/AN/AN/AN/AN/A01/24/19HealthDecisionEBSCD HealthSaaSVertical SoftwareN/A	01/28/19	Last Call Analytics	Ample Organics	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/24/19EmeraldCube SolutionsNorthleaf Capital Partners, NovacapOn PremiseGovernance, Risk, & ComplianceN/AN/AN/AN/AN/A01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19Mariana SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/A01/24/19Brickworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/A01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/AN/AN/A01/23/19BiipgarCandy VenturesSaaSFintechN/AN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/A01/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/A01/23/19FinedhAvalaraSaaSVertical SoftwareN/AN/AN/AN/A01/23/19FinedhAvalaraSaaSVertical SoftwareN/AN/AN/AN/A01/23/19Goue Wave SoftwareAvalaraSaaSAdvert	01/26/19	Granta Design	Ansys	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/24/19HealthDecisionEBSCO HealthSaaSVertical SoftwareN/AN/AN/AN/AN/A01/24/19Mariana SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/A01/24/19Brickworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/A01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/AN/AN/A01/23/19FiREappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/A01/23/19BlipparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/A01/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/A01/23/19FrenkiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/23/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/A01/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/A	01/25/19	Clarity Software Solutions	Morgan Stanley Capital Partners	SaaS	Content / Document Management	\$75	N/A	N/A	N/A	N/A
01/24/19Mariana SystemsBlack Mountain SystemsOn PremiseFintechN/AN/AN/AN/AN/AN/A01/24/19Brickworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/AN/A01/24/19BrickworkBataSaaSSaaSFintechN/AN/AN/AN/AN/AN/A01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/AN/A01/23/19QuatricsSAPSaaSTesting\$8,000\$400N/A20.0xN/A01/23/19FiREappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/A01/23/19BlipparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/A01/23/19CompliAvalaraSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/23/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/A	01/24/19	EmeraldCube Solutions	Northleaf Capital Partners, Novacap	On Premise	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
01/24/19Brickworkb8taSaaSAdvertising and MarketingN/AN/AN/AN/AN/A01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/A01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/A20.0xN/A01/23/19FiREappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/AN/A01/23/19BilpparCandy VenturesSaaSAugmeted & Virtual RealityN/AN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/AN/A01/23/19TrendKiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/AN/A	01/24/19	HealthDecision	EBSCO Health	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/24/19Abe AlEnvestnet YodleeSaaSFintechN/AN/AN/AN/AN/AN/A01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/A20.0xN/A01/23/19FiREappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/AN/A01/23/19BilpparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/AN/A01/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/AN/A01/23/19TrendKiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/AN/A	01/24/19	Mariana Systems	Black Mountain Systems	On Premise	Fintech	N/A	N/A	N/A	N/A	N/A
01/23/19QualtricsSAPSaaSTesting\$8,000\$400N/A20.0xN/A01/23/19FiREappsBpifrance, Daher CapitalSaaSFintechN/AN/AN/AN/AN/A01/23/19BlipparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/AN/A01/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/AN/A01/23/19TrendKiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/AN/A	01/24/19	Brickwork	b8ta	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
Ol/23/19FirsterN/AN/AN/AN/AN/AO1/23/19Bipfance, Daher CapitalSaaSFintechN/AN/AN/AN/AO1/23/19BipparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/AO1/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/AO1/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/AO1/23/19TrendKiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/AO1/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/AN/A	01/24/19	Abe Al	Envestnet Yodlee	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
01/23/19BlipparCandy VenturesSaaSAugmented & Virtual RealityN/AN/AN/AN/AN/A01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/AN/A01/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/AN/A01/23/19TrendKiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/AN/A	01/23/19	Qualtrics	SAP	SaaS	Testing	\$8,000	\$400	N/A	20.0x	N/A
01/23/19SkookumScriptEpic GamesOn PremiseIntegration / MiddlewareN/AN/AN/AN/AN/A01/23/19CompliAvalaraSaaSVertical SoftwareN/AN/AN/AN/AN/A01/23/19TrendKiteCision GroupSaaSAdvertising and Marketing\$225\$25N/A8.9xN/A01/22/19Rogue Wave SoftwareAntares Capital, Clearlake Capital GroupSaaSSecurity / StorageN/A\$150N/AN/AN/A	01/23/19	FiREapps	Bpifrance, Daher Capital	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
01/23/19 Compli Avalara SaaS Vertical Software N/A N/A N/A N/A N/A 01/23/19 TrendKite Cision Group SaaS Advertising and Marketing \$225 \$25 N/A 8.9x N/A 01/22/19 Rogue Wave Software Antares Capital, Clearlake Capital Group SaaS Security / Storage N/A \$150 N/A N/A	01/23/19	Blippar	Candy Ventures	SaaS	Augmented & Virtual Reality	N/A	N/A	N/A	N/A	N/A
01/23/19 TrendKite Cision Group SaaS Advertising and Marketing \$225 \$25 N/A 8.9x N/A 01/22/19 Rogue Wave Software Antares Capital, Clearlake Capital Group SaaS Security / Storage N/A \$150 N/A N/A	01/23/19	SkookumScript	Epic Games	On Premise	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
01/22/19 Rogue Wave Software Antares Capital, Clearlake Capital Group SaaS Security / Storage N/A \$150 N/A N/A N/A	01/23/19	Compli	Avalara	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	01/23/19	TrendKite	Cision Group	SaaS	Advertising and Marketing	\$225	\$25	N/A	8.9x	N/A
01/22/19 TermSet CoreView SaaS Security / Storage N/A N/A N/A N/A N/A N/A	01/22/19	Rogue Wave Software	Antares Capital, Clearlake Capital Group	SaaS	Security / Storage	N/A	\$150	N/A	N/A	N/A
	01/22/19	TermSet	CoreView	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A

					Enterprise	Targe	et LTM	Enterpri	se Value /
Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
01/22/19	CrunchBot	CPPIB, QlikTech International	SaaS	Business Intelligence	N/A	N/A	N/A	N/A	N/A
01/22/19	Napster	RealNetworks	SaaS	File Sharing	\$40	N/A	N/A	N/A	N/A
01/22/19	Business Automation Services	Edmunds & Associates	On Premise	Business Software	N/A	N/A	N/A	N/A	N/A
01/22/19	Chromotif	Nutanix	SaaS	Platform / OS	N/A	N/A	N/A	N/A	N/A
01/22/19	Precognitive	ShopRunner	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
01/21/19	Trace Systems	BigChange	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/21/19	AcquireWeb	Claritas	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
01/21/19	SoAmpli	Force24	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
	Helic	Ansys	On Premise	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
	UpLevel	The Sales Developers	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
	Bite Squad	Waitr	SaaS	Ecommerce	\$321	N/A	N/A	N/A	N/A
	LexisOne	SAGlobal	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Blockspring	Coinbase	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
	Libra Systems	Digital Air Strike	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
	iReconcars	vAuto	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Five Bridges Advisors	Radian	On Premise	Fintech	N/A	N/A	N/A	N/A	N/A
01/16/19		Fiserv	SaaS	Fintech	\$37,706	\$9,498	\$3,033	4.0x	12.4x
01/16/19		K1 Investment Management, PerfectServe	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Tangible Play	Byju's	SaaS	Vertical Software	\$120	\$30	N/A	4.0x	N/A
	Rapitow	Allied Dispatch Solutions	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Opentree	Graitec Group	On Premise	Content / Document Management	N/A	N/A	N/A	N/A	N/A
	ListenLoop	Integrate.com	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
01/15/19	Voleo	Logan Resources	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
	Centrifuge Systems	Culmen International	On Premise	Content & Services	N/A	N/A	N/A	N/A	N/A
	Slope	Smartsheet	SaaS	Content / Document Management	N/A	N/A	N/A	N/A	N/A
	Lanner Group	Royal HaskoningDHV	On Premise	IoT	N/A	N/A	N/A	N/A	N/A
	Mineral Soft	DrillingInfo	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Sage Payroll Solutions	iSolved HCM, Accel-KKR	SaaS	Human Capital	\$133	\$51	N/A	2.6x	N/A
	Compli	CIVC Partners	SaaS On Premise	Human Capital	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
01/15/19		Houghton Mifflin Harcourt		Vertical Software				,	N/A N/A
01/14/19	0	Amazon	SaaS	IT Infrastructure & Management Governance, Risk, & Compliance	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A
	OmniVere Connect First	Conversion Venture Capital, Driven RingCentral	SaaS SaaS	CRM	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	roundCorner	Salesforce.Org	SaaS	CRM	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A
	Gresham Technologies	Fujitsu	On Premise	Platform / OS	\$3	N/A	N/A	N/A N/A	N/A
01/13/19	Peerio Technologies	WorkJam	SaaS	File Sharing	N/A	N/A	N/A	N/A	N/A
01/13/19	Quickbase	Vista Equity Partners	Saas	Integration / Middleware	\$1,000	N/A	N/A	N/A N/A	N/A
	UniteU	Riverwood Capital	SaaS	Ecommerce	\$1,000 N/A	\$9	N/A N/A	N/A N/A	N/A
01/13/19	Lifeline Software	LAP Laser	On Premise	Vertical Software	N/A N/A	N/A	N/A	N/A N/A	N/A
01/10/19		Vista Equity Partners	SaaS	IT Infrastructure & Management	\$1.685	\$225	(\$18.0)	7.5x	N/M
	CloudEndure	Amazon	Saas	IT Infrastructure & Management	\$250	3223 N/A	(\$18.0) N/A	N/A	N/A
01/10/19	LiquidFrameworks	Luminate Capital Partners	Saas	CRM		N/A	N/A	N/A N/A	N/A
01/10/19	Wisenet Information Systems	Adapt IT Holdings	SaaS	Business Software	\$3	N/A	N/A	N/A	N/A
01/10/19	Purpose Software	Asolvi	SaaS	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
01/09/19	•	The Chamberlain Group	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
51/05/19	i chu	The chamberrain droup	3443	Security / Storage	11/1	11/1	11/1	11/1	11/1

					Enterprise	Targe	et LTM	Enterpr	ise Value /
Date	Target	Acquirer	Delivery	Sector	Value	Revenue	EBITDA	LTM Revenue	LTM EBITDA
01/09/19	ClearView Continuity	Assurance Software	SaaS	Governance, Risk, & Compliance	N/A	N/A	N/A	N/A	N/A
01/09/19	veEDIS Clinical Systems	Document Storage Systems	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/09/19	AR Commerce	NexTech AR Solutions	SaaS	Augmented & Virtual Reality	N/A	\$3	\$0	N/A	N/A
01/09/19	CalmCircle	Higher Ed Growth	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
01/09/19	Fawcett Technologies Advisors	Arbela Technologies	SaaS	CRM	N/A	N/A	N/A	N/A	N/A
01/08/19	IQMS	Dassault Systemes	SaaS	Accounting / ERP	\$425	N/A	\$25	N/A	17.0x
01/08/19	Influence Health	HarbourVest Partners, Healthgrades	SaaS	CRM	N/A	N/A	N/A	N/A	N/A
01/08/19	Audiokinetic	Sony Interactive Entertainment	On Premise	Integration / Middleware	N/A	N/A	N/A	N/A	N/A
01/08/19	Quovo	Plaid	SaaS	Fintech	\$200	N/A	N/A	N/A	N/A
01/08/19	BrightGauge Software	Continuum Managed Services	SaaS	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
01/08/19	BioStore	Hg, Intermediate Capital Group	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
01/08/19	ISC Financial Systems	Issi Online	On Premise	Content / Document Management	N/A	N/A	N/A	N/A	N/A
01/08/19	Lucity	Central Square Technologies	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/08/19	Gossamer Threads	Carbon60 Networks	SaaS	Hosting / Data Center	N/A	N/A	N/A	N/A	N/A
01/08/19	CenPOS	Elavon	SaaS	Fintech	N/A	N/A	N/A	N/A	N/A
01/08/19	riskCanvas	Genpact	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
01/08/19	Dent Buddy	MobiTech International	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/08/19	First Billing Services	Ares Capital	SaaS	Fintech	\$58	N/A	N/A	N/A	N/A
01/07/19	APD Communications	Cinven	SaaS	Vertical Software	N/A	\$12	\$1	N/A	N/A
01/07/19	РирКеер	DaySmart Software	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/07/19	VaaS International Holdings	Motorola Solutions	SaaS	Vertical Software	\$445	N/A	N/A	N/A	N/A
	Janrain	Akamai Technologies	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
01/07/19	Payroll Maxx	Asure Software	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
01/07/19	•	Parsons	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/07/19	MTC Performance	360insights	SaaS	Advertising and Marketing	N/A	N/A	N/A	N/A	N/A
01/07/19		Standard Cognition	SaaS	Mapping / Tracking	N/A	N/A	N/A	N/A	N/A
	Steel Mountain Systems	Avast Software	On Premise	Security / Storage	N/A	N/A	N/A	N/A	N/A
	Payer Compass	Health Enterprise Partners	On Premise	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/04/19		QuickLogic	SaaS	IT Infrastructure & Management	N/A	N/A	N/A	N/A	N/A
	Hortonworks	Cloudera	SaaS	IT Infrastructure & Management	\$5,099	\$328	(\$151)	15.6x	N/M
	TRUSTID	GIC Private, Golden Gate Capital	SaaS	Security / Storage	N/A	N/A	N/A	N/A	N/A
	Magique Galileo	Active Risk Group	SaaS	Security / Storage	N/A	\$2	N/A	N/A	N/A
	Chiron Health	Citadel	SaaS	Video Management	N/A	N/A	N/A	N/A	N/A
	Wiggly-Amps	The Boots Company	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Gridsmart	Cubic	On Premise	Vertical Software	\$87	N/A	N/A	N/A	N/A
	AgSync	Raven Industries	SaaS	Vertical Software	N/A	\$3	N/A	N/A	N/A
	YourCause	Blackbaud	SaaS	Vertical Software	\$157	\$12	N/A	13.1x	N/A
	Turning Technologies	Centre Lane Partners	SaaS	Accounting / ERP	N/A	N/A	N/A	N/A	N/A
	Oasis Auto Complete Systems	Quorum Information Tech	SaaS	Vertical Software	\$1	N/A	N/A	N/A	N/A
· · ·	Wavebid	Primus Capital Funds, Proxibid	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
	Veracode	Thoma Bravo	SaaS	Security / Storage	\$950	N/A	N/A	N/A	N/A
	CSI Enterprises	Edenred	SaaS	Fintech	\$600	N/A	\$26	N/A	23.1x
01/01/19	•	AMN Healthcare Services	SaaS	Vertical Software	N/A	N/A	N/A	N/A	N/A
01/01/19		Independence Holding	SaaS	Human Capital	N/A	N/A	N/A	N/A	N/A
,,,	,=		5885	coprast			,		,
Software Me	dian				\$193	\$51	\$6	4.9x	31.2x
Software Me					\$1,108	\$359	\$175	5.8x	35.4x

Software IPOs

					LTM_M	lultiples	Metr	ics and Fina	ncings		Share Info	rmation				ollow On Inf	ormation		
Filing	Days on File					EV /	Rev Grwth	NTM Pov		IPO Offer			Chg Since	Davs Post		Relative to		IPO to	Primary
IPO Date Date	File	EV IPO	Amount Raised	Market Cap	EV / Rev	EBITDA		Growth	let Cash at IPO		Price Chg	Price	IPO			IPO Raise			Shares
Software																			
03/20/19 02/22/19	26 UP Fintech Holding	\$951	\$104	\$1,055	NM	NM	NM	NM	\$32	\$8	14%	\$13	62%	NA	NA	NA	NA	NA	NA
11/21/18 10/23/18	29 TuanChe.com	\$3,469	\$20	\$3,489	NM	NM	300%	114%	(\$5)	\$8		\$7	(14%)	NA	NA	NA	NA	NA	NA
11/15/18 08/10/18	97 Weidai	\$655	\$45	\$700	1.3x	6.2x	109%	23%	\$276	\$10		\$12	16%	NA	NA	NA	NA	NA	NA
10/25/18 10/01/18	24 Stone Pagamentos	\$6,532	\$1,217	\$7,749	NM	28.6x	293%	NM	(\$443)	\$24	4%	\$41	71%	NA	NA	NA	NA	NA	NA
10/25/18 07/16/18 10/19/18 09/21/18	101 Pintec 28 SolarWinds	\$19,637 \$4,317	\$44	\$19,681 \$4,692	NM 5.9x	NM 15.5x	1,715% NM	NM 23%	(\$112) (\$1,961)	\$12 \$15	(12%)	\$13 \$20	8% 30%	NA	NA	NA	NA	NA	NA NA
10/12/18 09/14/18	28 Anaplan	\$1,974	\$264	\$2,237	9.9x	13.3X NM	19%	41%	\$87	\$17	(12/0)	\$39	132%	NA	NA	NA	NA	NA	NA
10/05/18 09/05/18	30 Elastic	\$2,906	\$252	\$3,158	15.7x	NM	110%	62%	\$51	\$36	3%	\$80	122%	NA	NA	NA	NA	NA	NA
09/28/18 08/16/18	43 CooTek (Cayman)	\$715	\$52	\$767	9.1x	NM	612%	231%	\$26	\$12		\$11	(9%)	NA	NA	NA	NA	NA	NA
09/27/18 08/31/18	27 LAIX	\$528	\$72	\$599	21.5x	NM	1,223%	535%	\$57	\$13		\$9	(24%)	NA	NA	NA	NA	NA	NA
09/26/18 08/29/18	28 SurveyMonkey	\$1,247	\$207	\$1,454	5.3x	NM	13%	19%	(\$274)	\$12	9%	\$18	52%	NA	NA	NA	NA	NA	NA
09/26/18 08/24/18	33 Arco Platform Limited	\$172	\$194	\$366	2.2x	7.8x	67%	27%	\$6	\$18		\$32	85%	NA	NA	NA	NA	NA	NA
09/19/18 08/28/18	22 X Financial	\$2,822	\$105	\$2,927	6.3x	NM	1,259%	26%	\$101	\$10		\$6	(41%)	NA	NA	NA	NA	NA	NA
07/27/18 06/29/18 07/27/18 06/29/18	28 Endava 28 Opera Software	\$946 \$4,800	\$127 \$115	\$1,073 \$4,915	3.6x NM	14.6x NM	31%	27%	(\$19) \$36	\$20 \$12	5%	\$28 \$7	38%	NA NA	NA NA	NA	NA	NA	NA NA
07/26/18 06/29/18	27 Jiguang	\$626	\$77	\$703	10.9x	NM	442%	174%	\$5	\$9		\$7	(22%)	NA	NA	NA	NA	NA	NA
07/26/18 06/22/18	34 Cango (Used Car Marketplace)	\$1,574	\$44	\$1,618	NM	29.5x	(75%)	1721%	\$11	\$11		\$7	(38%)	NA	NA	NA	NA	NA	NA
07/26/18 06/29/18	27 Tenable	\$2,176	\$288	\$2,464	10.5x	NM	66%	43%	\$26	\$23	21%	\$32	38%	NA	NA	NA	NA	NA	NA
06/29/18 06/01/18	28 Domo	\$560	\$193	\$753	4.8x	NM	56%	27%	(\$24)	\$21		\$40	92%	NA	NA	NA	NA	NA	NA
06/14/18 05/11/18	34 Avalara	\$1,525	\$180	\$1,705	7.2x	NM	27%	33%	(\$25)	\$24	4%	\$56	132%	NA	NA	NA	NA	NA	NA
05/16/18 04/16/18	30 Pluralsight	\$1,672	\$311	\$1,982	10.0x	NM	27%	55%	(\$91)	\$15	7%	\$32	112%	NA	NA	NA	NA	NA	NA
05/03/18 04/09/18	24 Carbon Black	\$1,333	\$152 \$175	\$1,485	7.6x	NM	55%	22% 55%	\$36 \$52	\$19	7%	\$14 \$41	(27%)	NA	NA	NA	NA	NA	NA
04/27/18 03/26/18 04/27/18 03/28/18	32 Smartsheet 30 DocuSign	\$1,466 \$3,968	\$629	\$1,640 \$4,597	13.2x 7.7x	NM	66% 36%	32%	\$257	\$15 \$29	4%	\$52	172% 79%	NA	NA	NA	NA NA	NA	NA
04/26/18 01/17/18	99 Ceridian HCM	\$3,500	\$531	\$2,998	3.7x	22.6x	8%	11%	(\$1,026)	\$22	5%	\$51	133%	NA	NA	NA	NA	NA	NA
04/20/18 03/23/18	28 Pivotal Software	\$2,946	\$555	\$3,501	5.8x	NM	22%	33%	\$53	\$15		\$21	39%	NA	NA	NA	NA	NA	NA
04/12/18 03/16/18	27 Zuora	\$1,477	\$154	\$1,631	8.8x	NM	49%	40%	\$32	\$14	8%	\$20	43%	NA	NA	NA	NA	NA	NA
04/03/18 02/28/18	34 Spotify	\$20,303	\$9,246	\$29,549	4.4x	NM	41%	40%	(\$560)	\$166		\$139	(16%)	NA	NA	NA	NA	NA	NA
03/23/18 02/23/18	28 Dropbox	\$10,293	\$756	\$11,049	9.3x	NM	31%	27%	\$256	\$21	5%	\$22	4%	NA	NA	NA	NA	NA	NA
03/16/18 02/16/18 02/09/18 01/12/18	28 Zscaler	\$2,067	\$192 \$70	\$2,259	13.4x	NM NM	92%	48% 18%	\$72	\$16 \$13	7%	\$71 \$17	343% 27%	NA	NA	NA	NA	NA	NA
11/17/17 10/20/17	28 Cardlytics 28 SailPoint Technologies	\$195 \$664	\$240	\$266 \$904	1.5x 4.1x	32.9x	71%	48%	(\$27)	\$13	9%	\$29	139%	NA	NA	NA	NA	NA	NA
11/14/17 10/18/17	27 SendGrid	\$654	\$131	\$785	6.3x	NM	77%	28%	\$175	\$16	3%	\$54	238%	NA	NA	NA	NA	NA	NA
11/01/17 09/29/17	33 Altair Engineering	\$259	\$156	\$415	0.8x	6.2x	9%	10%	(\$54)	\$13		\$37	183%	NA	NA	NA	NA	NA	NA
10/27/17 10/02/17	25 ForeScout	\$698	\$116	\$814	3.7x	NM	52%	32%	\$46	\$22		\$42	91%	(35)	\$128	110%	\$29	10%	11%
10/19/17 09/21/17	28 MongoDB	\$1,194	\$192	\$1,386	8.7x	NM	111%	39%	\$41	\$24	9%	\$147	513%	NA	NA	NA	NA	NA	NA
06/30/17 06/01/17	29 Tintri	\$96	\$60	\$156	1.0x	NM	13%	24%	(\$20)	\$7		\$0	(100%)	NA	NA	NA	NA	NA	NA
06/07/17 03/30/17	69 ShotSpotter	\$87	\$31	\$118	5.1x	NM	44%	49%	(\$11)	\$11		\$39	251%	NA	NA	NA	NA	NA	NA
05/25/17 02/17/17 05/12/17 03/15/17	97 Appian 58 Veritone	\$680 \$176	\$75	\$755 \$213	5.0x 19.7x	NM NM	22%	24% 71%	(\$20) (\$1)	\$12 \$15		\$34 \$5	187% (65%)	NA	NA	NA	NA	NA	NA
04/28/17 03/31/17	28 Cloudera	\$1,936	\$225	\$2,161	7.4x	NM	57%	41%	(\$836)	\$15	7%	\$11	(27%)	NA	NA	NA	NA	NA	NA
04/13/17 03/13/17	31 Yext	\$1,014	\$116	\$1,129	8.2x	NM	38%	37%	\$19	\$11	10%	\$22	99%	NA	NA	NA	NA	NA	NA
04/07/17 03/13/17	25 Okta	\$1,546	\$187	\$1,733	9.6x	NM	87%	61%	\$23	\$17		\$83	387%	NA	NA	NA	NA	NA	NA
03/24/17 02/24/17	28 Alteryx	\$819	\$126	\$945	9.5x	22.3x	59%	50%	\$31	\$14		\$84	499%	NA	NA	NA	NA	NA	NA
03/17/17 02/17/17	28 MuleSoft	\$2,553	\$221	\$2,774	13.6x	NM	70%	55%	\$35	\$17	6%	\$44	157%	NA	NA	NA	NA	NA	NA
10/28/16 09/30/16	28 BlackLine	\$768	\$146	\$914	7.5x	NM	97%	NM	(\$21)	\$17		\$46	172%	NA	NA	NA	NA	NA	NA
10/06/16 09/08/16 09/30/16 12/22/15	28 Coupa 283 Nutanix	\$917 \$2,279	\$133 \$238	\$1,051 \$2,517	8.4x 4.5x	NM	115% NM	34%	\$80 \$26	\$18 \$16	23%	\$91 \$38	405% 136%	NA	NA	NA	NA NA	NA NA	NA NA
09/22/16 08/26/16	283 Nutanix 27 Apptio	\$2,279	\$238	\$2,517	4.5x 3.8x	NM	42%	5%	\$26	\$16	23%	\$38	136%	NA	NA	NA	NA	NA	NA
09/23/16 08/26/16	28 Beijing Gridsum Technology	\$317	\$90	\$405	6.9x	NM	127%	43%	\$16	\$13	4%	\$38	(77%)	NA	NA	NA	NA	NA	NA
09/16/16 08/19/16	28 Everbridge	\$224	\$90	\$314	3.3x	NM	58%	NM	(\$14)	\$12		\$75	525%	21	\$74	82%	\$20	(18%)	92%
07/29/16 06/28/16	31 Talend	\$409	\$95	\$503	5.0x	NM	31%	38%	(\$2)	\$18	6%	\$51	181%	NA	NA	NA	NA	NA	NA
04/22/16 12/17/15	127 SecureWorks	\$1,017	\$112	\$1,129	3.0x	NM	NM	26%	\$5	\$14	(10%)	\$18	31%	NA	NA	NA	NA	NA	NA
12/10/15 09/25/15	76 Atlassian	\$4,239	\$462	\$4,701	12.0x	NM	64%	34%	\$208	\$21	5%	\$112	435%	NA	NA	NA	NA	NA	NA
11/19/15 10/14/15	36 Square	\$2,869	\$243	\$3,112	2.5x	NM	107%	NM	\$174	\$9	(18%)	\$75	732%	NA	NA	NA	NA	NA	NA
11/13/15 10/09/15 10/14/15 07/20/15	35 Instructure 86 First Data	\$393 \$11,673	\$70 \$2,560	\$464 \$14,233	6.0x 1.0x	NM 3.8x	150% 2%	50% NM	\$32 (\$20,631)	\$16 \$16	(11%)	\$47 \$26	195% 64%	NA	NA	NA	NA	NA	NA
10/14/15 07/20/15 Median	28	\$11,673	\$2,560	\$14,233	6.3x	3.8X 15.5x	2% 57%	38%	(\$20,631) \$13	\$15	(11%)	\$26	88%	(7)	\$101	96%	\$24	(4%)	52%
Mean	43	\$2,561	\$409	\$2,970	7.2x	13.3x 17.3x	155%	38%	(\$428)	\$19	4%	\$33	125%	(7)	\$101	96%	\$24	(4%)	52%
				,-,-,·					10,001	7-2		725	/0						

Source: Capital IQ and Pitchbook as of 3/31/19

Internet and Digital Media IPOs

					LTM N	lultiples	Metr	ics and Fina	ancings		Share Info	rmation				ollow On Inf	ormation		
IPO Date Filing	Days on Company	EV IP	O Amount Raised	Market Cap	EV / Rev	EV /	Rev Grwth	NTM Rev	Net Cash at IPO	IPO Offer	File to	Current	Chg Since	Days Post	Amount	Relative to	Follow	IPO to	Primary
Date	File		o Amount haised	market cap	207100	EBITDA	at IPO	Growth		Price	Price Chg	Price	IPO	Lock-Up	Raised	IPO Raise	On Price F	rice Chg	Shares
Internet and Dig	ital Media											_							
03/29/19 03/01/	19 28 Lyft	\$18,716	\$2,340	\$21,056	8.7x	NM	103%	56%	\$518	\$72		\$78	9%	NA	NA	NA	NA	NA	NA
12/12/18 10/02/	18 71 Tencent Music Entertainment Group	\$20,163	\$1,066	\$21,229	7.7x	NM	301%	49%	\$759	\$13		\$18	39%	NA	NA	NA	NA	NA	NA
12/06/18 11/09/	18 27 Mogujie.com	\$1,430	\$67	\$1,497	9.5x	NM	(9%)	39%	\$49	\$14		\$13	(4%)	NA	NA	NA	NA	NA	NA
10/03/18 09/06/	18 27 Upwork	\$1,674	\$187	\$1,861	7.3x	NM	39%	25%	(\$3)	\$15	7%	\$19	28%	NA	NA	NA	NA	NA	NA
09/21/18 08/20/	18 32 Farfetch	\$5,408	\$885	\$6,293	11.2x	NM	(3%)	46%	\$340	\$20	5%	\$27	35%	NA	NA	NA	NA	NA	NA
09/20/18 08/23/	18 28 Eventbrite	\$1,876	\$230	\$2,106	7.3x	NM	91%	36%	\$192	\$23	10%	\$19	(17%)	NA	NA	NA	NA	NA	NA
09/14/18 08/17/	18 28 Qutoutiao	\$1,633	\$84	\$1,717	9.4x	NM	1,892%	502%	\$267	\$7		\$12	65%	NA	NA	NA	NA	NA	NA
09/12/18 08/15/	18 28 111 Group	\$4,119	\$100	\$4,220	21.3x	NM	47%	169%	\$74	\$14		\$6	(54%)	NA	NA	NA	NA	NA	NA
07/26/18 06/29/	18 27 Pinduoduo	\$19,422	\$1,626	\$21,048	NM	NM	516%	460%	\$106	\$19		\$25	31%	NA	NA	NA	NA	NA	NA
06/27/18 06/01/	18 26 EverQuote	\$411	\$84	\$496	3.3x	NM	3%	40%	(\$3)	\$18	6%	\$7	(59%)	NA	NA	NA	NA	NA	NA
06/27/18 05/29/	18 29 Youxinpai (Beijing) Information Technology Co.	\$2,332	\$225	\$2,557	18.3x	NM	3%	394%	(\$527)	\$9	(14%)	\$4	(58%)	NA	NA	NA	NA	NA	NA
06/27/18 05/23/	18 35 HyreCar	(\$4)	\$13	\$8	0.0x	NM	24,780%	NM	\$7	\$5		\$5	1%	NA	NA	NA	NA	NA	NA
05/23/18 04/27/	18 26 GreenSky	\$0	\$874	\$874	0.0x	0.0x	24%	57%	(\$528)	\$23		\$13	(44%)	NA	NA	NA	NA	NA	NA
03/28/18 03/02/	18 26 Bilibili	\$2,814	\$483	\$3,297	7.7x	NM	365%	82%	\$117	\$12		\$19	65%	NA	NA	NA	NA	NA	NA
03/02/17 02/02/	17 28 Snap	\$15,653	\$3,400	\$19,053	NM	NM	590%	181%	\$987	\$17	6%	\$11	(35%)	NA	NA	NA	NA	NA	NA
03/29/18 02/27/	18 30 iQIYI.com	\$73,286	\$16,758	\$90,044	NM	NM	52%	68%	\$21	\$18		\$24	33%	NA	NA	NA	NA	NA	NA
12/16/16 11/14/	16 32 Trivago	\$3,442	\$287	\$3,729	4.5x	NM	85%	69%	\$5	\$11	(15%)	\$4	(61%)	NA	NA	NA	NA	NA	NA
09/21/16 08/22/	16 30 The Trade Desk	\$604	\$84	\$688	4.1x	5.2x	234%	48%	(\$18)	\$18		\$198	1,000%	NA	NA	NA	NA	NA	NA
07/14/16 06/10/	16 34 LINE	\$6,896	\$7,225	\$14,121	6.6x	NM	29%	37%	(\$66)	\$33	1%	\$35	7%	NA	NA	NA	NA	NA	NA
06/23/16 05/26/	16 28 Twilio	\$1,245	\$150	\$1,395	6.5x	NM	117%	63%	\$103	\$15	7%	\$129	761%	NA	NA	NA	NA	NA	NA
12/18/15 11/16/	15 32 Yirendai	\$1,020	\$75	\$1,095	6.5x	NM	4,927%	182%	\$20	\$10		\$14	36%	NA	NA	NA	NA	NA	NA
11/19/15 10/16/	15 34 Match Group	\$23	\$400	\$423	0.0x	0.0x	18%	29%	(\$49)	\$12		\$57	372%	NA	NA	NA	NA	NA	NA
05/20/15 04/17/	15 33 Baozun Commerce	\$1,348	\$110	\$1,458	5.2x	26.2x	4%	NM	\$28	\$10	(17%)	\$42	315%	386	\$81	74%	\$12	(26%)	NA
04/08/15 01/09/	15 89 Beijing Wo Wo Group Information Technology Company	\$2,999	\$40	\$3,039	NM	NM	NM	NM	\$1	\$10		\$2	(83%)	NA	NA	NA	NA	NA	NA
04/01/15 06/09/	14 296 GoDaddy	\$1,662	\$460	\$2,122	1.2x	4.1x	17%	19%	(\$1,282)	\$20	5%	\$75	276%	585	\$928	202%	\$39	102%	2%
Median	30	\$1,775	\$228	\$2,114	6.5x	4.1x	52%	57%	\$21	\$15	5%		29%	486	\$505	138%	\$25	38%	2%
Mean	45	\$7,061	\$1,455	\$8,515	6.9x	7.1x	1484%	124%	\$25	\$15	0%		110%	486	\$505	138%	\$25	38%	2%



Hardware & Tech-Enabled Services IPOs

						lultiples		ics and Fina			Share Info					Follow On Inf			
IPO Date Filing D	Days on File Company	EV IPO	Amount Raised	Market Cap	EV / Rev	EV /	Rev Grwth	NTM Rev	Net Cash at IPO	IPO Offer			• •			Relative to		IPO to	· · · ·
Date	File					EBITDA	at IPO	Growth		Price	Price Chg	Price	IPO	Lock-Up	Raised	IPO Raise	On Price F	Price Chg	Shares
Hardware and Tech-E	nabled Services																		
08/03/18 07/06/18	28 Arlo Technologies	\$1,000	\$188	\$1,188	2.7x	NM	101%	40%	\$70	\$16	(11%)	\$4	(74%)	NA	NA	NA	NA	NA	NA
08/02/18 07/06/18	27 Sonos	\$1,509	\$208	\$1,717	1.4x	NM	21%	10%	\$78	\$15	(12%)	\$10	(31%)	NA	NA	NA	NA	NA	NA
04/25/18 03/30/18	26 nLIGHT	\$9,946	\$96	\$10,042	NM	NM	37%	41%	\$19	\$16	7%	\$22	39%	NA	NA	NA	NA	NA	NA
02/09/18 01/12/18	28 Huami	\$8,060	\$55	\$8,115	NM	NM	20%	44%	\$68	\$11		\$13	19%	NA	NA	NA	NA	NA	NA
02/01/18 12/18/17	45 One Stop Systems	\$617	\$19	\$636	22.9x	NM	43%	NM	(\$3)	\$5	(17%)	\$2	(59%)	NA	NA	NA	NA	NA	NA
09/28/17 09/01/17	27 Roku	\$1,303	\$219	\$1,523	3.0x	NM	36%	41%	\$47	\$14		\$65	361%	NA	NA	NA	NA	NA	NA
05/25/17 04/28/17	27 Smart Modular Technologies	\$181	\$58	\$239	0.3x	1.0x	(3%)	53%	(\$192)	\$11	(15%)	\$19	75%	NA	NA	NA	NA	NA	NA
11/01/16 10/04/16	28 GDS Services	\$7,333	\$193	\$7,526	NM	NM	109%	38%	(\$512)	\$10	(17%)	\$36	257%	NA	NA	NA	NA	NA	NA
10/28/16 09/29/16	29 Quantenna Communications	\$500	\$107	\$607	4.3x	NM	75%	40%	\$11	\$16		\$24	52%	NA	NA	NA	NA	NA	NA
08/12/16 07/15/16	28 Airgain	\$50	\$12	\$62	1.6x	NM	20%	41%	\$0	\$8	(11%)	\$13	60%	(61)	\$40	333%	\$18	233%	57%
07/11/16 11/10/15	244 Monster Digital	\$24	\$9	\$33	NM	NM	NM	NM	\$1	\$5		\$24	427%	NA	NA	NA	NA	NA	NA
11/18/15 10/16/15	33 Mimecast	\$503	\$78	\$581	4.1x	22.7x	39%	NM	\$25	\$10		\$47	374%	NA	NA	NA	NA	NA	NA
11/13/15 10/05/15	39 Xtera Communications	\$63	\$25	\$88	1.3x	NM	101%	NM	(\$5)	\$5	(44%)	\$0	(100%)	NA	NA	NA	NA	NA	NA
10/09/15 08/07/15	63 CPI Card Group	\$420	\$150	\$570	1.2x	18.5x	72%	5%	(\$154)	\$10	(17%)	\$3	(66%)	NA	NA	NA	NA	NA	NA
10/07/15 08/12/15	56 Pure Storage	\$3,468	\$425	\$3,893	12.7x	NM	541%	98%	\$128	\$17		\$22	28%	NA	NA	NA	NA	NA	NA
06/26/15 05/22/15	35 Alarm.com	\$571	\$98	\$669	3.2x	15.3x	36%	11%	\$32	\$14		\$65	364%	NA	NA	NA	NA	NA	NA
06/18/15 05/07/15	42 Fitbit	\$3,981	\$732	\$4,713	4.1x	NM	259%	82%	\$78	\$20	5%	\$6	(70%)	(33)	\$493	67%	\$29	(33%)	NA
05/19/15 12/23/14	147 Black Knight	\$1,130	\$441	\$1,571	1.3x	2.4x	NM	11%	(\$2,073)	\$25		\$55	122%	NA	NA	NA	NA	NA	NA
03/26/15 02/18/15	36 Solaredge Technologies	\$651	\$126	\$777	3.0x	4.4x	173%	NM	\$19	\$18		\$38	109%	NA	NA	NA	NA	NA	NA
Median	33	\$651	\$107	\$777	3.0x	9.9x	43%	40%	\$19		(14%)		52%	(47)	\$266	200%	\$24	100%	57%
Mean	52	\$2,174	\$170	\$2,345	4.5x	10.7x	99%	39%	(\$124)		(13%)		99%	(47)	\$266	200%	\$24	100%	57%



Public Company Valuation

						1-						- / -	
Company	Price 03/31/19	52-Wk High	Mkt Cap	EV	LTM	<u>/ Revenue</u> FY+1	FY+2	LTM	<u>V / EBITDA</u> FY+1	FY+2	LTM	<u>P/E</u> FY+1	FY+2
Company	05/51/19	nıgri	ілікі Сар	EV	LIIVI	FITI	FIT2		FTT1	FIT2	LIIVI	F171	FITZ
CRM													
Salesforce	\$158.37		\$122,103	\$120,937	9.1x	7.5x	6.3x	NM	29.7x	24.2x	NM	57.4x	46.0x
Zendesk	85.00	99%	9,211	9,242	15.4	11.5	8.9	NM	NM	NM	NM	NM	131.8
HubSpot	166.21	92%	6,584	6,311	12.3	9.7	7.8	NM	NM	NM	NM	145.3	99.5
Pegasystems	65.00	96%	5,099	4,891	5.5	5.1	4.5	NM	NM	NM	NM	131.3	99.2
Five9	52.83	91%	3,130	3,046	11.8	10.1	8.6	NM	NM	47.6	NM	86.6	67.3
LivePerson	29.02	96%	1,855	1,789	7.2	6.2	5.2	NM	NM	NM	NM	NM	NM
Median		95%	\$5,841	\$5,601	10.5x	8.6x	7.1x	NM	29.7x	35.9x	NM	109.0x	99.2x
Mean		95%	\$24,664	\$24,369	10.2x	8.4x	6.9x	NM	29.7x	35.9x	NM	105.2x	88.8x
Accounting / ERP													
Oracle	\$53.71	99%	\$183,562	\$200,215	5.0x	5.1x	5.0x	12.1x	10.9x	10.5x	18.3x	15.6x	14.3x
SAP	115.64	91%	138,031	140,631	4.8	4.6	4.3	17.0	13.2	12.0	28.4	21.5	19.3
International Business Machines	141.10	87%	125,560	159,509	2.0	2.0	2.0	9.8	8.6	8.3	14.7	10.1	10.0
Intuit	261.41	100%	67,724	66,370	10.3	10.0	9.0	33.3	27.2	24.3	43.7	40.1	35.5
The Sage Group (Financial Software)	9.15	96%	9,943	10,813	4.4	4.2	4.0	16.3	16.3	14.9	23.3	22.7	20.9
Coupa	90.98	91%	5,554	5,407	20.8	16.6	13.4	NM	NM	NM	NM	NM	NM
Xero	34.44	90%	4,810	4,754	14.1	9.6	NM	NM	47.3	NM	NM	NM	NM
BlackLine	46.32	80%	2,549	2,421	10.6	8.7	7.1	NM	NM	NM	NM	NM	NM
Upland Software	42.36	97%	911	1,174	7.8	6.0	5.7	NM	16.3	15.1	NM	20.0	18.8
Qad	43.07	70%	808	681	2.0	2.1	1.9	NM	44.5	24.9	80.2	116.4	54.5
Median		91%	\$7,748	\$8,110	6.4x	5.5x	5.0x	16.3x	16.3x	14.9x	25.9x	21.5x	19.3x
Mean		90%	\$53,945	\$59,198	8.2x	6.9x	5.8x	17.7x	23.0x	15.7x	34.8x	35.2x	24.8x
Supply Chain Management													
SAP	\$115.64	91%	\$138,031	\$140,631	4.8x	4.6x	4.3x	17.0x	13.2x	12.0x	28.4x	21.5x	19.3x
Dassault Systemes	149.04	91%	38,543	36,545	8.9	8.3	7.6	31.0	24.3	21.8	54.4	38.2	34.2
PTC	92.18	86%	10,935	11,411	9.0	8.6	7.6	NM	28.5	23.9	140.0	51.2	35.9
Aspen Technology	104.26	88%	7,261	7,427	14.7	13.3	13.3	35.5	26.2	26.6	42.7	29.6	31.1
Manhattan Associates	55.11	88%	3,560	3,459	6.2	6.1	5.9	24.1	26.7	25.7	34.8	39.4	38.1
Descartes Systems Group	36.16	100%	2,790	2,788	10.1	8.5	7.7	32.3	23.6	20.9	80.5	23.8	21.1
American Software	11.95	63%	372	289	2.6	2.6	2.5	23.0	19.5	17.2	49.2	38.5	38.5
Median	0	88%	\$7,261	\$7,427	8.9x	8.3x	7.6x	27.5x	24.3x	21.8x	49.2x	38.2x	34.2x
Mean		87%	\$28,785	\$28,936	8.0x	7.4x	7.0x	27.1x	23.1x	21.1x	61.4x	34.6x	31.2x
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Public Company Valuation (cont.)

						4-							
	Price	52-Wk				/ Revenue			V / EBITDA			P/E	
Company	03/31/19	High	Mkt Cap	EV	LTM	FY+1	FY+2	LTM	FY+1	FY+2	LTM	FY+1	FY+2
Human Capital Management													
Workday	\$192.85	96%	\$42,813	\$42,239	15.0x	11.9x	9.7x	NM	NM	46.6x	NM	116.9x	87.7x
Paychex	80.20	99%	28,823	28,945	7.9	7.7	6.9	19.1	18.7	17.0	29.9	28.1	25.9
Paycom Software	189.13	99%	11,059	11,048	19.5	15.5	12.7	NM	38.2	30.3	80.1	59.1	46.6
Ultimate Software Group	330.13	90%	10,650	10,500	9.2	7.7	6.4	NM	32.7	26.3	NM	53.9	42.6
Paylocity	89.19	96%	4,720	3,357	8.0	7.3	6.0	NM	25.9	20.7	88.6	70.8	55.4
Cornerstone OnDemand	54.78	91%	3,238	3,184	5.9	5.7	5.0	NM	26.8	20.3	NM	57.1	38.4
Median		96%	\$10,855	\$10,774	8.6x	7.7x	6.7x	19.1x	26.8x	23.5x	80.1x	58.1x	44.6x
Mean		95%	\$16,884	\$16,546	10.9x	9.3x	7.8x	19.1x	28.5x	26.9x	66.2x	64.3x	49.4x
Knowledge / Content Management													
Adobe Systems	\$266.49	96%	\$130.034	\$130,937	13.7x	11.7x	10.0x	40.5x	26.2x	21.5x	50.0x	34.2x	27.6x
VeriSign	181.56	98%	21,735	22,251	18.3	18.1	17.4	25.7	24.9	23.9	37.9	35.1	33.2
Akamai Technologies	71.71	86%	11,704	11,372	4.2	4.0	3.7	14.3	9.7	8.8	34.8	17.6	15.5
OpenText	38.19	96%	10,264	12,288	4.3	4.2	4.1	12.3	11.2	10.5	34.5	13.9	12.8
Dropbox	21.80	50%	8,966	8,040	5.8	4.9	4.3	NM	21.9	17.3	NM	55.1	39.6
DocuSign	51.84	76%	8,808	8,478	12.1	9.3	7.5	NM	NM	NM	NM	NM	148.1
SDL	7.05	89%	639	621	1.4	1.3	1.2	17.5	12.0	10.6	21.9	18.6	16.4
MobileIron	5.47	96%	584	479	2.5	2.3	2.1	NM	NM	24.4	NM	NM	84.2
Brightcove	8.41	78%	308	279	1.7	1.6	1.5	NM	49.0	20.7	NM	NM	41.0
Median	0.11	89%	\$8,966	\$8,478	4.3x	4.2x	4.1x	17.5x	21.9x	19.0x	34.8x	26.4x	33.2x
Mean		85%	\$21,449	\$21,638	7.1x	6.4x	5.7x	22.1x	22.2x	17.2x	35.8x	29.1x	46.5x
		00/0	<i>Ş</i> L 1)443	<i>Q21,000</i>	7128	0147	3 17 X	22127	22127	17.24	<u> </u>	23127	40157
Business Intelligence													
International Business Machines	\$141.10		\$125,560	. ,	2.0x	2.0x	2.0x	9.8x	8.6x	8.3x	14.7x	10.1x	10.0x
Tableau Software	127.28	93%	10,957	9,935	8.6	7.3	6.1	NM	46.2	34.0	NM	73.8	57.4
NICE Systems	122.51	99%	7,298	7,268	5.0	4.6	4.3	20.5	15.3	14.1	47.1	24.3	NM
Teradata	43.65	88%	5,132	4,961	2.3	2.4	2.4	30.1	13.1	10.9	NM	29.1	21.3
Pegasystems	65.00	96%	5,099	4,891	5.5	5.1	4.5	NM	NM	NM	NM	131.3	99.2
Nuance	16.93	95%	4,832	6,599	3.2	3.5	3.4	42.3	11.9	10.7	107.0	14.9	14.0
Verint Systems	59.86	97%	3,911	4,305	3.5	3.1	2.9	21.6	13.1	11.3	60.8	16.6	14.8
Progress Software	44.37	93%	1,974	1,955	5.0	4.6	4.5	17.5	9.4	8.5	33.1	17.7	16.6
MicroStrategy	144.25	95%	1,482	906	1.8	1.7	1.6	NM	34.7	16.0	72.9	121.3	71.6
Median		95%	\$5,099	\$4,961	3.5x	3.5x	3.4x	21.0x	13.1x	11.1x	53.9x	24.3x	18.9x
Mean		94%	\$18,472	\$22,259	4.1x	3.8x	3.5x	23.6x	19.0x	14.2x	55.9x	48.8x	38.1x

Public Company Valuation (cont.)

	Price	52-Wk		_		/ Revenue			V / EBITDA			P/E	<u> </u>
Company	03/31/19	High	Mkt Cap	EV	LTM	FY+1	FY+2	LTM	FY+1	FY+2	LTM	FY+1	FY+2
Systems / Network Management													
VMware	\$180.51	96%	\$74 <i>,</i> 089	\$75 <i>,</i> 482	8.4x	7.5x	6.9x	20.7x	19.3x	18.0x	41.7x	27.8x	24.7x
ServiceNow	246.49	98%	44,491	43,655	16.7	12.7	10.0	NM	47.0	35.2	NM	79.0	58.4
Splunk	124.60	87%	18,699	17,576	9.7	7.9	6.5	NM	47.6	34.9	NM	74.3	57.2
L3 Technologies	206.37	92%	16,307	18,670	1.8	1.7	1.6	14.5	12.0	11.2	19.0	18.1	16.0
Citrix Systems	99.66	85%	13,128	13,823	4.6	4.5	4.3	17.0	12.6	12.1	22.7	16.6	15.1
Juniper Networks	26.47	86%	9,210	7,789	1.7	1.7	1.7	10.1	8.1	7.4	16.2	14.7	12.9
SolarWinds	19.52	92%	6,050	7,591	9.1	8.2	7.4	27.2	16.8	15.0	6.2	24.6	21.2
LogMeIn	80.10	65%	4,072	4,124	3.4	3.3	3.1	10.7	10.1	10.6	100.7	16.2	16.7
NetScout Systems	28.07	88%	2,185	2,310	2.5	2.5	NM	NM	9.5	NM	NM	18.0	NM
Median		88%	\$13,128	\$13,823	4.6x	4.5x	5.4x	15.7x	12.6x	13.6x	20.8x	18.1x	18.9x
Mean		88%	\$20,915	\$21,224	6.5x	5.6x	5.2x	16.7x	20.3x	18.0x	34.4x	32.1x	27.8x
Security / Storage													
Palo Alto Networks	\$242.88	93%	\$23,053	\$21,779	8.4x	7.6x	6.4x	NM	27.4x	22.7x	NM	44.4x	38.0x
VeriSign	181.56	98%	21,735	22,251	18.3	18.1	17.4	25.7	24.9	23.9	37.9	35.1	33.2
Splunk	124.60	87%	18,699	17,576	9.7	7.9	6.5	NM	47.6	34.9	NM	74.3	57.2
Symantec	22.99	79%	14,696	17,162	3.6	3.4	NM	22.0	7.8	NM	70.6	12.9	NM
Fortinet	83.97	89%	14,328	12,679	7.0	6.1	5.4	45.3	23.4	20.1	42.8	40.4	35.6
Proofpoint	121.43	93%	6,721	6,489	9.1	7.4	6.2	NM	48.5	37.7	NM	73.6	54.0
CyberArk Software	119.05	100%	4,428	4,002	11.7	9.7	8.1	NM	37.9	30.3	91.6	60.1	48.7
FireEye	16.79	81%	3,410	3,256	3.9	3.7	3.4	NM	26.2	21.7	NM	88.4	54.2
Qualys	82.74	84%	3,230	2,942	10.6	9.1	7.8	37.5	23.9	19.8	56.3	44.2	37.6
Tenable	31.66	80%	3,006	2,723	10.2	8.0	6.4	NM	NM	NM	NM	NM	NM
Box	19.31	65%	2,787	2,682	4.4	3.8	3.3	NM	NM	31.6	NM	NM	96.6
Rapid7	50.61	96%	2,429	2,345	9.6	7.6	6.3	NM	NM	NM	NM	NM	140.6
Sophos	3.93	47%	1,889	2,021	2.9	2.6	NM	36.9	17.3	NM	NM	22.5	NM
ForeScout	41.91	90%	1,866	1,767	5.9	4.8	4.0	NM	NM	NM	NM	NM	NM
SecureWorks	18.40	74%	1,495	1,366	2.6	2.4	2.2	NM	NM	NM	NM	NM	NM
Radware	26.13	92%	1,164	848	3.6	3.3	3.0	49.0	23.9	18.2	100.5	43.6	31.1
Zix	6.88	76%	372	345	4.9	2.1	1.7	23.9	10.3	7.1	24.6	21.5	15.0
Median		87%	\$3,230	\$2,942	7.0x	6.1x	6.2x	36.9x	24.4x	22.7x	56.3x	43.9x	43.3x
Mean		84%	\$7,371	\$7,190	7.4x	6.3x	5.9x	34.3x	26.6x	24.4x	60.6x	46.7x	53.5x

Public Company Valuation (cont.)

	Price	52-Wk			FV	/ Revenue		F	V / EBITDA			P/E	
Company	03/31/19	High	Mkt Cap	EV -	LTM	FY+1	FY+2	LTM	FY+1	FY+2	LTM	FY+1	FY+2
Application Infrastructure													
Microsoft	\$117.94	98%	\$904,861	\$850,368	7.2x	6.8x	6.2x	15.8x	16.2x	14.3x	28.1x	26.7x	23.6x
Oracle	53.71	99%	183,562	200,215	5.0	5.1	5.0	12.1	10.9	10.5	18.3	15.6	14.3
International Business Machines	141.10	87%	125,560	159,509	2.0	2.0	2.0	9.8	8.6	8.3	14.7	10.1	10.0
Red Hat	182.70	100%	32,294	30,419	9.0	7.8	6.9	49.3	28.7	24.6	74.3	46.4	39.4
Atlassian	112.39	97%	26,918	26,110	25.3	21.8	17.1	NM	NM	NM	NM	137.1	110.2
Hewlett Packard Enterprise	15.43	86%	21,145	29,759	1.0	1.0	1.0	6.7	5.7	5.8	16.5	9.4	8.9
Nutanix	37.74	58%	6,872	6,351	5.1	5.0	4.0	NM	NM	NM	NM	NM	NM
New Relic	98.70	86%	5,661	5,342	12.0	8.9	NM	NM	NM	NM	NM	116.1	NM
Cloudera	10.94	49%	2,942	2.462	5.1	2.9	2.4	NM	NM	19.4	NM	NM	54.7
Software	33.52	63%	2,480	2,306	2.3	2.3	2.2	7.7	7.8	7.5	12.7	12.0	12.0
Progress Software	44.37	93%	1,974	1,955	5.0	4.6	4.5	17.5	9.4	8.5	33.1	17.7	16.6
Median		87%	\$21,145	\$26,110	5.1x	5.0x	4.3x	12.1x	9.4x	9.5x	18.3x	17.7x	16.6x
Mean				\$119,527	7.2x	6.2x	5.1x	17.0x	12.5x	12.4x	28.3x	43.4x	32.2x
				1 - 7-		-	-						
Financial Technology	6442.40	1000/	626 546	644.025				45.0	40.7	12.0	20 5	45.2	
Fidelity National Information Services	\$113.10	100%	\$36,546	\$44,835	5.3x	5.3x	5.1x	15.9x	13.7x	12.8x	38.5x	15.2x	13.9x
Fiserv	88.28	100%	34,599	40,143	6.9	6.5	6.2	17.4	16.9	16.0	34.8	25.6	22.8
Square	74.92	74%	31,444	31,034	9.4	13.8	10.3	NM	NM	47.9	NM	99.9	67.2
Jack Henry and Associates	138.74	85%	10,707	10,681	6.8	6.9	6.4	19.3	20.6	18.7	34.5	38.9	34.9
Guidewire Software	97.16	90%	7,910	7,155	9.7	9.8	8.5	NM	43.8	34.8	NM	70.1	62.3
Fair Isaac	271.63	100%	7,897	8,649	8.2	7.7	7.1	33.8	33.5	29.6	51.0	39.3	33.7
ACI Worldwide	32.87	96%	3,818	4,341	4.3	3.9	3.8	19.8	13.7	12.9	55.7	35.0	29.3
Ellie Mae	98.69	84%	3,435	3,132	6.5	6.1	5.6	36.2	21.8	19.2	149.5	51.1	45.3
Envestnet	65.39	97%	3,148	3,318	4.1	3.7	3.2	43.2	18.3	14.9	NM	30.5	25.3
Q2 Holdings	69.26	96%	3,018	3,024	12.5	9.8	8.0	NM	NM	NM	NM	NM	138.5
Bottomline Technologies	50.09	68%	2,164	2,172	5.2	5.2	4.7	39.9	21.9	18.9	136.2	38.2	32.4
Ebix	49.37	55%	1,508	2,131	4.3	3.5	2.9	12.9	10.5	8.9	16.5	11.0	8.9
Median		93%	\$5,857	\$5,748	6.6x	6.3x	5.9x	19.8x	19.5x	18.7x	44.7x	38.2x	33.1x
Mean		87%	\$12,183	\$13,385	6.9x	6.9x	6.0x	26.5x	21.5x	21.3x	64.6x	41.3x	42.9x
Healthcare IT / Life Sciences Software													
Veeva Systems	\$126.86	98%	\$18,576	\$17,485	20.3x	17.0x	14.4x	NM	45.6x	37.7x	79.8x	66.1x	56.8x
Cerner	57.21	85%	18,557	18,225	3.4	3.2	3.0	12.9	10.8	10.0	30.0	21.8	20.0
Medidata Solutions	73.24	82%	4,561	4,409	6.9	6.0	5.2	47.1	24.6	20.3	81.4	41.1	34.8
Allscripts Healthcare Solutions	9.54	64%	1,635	2,159	1.2	1.2	1.1	8.4	6.9	6.5	NM	14.2	12.7
NextGen Healthcare	16.83	71%	1,089	1,087	2.1	2.0	NM	22.3	11.6	NM	83.9	20.5	NM
HealthStream	28.06	88%	907	738	3.2	2.9	2.8	18.1	19.3	16.6	63.2	92.0	72.9
Castlight Health	3.75	63%	538	464	3.0	3.0	2.6	NM	NM	27.1	NM	125.0	57.7
Cegedim	29.30	61%	408	593	1.1	1.1	1.1	6.3	6.6	6.1	13.6	18.1	15.4
Median		77%	\$1,362	\$1,623	3.1x	2.9x	2.8x	15.5x	11.6x	16.6x	71.5x	31.5x	34.8x
Mean		77%	\$5,784	\$5,645	5.1x	4.5x	4.3x	19.2x	17.9x	17.8x	58.6x	49.9x	38.6x

Public Company Operating Metrics

	Price	52-Wk			Reve	nue Growt	th	EBIT	DA Margi	n
Company	03/31/19	High	Mkt Cap	EV	LTM	FY+1	FY+2	LTM	FY+1	FY+2
CRM										
Salesforce	\$158.37	95%	\$122.103	\$120.937	26%	21%	20%	15%	25%	26%
Zendesk	85.00	99%	9,211	9,242	39%	34%	30%	(17%)	7%	9%
HubSpot	166.21	92%	6,584	6,311	37%	27%	24%	(5%)	12%	14%
Pegasystems	65.00	96%	5,099	4,891	0%	8%	12%	1%	6%	6%
Five9	52.83	91%	3,130	3,046	29%	17%	17%	7%	17%	18%
LivePerson	29.02	96%	1,855	1,789	14%	15%	19%	(3%)	4%	9%
Median		95%	\$5,841	\$5,601	27%	19%	20%	1%	12%	14%
Mean		95%	\$24,664	\$24,369	24%	20%	20%	0%	13%	15%
Accounting / ERP										
Oracle	\$53.71	99%	\$183,562	\$200,215	1%	(1%)	2%	41%	47%	47%
SAP	115.64	91%	138,031	140,631	10%	5%	8%	28%	35%	36%
International Business Machines	141.10	87%	125,560	159,509	1%	(2%)	0%	20%	24%	24%
Intuit	261.41	100%	67,724	66,370	14%	12%	10%	31%	37%	37%
The Sage Group (Financial Software)	9.15	96%	9,943	10,813	14%	3%	6%	27%	26%	27%
Coupa	90.98	91%	5,554	5,407	39%	25%	24%	(14%)	5%	11%
Xero	34.44	90%	4,810	4,754	42%	67%	NA	11%	20%	NA
BlackLine	46.32	80%	2,549	2,421	30%	22%	22%	(3%)	7%	9%
Upland Software	42.36	97%	911	1,174	53%	32%	5%	9%	37%	38%
Qad	43.07	70%	808	681	9%	(1%)	7%	3%	5%	8%
Median		91%	\$7,748	\$8,110	14%	8%	7%	16%	25%	27%
Mean		90%	\$53,945	\$59,198	21%	16%	9%	15%	24%	26%
Supply Chain Management										
SAP	\$115.64	91%	\$138,031	\$140,631	10%	5%	8%	28%	35%	36%
Dassault Systemes	149.04	91%	38,543	36,545	13%	8%	9%	29%	34%	35%
PTC	92.18	86%	10,935	11,411	7%	7%	13%	13%	30%	32%
Aspen Technology	104.26	88%	7,261	7,427	7%	12%	(0%)	41%	51%	50%
Manhattan Associates	55.11	88%	3,560	3,459	(6%)	2%	3%	26%	23%	23%
Descartes Systems Group	36.16	100%	2,790	2,788	16%	20%	10%	31%	36%	37%
American Software	11.95	63%	372	289	2%	(2%)	5%	11%	13%	14%
Median		88%	\$7,261	\$7,427	7%	7%	8%	28%	34%	35%
Mean		87%	\$28,785	\$28,936	7%	7%	7%	26%	32%	32%

Public Company Operating Metrics (cont.)

	Price	52-Wk			Reve	nue Growt	th	EBIT	DA Margi	'n
Company	03/31/19	High	Mkt Cap	EV	LTM	FY+1	FY+2	LTM	FY+1	FY+2
Human Capital Management										
Workday	\$192.85	96%	\$42,813	\$42,239	32%	26%	23%	(7%)	19%	21%
Paychex	80.20	99%	28,823	28,945	9%	12%	11%	42%	41%	41%
Paycom Software	189.13	99%	11,059	11,048	31%	26%	22%	36%	41%	42%
Ultimate Software Group	330.13	90%	10,650	10,500	21%	20%	20%	12%	24%	24%
Paylocity	89.19	96%	4,720	3,357	25%	22%	21%	15%	28%	29%
Cornerstone OnDemand	54.78	91%	3,238	3,184	12%	5%	14%	5%	21%	24%
Median		96%	\$10,855	\$10,774	23%	21%	20%	13%	26%	27%
Mean		95%	\$16,884	\$16,546	22%	18%	19%	17%	29%	30%
Knowledge / Content Management										
Adobe Systems	\$266.49	96%	\$130,034	\$130,937	24%	24%	18%	34%	45%	46%
VeriSign	181.56	98%	21,735	22,251	4%	1%	4%	71%	73%	73%
Akamai Technologies	71.71	86%	11,704	11,372	9%	5%	7%	29%	41%	42%
OpenText	38.19	96%	10,264	12,288	8%	3%	4%	35%	38%	39%
Dropbox	21.80	50%	8,966	8,040	26%	18%	15%	(23%)	22%	25%
DocuSign	51.84	76%	8,808	8,478	35%	30%	24%	(54%)	8%	11%
SDL	7.05	89%	639	621	17%	13%	6%	8%	11%	11%
MobileIron	5.47	96%	584	479	7%	9%	9%	(20%)	2%	9%
Brightcove	8.41	78%	308	279	6%	3%	9%	(4%)	3%	7%
Median		89%	\$8,966	\$8,478	9%	9%	9%	8%	22%	25%
Mean		85%	\$21,449	\$21,638	15%	12%	11%	9%	27%	29%
Business Intelligence										
International Business Machines	\$141.10	87%	\$125,560	\$159,509	1%	(2%)	0%	20%	24%	24%
Tableau Software	127.28	93%	10,957	9,935	32%	18%	19%	(3%)	16%	18%
NICESystems	122.51	99%	7,298	7,268	8%	9%	8%	25%	30%	30%
Teradata	43.65	88%	5,132	4,961	0%	(6%)	3%	8%	19%	22%
Pegasystems	65.00	96%	5,099	4,891	0%	8%	12%	1%	6%	6%
Nuance	16.93	95%	4,832	6,599	8%	(9%)	4%	8%	30%	32%
Verint Systems	59.86	97%	3,911	4,305	8%	11%	9%	16%	24%	26%
Progress Software	44.37	93%	1,974	1,955	(2%)	7%	2%	28%	49%	53%
MicroStrategy	144.25	95%	1,482	906	(1%)	4%	7%	2%	5%	NM
Median		95%	\$5,099	\$4,961	1%	7%	7%	8%	24%	25%
Mean		94%	\$18,472	\$22,259	6%	5%	7%	12%	22%	26%

Public Company Operating Metrics (cont.)

	Price	52-Wk			Reve	nue Grow	th	EBIT	DA Margi	n
Company	03/31/19	High	Mkt Cap	EV	LTM	FY+1	FY+2	LTM	FY+1	FY+2
Systems / Network Management										
VMware	\$180.51	96%	\$74,089	\$75,482	14%	12%	10%	41%	39%	38%
ServiceNow	246.49	98%	44,491	43,655	36%	31%	28%	5%	27%	28%
Splunk	124.60	87%	18,699	17,576	38%	23%	22%	(11%)	17%	19%
L3 Technologies	206.37	92%	16,307	18,670	7%	5%	5%	13%	14%	15%
Citrix Systems	99.66	85%	13,128	13,823	5%	4%	4%	27%	36%	35%
Juniper Networks	26.47	86%	9,210	7,789	(8%)	(3%)	3%	17%	21%	23%
SolarWinds	19.52	92%	6,050	7,591	14%	11%	11%	33%	49%	49%
LogMeIn	80.10	65%	4,072	4,124	22%	4%	5%	32%	33%	30%
NetScout Systems	28.07	88%	2,185	2,310	(15%)	(5%)	NA	4%	26%	NA
Median		88%	\$13,128	\$13,823	14%	5%	7%	17%	27%	29%
Mean		88%	\$20,915	\$21,224	13%	9%	11%	18%	29%	30%
Converties / Channel										
Security / Storage	¢2.42.00	0.20/	622.052	624 770	200/	260/	100/	20/	200/	200/
Palo Alto Networks	\$242.88	93%	\$23,053	\$21,779	30%	26% 1%	<u>19%</u> 4%	2%	28%	28%
VeriSign	181.56	98%	21,735	22,251	4%			71%	73%	73%
Splunk	124.60	87%	18,699	17,576	38%	23% 3%	22%	(11%)	17%	19%
Symantec	22.99	79% 89%	14,696	17,162	<u> </u>		NM	<u> 16% </u> 16%	44% 26%	NM 27%
Fortinet	83.97		14,328	12,679			13%			
Proofpoint	121.43	93%	6,721	6,489	38%	22%	21%	(4%)	15%	16%
CyberArk Software	119.05 16.79	100%	4,428	4,002	<u>31%</u> 7%	21% 7%	19%	16%	26%	27% 16%
FireEye		81%	3,410	3,256			7%	(13%)	14%	
Qualys	82.74	84%	3,230	2,942	21%	15%	17%	28%	38%	40%
Tenable	31.66	80%	3,006	2,723	42%	28%	25%	(24%)	(14%)	(9%)
Box	19.31	65%	2,787	2,682	20%	15%	15%	(14%)	7%	11%
Rapid7	50.61	96%	2,429	2,345	21%	26%	22%	(17%)	3%	8%
Sophos	3.93	47%	1,889	2,021	22%	19%	NM	8%	15%	NM
ForeScout	41.91	90%	1,866	1,767	33%	24%	21%	(21%)	(2%)	5%
SecureWorks	18.40	74%	1,495	1,366	11%	10%	9%	(1%)	1%	2%
Radware	26.13	92%	1,164	848	11%	9%	10%	7%	14%	17%
Zix	6.88	76%	372	345	7%	135%	24%	20%	20%	24%
Median		87%	\$3,230	\$2,942	21%	19%	19%	2%	15%	17%
Mean		84%	\$7,371	\$7,190	21%	23%	16%	5%	19%	20%

Public Company Operating Metrics (cont.)

	Price	52-Wk			Reve	nue Grow	th	EBIT	DA Margi	n
Company	03/31/19	High	Mkt Cap	EV	LTM	FY+1	FY+2	LTM	FY+1	FY+2
Application Infrastructure										
Microsoft	\$117.94	98%	\$904,861	\$850,368	16%	13%	10%	45%	42%	43%
Oracle	53.71	99%	183,562	200,215	1%	(1%)	2%	41%	47%	47%
International Business Machines	141.10	87%	125,560	159,509	1%	(2%)	0%	20%	24%	24%
Red Hat	182.70	100%	32,294	30,419	15%	15%	14%	18%	27%	28%
Atlassian	112.39	97%	26,918	26,110	39%	37%	28%	(16%)	27%	28%
Hewlett Packard Enterprise	15.43	86%	21,145	29,759	4%	(0%)	1%	15%	17%	16%
Nutanix	37.74	58%	6,872	6,351	22%	11%	23%	(26%)	(15%)	(12%)
New Relic	98.70	86%	5,661	5,342	35%	69%	NA	4%	16%	NA
Cloudera	10.94	49%	2,942	2,462	31%	76%	21%	7%	(7%)	12%
Software	33.52	63%	2,480	2,306	3%	0%	2%	29%	29%	29%
Progress Software	44.37	93%	1,974	1,955	(2%)	7%	2%	28%	49%	53%
Median		87%	\$21,145	\$26,110	15%	11%	6%	18%	27%	28%
Mean			\$119,479	\$119,527	15%	20%	10%	15%	23%	27%
			, .	- /-						
Financial Technology	\$113.10	100%	\$36,546	\$44,835	(3%)	(0%)	4%	33%	39%	40%
Fidelity National Information Services	88.28	100%		. ,	2%	6%	4% 5%	40%	38%	39%
Fiserv			34,599	40,143	=7-	• / -				
Square Jack Henry and Associates	74.92	74%	31,444 10,707	31,034 10,681	<u>49%</u> 9%	<u>(32%)</u> 1%	34% 7%	<u>2%</u> 35%	18% 33%	21% 34%
			,		28%	10%				
Guidewire Software	97.16 271.63	90%	7,910	7,155	28% 12%	9%	16% 8%	8%	22%	24% 24%
Fair Isaac		100%	7,897	8,649				24%	23%	
ACI Worldwide	32.87	96%	3,818	4,341	(1%)	9%	3%	22%	29%	30%
Ellie Mae	98.69	84%	3,435	3,132	15%	7%	10%	18%	28%	29%
Envestnet	65.39	97%	3,148	3,318	19%	10%	17%	9%	20%	21%
Q2 Holdings	69.26	96%	3,018	3,024	24%	28%	23%	(6%)	7%	11%
Bottomline Technologies	50.09	68%	2,164	2,172	13%	7%	10%	13%	24%	25%
Ebix	49.37	55%	1,508	2,131	37%	21%	22%	33%	34%	33%
Median		93% 87%	\$5,857 \$12,183	\$5,748 \$13,385	14% 17%	8% 6%	10% 13%	20% 19%	26% 26%	27% 28%
Mean		0170	\$12,165	\$13,365	1770	0%	15%	19%	20%	20%
Healthcare IT / Life Sciences Software										
Veeva Systems	126.86	98%	18,576	17,485	25%	19%	18%	28%	37%	38%
Cerner	57.21	85%	18,557	18,225	4%	7%	7%	26%	29%	30%
Medidata Solutions	73.24	82%	4,561	4,409	17%	16%	15%	15%	24%	25%
Allscripts Healthcare Solutions	9.54	64%	1,635	2,159	17%	3%	4%	15%	17%	18%
NextGen Healthcare	16.83	71%	1,089	1,087	0%	4%	NA	9%	17%	NA
HealthStream	28.06	88%	907	738	8%	10%	3%	18%	15%	17%
Castlight Health	3.75	63%	538	464	18%	(1%)	14%	(21%)	5%	10%
Cegedim	29.30	61%	408	593	11%	5%	3%	17%	17%	17%
Median		77%	\$1,362	\$1,623	14%	6%	7%	16%	17%	18%
Mean		77%	\$5,784	\$5,645	13%	8%	9%	13%	20%	22%

Source: Capital IQ and Pitchbook as of 3/31/19

Vista Point Advisors Overview

Vista Point Advisors is a boutique investment bank focused on capital raises and M&A advisory for growing technology companies

Software	Internet	Mobile	Hardware
Software-as-a-Service	 Advertising and Marketing 	Consumer Applications	Communications
On-premise	 Digital Media 	 Enterprise Applications 	Entertainment
 Application Software 	Gaming	Gaming	Industrial
Healthcare IT	Content	 Payments 	Systems
Financial Tech	Platforms	Infrastructure	Consumer
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