Equity Research May 3, 2018

# NAVIDA R<sup>®</sup>

# SaaS Software Cloud Update – April 2018

### Public Markets and M&A Activity

**The Navidar SaaS Software Cloud Index** advanced +2.6% in April and +17.2% so far in 2018, compared with the NASDAQ's +0.0% and +2.4%, the Russell 2000's +0.9% and +0.5%, and the S&P 500's +0.3% and -1.0%, respectively. Following is a summary of the company-specific issues related to selected stocks in our coverage universe that meaningfully out-or under-performed as well as relevant M&A activity.

**Citrix Systems (NASDAQ: CTXS +10.9%)** – the enterprise software maker reported better than expected 1Q18 earnings. CTXS revenues increased by 5.2% to \$697M in 1Q18, surpassing consensus estimate of \$676M; 1Q18 adjusted earnings beating consensus estimates by 24 cents to \$1.29 per share. Subscription revenues surged 49.3% to \$103M, support and services revenues inched up 2.5% to \$433M, while product and license revenues declined 6% to \$161M. For 2Q18 and full year 2018, CTXS guided revenues in the range of \$710-720M and \$2.88-2.91B, respectively.

Asure Software (NASDAQ: ASUR +23.7%) – the human capital management (HCM) and workplace management software provider closed two strategic transactions during the month and revised its guidance upwards for 2018. ASUR acquired Evolution HCM customer portfolio from Wells Fargo Business Payroll Services and Austin HR, a provider of outsourced human resources (HR), consulting, and professional services around payroll and employee benefits. The deals will expand ASUR's footprint nationwide, provide opportunities to enhance its service offerings and penetrate in emerging growth markets. Following the closing of the deals, ASUR revised its revenue guidance to \$85-88M, up from \$79-82M, EBITDA to \$19-22M from \$18-20M.

**Cloudera (NYSE: CLDR –34.0%)** – the big data specialist's stock declined over weak guidance for the coming year (FY2019). CLDR reported strong 4Q18 earnings, with revenues growing by 42% to \$103.5M, beating street estimates by ~\$5M and non-GAAP EPS beating estimates by \$0.13 to (\$0.10). Core subscription revenues increased by 50% during the quarter. With management guiding for a huge decline in subscription revenue growth, combined with a forecast for continued operating losses and cash burn, the stock nosedived during the month. The company expects decline in growth rates from the current 42% to 20% in fiscal 2019, with 20% total revenue growth, 24% revenue subscription growth and non-GAAP net loss per share of (\$0.62) to (\$0.59).







# Athenahealth (NASDAQ: ATHN –14.4%) – the cloud-based healthcare applications provider's stock weakened on soft bookings reported in 1Q18 (down over 32% YOY) and deteriorating client retention rates. Although ATHN reported strong 1Q18 results, with revenues of \$329M, beating consensus estimates of \$319M and adjusted earnings beating consensus estimates by ~71% at \$1.25 per share. The company guided revenues to be \$1.31-1.38B in 2018, in line with consensus estimate of \$1.35B. ATHN fell short of its booking goals in 1Q18, down 32% YOY (\$52M versus \$77M), leading to concerns over long-term revenue growth. Also, the company failed to add any significant new customers since 1Q17.

**Benefitfocus (NASDAQ: BNFT +23.8%)** – the cloud-based benefits management platform and services provider announced a new stock award program for its employees. The program gives current employees a one-time restricted stock unit award of ~ \$2,000, at the time of the award. The new program will provide an opportunity to BNFT employees to own a piece of the company and benefit from its success.

**ChannelAdvisor (NYSE: ECOM +46.2%)** – the cloud-based e-commerce solutions provider reported strong preliminary results for 1Q18, exceeding prior guidance. Total revenue is expected to be \$31.2M, \$1.4M higher than the guidance range of \$29.4-29.8M. Adjusted EBITDA is expected to be ~\$0.8M, \$1.1M above the high end of the previous guidance range of a loss of (\$0.7-0.3M). ECOM results reflect its continued emphasis on driving revenue growth while improving operational efficiency.

**AppFolio (NASDAQ: APPF +17.4%)** – the property management software maker reported strong 1Q18 financial results. APPF reported revenues of \$42.3M during the quarter, beating consensus estimates of \$41M. The company posted diluted earnings of \$0.12 per share, matching the consensus estimate of \$0.12. The company guided the full year revenue to be in the range of \$179-182M.

**Financial Engines (NASDAQ: FNGN +27.6%)** – Private equity firm Hellman & Friedman announced plans to acquire the independent investment advisor for ~\$3.0B in an all cash deal, representing a 32.0% prior-close premium. Hellman & Friedman intends to combine FNGN with one of its portfolio companies, Edelman Financial Services, an independent financial planning and investment management firm. The combined entity is expected to have over \$190B in assets under management.

Faster	Growth
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(2019E growth > 20%, excluding micro-caps)

	0			0 1 /									
Ticker	4/30 \$Price	Apr %ch	Ticker	4/30 \$Price	Apr %ch								
AMZN	1566.13	8.2	PAYC	114.21	6.4								
APPF	47.95	17.4	PCTY	54.63	6.6								
AYX	31.25	-8.5	QTWO	49.25	8.1								
BL	41.40	5.6	RNG	67.05	5.6								
BOX	22.86	11.2	SAIL	24.09	16.4								
CDLX	14.02	-4.2	SEND	28.86	2.6								
COUP	46.37	1.6	SHOP	133.63	7.3								
EVBG	37.35	2.0	SNAP	14.33	-9.7								
FB	172.00	7.6	TEAM	55.98	3.8								
HDP	16.93	-16.9	TWLO	42.21	10.6								
HUBS	105.90	-2.2	TWOU	80.49	-4.2								
INST	40.55	-3.8	WDAY	124.84	-1.8								
MB	39.65	1.9	WIX	82.25	3.4								
MULE	44.58	1.4	YEXT	13.34	5.5								
NOW	166.14	0.4	ZEN	48.75	1.8								
ΟΚΤΑ	42.81	7.4	ZS	29.89	6.5								

### Slower Growth

(2019E growth < 20%, excluding micro-caps)

(20196	giowins	~ 2070, 0	Excluding		ih2)
Ticker	4/30 \$Price	Apr %ch	Ticker	4/30 \$Price	Apr %ch
AAPL	165.26	-1.5	GOOGL	1018.58	-1.8
ALRM	40.38	7.0	GWRE	84.62	4.7
AMBR	9.26	4.0	IBM	144.96	-5.5
APPN	27.11	7.7	INTU	184.79	6.6
APTI	29.51	4.1	LOGM	110.20	-4.6
ASUR	15.14	23.7	LPSN	16.80	2.8
ATHN	122.47	-14.4	MODN	17.15	-5.0
BCOV	9.65	38.8	MSFT	93.52	2.5
BNFT	30.20	23.8	ORCL	45.67	-0.2
CHUB.K	22.67	0.8	PEGA	61.05	0.7
CLDR	14.25	-34.0	PYPL	74.61	-1.7
CRM	120.99	4.0	RST	13.91	5.8
CSCO	44.29	3.3	RP	53.50	3.9
CSLT	3.75	2.7	SAP	111.05	5.9
CSOD	44.13	12.8	SPSC	68.57	7.0
CTXS	102.91	10.9	SREV	3.79	-0.5
DATA	85.05	5.2	STMP	227.75	13.3
DBX	30.11	-3.6	TWTR	30.31	4.5
EBAY	37.88	-5.9	ULTI	239.92	-1.6
ECOM	13.30	46.2	UPLD	27.17	-5.6
EGAN	8.65	8.8	VEEV	70.13	-4.0
ELLI	96.87	5.4	VRNS	65.35	8.0
ENV	54.30	-5.2	WAGE	41.65	-7.9
FNGN	44.65	27.6	WEB	18.60	2.8
GDDY	64.56	5.1	WK	22.50	-5.1
		Inde	exes		
	(୨	6 chang	ge in Apr)		
Factors	225	3.6	ΝΔΩΡΔΟ	h	0.0

Faster SaaS		NASDAQ	0.0
Slower SaaS		S&P 500	0.3
Others	-2.0	Russell2000	0.9
Overall SaaS	2.6	S&P Volatility	-20.2

Data source: S&P Capital IQ. 4/30/2018 Prices. 4/1-30/2018 %Change. All investing involves risk, including the risk of losing the entire investment. Prices are subject to change without prior notice.



### More M&A

- Trimble (NASDAQ: TRMB +9.1%) acquired Viewpoint for ~\$1.2B. Viewpoint provides cloud, software as a service (SaaS) and on premise commercial construction software solutions. It integrates a contractor's financial and resource management to their project operations and to their jobsite and field. The deal is highly complementary to TRMB's e-Builder business and will round out its comprehensive construction technology portfolio.
- ServiceNow (NYSE: NOW +9.1%) acquired VendorHawk for an undisclosed consideration. VendorHawk's technology optimizes customer SaaS usage, provides transparency and aims to help customers' digital transformation initiatives. The deal expands NOW's capabilities in software asset management by providing transparency into software license utilization and costs.
- Tyler Technologies (NYSE: TYL +9.1%) acquired Socrata for an undisclosed consideration. Socrata provides a data-as-aservice platform and cloud applications exclusively for city, county, state, and federal government organizations. The deal will allow TYL to tailor its solutions to the needs of the public sector verticals it serves.
- Actian, a provider of hybrid data management, cloud integration and analytics solutions, announced plans to be acquired by HCL Technologies, Sumeru Equity Partners and Actian's CEO and President, Rohit DeSouza, from Garnett & Helfrich Capital, for ~\$330M in an all-cash deal.
- Smartvue, a provider of cloud-based security camera platform that delivers remote monitoring from computers, smart phones, or tablets, was acquired by Johnson Controls International (NYSE: JCI) from Fortress Investment Group, Big Basin Partners and Ellis Capital, for an undisclosed consideration.

Select Horizontal Companies 4/30 4/30 Apr Apr Ticker Ticker \$Price %ch \$Price %ch AAPL 165.26 -1.5 MRIN 7.25 9.0 APPN 27.11 7.7 MSFT 93.52 2.5 APTI 29.51 41 MULE 44 58 14 ASUR 15.14 23.7 NOW 166.14 0.4 ΔΥΧ 31 25 -85 ΟΚΤΑ 42 81 74 BCOV -0.2 9.65 38.8 ORCL 45.67 BL 41.40 5.6 PAYC 114.21 6.4 BNFT 30.20 23.8 PCTY 54.63 6.6 вох 22.86 11.2 PEGA 61.05 0.7 CCUR 5 20 83 PGOW 0.08 0.0 CHUB.K 22.67 0.8 PYDS 1.71 -5.5 CLDR -1.7 14.25 -34.0 PYPL 74.61 COUP 46.37 RNG 67.05 5.6 1.6 CRM 120.99 4.0 SAP 111.05 5.9 CSCO 44.29 3.3 SEND 28.86 2.6 CSOD 44.13 12.8 SHSP 6.47 1.6 CTXS 102.91 10.9 SMSI 1.99 13.7 DATA 85.05 5.2 SNAP 14.33 -9.7 DBX SPRT 2.71 -1.8 30.11 -3.6 EGAN SREV 3.79 -0.5 8.65 8.8 EVBG 37.35 TEAM 3.8 2.0 55.98 FNJN 2.95 -9.2 TWLO 42.21 10.6 GDDY 64.56 5.1 ULTI 239.92 -1.6 GOOGL 1018.58 UPLD -1.8 27.17 -5.6 GSB 3.73 1.4 VRNS 65.35 8.0 HDP 16.93 -16.9 WAGE 41.65 -7.9 HUBS 105.90 -2.2 WDAY 124.84 -1.8 IBM 144.96 -5.5 WEB 18.60 2.8 INTU 184 79 6.6 WК 22 50 -51 LOGM 110.20 -4.6 YEXT 13.34 5.5 16.80 ZEN 48.75 LPSN 2.8 1.8 LVT 0.32 -1.9 ZS 29.89 6.5 MFON 0.99 -9.2 Select Vertical Companies 4/30 Apr 4/30 Apr Ticker Ticker ŚPrice %ch ŚPrice %ch ΔCTΔ 0 76 -2.0 INST 40 55 -3.8

NAVIDA R®

AKDS         0.32         -41.0         INUV         0.95         3.5           ALRM         40.38         7.0         IPAS         0.31         -18.4           AMBR         9.26         4.0         MB         39.65         1.9           AMZN         1566.13         8.2         MODN         17.15         -5.0           APFF         47.95         17.4         QTWO         49.25         8.1           ATHN         122.47         -14.4         RP         53.50         3.9           CDLX         14.02         -4.2         RST         13.01         5.8           COYN         0.03         -16.7         SALL         24.09         16.4           CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4 </th <th>ACTA</th> <th>0.76</th> <th>-2.0</th> <th>11021</th> <th>40.55</th> <th>-3.8</th>	ACTA	0.76	-2.0	11021	40.55	-3.8
AMBR         9.26         4.0         MB         39.65         1.9           AMZN         1566.13         8.2         MODN         17.15         -5.0           APPF         47.95         17.4         QTWO         49.25         8.1           ATHN         122.47         -14.4         RP         53.50         3.9           CDLX         14.02         -4.2         RST         13.91         5.8           COYN         0.03         -16.7         SAIL         24.09         16.4           CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1	AKDS	0.32	-41.0	INUV	0.95	3.5
AMZN         1566.13         8.2         MODN         17.15         -5.0           APPF         47.95         17.4         QTWO         49.25         8.1           ATHN         122.47         -14.4         RP         53.50         3.9           CDLX         14.02         -4.2         RST         13.91         5.8           COYN         0.03         -16.7         SAIL         24.09         16.4           CSLT         3.75         2.7         SCL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.	ALRM	40.38	7.0	IPAS	0.31	-18.4
APPF         47.95         17.4         QTWO         49.25         8.1           ATHN         122.47         -14.4         RP         53.50         3.9           CDLX         14.02         -4.2         RST         13.91         5.8           COYN         0.03         -16.7         SAIL         24.09         16.4           CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.	AMBR	9.26	4.0	MB	39.65	1.9
ATHN         122.47         -14.4         RP         53.50         3.9           CDLX         14.02         -4.2         RST         13.91         5.8           COYN         0.03         -16.7         SAIL         24.09         16.4           CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80<-21.1	AMZN	1566.13	8.2	MODN	17.15	-5.0
CDLX         14.02         -4.2         RST         13.91         5.8           COYN         0.03         -16.7         SAIL         24.09         16.4           CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	APPF	47.95	17.4	QTWO	49.25	8.1
COYN         0.03         -16.7         SAIL         24.09         16.4           CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	ATHN	122.47	-14.4	RP	53.50	3.9
CSLT         3.75         2.7         SCIL         0.69         13.1           CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	CDLX	14.02	-4.2	RST	13.91	5.8
CSTI         8.00         -4.2         SHOP         133.63         7.3           CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELII         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	COYN	0.03	-16.7	SAIL	24.09	16.4
CXDO         2.50         -10.7         SNCR         11.20         6.2           EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	CSLT	3.75	2.7	SCIL	0.69	13.1
EBAY         37.88         -5.9         SPSC         68.57         7.0           ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	CSTI	8.00	-4.2	SHOP	133.63	7.3
ECOM         13.30         46.2         STMP         227.75         13.3           ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	CXDO	2.50	-10.7	SNCR	11.20	6.2
ELLI         96.87         5.4         SVVC         10.96         -2.9           ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	EBAY	37.88	-5.9	SPSC	68.57	7.0
ENV         54.30         -5.2         TWOU         80.49         -4.2           EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	ECOM	13.30	46.2	STMP	227.75	13.3
EVOL         3.80         -21.1         TWTR         30.31         4.5           FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	ELLI	96.87	5.4	SVVC	10.96	-2.9
FB         172.00         7.6         VEEV         70.13         -4.0           FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	ENV	54.30	-5.2	TWOU	80.49	-4.2
FNGN         44.65         27.6         WIX         82.25         3.4           GSVC         6.74         -10.6         WSTL         3.07         -8.4	EVOL	3.80	-21.1	TWTR	30.31	4.5
GSVC 6.74 -10.6 WSTL 3.07 -8.4	FB	172.00	7.6	VEEV	70.13	-4.0
	FNGN	44.65	27.6	WIX	82.25	3.4
GWRE 84.62 4.7	GSVC	6.74	-10.6	WSTL	3.07	-8.4
	GWRE	84.62	4.7			

## Indexes

(% change in Apr)													
Horizontal SaaS	2.0	NASDAQ S&P 500	0.0										
Vertical SaaS	3.4	S&P 500	0.3										
Overall SaaS	2.5	Russell2000 S&P Volatility	0.9										
		S&P Volatility	-20.2										

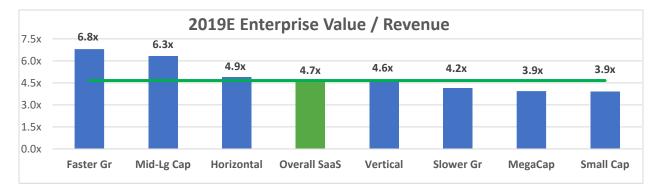
Data source: S&P Capital IQ. 4/30/2018 Prices. 4/1-30/2018 %Change. All investing involves risk, including the risk of losing the entire investment. Prices are subject to change without prior notice.

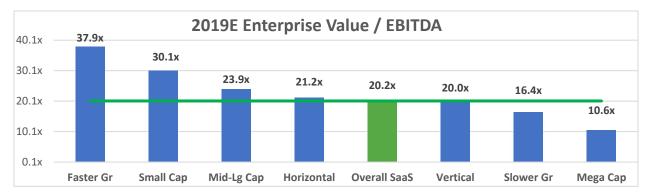
 <sup>1</sup> Horizontal companies provide software that can be used in almost all industries
 <sup>2</sup> Vertical companies provide software for specific industries



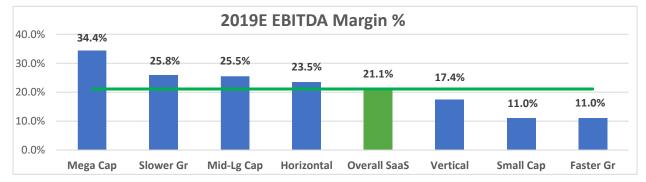


### Public Comparisons - Calendar Year (CY) 2019E Metrics - SaaS Software Cloud









**Data Source:** S&P Capital IQ | **Mega Cap** = \$100B+ mcap | **Mid-Large Cap** = \$3B-\$100B mcap | **Small Cap** = \$150M-3B mcap | **Micro Cap** = <\$150M mcap | **Fast Growth** = 2019E rev gr >20% | **Slow Growth** = 2019E rev gr <20% | **Horizontal** = Industry-neutral | **Vertical** = Industry-specific | **Overall SaaS** = median | **EBITDA** = earnings before int., tax, depr., amort.

NAVIDA R<sup>®</sup>

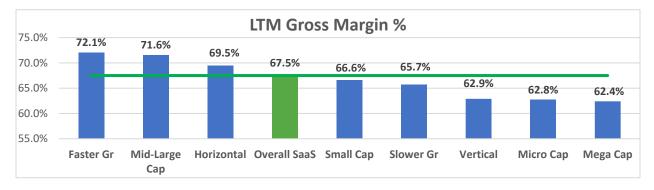
4

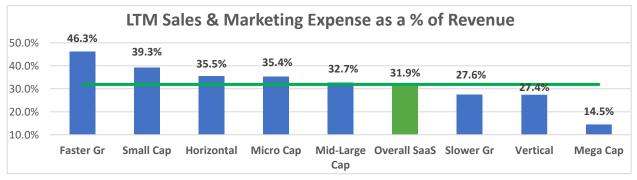
www.Navidar.com

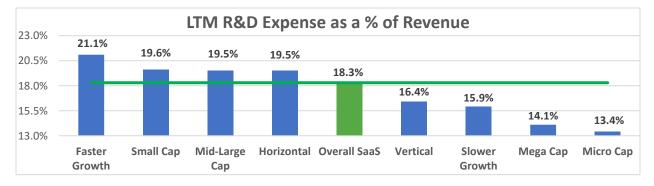
NAVIDAR<sup>®</sup>

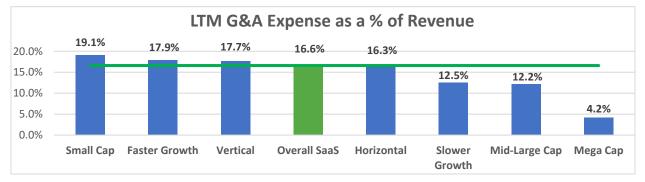


### Public Comparisons - Last Twelve Months (LTM) Metrics - SaaS Software Cloud









**Data Source:** S&P Capital IQ | **Mega Cap** = \$100B+ mcap | **Mid-Large Cap** = \$3B-\$100B mcap | **Small Cap** = \$150M-3B mcap | **Micro Cap** = <\$150M mcap | **Fast Gr** = 2019E rev gr >20% | **Slow Gr** = 2019E rev gr <20% | **Horizontal** = Industry-neutral solution | **Vertical** = Industry-specific solution | **Overall SaaS** = Group median



### Selected Fast Growth - SaaS Software Cloud Public Company Valuation Metrics

ickar	Company Name	5/1/18	Market	Enterpris e	2019E 9	Street	EBITDA	2020E	EV /S	ale s	EV	/FC F	Price %	Change	From	60D avg	Short as	lns ide r
		Price		Value (EV)		Growth	margin	Growth	CY19E	CY20E	CY19E	C Y 20E	1M	3M	12M	\$V o lum e	% of Float	Ow ners hi
	owth (2019E Reve																	
	Amazon	\$1,582.26			\$290,236		13.4%	20%	2.7x	2.3x	32.0x	23.6x	9%	14%	67%	9,716.60	1.1%	16%
	A ppFolio	49.25	1,683	1,637	224	23%	25.4%	21%	7.3x	6.0x	39.3x	na	21%	15%	89%	5.67	2.5%	44%
	Alteryx	32.99	1,999	1,825	237	32%	na	34%	7.7x	5.7x	73.8x	42.7x	-3%	17%	107%	19.42	15.0%	19%
BL	BlackLine	41.57	2,222	2,109	279	25%	5.8%	26%	7.6x	6.0x	na	63.0x	6%	25%	28%	26.80	4.4%	17%
вох	Box	23.28	3,201	3,079	737	22%	6.2%	13%	4.2x	3.7x	38.5x	na	13%	4%	33%	75.48	6.1%	7%
CDLX	Cardlytics	14.11	282	517	227	43%	4.5%	21%	2.3x	1.9x	na	60.8x	-4%	0%	0%	1.98	10.3%	7%
COUP	Coupa	47.01	2,662	2,412	287	25%	2.6%	27%	8.4x	6.6x	82.9x	na	3%	21%	67%	32.80	7.0%	1%
EV BG	Everbridge	37.79	1,078	1,022	172	26%	2.4%	23%	5.9x	4.8x	na	na	3%	17%	60%	11.45	11.6%	12%
FB	Facebook	173.86	503,260	459,304	71,614	27%	60.4%	23%	6.4x	5.2x	22.8x	17.3x	9%	-10%	14%	7,239.34	1.4%	18%
HDP	Hortonw orks	17.18	1,350	1,277	409	25%	na	18%	3.1x	2.6x	71.0x	na	-16%	-13%	64%	15.08	4.1%	3%
	HubSpot	105.30	4,033	3,827	601	24%	10.6%	25%	6.4x	5.1x	78.6x	na	-3%	9%	57%	61.26	9.7%	6%
INST	Instructure	39.25	1,346	1,209	261	26%	na	26%	4.6x	3.7x	na	na	-7%	8%	64%	9.91	4.1%	10%
MB	MINDBODY	39.30	1,863	1,646	325	28%	13.1%	na	5.1x	na	59.0x	na	1%	12%	35%	14.15	13.4%	5%
<b>AULE</b>	MuleSoft	44.57	5,953	5,749	543	32%	na	31%	10.6x	8.1x	na	na	1%	81%	93%	188.04	1.9%	7%
NON	ServiceNow	165.42	29,226	28,494	3,339	28%	28.2%	26%	8.5x	6.7x	30.5x	22.1x	0%	8%	74%	337.66	5.4%	1%
OKTA	Okta	43.44	4,546	4,317	458	32%	na	53%	9.4x	6.2x	na	41.1x	9%	45%	70%	90.40	7.5%	11%
PAYC	Paycom	112.59	6,650	6,640	672	24%	39.7%	23%	9.9x	8.1x	39.7x	37.3x	5%	25%	85%	78.20	13.4%	16%
РСТҮ	Paylocity	53.82	2,831	2,720	495	22%	21.2%	na	5.5x	na	41.9x	na	5%	5%	34%	13.40	4.1%	35%
TWO	Q2 Holdings	50.10	2,127	2,028	290	23%	11.6%	22%	7.0x	5.7x	94.5x	na	10%	18%	30%	14.70	4.2%	2%
RNG	RingCentral	68.05	5,353	5,172	777	23%	12.3%	23%	6.7x	5.4x	na	57.2x	7%	25%	109%	41.79	3.4%	21%
SAIL	SailPoint	23.90	2,084	2,036	276	24%	10.2%	20%	7.4x	6.2x	77.7x	41.4x	16%	51%	0%	17.47	3.6%	9%
SEND	SendGrid	28.75	1,247	1,088	174	24%	11.0%	24%	6.2x	5.0x	na	65.1x	2%	27%	0%	11.90	2.2%	8%
бНОР	Shopify	127.68	13,486	11,906	1,382	37%	6.4%	30%	8.6x	6.6x	na	59.3x	2%	1%	65%	256.74	9.2%	15%
SNA P	Snap	14.13	17,338	15,311	2,001	51%	na	44%	7.7x	5.3x	na	na	-11%	2%	-36%	293.58	14.0%	37%
EAM	Atlassian	56.24	13,061	12,297	1,244	27%	27.9%	na	9.9x	na	30.8x	20.3x	4%	6%	62%	78.75	7.4%	34%
WLO	Tw ilio	42.55	4,074	3,783	632	23%	4.9%	28%	6.0x	4.7x	na	na	11%	63%	24%	86.86	14.1%	13%
WOU	2U	81.01	4,319	4,118	531	32%	5.3%	32%	7.8x	5.9x	na	49.7x	-4%	10%	76%	44.15	11.9%	1%
/ DA Y	Workday	125.62	27,024	25,247	3,302	23%	20.6%	21%	7.6x	6.3x	46.9x	41.2x	-1%	6%	42%	199.91	9.9%	32%
WIX	Wix.com	81.50	3,821	3,589	749	26%	21.3%	21%	4.8x	3.9x	23.0x	16.4x	2%	32%	0%	43.73	8.4%	3%
'EXT	Yext	13.09	1,259	1,140	297	32%	na	28%	3.8x	3.0x	na	na	3%	10%	-11%	11.56	8.7%	26%
ZEN	Zendesk	48.58	5,065	4,818	724	29%	8.2%	27%	6.7x	5.3x	67.3x	na	1%	25%	67%	69.55	3.9%	4%
ZS	Zscaler	29.13	3,418	3,552	271	33%	3.1%	25%	13.1x	10.5x	na	na	4%	0%	0%	49.17	3.8%	54%
elect	Faster Growth (20	19E Rev. 0	row th > 20	)%) Median	513	26%	11.0%	25%	6.8x	5.4x	44.4x	41.3x	3%	14%	63%	43.94	6.6%	12%

Data Source: S&P Capital IQ | EV = Enterprise value | EBITDA = Earnings before int., tax, depr., amort | FCF = Free cash flow





### Selected Slower Growth - SaaS Software Cloud Public Company Valuation Metrics

Ticker         Company Ham         SAI13         Market         Enterprise         2019E Street         EWITAL         2020E         EV/Sale         EV/Sale         EV/Sale         Company Ham         Short as         Initialer           Slower Growth (2019 Revenue Growth (2019 Revenue Growth a 20%, sextuding Mirro Caps)	(In \$ millio	on, except per share	e values)																
Price         Price         C cap         Value (EV)         Sales         Growth (Parget)         Vise (V20E)         Vise (V20E) <th>Tieken</th> <th></th> <th>5/1/18</th> <th>Market</th> <th>Enterpris e</th> <th>2019E</th> <th>Street</th> <th>EBITDA</th> <th>2020E</th> <th>EV /S</th> <th>ale s</th> <th>EV</th> <th>/FC F</th> <th>Price %</th> <th>Change</th> <th>From</th> <th>60D avg</th> <th>Short as</th> <th>Insider</th>	Tieken		5/1/18	Market	Enterpris e	2019E	Street	EBITDA	2020E	EV /S	ale s	EV	/FC F	Price %	Change	From	60D avg	Short as	Insider
Idvace Growth (2019)         Idvace Gr	licker	Company Name	Price	Сар	Value (EV)	Sales	Growth	margin	Growth	CY19E	CY20E	CY19E	CY20E	1M	3M	12M	\$V olum e	% of Float	Ow ners hip
ALRR         Alim         Alim <th< td=""><td>Slower</td><td>Growth (2019E Re</td><td>venue Gr</td><td>ow th &lt; 20%</td><td>6, excluding</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Slower	Growth (2019E Re	venue Gr	ow th < 20%	6, excluding														
AMBR Amber Road         9.46         258         271         94         9%         5.1%         na         2.5x         na         na         1.6%         5.8x         na         1.6%         7.5x         1.5x         2.1.5x         9%         1.5%	AAPL	A pple	\$169.10	\$858,016	903,263	\$267,957	2%	30.8%	0%	3.4x	3.4x	14.1x	13.7x	1%	1%	15%	5,533.66	1.1%	0%
APPN Appian         27.80         1.702         1.628         238         19%         6a         1.8%         5.8x         na         na         10%         -7%         0%         18%         6.3%         3.9%         10%         7.6%         7%         7%         7.6%         7%         7%         7%         7.6%	ALRM	A larm.Com	40.60	1,920	1,895	427	12%	22.8%	12%	4.4x	4.0x	31.2x	21.6x	8%	6%	24%	16.31	15.6%	3%
APRI         Appino         30.83         1,240         1,201         227         17%         6.2%         16%         4.2%         51.3         21.6%         9%         15%         13.7%         6.1%         14%           ASUR Asure Software         15.82         199         247         101         13%         24.0%         na         2.28x         na         29%         5%         50%         50%         50%         50%         50%         50%         50%         50%         50%         50%         50.4%         12%         1.6%         41%         44%         44%         41%         44%         44%         44%         44%         45%         12%         2.2xt         13.8%         12%         1.6%         1.4%         14%         44%         15%         14%         45%         14%         45%         15%         2.2xt         13.8%         15%         12%         15%         2.2xt         13.8%         14.8%         14%         15%         2.2xt         13.8%         14.8%         14%         15%         2.2xt         13.8%         12%         15%         14%         15%         14%         35%         3.4%         12%         12%         12%         12% <td>AMBR</td> <td>A mber Road</td> <td>9.46</td> <td>258</td> <td>271</td> <td>94</td> <td>9%</td> <td>5.1%</td> <td>na</td> <td>2.9x</td> <td>na</td> <td>75.9x</td> <td>na</td> <td>6%</td> <td>35%</td> <td>12%</td> <td>0.82</td> <td>1.6%</td> <td>9%</td>	AMBR	A mber Road	9.46	258	271	94	9%	5.1%	na	2.9x	na	75.9x	na	6%	35%	12%	0.82	1.6%	9%
A Sure Software         15.82         199         247         101         13%         24.0%         na         22.8         na         29%         5%         50%         30.4         28.1%         8%           ATHN         A finentialith         25.2         25.2         22.5         20.8         12%         13%         12%         12%         12%         12%         12%         13%         12% <t< td=""><td>A PPN</td><td>A ppian</td><td>27.80</td><td>1,702</td><td>1,628</td><td>238</td><td>19%</td><td>na</td><td>18%</td><td>6.8x</td><td>5.8x</td><td>na</td><td>na</td><td>10%</td><td>-7%</td><td>0%</td><td>9.34</td><td>8.5%</td><td>0%</td></t<>	A PPN	A ppian	27.80	1,702	1,628	238	19%	na	18%	6.8x	5.8x	na	na	10%	-7%	0%	9.34	8.5%	0%
ATHN         Athenaticallin         126.39         5,107         5,235         1,496         10%         28,4%         9%         3.5x         3.2x         3.2x         3.2x         1.2%         1.9%         2.9%         6.1,06         7.5%         1.9%           BINT         Benefitocus         30.55         970         1,030         284         1.2%         7.2%         1.2%         5.6x         3.2x         na         65.7x         2.2%         1.9%         4.2%         7.9%         1.9%         4.2%         7.9%         1.9%         4.2%         7.9%         1.9%         4.2%         1.9%         4.2%         1.9%         4.2%         1.9%         4.2%         1.9%         4.2%         1.9%         4.2%         1.9%         4.2%         1.9%         4.2%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         4.3%         1.9%         1.9%         1.9%         1.2%         1.3%         1.2%         1.3%         1.2%         1.1%         1.1%         1.4%         1.1%         1.1%         1.1%         1.1									16%		3.9x		21.6x						
BCOV         Bright Brick         9.80         343         317         182         9%         4.7%         na         1.1%         na         4.1%         1.4%         2.6%         1.1%         7.2%         1.2%         3.6%         3.2%         1.6%         2.2%         1.%         7.08         1.8.%         1.1%         4.2%         1.2%         3.6%         2.2%         1.6%         1.7%         1.8         1.2%         3.6%         2.2%         1.8.%         1.4%         1.9%         2.4%         7.2%         6.8%         2.22         2.18.8%         1.9%         2.4%         2.0%         3.3%         2.8%         3.3%         2.8%         3.3%         2.8%         1.4%         3.3%         2.4%         3.5%         4.3%         2.2%         1.8%         3.4%         3.4%         3.4%         2.2%         2.3%         2.3%         2.3%         2.3%         3.3%         3.4%         3.3%         2.2%         1.2%         1.8%         3.2%         1.4%         3.3%         3.4%         4.2%         2.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         1.2%         <											-								ç
BNT         Benefitiocus         30.55         970         1.030         284         12%         7.2%         1.6%         3.6%         3.2%         na         68.7%         25%         25%         12%         14%         42.0%         65%         7.2%         1.8.8%         11%         44.2%         2.17         1.756         525         11%         44.2%         65%         7.2%         1.8.8%         11%         44.2%         7.2%         1.3%         2.2%         6.9%         95%         2.2%         6.9%         95%         2.5%         1.3%         3.3%         2.8%         1.8.8%         11%         4.2%         2.2%         1.8.8%         2.3%         2.2%         11%         3.3%         2.1%         3.3%         2.1%         3.3%         2.1%         3.3%         2.1%         3.5%         3.4%         1.0%									8										
CHUB.K CommerceHub         22.67         989         970         135         11%         44.2%         18.8k         1%         19%         14%         5%           CLDR         Coudera         14.42         2.121         1.756         525         19%         n.a         20%         3.3k         2.28k         n.84.6k         4.3%         21%         7.27         6.8%         22.8k         n.84.6k         4.3%         21%         7.2%         6.8%         22.8k         n.84.6k         4.3%         25.7%         5.5%         5.8k         4.9k         2.5k         6.8%         9.2%         7.2%         6.8%         9.2%         7.2%         6.8%         9.2%         7.4k         2.5k         7.5%         5%         1.0%         7.2%         6.8%         4.9k         2.5k         1.3k         5%         4%         3%         0.99         6.5%         4.4k         2.1k         1.8k         1.0%										1		(							
CLDR         Cloudera         14.42         2.127         1.756         5.25         19%         r.a.         2.03%         3.3x         2.3x         n.a.         84.6x         -33%         -21%         42%         72%         42%         72%         42%         76%         9%         42%         76%         9%         71%         71%         55%         75%         71%         71%         71%         71%         72% <th72%< th=""> <th73%< th="">         72%</th73%<></th72%<>																			
CRM         salesfore.com         123.11         90.286         87.997         15.145         19%         24.3%         18%         5.8x         4.9x         26.2x         22.9x         6%         9%         42%         762.77         2.5%         5%         5%           CSLO         Gsco         44.83         2.596         1.577         557         557         557         557         557         557         557         557         10%         2.24%         2.0x         44.1x         20.3x         5%         4%         3%         4.4%         4%         4%         4%         4%         4%         4%         4.4x         2.0x         44.1x         20.3x         5%         4%         3%         4.4%         4%         4%         4%         4.1x         2.1x         na         1.5%         1.44         3.9%         1.9%         5.5x         4.1x         2.6x         1.15%         1.4%         1.9%         5.5x         4.1x         2.6x         1.19%         4.4%         1.4%         2.4%         1.15%         1.4%         5.8%         1.8%         1.2%         1.18%         1.4%         1.4%         1.4%         1.2%         1.4%         1.4%         1.4% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																			
CSCO         65.0         44.83         215.969         181.678         51.441         3%         34.4%         2%         2.8%         3.1%         5%         8%         32%         1.146.43         1.0%         0%           CSDC         concerstone         44.83         2.587         2.557         557         10%         22.9%         11%         4.6x         4.1x         26.1x         7%         28%         28%         24.13         7.1%         9%           DATA         Tableau         84.78         6.913         6.058         1.099         14%         8.0%         12%         5%         4.6x         28.1x         26.4x         5%         10%         0.45         4.1x         26.4x         5%         10%         0.45%         18%         5.8%         4.6x         28.1x         26.4x         5%         10%         0.43%         3.4%         13%         3.4%         0.4%         3.3%         10%         0.5%         4.6x         28.1x         26.4x         5%         10%         0.4%         3.4%         3.4%         26.4x         5%         10%         0.4%         3.4%         3.4%         3.4%         3.4%         3.4%         3.4%         3.4%         3.4																			
CSLT         CastignthHealth         3.85         523         435         181         18%         4.2%         20%         2.4x         2.0x         44.1x         20.3x         5%         4%         3%         0.99         6.9%         5%           CSDD         Cornerstone         44.83         2.587         5.57         10%         2.28%         11%         4.6x         4.1x         1.5%         10%         5.5x         4.6x         1.4x				/		8											8		
CSOD       Connerstone       44.83       2,587       2,557       10%       122,39       16%       4.6x       4.1x       26.1x       na       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       10%       15%       12%       28%       13%       10%       5.0x       4.7x       15%       14%       13%       12%       15%       12%       15%       12%       15%       42%       13%       10%       5.0x       4.7x       15%       16%       12.2%       15%       43%       13%       16%       12%       13%       16%       12.8x       43%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       13%       14%       14%       14%       14%       15%       14%									0										
CTXS         Citry         104.71         143.63         15.036         3.003         3%         32.1%         6%         5.0x         4.7x         15.9x         14.8x         13%         12%         28.0%         1992.23         4.5%         18%           DBX         DropBox         30.90         12,311         12,705         1,543         16%         21.2%         11.8x         -6%         18%         18%         13%         0.9%         0.9%         188.15         5.8%         34%         34%         34%         34%         34%         34%         34%         6%         3.2x         1.6%         1.3.8x         -6%         18%         1.4%         38.9%         6%         3.2%         3.5x         1.6%         1.3.8x         -6%         1.8%         1.4%         5%         1.4%         5%         1.4%										1 .									
DATA         Tableau         84.78         6,913         6,058         1,099         14%         8.0%         19%         5.5x         4.6x         26.1x         26.4x         5%         10%         57%         6.22.6         4.5%         18%           DBX         DropBox         30.90         12.311         12.705         1.543         16%         9%         3.2x         12.8         7.3x         -1%         0%         0%         188.15         5.8%         3.4%         16.0x         13.8x         -6%         18%         1.4%         5%         6%         14%         6.9%         5%         1.4%         1.4%         1.4%         5%         5%         1.4%         1.4%         5%         1.4%         5%         1.4%         5%         1.4%         5%         1.4%         5%         1.4%         5%         1.4%         5%         1.4%         1.4%         5%         1.4%         5%         1.4																			
DBX         DropBox         30.90         12,311         12,705         1.543         16%         21,2%         17%         31,2%         27,3%         1.1%         0.% <th0.%< th=""> <th0.%< th=""> <th0.%< th=""></th0.%<></th0.%<></th0.%<>																			5
EBAY         eBay         37.83         37.602         42.052         11.902         8%         3.2%         9%         3.5x         3.2x         16.0x         13.8x         -6%         18%         14%         38.4         0         3.9%         6%           EGAN         eGan         8.90         243         233         69         8%         na         na <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										<u> </u>									
ECOM         Channel Advisor         13.45         364         312         140         8%         7.1%         6%         2.2x         2.1x         29.4x         19.5x         48%         64%         1.4%         0.95         1.4%         5%           EGAN         66 ain         8.90         243         239         69         8%         na         na         na         na         na         12%         65%         47%         1.4%         38%           ELLI         Ellie Mae         97.99         3.362         3.130         588         18%         28.6%         16%         5.3x         4.6x         32.2x         26.5x         7%         6%         6.4%         1.4%         1.9%         1.4%         30.x         2.6x         21.5x         18.8x         -2%         4%         6.5%         4.7%         1.6%         1.6%         5.3x         4.6x         27%         4%         6.5%         4.7%         1%         1%         0.0x         2.6x         1.5%         1.4%         2.0%         2.5%         0%         2.5%         0%         2.5%         0%         2.5%         0%         2.6x         1.0x         1.0x         1.0x         1.0x         1.0x																			
EGAN         eGain         8.90         243         239         69         8%         na																			
ELL         Elle         Mae         97.99         3.362         3.130         588         18%         2.8.6%         16%         5.2x         2.6x         2.72         2.6%         55.13         15.0%         2.%           ENV         Envestnet         55.95         2.533         2.720         912         11%         19.9%         14%         3.0x         2.6x         21.5x         18.8x         -2%         4%         58%         12.98         2.5%         4%           FNGK         Financial Engines         44.50         2.824         2.590         558         3%         3.4%         5%         4.7x         4.5x         15.8x         14.8x         27%         55%         3%         2.5%         4.7%         1%           GOOGL Alphabet         1040.75         721,651         624,068         158,451         17%         37.7%         18%         3.83x         18.7x         14.9x         0%         12%         2.48.82         0.4%         12%         2.84.82         0.4%         12%         12%         2.48.82         0.4%         12%         12%         2.48.28         0.4%         12%         1.2%         2.4%         1.8%         12%         1.2%         2.4%									•										
ENV         Envestnet         55.95         2.539         2.720         912         11%         19.9%         14%         3.0x         2.6x         21.5x         18.8x         -2%         4%         55%         12.98         2.5%         4%           FNGN         Financial Engines         44.50         2,824         2,590         558         9%         3.4%         5%         4.7x         4.5x         15.8x         14.8x         27%         55%         3%         0.1%																			
FNGN         Financial Engines         44.50         2.824         2.599         558         9%         3.3.4%         5%         4.7x         4.5x         14.8x         27%         55%         3%         2.8.0         4.7%         1%           GDDY         GoDaddy         64.03         9,397         11,515         2,905         12%         27.1%         11%         4.0x         3.6x         16.1x         14.2x         4%         14%         61%         89.06         3.0%         0%           GOGEL Alphabet         1040.75         721,651         624,068         158,451         17%         37.7%         18%         3.8x         18.7x         14.9x         0%         -12%         12%         2,486.82         0.4%         12%         0%         2.1x         2.1x         1.5x         1.4%         60.89         5.2%         0%         0%         12%         1.0%         1.0%         1.0%         1.0%         1.0%         1.1x         3.6x         na         na         8.3         1.3%         1.1x         4.4x         3.8x         na         1.0%         1.1%         1.0%         1.0%         1.1x         3.8x         na         1.0%         1.1x         1.0%         1.1x </td <td></td>																			
GDDY         GoDady         64.03         9.397         11,515         2,905         12%         27.1%         11%         4.0x         3.6x         16.1x         14.2x         4%         14%         61%         99.06         3.0%         0%           GOOGL Alphabet         1040.75         721,651         624,068         158,451         17%         37.7%         18%         3.9x         3.8x         18.7x         14.9x         0%         -12%         21%         22%         20%         12%         22%         12%         21.8x         18.7x         14.9x         0%         -12%         24.86.2         0.4%         12%         0%         -12%         24.86.2         0.4%         12.8x         13.5x         12.2x         -5%         -11%         60.89         5.2%         0%           INTU         Intuit         187.24         47.954         48.31         6.645         11%         37.0%         9%         7.3x         6.6x         22.4x         na         8%         13%         49%         5.2%         13%         49%         237.75         1.2%         4%         6.7%         2%         14%         10.0%         10.0%         10%         10.0%         10%         10.3% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>)</td> <td></td>							)												
GOOGL Alphabet         1040.75         721,651         624,068         158,451         17%         37.7%         18%         3.9x         3.3x         18.7x         14.9x         0%         -12%         12%         2,486.82         0.4%         12%           GWRE Guidewire         85.63         6,843         6,338         809         17%         21.1%         na         7.8x         na         38.3x         na         6%         9%         41%         6.0.89         5.2%         0%           IBM         BM         145.00         133.105         166.852         80.837         0%         24.2%         0%         2.1x         2.1x         1.1x         13.5x         1.2%         4%         6.682         1.6%         0%           INTU         Intuit         187.24         47,954         48,331         6,645         11%         37.0%         9%         7.3x         6.6x         22.4x         na         8%         13%         49%         273.75         1.2%         4%           LOS I         LivePerson         16.75         1,016         960         265         11%         1.0%         13%         4.0%         13%         4.0%         13%         4.0%         1										3				1					
GWRE         Guidewire         85.63         6,843         6,338         809         17%         21.1%         na         7.8x         na         38.3x         na         6%         9%         41%         60.89         5.2%         0%           IBM         BM         145.00         133,105         166,852         80,837         0%         24.2%         0%         2.1x         2.1x         13.5x         12.2x         -5%         -11%         -9%         749.62         1.6%         0%           LOGM         LogMeIn         110.60         5,775         5,409         1,318         8%         37.8%         7%         4.1x         3.8x         13.0x         11.5x         -4%         54.24         6.7%         2%           LPSN         LivePerson         16.75         1,016         960         265         11%         11.0%         na         3.6x         na         na         2%         40%         125%         6.83         2.4%         8%           MODN         ModelN         17.25         509         518         158         4%         8.8%         na         3.4x         na         2.4%         1.4%         1.6%         1.6%         1.6%					, · · ·									<u> </u>					
IBM         BM         145.00         133,105         166,852         80,837         0%         24.2%         0%         2.1x         2.1x         13.5x         12.2x         -5%         -11%         -9%         749,62         1.6%         0%           INTU         Intuit         187.24         47,954         48,331         6,645         11%         37.0%         9%         7.3x         6.6x         22.4x         na         8%         13%         49%         273.75         1.2%         4%           LOGM         10.60         5,775         5,409         1.318         8%         37.8%         7%         4.1x         3.8x         13.0x         11.5x         -4%         1.3%         4%         57.24         6.6x         2.4%         8%           LPSN         LivePerson         16.75         1,016         960         265         11%         11.0%         na         3.6x         na         na         na         -4%         15%         6.83         2.4%         8%           MODN         Model N         17.25         509         518         158         4%         47.2%         1%         4.3x         4.2x         11.2x         11.7x         0%									•										
INTU         Intuit         187.24         47,954         48,331         6,645         11%         37.0%         9%         7.3x         6.6x         22.4x         na         8%         13%         49%         273.75         1.2%         4%           LOGM         LogMein         110.60         5,775         5,409         1,318         8%         37.8%         7%         4.1x         3.8x         13.0x         11.5x         -4%         -13%         -4%         54.24         6.7%         2%           LPSN         LivePerson         16.75         1,016         960         265         11%         11.0%         na         3.6x         na         na         na         2%         40%         125%         6.83         2.4%         8%           MODN         ModelN         17.25         509         518         158         4%         8.8%         na         3.3x         na         -4%         15%         6.0%         3.47         1.6%         1.6%         11%         6.6%         12%         4.4x         1.12x         11.7x         10%         -11%         3.6%         13.4x         3.14x         3.14x         3.14x         3.14x         3.14x         3.14x														<u> </u>					
LOGM         LogMeIn         110.60         5,775         5,409         1,318         8%         37.8%         7%         4.1x         3.8x         13.0x         11.5x         -4%         -13%         -4%         54.24         6.7%         2%           LPSN         LivePerson         16.75         1,016         960         265         11%         11.0%         na         3.6x         na         na         na         na         2%         40%         125%         6.83         2.4%         8%           MODN         Motion         17.25         509         518         158         4%         8.8%         na         3.3x         na         23.8x         na         -4%         15%         60%         3.47         1.6%         16%         16%         16%         16%         16%         16%         11%         16.6%         22%         4.4x         3.6x         31.4x         30.1x         3%         21%         36%         25.45         2.4%         52.45         2.4%         52%         17.8x         17.2x         11.7x         0%         11.3%         11.7x         11%         36.52         2.4%         52%         26%         12.4x         3.6x         31.4																			
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MODN         Model N         17.25         509         518         158         4%         8.8%         na         3.3x         na         23.8x         na         -4%         15%         60%         3.47         1.6%         16%           MSFT         Microsoft         95.00         729,904         686,252         125,383         9%         42.9%         9%         5.5x         5.0x         16.7x         16.8x         4%         1%         37%         3,195.92         0.6%         1%           ORCL         Oracle         45.95         187,582         178,409         41,965         4%         47.2%         1%         4.3x         4.2x         11.2x         11.7x         0%         -11%         2%         783.94         1.0%         28%           PEGA         Pegasystems         62.50         4,912         4,689         1,060         11%         16.6%         22%         4.4x         36x         31.4x         30.1x         3%         21%         36%         25.45         2.4%         52%           PY PL         PayPal Holdings         74.81         88,828         79,317         17,797         16%         2.5%         23%         1.4x         1.2x         n									<u></u>										
MSFT         Microsoft         95.00         729,904         686,252         125,383         9%         42.9%         9%         5.5x         5.0x         16.7x         16.8x         4%         1%         37%         3,195.92         0.6%         1%           ORCL         Oracle         45.95         187,582         178,409         41,965         4%         47.2%         1%         4.3x         4.2x         11.2x         11.7x         0%         -11%         2%         783.94         1.0%         28%           PEGA         Pegasystems         62.50         4,912         4,689         1,060         11%         16.6%         22%         4.4x         3.6x         31.4x         30.1x         3%         21%         36%         25.45         2.4%         5%           PY PL         PayPal Holdings         74.81         88,828         79,317         17,797         16%         27.1%         17%         4.5x         3.8x         20.0x         17.2x         -1%         5%         5%         4%         4%         4%         5%         5%         1.4x         1.2x         na         na         4%         6%         24.%         1.98         1.5%         4%									8										
ORCL         Oracle         45.95         187,582         178,409         41,965         4%         47.2%         1%         4.3x         4.2x         11.2x         11.7x         0%         -11%         2%         783.94         1.0%         28%           PEGA         Pegasystems         62.50         4,912         4,689         1,060         11%         16.6%         22%         4.4x         3.6x         31.4x         30.1x         3%         21%         36%         25.45         2.4%         52%           PY PL         PayPal Holdings         74.81         88,828         79,317         17,797         16%         27.1%         17%         4.5x         3.8x         20.0x         17.2x         -1%         -5%         57%         612.09         1.1%         5%           RST         Rosetta Stone         13.68         318         277         195         12%         2.5%         23%         1.4x         1.2x         na         na         4%         6%         24.4%         1.98         1.5%         4%           SAP         SAP         110.37         131,714         131,291         31,352         8%         34.3%         8%         4.2x         3.9x         2														4					
PEGA         Pegasystems         62.50         4,912         4,689         1,060         11%         16.6%         22%         4.4x         3.6x         31.4x         30.1x         3%         21%         36%         25.45         2.4%         52%           PY PL         PayPal Holdings         74.81         88,828         79,317         17,797         16%         27.1%         17%         4.5x         3.8x         20.0x         17.2x         -1%         -5%         57%         612.09         1.1%         5%           RST         Rosetta Stone         13.68         318         277         195         12%         2.5%         23%         1.4x         1.2x         na         na         4%         6%         24%         1.98         1.5%         4%           RP         RealPage         54.05         4,562         5,141         939         11%         27.8%         10%         5.5x         5.0x         26.9x         23.2x         5%         9%         4.2%         4%           SAP         110.37         131,714         131,291         31,352         8%         34.3%         8%         4.2x         3.9x         26.9x         25.7x         10%         0.7%																			
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RST         Rosetta Stone         13.68         318         277         195         12%         2.5%         23%         1.4x         1.2x         na         na         4%         6%         24%         1.98         1.5%         4%           RP         RealPage         54.05         4,562         5,141         939         11%         27.8%         10%         5.5x         5.0x         26.9x         23.2x         5%         9%         45%         22.33         4.2%         4%           SAP         10.37         131,714         131,291         31,352         8%         34.3%         8%         4.2x         3.9x         26.9x         23.2x         5%         9%         45%         22.33         4.2%         4%           SPSC         SPSC ommerce         70.68         1,209         1,044         267         10%         19.8%         9%         3.9x         3.6x         29.2x         29.7x         10%         35%         25%         10.19         1.40         1.3%         4%           SREV         ServiceSource         3.75         339         295         259         6%         10.5%         na         1.1x <na< td="">         33.9x<na< td="">         -2%         10%</na<></na<>							,												
RP         RealPage         54.05         4,562         5,141         939         11%         27.8%         10%         5.5x         5.0x         26.9x         23.2x         5%         9%         45%         22.33         4.2%         4%           SAP         SAP         110.37         131,714         131,291         31,352         8%         34.3%         8%         4.2x         3.9x         24.8x         20.5x         5%         1%         0.0%         1%           SPSC         SPSC commerce         70.68         1,209         1,044         267         10%         19.8%         9%         3.9x         3.6x         29.2x         29.7x         10%         0.5%         10.19         2.2%         1%           SREV         ServiceSource         3.75         339         295         259         6%         10.5%         na         1.1x         na         3.3yx         na         -2%         10%         4%           STMP         Stamps.com         229.35         4,103         4,035         640         17%         48.2%         na         6.3x         na         17.3x         na         14%         11%         11%         11%         11%         11% <td></td>																			
SAP         SAP         110.37         131,714         131,291         31,352         8%         34.3%         8%         4.2x         3.9x         24.8x         20.5x         5%         -1%         10%         0.70         0.0%         1%           SPSC         SPS Commerce         70.68         1,209         1,044         267         10%         19.8%         9%         3.9x         3.6x         29.2x         29.7x         10%         35%         25%         10.19         2.2%         1%           SREV         ServiceSource         3.75         339         295         259         6%         10.5%         na         1.1x         na         33.9x         na         -2%         10%         0%         1.40         1.3%         4%           STMP Stamps.com         229.35         4,103         4,035         640         17%         48.2%         na         6.3x         na         17.3x         na         14%         11%         11.4%         13%         67.89         12.0%         5%           TWTR         Twitter         30.30         22,721         20,001         3,265         12%         39.8%         9%         6.1x         5.6x         25.5x										<u>`</u>									
SPSC         SPS commerce         70.68         1,209         1,044         267         10%         19.8%         9%         3.9x         3.6x         29.2x         29.7x         10%         35%         25%         10.19         2.2%         1%           SREV         ServiceSource         3.75         339         295         259         6%         10.5%         na         1.1x         na         33.9x         na         -2%         10%         0%         1.40         1.3%         4%           STMP         Stamps.com         229.35         4,103         4,035         640         17%         48.2%         na         6.3x         na         1.1%         na         14%         11%         11.1%         67.89         12.0%         5%           WTR         Twitter         30.30         22,721         20,001         3,265         12%         39.8%         9%         6.1x         5.6x         25.5x         24.2x         4%         12%         73%         967.99         4.3%         10%           ULTI         Ultimate Softw are         242.76         7,594         7,439         1,31         17%         25.5%         18%         5.7x         4.9x         39.4x <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td>									8										
SREV         ServiceSource         3.75         339         295         259         6%         10.5%         na         1.1x         na         33.9x         na         -2%         10%         0%         1.40         1.3%         4%           STMP         Stamps.com         229.35         4,103         4,035         640         17%         48.2%         na         6.3x         na         17.3x         na         14%         11%         11%         67.89         12.0%         5%           TWTR         Twitter         30.30         22,721         20,001         3,265         12%         39.8%         9%         6.1x         5.6x         25.5x         24.2x         4%         12%         73%         967.99         4.3%         10%           ULTI         Ultimate Software         242.76         7,594         7,439         1,301         17%         25.5%         18%         5.7x         4.9x         39.4x         34.9x         0%         8%         58.75         7.4%         4%           UPLD         Upland Software         27.50         592         683         142         6%         36.4%         na         4.8x         a         20.4x         -3%																			
STMP Stamps.com         229.35         4,103         4,035         640         17%         48.2%         na         6.3x         na         14%         11%         11%         67.89         12.0%         5%           TWTR Twitter         30.30         22,721         20,001         3,265         12%         39.8%         9%         6.1x         5.6x         25.5x         24.2x         4%         12%         73%         967.99         4.3%         10%           ULTI         Ultimate Software         242.76         7,594         7,439         1,301         17%         25.5%         18%         5.7x         4.9x         39.4x         34.9x         0%         8%         18%         58.75         7.4%         4%           UPLD         Upland Software         27.50         592         683         142         6%         6.4%         na         4.8x         na         20.1x         na         -4%         19%         38%         7.92         0.9%         15%           VEEV         Veeva Systems         70.93         10,100         9,338         964         18%         32.9%         17%         9.7x         8.3x         31.1x         25.4x         -3%         16%																			
TWTR         Twitter         30.30         22,721         20,001         3,265         12%         39.8%         9%         6.1x         5.6x         25.5x         24.2x         4%         12%         73%         967.99         4.3%         10%           ULTI         Ultimate Software         242.76         7,594         7,439         1,301         17%         25.5%         18%         5.7x         4.9x         39.4x         34.9x         0%         8%         18%         58.75         7.4%         4%           UPLD         Upland Software         27.50         592         683         142         6%         36.4%         na         4.8x         na         20.1x         na         -4%         19%         38%         7.92         0.9%         15%           VEEV         Veeva Systems         70.93         10,100         9,338         964         18%         32.9%         17%         9.7x         8.3x         31.1x         25.4x         -3%         16%         31%         80.91         3.1%         15%									8										
ULTI         Ultimate Software         242.76         7,594         7,439         1,301         17%         25.5%         18%         5.7x         4.9x         39.4x         34.9x         0%         8%         18%         58.75         7.4%         4%           UPLD         Upland Software         27.50         592         683         142         6%         36.4%         na         4.8x         na         20.1x         na         -4%         19%         38%         7.92         0.9%         15%           V EEV         Veeva Systems         70.93         10,100         9,338         964         18%         32.9%         17%         9.7x         8.3x         31.1x         25.4x         -3%         16%         31%         80.91         3.1%         15%																			
UPLD         Upland         Software         27.50         592         683         142         6%         36.4%         na         4.8x         na         20.1x         na         -4%         19%         38%         7.92         0.9%         15%           V EEV         Veeva         Systems         70.93         10,100         9,338         964         18%         32.9%         17%         9.7x         8.3x         31.1x         25.4x         -3%         16%         31%         80.91         3.1%         15%																			
VEEV Veeva Systems 70.93 10,100 9,338 964 18% 32.9% 17% 9.7x 8.3x 31.1x 25.4x -3% 16% 31% 80.91 3.1% 15%							2		<u> </u>					1					
	-	Varonis Systems	67.30	1,904	1,750	316	18%	5.0%	19%	5.5x	4.7x	62.4x	43.3x	11%	22%	110%	18.86	1.6%	2%
WAGE WageWorks 41.95 1,663 1,015 565 8% 32.8% na 1.8x na na na na -7% -31% -44% 22.81 6.9% 1%											-	<u>,</u>							
WEB Web.com Group 18.75 813 1.448 787 3% 26.2% 3% 1.8x 1.8x 9.5x 10.2x 4% -20% -5% 8.04 5.6% 5%										4	-								
WK Workiva 22.35 955 897 267 13% na 13% 3.4x 3.0x 89.6x na -6% 0% 31% 4.22 6.3% 45%												<u>,                                     </u>							
	-					714	11%	25.8%	11%	4.1x	3.9x	25.5x	20.4x	4%	9%	29%	24.79	3.1%	5%

Data Source: S&P Capital IQ | EV = Enterprise value | EBITDA = Earnings before int., tax, depr., amort | FCF = Free cash flow N AVI D A R Navidar LLC, 400 West 15<sup>th</sup> Street, Suite 325, Austin, TX



### Selected Micro-Caps - SaaS Software Cloud Public Company Valuation Metrics

(In \$ million, except per share values)

		5/1/18	Market	Enterpris e		Street	EBITDA			ales		/FC F	Price %	Change	From	60D avg	Short as	Insider
Ticker	Company Name	Price	Сар	Value (EV)	Sales	Growth	margin	Growth	CY19E	CY20E	CY19E	CY20E	1M	3M	12M	\$V o lum e	% of Float	Ow ners hip
Micro C	aps and Those wi	ith No 201																
ACTA	Actua	\$0.75	\$23	\$5	na	na	na	na	na	na	na	na	-3%	-95%	-95%	0.00	0.0%	4%
AKDS	Arkados Group	0.32	9	15	na	na	na	na	na	na	na	na	-42%	-49%	-75%	0.01	0.0%	12%
CCUR	Concurrent	5.16	51	(15)	na	na	na	na	na	na	na	na	8%	-10%	4%	0.42	1.1%	36%
	COPSync	0.04	0	1	na	na	na	na	na	na	na	na	-3%	13%	-68%	0.00	0.1%	0%
	Costar	7.89	11	18	na	na	na	na	na	na	na	na	-6%	-15%	-22%	0.01	0.0%	0%
	Crexendo	2.50	36	35	na	na	na	na	na	na	na	na	-11%	-22%	71%	0.01	1.1%	74%
	Evolving Systems	3.75	47	48	na	na	na	na	na	na	na	na	-22%	-32%	-24%	0.05	0.0%	31%
	FinJan	2.94	82	59	68	-10%	na	na	0.9x	na	na	na	-10%	52%	54%	1.83	3.2%	3%
	G lobalSCA PE	3.82	82	69	na	na	na	na	na	na	na	na	4%	8%	-5%	0.10	0.1%	21%
	GSV Capital	6.77	143	151	1	0%	na	na	na	na	na	na	-10%	-1%	48%	3.05	0.0%	1%
	lnuvo	0.95	27	28	114	20%	2.8%	na	0.2x	na	na	na	4%	14%	-22%	0.06	1.1%	17%
	iPass	0.29	21	16	70	24%	8.8%	na	0.2x	na	na	na	-23%	-44%	-77%	0.16	1.1%	4%
LV T	LiveTiles	0.31	145	140	22	81%	na	na	6.2x	na	na	na	-3%	-29%	67%	0.14	0.0%	53%
	Mobivity	0.99	37	39	na	na	na	na	na	na	na	na	-9%	-5%	41%	0.02	0.0%	19%
	Junein Software	7.75	45	20	na	na	na	na	na	na	na	na	17%	-17%	-38%	0.15	2.4%	28%
PGQW.F	1-Page	0.08	12	(7)	na	na	na	na	na	na	na	na	0%	0%	-35%	0.00	0.0%	12%
	Payment Data Sys	1.63	26	21	28	7%	na	na	0.7x	na	na	na	-10%	-12%	4%	0.30	4.8%	48%
	Scientific	0.69	16	na	na	na	na	na	na	na	na	na	13%	-16%	15%	0.01	0.0%	0%
	SharpSpring	6.59	56	50	22	27%	na	na	2.3x	na	na	na	3%	38%	53%	0.22	2.9%	22%
	Smith Micro	2.17	40	41	na	na	na	na	na	na	na	na	24%	-10%	103%	0.55	8.9%	12%
	Synchronoss	10.73	510	634	413	-1%	15.0%	na	1.5x	na	7.4x	na	2%	33%	-28%	6.19	13.1%	10%
SPRT	Support.com	2.71	51	2	na	na	na	na	na	na	na	na	-2%	-2%	27%	0.07	0.3%	8%
SVVC	First Technology	11.10	81	81	na	na	na	na	na	na	na	na	-2%	8%	31%	0.38	0.0%	4%
WSTL	Westell	3.05	48	22	na	na	na	na	na	na	na	na	-9%	-7%	16%	0.19	0.2%	32%
SelectN	/licro Caps and Th	ose with	No Rev. Es	stimates Med	48	na	na	na	na	na	na	na	-3%	-8%	4%	0.12	0.2%	12%

Data Source: S&P Capital IQ | EV = Enterprise value | EBITDA = Earnings before int., tax, depr., amort | FCF = Free cash flow





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