

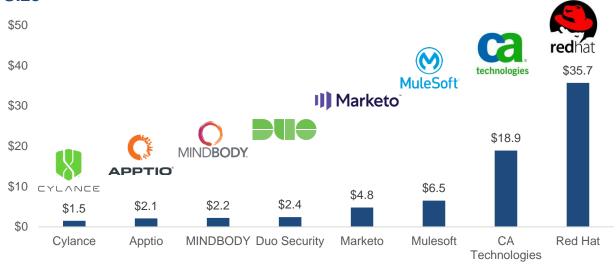
Fourth Quarter 2018

# The Lighthouse

Software
Online & Digital
Tech Enabled Business Services

## **Pharus Observations**

# **Application Software Transactions Lead the Pack in Deal Volume and Size**



During the 4<sup>th</sup> quarter of 2018, application software deals were the most prevalent, accounting for 49.2% of 63 total transactions tracked by Pharus in the Software and Services space. These deals also yielded the biggest price tags, indicating the continued appetite for software companies from both financial and strategic acquirers.

In December, **MINDBODY** (NasdaqGM:MB), a cloud-based business management software and payments company, was acquired by Vista Equity Partners for \$2.2 billion at 7.4x revenue. Shareholders received \$36.50 in cash per share, representing a 68% premium to share price at the announcement.

In November, the former mobile phone maker Blackberry (TSX:BB) acquired **Cylance Inc.**, which develops an antivirus and endpoint protection solutions using artificial intelligence for \$1.5 billion. The transaction is representative of Blackberry's pivot from telecom hardware towards cybersecurity.

Earlier in November, **Apptio (NasdaqGM:APTI)**, a cloud-based technology business management applications and software provider was acquired by Vista Equity Partners for \$2.1 billion, a 7.1x EV/Revenue multiple.

The most significant of these deals took place in October, when IBM (NYSE:IBM) acquired open source software solutions provider **Red Hat (NYSE:RHT)** for a staggering \$35.7 billion, representing a 10.8x multiple of revenue and the largest software deal of the year.

The Red Hat acquisition is just the latest in a string of major software acquisitions by tech giants throughout 2018 including Adobe's acquisition of **Marketo** for \$4.8 billion, Cisco's acquisition of **Duo Security** for \$2.4 billion, Broadcom's acquisition of **CA Technologies** for \$18.9 billion and Salesforce's acquisition of **Mulesoft** for \$6.5 billion.



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If you would like to be included on (or removed from) the distribution list for *The Lighthouse*, please contact Peter Chae at pchae@pharus.com.

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Capital market trends



# Capital market trends

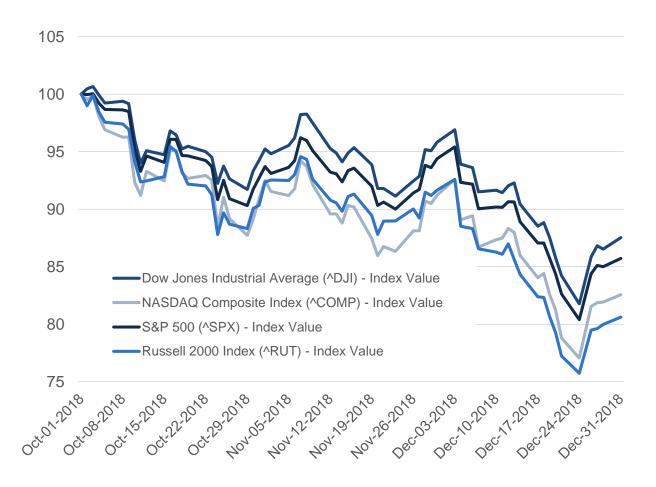






#### **Relative Performance of Major Indices**

Through December 31, 2018 (Base = 100, 1/1/2019)



Index	As of 31-Dec-18	1 Year	3 Months	1 Month
Dow Jones	23,327.46	-6.03%	-13.1%	-8.66%
Nasdaq	6,635.28	-5.03%	-17.3%	-9.48%
S&P 500	2,506.85	-7.01%	-14.3%	-9.18%
Russell 2000	1,348.56	-13.0%	-19.3%	-12.1%



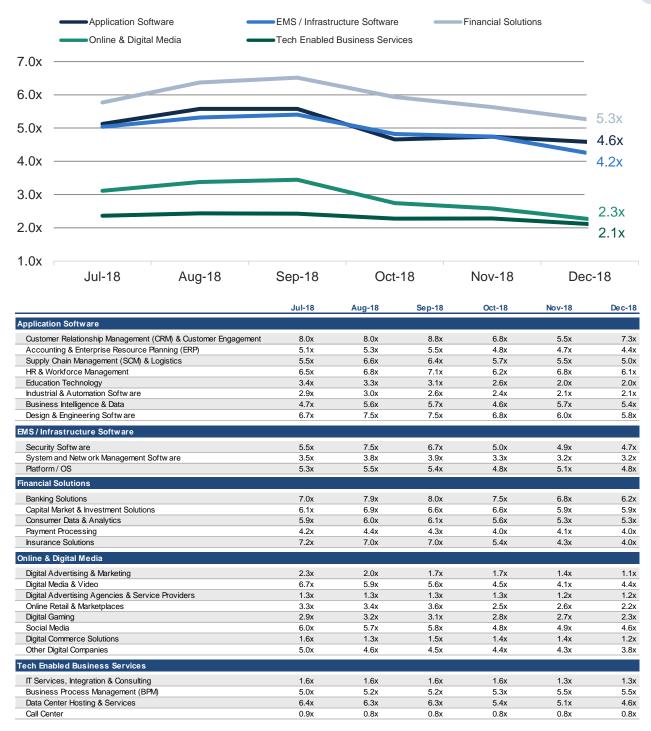








#### **Historical Median TEV / Revenue Multiples**







## **Current & Forward Market Multiples**

	Median TEV/Rev	enue	Median TEV/EB	ITDA
	LTM	NTM	LTM	NT
Application Software				
Customer Relationship Management (CRM) & Customer Engagement	7.3x	5.9x	38.7x	31.1
Accounting & Enterprise Resource Planning (ERP)	5.0x	4.2x	25.4x	17.5
Supply Chain Management (SCM) & Logistics	5.0x	4.8x	24.6x	20.8
HR & Workforce Management	6.5x	5.8x	47.3x	25.
Education Technology	2.0x	1.9x	21.0x	13.
Industrial & Automation Software	1.9x	1.8x	11.6x	11.
Business Intelligence & Data	5.8x	4.9x	29.6x	20.
Design & Engineering Software	5.8x	4.5x	24.0x	17.
EMS / Infrastructure Software				
Security Software	5.9x	5.0x	16.7x	21.
System and Network Management Software	3.8x	3.1x	14.6x	14.
Platform / OS	4.8x	4.6x	15.4x	12.
Financial Solutions				
Banking Solutions	6.0x	5.8x	20.8x	14.
Capital Market & Investment Solutions	5.9x	5.4x	18.8x	15
Consumer Data & Analytics	5.3x	5.0x	17.4x	14
Payment Processing	4.0x	3.8x	11.1x	10
Insurance Solutions	4.0x		14.0x	14
Online & Digital Media				
Digital Advertising & Marketing	1.6x	1.4x	9.5x	11
Digital Media & Video	4.4x	3.1x	18.3x	20
Digital Advertising Agencies & Service Providers	1.2x	1.1x	8.5x	7
Online Retail & Marketplaces	2.3x	1.8x	19.4x	12
Digital Gaming	2.3x	2.1x	12.2x	8
Social Media	4.6x	3.7x	22.6x	11
Digital Commerce Solutions	1.2x	1.3x	8.1x	8
Other Digital Companies	4.0x	3.0x	16.6x	14
Fech Enabled Business Services				
IT Services, Integration & Consulting	1.2x	1.2x	10.4x	9.
Business Process Management (BPM)	5.5x	4.3x	14.9x	10.
Data Center Hosting & Services	5.6x	4.8x	17.2x	15
Call Center	0.8x	0.8x	7.5x	6

	Medians			
Application Software	4.7x	4.2x	19.3x	17.7x
EMS / Infrastructure Software	4.8x	4.6x	15.4x	15.6x
Financial Solutions	5.2x	4.9x	17.0x	13.9x
Online & Digital Media	2.5x	2.2x	13.9x	11.0x
Tech Enabled Business Services	2.1x	1.9x	12.0x	10.0x



# IV

## **Application Software**

				TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Customer Relationship Manag	gement (CRM) & Customer Enga	gement					
Five9	NasdaqGM:FIVN	\$2,497	\$2,570	10.4x	8.9x	NM	52.9x
LivePerson	NasdaqGS:LPSN	\$1,130	\$1,196	4.7x	4.1x	NM	NA
MINDBODY	NasdaqGM:MB	\$1,670	\$1,745	7.3x	5.9x	NM	NM
NICE Systems	TASE:NICE	\$6,661	\$6,656	4.8x	4.3x	19.4x	14.5x
Pegasystems	NasdaqGS:PEGA	\$3,558	\$3,764	4.2x	3.8x	NM	53.1x
Salesforce.com	NYSE:CRM	\$105,723	\$104,782	8.5x	6.9x	89.9x	28.0x
SDL	LSE:SDL	\$523	\$552	1.4x	1.2x	14.2x	11.4x
Veeva	NYSE:VEEV	\$11,926	\$12,978	14.7x	12.2x	58.1x	34.2x
Zendesk	NYSE:ZEN	\$6,249	\$6,248	11.4x	8.6x	NM	NM
Median				7.3x	5.9x	38.7x	31.1x
Accounting & Enterprise Resc	ource Planning (ERP)						
Avalara, Inc.	NYSE:AVLR	\$1,933	\$2,072	7.7x	6.3x	NM	NM
BasWare	HLSE:BAS1V	\$665	\$653	4.0x	4.0x	NM	NM
Blackline	NasdaqGS:BL	\$2,113	\$2,238	9.7x	8.0x	NM	NM
Coupa Software	NasdaqGS:COUP	\$3,502	\$3,737	14.6x	11.8x	NM	NM
Intuit	NasdaqGS:INTU	\$50,183	\$51,090	8.3x	7.4x	28.7x	20.6x
Kingdee International	SEHK:268	\$2,597	\$2,915	6.8x	5.7x	51.1x	20.9x
Model N	NYSE:MODN	\$413	\$416	2.7x	2.9x	NM	37.0x
Oracle	NYSE:ORCL	\$171,425	\$162,040	4.3x	4.3x	10.8x	9.3x
QAD	NasdaqGS:QADA	\$615	\$740	1.9x	1.8x	75.1x	28.4x
Sage	LSE:SGE	\$8,879	\$8,052	3.8x	3.7x	14.2x	14.3x
SAP	DB:SAP	\$122,564	\$119,155	4.4x	4.2x	17.2x	12.4x
Upland Software	NasdaqGM:UPLD	\$729	\$587	5.5x	3.9x	25.4x	10.8x
Median				5.0x	4.2x	25.4x	17.5x
Supply Chain Management (S	SCM) & Logistics						
Amber Road	NYSE:AMBR	\$240	\$229	2.9x	2.7x	NM	43.2x
Descartes Systems Group	TSX:DSG	\$2,047	\$2,030	7.9x	6.9x	24.6x	19.8x
Manhattan Associates	NasdaqGS:MANH	\$2,676	\$2,770	4.8x	4.8x	17.6x	20.3x
SPS Commerce	NasdaqGS:SPSC	\$1,266	\$1,455	5.2x	4.7x	42.6x	21.3x
Median				5.0x	4.8x	24.6x	20.8x





### **Application Software (continued)**

			Market Cap	TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV		LTM	NTM	LTM	NTM
HR & Workforce Management							
Atlassian Corporation	NasdaqGS:TEAM	\$20,223	\$21,190	21.4x	16.2x	NM	60.0x
Benefit Focus	NasdaqGM:BNFT	\$1,540	\$1,461	5.7x	5.4x	NM	76.3x
CastLight Health	NYSE:CSLT	\$240	\$303	1.6x	1.5x	NM	57.8x
Ceridian HCM	NYSE:CDAY	\$5,245	\$4,761	6.5x	6.6x	47.3x	31.2x
Cornerstone OnDemand	NasdaqGS:CSOD	\$2,853	\$2,956	5.4x	5.2x	NM	23.4x
Dice Holdings	NYSE:DHX	\$92	\$80	0.5x	0.6x	3.9x	2.9x
Paycom	NYSE:PAYC	\$7,127	\$7,177	13.4x	10.8x	52.8x	26.2x
Paylocity	NasdaqGS:PCTY	\$3,094	\$3,179	7.8x	6.5x	85.9x	22.8x
TriNet Group	NYSE:TNET	\$3,098	\$2,955	0.9x	3.4x	10.9x	9.0x
Ultimate Software	NasdaqGS:ULTI	\$7,532	\$7,657	6.9x	5.8x	64.8x	24.1x
Upwork	NasdaqGS:UPWK	\$2,113	\$1,925	8.8x	7.4x	NM	NM
Verint Systems	NasdaqGS:VRNT	\$3,150	\$2,762	2.6x	2.4x	19.1x	10.0x
Workday	NasdaqGS:WDAY	\$34,738	\$35,130	13.3x	10.4x	NM	57.2x
Median				6.5x	5.8x	47.3x	25.1x
Industrial & Automation Softw	are						
3M	NYSE:MMM	\$122,351	\$110,949	3.7x	3.7x	14.4x	11.9x
ABB	SWX:ABBN	\$46,960	\$40,504	1.3x	1.2x	10.0x	8.4x
American Software	NasdaqGS:AMSW.A	\$243	\$323	2.1x	2.0x	20.5x	13.7x
Aspen Technology	NasdaqGS:AZPN	\$5,934	\$5,816	12.2x	10.6x	29.8x	21.1x
Dassault	ENXTPA:DSY	\$28,347	\$30,279	7.4x	6.7x	26.8x	19.4x
Endava	NYSE:DAVA	\$1,226	\$1,281	4.0x	3.4x	27.7x	18.5x
Emerson	NYSE:EMR	\$41,123	\$37,413	2.4x	2.2x	11.5x	10.2x
Fanuc Corporation	TSE:6954	\$22,677	\$29,451	3.4x	4.3x	9.1x	11.7x
General Electric	NYSE:GE	\$184,103	\$65,845	1.5x	1.5x	30.7x	12.8x
HollySys Automation Tech	NasdaqGS:HOLI	\$655	\$1,057	1.2x	1.0x	4.9x	4.3x
Honeywell	NYSE:HON	\$104,589	\$97,807	2.4x	2.8x	11.6x	11.8x
Johnson Controls	NYSE:JCI	\$39,487	\$27,398	1.3x	1.6x	8.0x	11.4x
KUKA	DB:KU2	\$2,494	\$2,309	0.7x	0.7x	13.8x	9.9x
Materialise	NasdaqGS:MTLS	\$1,041	\$1,049	5.0x	4.5x	40.9x	30.5x
Metso	HLSE:METSO	\$4,109	\$3,933	1.2x	1.1x	9.7x	8.0x
OMRON Corp	TSE:6645	\$6,641	\$7,565	0.8x	0.8x	6.6x	6.5x
Parametric Technology	NasdaqGS:PTC	\$10,196	\$9,838	8.2x	7.7x	75.6x	26.4x
Rockwell Automation	NYSE:ROK	\$18,989	\$18,099	2.8x	2.7x	13.2x	11.8x
Schneider Electric	ENXTPA:SU	\$45,881	\$37,252	1.6x	1.5x	9.8x	8.9x
Siemens	DB:SIE	\$114,913	\$90,641	1.2x	1.2x	11.0x	9.1x
YASKAWA Electric Corp	TSE:6506	\$6,439	\$6,487	1.6x	1.4x	10.1x	9.8x

\$4,238

\$4,625

1.1x

1.9x

1.1x

1.8x

8.7x

11.6x

TSE:6841

Yokogawa Electric Corp.

Median

8.0x

11.5x





				TEV/Rev	enue/	TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Education Technology							
Blackbaud	NasdaqGS:BLKB	\$3,376	\$2,977	4.0x	3.9x	24.6x	18.9x
Instructure	NYSE:INST	\$1,144	\$1,315	5.8x	4.7x	NM	NM
K12	NYSE:LRN	\$891	\$996	0.9x	0.9x	17.4x	7.5x
Rosetta Stone	NYSE:RST	\$345	\$375	2.0x	1.9x	NM	NM
Sunlands Online Education Group	NYSE:STG	\$189	\$525	0.7x	0.5x	NM	NM
Median				2.0x	1.9x	21.0x	13.2x
Business Intelligence & Data							
Alteryx	NYSE:AYX	\$3,493	\$3,650	19.2x	13.7x	NM	NM
AppFolio	NasdaqGM:APPF	\$1,983	\$2,028	11.2x	8.8x	81.6x	35.4x
Apptio	NasdagGM:APTI	\$1,584	\$1,730	7.1x	6.1x	NM	NM
Cardylitics	NasdaqGM:CDLX	\$231	\$232	1.6x	1.3x	NM	NM
Cloudera	NYSE:CLDR	\$1,308	\$1,698	3.0x	2.5x	NM	NM
Corelogic	NYSE:CLGX	\$4,359	\$2,692	2.4x	2.5x	10.4x	9.1x
CoStar Group	NasdaqGS:CSGP	\$11,214	\$12,286	9.9x	8.4x	36.8x	23.7x
Domo, Inc.	NasdaqGM:DOMO	\$409	\$517	3.1x	NM	NM	NM
Elastic N.V.	NYSE:ESTC	\$4,752	\$5,073	22.5x	NM	NM	NM
Gridsum Holding	NasdaqGS:GSUM	\$70	\$69	0.9x	0.5x	NM	5.6x
Hortonworks	NasdaqGS:HDP	\$1,113	\$1,215	3.4x	2.8x	NM	NM
Inovalon Holdings	NASDAQ:INOV	\$3,015	\$2,161	6.0x	4.9x	29.6x	15.5x
MicroStrategy	NasdaqGS:MSTR	\$766	\$1,465	1.5x	1.5x	31.3x	24.4x
MongoDB	NasdaqGM:MDB	\$4,180	\$4,489	19.4x	12.9x	NM	NM
NantHealth	NasdaqGS:NH	\$236	\$60	2.7x	2.3x	NM	NM
New Relic	NYSE:NEWR	\$4,280	\$4,612	10.4x	8.1x	NM	73.2x
Open Text	NasdaqGS:OTEX	\$10,554	\$8,721	3.7x	3.7x	12.6x	9.8x
PROS Holdings	NYSE:PRO	\$1,107	\$1,167	5.8x	5.1x	NM	NM
Sabre	NasdaqGS:SABR	\$8,936	\$5,958	2.3x	2.2x	12.0x	7.6x
Splunk	NasdaqGS:SPLK	\$14,504	\$15,495	9.1x	7.2x	NM	44.4x
Tableau	NYSE:DATA	\$9,071	\$10,028	8.5x	7.3x	NM	69.2x
TrueCar	NasdaqGS:TRUE	\$747	\$942	2.2x	1.9x	NM	17.4x
Varonis Systems	NasdaqGS:VRNS	\$1,401	\$1,559	5.4x	4.6x	NM	NM
Workiva	NYSE:WK	\$1,495	\$1,574	6.4x	5.6x	NM	NM
Yext	NYSE:YEXT	\$1,391	\$1,498	6.5x	5.0x	NM	NM
Median				5.8x	4.9x	29.6x	20.6x





				TEV/Rev	enue/	TEV/EBI	TDA
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Design & Engineering Software	е						
Ansys	NasdaqGS:ANSS	\$11,215	\$11,944	9.5x	8.3x	24.7x	17.9x
Altair Engineering	NasdaqGS:ALTR	\$1,743	\$1,940	4.7x	4.2x	72.8x	35.3x
Aurora Mobile	NasdaqGM:JG	\$738	\$806	8.4x	4.2x	NM	54.6x
Autodesk	NasdaqGS:ADSK	\$28,676	\$28,167	12.0x	9.3x	NM	37.3x
Aveva Group	LSE:AVV	\$4,868	\$4,972	6.2x	5.1x	33.4x	18.5x
Cadence Design Systems	NasdaqGS:CDNS	\$12,063	\$12,268	5.8x	5.4x	24.6x	16.4x
Hexagon	OM:HEXA B	\$19,152	\$16,662	4.5x	4.2x	14.7x	12.9x
Pivotal Software	NYSE:PVTL	\$3,627	\$4,291	5.8x	4.7x	NM	NM
Progress Software	NasdaqGS:PRGS	\$1,573	\$1,594	3.9x	4.0x	10.7x	9.9x
RIB Software AG	DB:RIB	\$327	\$604	2.4x	2.2x	13.6x	7.3x
Synopsys	NasdaqGS:SNPS	\$12,347	\$12,595	4.0x	3.7x	23.5x	13.3x
Twilio	NYSE:TWLO	\$8,511	\$8,828	15.2x	10.9x	NM	NM
Median				5.8x	4.5x	24.0x	17.2x





#### **EMS / Infrastructure Software**

				TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Security Software							
Carbon Black	NasdaqGS:CBLK	\$748	\$911	3.8x	3.1x	NM	NM
Check Point Software	NasdaqGS:CHKP	\$14,265	\$16,035	7.5x	7.3x	15.1x	13.8x
Cheetah Mobile	NYSE:CMCM	\$455	\$857	0.6x	0.6x	4.0x	4.4x
Cyber-Ark Software	NasdaqGS:CYBR	\$2,287	\$2,674	7.3x	6.1x	55.1x	23.4x
Everbridge	NasdaqGM:EVBG	\$1,673	\$1,683	12.4x	9.5x	NM	NM
FireEye	NasdaqGS:FEYE	\$3,001	\$3,138	3.8x	3.4x	NM	23.4x
ForeScout	NasdaqGM:FSCT	\$921	\$1,114	3.4x	2.8x	NM	NM
Fortinet	NasdaqGS:FTNT	\$10,365	\$11,999	6.1x	5.2x	42.3x	20.5x
Gemalto	ENXTAM:GTO	\$5,990	\$5,262	1.8x	1.7x	14.6x	9.8x
Imperva	NasdaqGS:IMPV	\$1,669	\$1,973	4.7x	4.4x	NM	35.8x
Mimecast	NasdaqGS:MIME	\$2,053	\$2,020	6.8x	5.6x	NM	33.6x
MobileIron	NasdaqGS:MOBL	\$382	\$484	2.1x	1.8x	NM	37.9x
Okta	NasdaqGS:OKTA	\$6,768	\$7,046	18.6x	14.0x	NM	NM
Palo Alto Networks	NYSE:PANW	\$16,291	\$17,871	6.7x	5.5x	NM	20.7x
Proofpoint	NasdaqGM:PFPT	\$4,390	\$4,580	6.6x	5.3x	NM	37.2x
Qualys	NasdaqGS:QLYS	\$2,617	\$2,943	9.8x	8.3x	34.5x	22.0x
Rapid7	NasdaqGM:RPD	\$1,374	\$1,473	5.9x	5.0x	NM	NM
SecureWorks	NasdaqGS:SCWX	\$1,265	\$1,380	2.5x	2.3x	NM	78.8x
Symantec	NasdaqGS:SYMC	\$14,675	\$12,072	3.1x	3.0x	16.7x	7.2x
Tenable	NasdaqGS:TENB	\$1,801	\$2,065	7.3x	5.7x	NM	NM
Trend Micro	TSE:4704	\$6,146	\$7,592	4.2x	3.9x	13.0x	11.2x
Zix	NasdaqGS:ZIXI	\$287	\$311	4.2x	3.9x	20.1x	13.4x
Zscaler	NasdaqGS:ZS	\$4,479	\$4,793	21.0x	15.4x	NM	NM
Median				5.9x	5.0x	16.7x	21.4x

Median				3.8x	3.1x	14.6x	14.3x
Vmware	NYSE:VMW	\$46,921	\$56,208	5.4x	4.9x	19.9x	12.3x
SolarWinds	NYSE:SWI	\$6,244	\$4,287	7.7x	6.9x	29.2x	14.3x
Software	XTRA:SOW	\$2,565	\$2,676	2.6x	2.5x	8.6x	8.3x
ServiceNow	NYSE:NOW	\$31,114	\$31,925	12.7x	9.8x	NM	36.3x
SailPoint	NYSE:SAIL	\$1,989	\$2,062	8.3x	7.2x	NM	84.1x
Presidio	NasdaqGS:PSDO	\$2,075	\$1,074	0.7x	0.7x	10.0x	8.9x
One Stop Systems	NasdaqCM:OSS	\$21	\$28	0.7x	0.4x	NM	NM
Nutanix	NasdaqGS:NTNX	\$6,922	\$7,450	5.8x	4.7x	NM	NM
Netscout Systems	NasdaqGS:NTCT	\$1,984	\$1,836	2.1x	2.1x	14.6x	NA
Micro Focus	LSE:MCRO	\$11,395	\$7,377	3.8x	3.1x	12.6x	8.0x
CommVault Systems	NasdaqGS:CVLT	\$2,251	\$2,735	3.2x	3.0x	84.4x	16.9x
Anaplan	NYSE:PLAN	\$2,946	\$3,317	13.5x	10.5x	NM	NM
A10 Networks	NYSE:ATEN	\$337	\$461	1.5x	1.4x	NM	34.4x







# **EMS / Infrastructure Software (continued)**

				TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Platform / OS							
Citrix Systems	NasdaqGS:CTXS	\$14,131	\$13,808	4.8x	4.6x	15.5x	12.7x
Hewlett-Packard	NYSE:HPQ	\$31,917	\$31,784	0.5x	0.5x	6.6x	6.6x
IBM	NYSE:IBM	\$136,019	\$103,303	1.7x	1.7x	8.0x	7.0x
Microsoft Corp.	NasdaqGS:MSFT	\$731,962	\$779,805	6.4x	5.7x	15.4x	13.5x
Red Hat	NYSE:RHT	\$29,635	\$31,046	9.1x	7.9x	50.0x	28.6x
Median				4.8x	4.6x	15.4x	12.7x





#### **Financial Solutions**

				TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Banking Solutions							
Black Knight	NYSE:BKI	\$8,113	\$6,732	7.4x	6.8x	21.6x	13.9x
Bottomline Technologies	NasdaqGS:EPAY	\$2,091	\$2,068	5.2x	4.8x	51.0x	20.0x
Fidelity National	NYSE:FIS	\$42,075	\$33,584	4.7x	4.9x	16.2x	12.8x
Fiserv	NasdaqGS:FISV	\$33,886	\$29,284	5.9x	5.6x	18.1x	14.6x
GreenSky	NasdaqGS:GSKY	\$601	\$550	1.5x	1.2x	3.4x	3.0x
Jack Henry & Associates	NasdaqGS:JKHY	\$9,665	\$9,780	6.2x	6.0x	20.0x	18.0x
Pintec Technology	NasdaqGM:PT	\$718	\$392	4.7x	NA	57.7x	NA
Q2 Holdings	NYSE:QTWO	\$2,031	\$2,149	9.0x	7.0x	NM	NM
Senmiao Technology Limited	NasdaqCM:AIHS	\$89	\$99	174.1x	NA	NM	NA
Temenos Group	SWX:TEMN	\$8,753	\$8,318	10.8x	9.5x	37.5x	24.8x
Median				6.0x	5.8x	20.8x	14.6x
Capital Market & Investment Sc Envestnet	NYSE:ENV	\$2,551	\$2,249	3.2x	2.9x	30.4x	14.7x
		. ,	. ,				
FactSet Research Systems IRESS	NYSE:FDS	\$7,989	\$7,612	5.9x 4.7x	5.5x 4.4x	17.9x	15.3x 15.8x
	ASX:IRE	\$1,472	\$1,340			20.4x	
Moodys Morningstar	NYSE:MCO  NasdagGS:MORN	\$30,862 \$4,409	\$26,833 \$4,686	6.8x 4.4x	6.6x NA	14.2x 15.8x	13.7x NA
MSCI	NYSE:MSCI	\$14,155	\$12,979	10.1x	9.3x	18.8x	17.0x
SimCorp	CPSE:SIM	\$2,644	\$2,680	6.3x	9.3x 5.8x	22.7x	22.3x
SS&C Technologies Holdings	NasdaqGS:SSNC	\$17,191	\$11,237	6.3x	3.7x	19.4x	9.9x
Thomson Reuters	TSX:TRI	\$31,356	\$24,398	2.9x	5.7x	13.8x	25.5x
Median		<del></del>	<del></del>	5.9x	5.4x	18.8x	15.6x
Consumer Data & Analytics							
•	NVOE-EEV	040.005	\$44.00C	4.0	0.00	10.4:	44.0
Equifax	NYSE:EFX	\$13,665	\$11,229	4.0x	3.9x	16.1x	11.6x
Experian	LSE:EXPN	\$25,165	\$21,804	5.3x	5.0x	17.4x	14.5x
Fair Isaac	NYSE:FICO	\$6,089	\$5,415	5.9x	5.4x	26.0x	24.1x
Median				5.3x	5.0x	17.4x	14.5x





## **Financial Solutions (continued)**

				TEV/Rev	venue	TEV/EBI	TDA
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Payment Processing							
ACI Worldwide	NasdaqGS:ACIW	\$3,821	\$3,209	3.8x	3.5x	23.4x	12.9x
Cielo	BOVESPA:CIEL3	\$8,148	\$6,233	2.7x	2.8x	6.7x	6.7x
Euronet Worldwide	NasdaqGS:EEFT	\$5,038	\$5,279	2.0x	1.8x	10.9x	8.7x
EVO Payments	NasdaqGM:EVOP	\$1,240	\$626	2.2x	2.1x	10.4x	7.9x
First Data Corporation	NYSE:FDC	\$35,876	\$15,836	4.2x	4.1x	11.1x	10.7x
Global Payments	NYSE:GPN	\$21,011	\$16,316	5.9x	4.9x	16.5x	13.4x
i3 Verticals, Inc.	NasdaqGS:IIIV	\$329	\$220	1.0x	2.6x	11.9x	9.2x
Net 1 Ueps Technologies	NasdaqGS:UEPS	\$393	\$267	0.7x	0.8x	3.8x	NA
PagSeguro Digital	NYSE:PAGS	\$5,528	\$6,139	9.3x	4.1x	NM	10.5x
Square	NYSE: SQ	\$23,046	\$23,193	7.7x	11.0x	NM	60.2x
StoneCo Ltd.	NasdaqGS:STNE	\$5,668	\$5,213	38.0x	7.0x	NM	16.4x
Total System Services	NYSE:TSS	\$18,242	\$14,831	4.3x	4.5x	16.4x	12.8x
Median				4.0x	3.8x	11.1x	10.7x
Insurance Solutions							
CorVel	NasdaqGS:CRVL	\$1,067	\$1,157	1.8x	NA	14.0x	NA
Ebix	NasdaqGS:EBIX	\$1,873	\$1,331	4.0x	3.3x	12.1x	9.9x
Guidewire Software	NYSE:GWRE	\$5,718	\$6,501	7.8x	7.8x	82.1x	43.9x
Sapiens International	NasdaqCM:SPNS	\$565	\$550	2.0x	1.9x	13.7x	12.1x
Verisk	NasdaqGS:VRSK	\$20,386	\$17,950	8.7x	8.1x	19.3x	17.0x
Median				4.0x	5.5x	14.0x	14.5x





## **Online & Digital**

				TEV/Rev	enue/	TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Digital Advertising & Market	ing						
Alphabet	NasdaqGS:GOOG.L	\$621,035	\$723,465	4.8x	4.0x	15.8x	10.9x
Baidu	NasdaqGS:BIDU	\$49,155	\$55,282	3.4x	3.0x	9.8x	11.1x
Criteo	NasdaqGS:CRTO	\$1,096	\$1,530	0.5x	1.1x	4.4x	3.7x
Hubspot	NYSE:HUBS	\$4,685	\$4,933	9.9x	7.8x	NM	68.6x
iClick Interactive	NasdaqGM:ICLK	\$172	\$181	1.1x	0.9x	NM	46.2x
Perion Network	NasdaqGS:PERI	\$66	\$67	0.3x	0.2x	3.2x	2.1x
QuinStreet	NasdaqGS:QNST	\$729	\$800	1.7x	1.5x	29.8x	13.8x
SendGrid	NYSE:SEND	\$1,880	\$2,044	13.7x	11.1x	NM	86.4x
SINA Corp	NasdaqGS:SINA	\$3,361	\$3,834	1.6x	1.4x	6.5x	5.3x
Sogou	NYSE:SOGO	\$954	\$2,031	0.9x	0.8x	9.2x	6.6x
Telaria	NYSE:TLRA	\$46	\$116	0.9x	0.8x	NM	NM
The Rubicon Project	NYSE:RUBI	\$92	\$188	0.8x	0.7x	NM	23.6x
Yandex	NasdaqGS:YNDX	\$8,207	\$8,872	4.6x	3.8x	18.6x	11.9x
Median				1.6x	1.4x	9.5x	11.5x

Digital Media & Video							
Adobe Systems	NasdaqGS:ADBE	\$111,331	\$110,435	12.3x	10.0x	35.2x	22.6x
Bilibili	NasdaqGS:BILI	\$3,576	\$4,063	6.6x	4.5x	NM	51.3x
Blucora	NasdaqGS:BCOR	\$1,472	\$1,278	2.6x	2.5x	14.0x	11.3x
Brightcove	NasdaqGS:BCOV	\$230	\$257	1.4x	1.3x	NM	47.6x
Digimarc	NasdaqGS:DMRC	\$116	\$165	5.6x	5.1x	NM	NM
Dropbox, Inc.	NasdaqGS:DBX	\$7,432	\$8,305	5.6x	4.8x	NM	20.7x
HUYA Inc.	NYSE:HUYA	\$2,300	\$3,155	4.1x	2.5x	NM	20.9x
IAC/Interactive	NasdaqGS:IAC	\$16,202	\$15,286	3.9x	3.5x	22.7x	14.5x
iQIYI	NasdaqGS:IQ	\$9,576	\$10,761	2.9x	2.1x	8.6x	5.8x
Leaf Group	NYSE:LEAF	\$128	\$161	0.9x	0.7x	NM	NM
Netflix	NasdaqGS:NFLX	\$121,992	\$116,723	8.2x	6.5x	71.2x	48.0x
Pandora Media	NYSE:P	\$2,576	\$2,196	1.7x	1.5x	NM	NM
Pluralsight	NasdaqGS:PS	\$1,385	\$1,467	6.5x	4.8x	NM	NM
Qutoutiao	NasdaqGS:QTT	\$1,449	\$1,810	5.1x	1.6x	NM	NM
RhythmOne	AIM:RTHM	\$178	\$190	0.6x	0.5x	12.0x	3.7x
Roku	NasdaqGS:ROKU	\$3,165	\$3,345	4.8x	3.5x	NM	NM
TiVo	NasdaqGS:TIVO	\$1,844	\$1,166	2.5x	2.7x	10.8x	8.3x
VeriSign	NasdaqGS:VRSN	\$18,532	\$17,927	15.4x	14.7x	23.2x	20.6x
Xunlei	NasdaqGS:XNET	-\$104	\$228	NM	NA	NM	NA
Median				4.4x	3.1x	18.3x	20.6x





## **Online & Digital (continued)**

				TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Digital Advertising Agen	cies & Service Providers						
Dentsu	TSE:4324	\$10,850	\$12,603	1.2x	1.1x	6.6x	6.2x
IPG	NYSE:IPG	\$9,605	\$7,929	1.2x	1.1x	8.1x	6.5x
M&C Saatchi	AIM:SAA	\$323	\$320	0.7x	0.9x	9.9x	7.4x
MDC Partners	NasdaqGS:MDCA	\$1,327	\$150	0.9x	0.9x	8.9x	6.1x
Omnicom	NYSE:OMC	\$20,052	\$16,413	1.3x	1.3x	8.5x	8.3x
Publiclis	ENXTPA:PUB	\$16,761	\$13,224	1.6x	1.6x	8.6x	8.4x
WPP	LSE:WPP	\$20,048	\$13,615	1.0x	1.0x	6.7x	7.1x
Median				1.2x	1.1x	8.5x	7.1x

Online Retail & Marketplace	es						
1-800-Flowers.com	NasdaqGS:FLWS	\$858	\$785	0.7x	0.7x	12.1x	10.8x
Alibaba	NYSE:BABA	\$356,970	\$352,534	7.9x	5.5x	37.3x	18.4x
Amazon	NasdaqGS:AMZN	\$751,870	\$734,416	3.4x	2.8x	30.2x	19.1x
ASOS	AIM:ASC	\$2,378	\$2,433	0.8x	0.7x	15.7x	12.6x
Blue Apron	NYSE:APRN	\$231	\$198	0.3x	0.4x	NM	NM
boohoo.com	AIM:BOO	\$2,205	\$2,387	2.4x	1.8x	27.4x	19.1x
Booking Holdingings	NasdaqGS:BKNG	\$81,377	\$79,799	5.8x	5.2x	14.5x	13.2x
Cango	NYSE:CANG	\$751	\$1,200	4.8x	1.9x	16.7x	4.4x
CarGurus	NasdaqGS:CARG	\$3,565	\$3,713	8.5x	6.7x	NM	72.4x
Carvana	NYSE:CVNA	\$1,883	\$1,304	1.2x	0.6x	NM	NM
Ebay	NasdaqGS:EBAY	\$31,437	\$27,027	3.1x	2.8x	10.5x	8.4x
Eventbrite	NYSE:EB	\$1,762	\$2,169	6.3x	5.1x	NM	38.1x
Expedia	NasdaqGS:EXPE	\$18,691	\$16,782	1.7x	1.5x	14.6x	8.9x
Groupon	NasdaqGS:GRPN	\$1,487	\$1,826	0.5x	0.6x	10.5x	4.9x
Grubhub	NYSE:GRUB	\$6,952	\$6,967	7.5x	5.5x	37.1x	26.2x
EverQuote, Inc.	NasdaqGM:EVER	\$66	\$105	0.4x	0.4x	NM	NM
Ocado Group	LSE:OCDO	\$6,874	\$6,966	3.5x	3.2x	81.4x	60.8x
Overstock	NasdaqGM:OSTK	\$346	\$437	0.2x	0.2x	NM	NM
Pinduoduo Inc.	NasdaqGS:PDD	\$21,587	\$24,859	17.2x	6.3x	NM	NM
Quotient Technology	NYSE:QUOT	\$841	\$1,017	2.3x	1.8x	44.4x	11.5x
Rakuten	TSE:4755	\$11,871	\$9,063	1.2x	1.1x	7.0x	6.8x
RumbleON	NasdaqCM:RMBL	\$97	\$99	2.2x	0.1x	NM	NM
Shutterstock	NYSE:SSTK	\$1,055	\$1,262	1.7x	1.6x	22.1x	9.2x
Stamps.com	NasdaqGS:STMP	\$2,820	\$2,817	5.1x	4.3x	12.9x	10.1x
The Trade Desk	NasdaqGM:TTD	\$4,852	\$5,019	11.6x	8.5x	50.8x	27.8x
TripAdvisor	NasdaqGS:TRIP	\$6,763	\$7,426	4.3x	3.9x	31.3x	14.8x
Wayfair	NYSE:W	\$8,150	\$8,138	1.3x	1.0x	NM	NM
Wowo	NASDAQ:JMU	\$21	\$6	0.2x	NA	NM	NA
Median		<u> </u>	<u> </u>	2.3x	1.8x	19.4x	12.9x



# IV

## **Online & Digital (continued)**

				TEV/Rev		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Digital Gaming							
Activision	NasdaqGS:ATVI	\$34,781	\$35,535	4.9x	4.5x	16.2x	11.5x
Capcom	TSE:9697	\$1,795	\$2,168	1.9x	2.2x	7.7x	7.7x
Changyou.com	NasdaqGS:CYOU	\$321	\$939	0.6x	0.7x	2.3x	2.7x
Electronic Arts	NasdaqGS:EA	\$20,289	\$23,841	3.9x	3.7x	14.1x	10.7x
Gree	TSE:3632	\$164	\$935	0.2x	0.2x	1.9x	2.1x
Konami	TSE:9766	\$4,868	\$5,923	2.2x	2.0x	8.5x	7.4x
NetDragon WebSoft	SEHK:777	\$712	\$811	1.0x	0.9x	13.4x	9.5x
Net Entertainment	OM:NET B	\$947	\$988	4.9x	4.5x	11.8x	9.3x
Nintendo	TSE:7974	\$24,287	\$32,064	2.5x	1.9x	12.6x	8.5x
Playtech	LSE:PTEC	\$1,999	\$1,546	2.2x	1.2x	7.8x	4.8x
Square Enix	TSE:9684	\$2,313	\$3,245	1.1x	1.0x	8.8x	5.6x
Take-Two Interactive	NasdaqGS:TTWO	\$10,692	\$11,717	5.9x	3.1x	42.0x	10.6x
Ubisoft	ENXTPA:UBI	\$9,259	\$8,869	4.0x	3.7x	26.9x	7.9x
Zynga	NasdaqGS:ZNGA	\$2,967	\$3,387	3.3x	2.9x	42.9x	15.9x
Median				2.3x	2.1x	12.2x	8.2x
Social Media							
Facebook	NasdaqGS:FB	\$335,589	\$376,725	6.5x	5.2x	11.8x	9.6x
LINE	TSE:3938	\$7,299	\$8,206	4.1x	3.4x	NM	32.7x
Mail.ru Group	LSE:MAIL	\$4,875	\$5,022	5.1x	3.9x	65.2x	12.0x
Match Group	NasdaqGS: MTCH	\$12,757	\$11,894	7.7x	6.7x	22.6x	17.9x
MeetMe	NasdaqCM:MEET	\$361	\$342	2.2x	1.9x	16.2x	11.3x
Mixi	TSE:2121	\$293	\$1,641	0.2x	0.2x	0.5x	0.8x
Momo	NasdaqGS:MOMO	\$4,131	\$4,907	2.2x	1.8x	7.9x	7.9x
Renren	NYSE:RENN	\$214	\$106	0.5x	0.4x	NM	NM
Snap	NYSE:SNAP	\$5,721	\$7,135	5.3x	4.1x	NM	NM
Twitter	NYSE:TWTR	\$18,558	\$21,806	6.5x	5.7x	27.5x	14.9x
XING	XTRA:O1BC	\$1,482	\$1,528	5.9x	5.0x	23.9x	15.5x
Yelp	NYSE:YELP	\$2,070	\$2,907	2.3x	2.1x	48.4x	10.1x
Median				4.6x	3.7x	22.6x	11.6x
Digital Commerce Solutions							
Gk Software AG	DB:GKS	\$161	\$139	1.4x	1.3x	37.0x	11.2x
	XTRA:ISH2	\$46	· · · · · · · · · · · · · · · · · · ·	1.4x 1.2x	1.3x	NM	NM
Intershop			\$54				
NCR DES Web	NYSE:NCR	\$6,385	\$2,728	1.0x	1.0x	8.1x	6.3x
PFS Web	NasdaqCM:PFSW	\$128	\$99 \$45.376	0.5x	0.4x	6.8x	4.9x
Shopify	NYSE:SHOP	\$13,697	\$15,276	14.4x	10.1x	NM 7.7v	NM
Wincor Nixdorf Worldline S.A	XTRA:WIN ENXTPA:WLN	\$2,165	\$1,956 \$1,152	0.9x 5.8x	NA 4.8x	7.7x 29.7x	NA 20.1x
wondine 5.A	ENAIPA:WLIN	\$10,889	\$11,152	D.ÖX	4.8X	29.7X	20.1X
I a a constant and a							

Median





## Online & Digital (continued)

				TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Other Digital Companies							
Akamai	NasdaqGS:AKAM	\$9,691	\$9,948	3.6x	3.4x	13.9x	8.3x
Box	NYSE:BOX	\$2,319	\$2,421	4.0x	3.3x	NM	52.7x
CooTek (Cayman)	NYSE:CTK	\$659	\$532	6.2x	2.5x	NM	14.2x
Endurance International	NasdaqGS:EIGI	\$2,701	\$957	2.3x	2.4x	8.4x	8.5x
GoDaddy	NYSE:GDDY	\$12,714	\$10,973	5.0x	4.4x	33.1x	16.8x
Just Eat	LSE:JE.	\$5,014	\$5,067	6.0x	4.6x	24.2x	20.5x
Limelight Networks	NasdaqGS:LLNW	\$212	\$265	1.1x	1.1x	9.3x	7.9x
Moneysupermarket.com	LSE:MONY	\$1,852	\$1,883	4.3x	4.0x	12.5x	11.0x
NetEase	NasdaqGS:NTES	\$27,136	\$30,911	3.0x	2.4x	21.3x	18.0x
Opera	NasdaqGS:OPRA	\$399	\$612	2.5x	1.9x	10.1x	4.7x
Otello Corporation	OB:OTELLO	\$189	\$212	0.7x	0.6x	NM	5.0x
Phoenix New Media	NYSE:FENG	\$110	\$233	0.5x	0.5x	NM	13.7x
Redfin Corporation	NasdaqGS:RDFN	\$958	\$1,289	2.1x	1.7x	NM	NM
Sea	NYSE:SE	\$3,703	\$3,793	5.5x	3.0x	NM	NM
SurveyMonkey	NasdaqGS:SVMK	\$1,687	\$1,535	6.9x	6.1x	NM	32.3x
Tencent Holdings	SEHK:700	\$387,514	\$379,116	9.1x	7.1x	23.9x	20.4x
United Internet	DB:UTDI	\$11,258	\$8,765	2.0x	1.8x	16.6x	7.7x
Wix	NasdaqGS:WIX	\$3,986	\$4,368	7.1x	5.5x	NM	25.3x
Zillow	NasdaqGS:ZG	\$5,481	\$6,409	4.4x	3.1x	85.6x	27.8x
Median				4.0x	3.0x	16.6x	14.2x





#### **Tech Enabled Business Services**

				TEV/Rev	enue/	TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
IT Services, Integration & Cons	sulting						
Accenture	NYSE:ACN	\$85,921	\$89,887	2.1x	2.0x	13.1x	11.8x
Atos Origin	ENXTPA:ATO	\$9,023	\$8,739	0.6x	0.6x	4.9x	4.1x
Bechtle	XTRA:BC8	\$3,501	\$3,263	0.8x	0.7x	14.6x	11.7x
CACI International	NYSE:CACI	\$4,599	\$3,579	1.0x	0.9x	10.4x	10.4x
Cancom	XTRA:COK	\$1,088	\$1,150	0.7x	0.7x	9.9x	8.2x
Cap Gemini	ENXTPA:CAP	\$18,900	\$16,134	1.3x	1.2x	10.2x	8.5x
CGI Group	TSX:GIB.A	\$18,154	\$16,915	2.2x	2.1x	12.8x	11.1x
CLPS Incorporation	NasdaqGM:CLPS	\$27	\$33	0.6x	NA	13.9x	NA
Cognizant Technology	NasdaqGS:CTSH	\$32,718	\$36,757	2.1x	1.9x	9.9x	8.9x
ComputaCenter	LSE:CCC	\$1,381	\$1,445	0.3x	0.2x	8.2x	7.2x
DXC Technology	NYSE:DXC	\$19,478	\$14,894	0.8x	0.9x	3.6x	4.2x
ePlus	NasdaqGS:PLUS	\$1,086	\$975	0.8x	0.8x	10.8x	10.0x
FDM Group	LSE:FDM	\$987	\$1,025	3.3x	3.2x	16.3x	15.0x
Fujitsu	TSE:6702	\$16,312	\$12,756	0.4x	0.5x	4.1x	6.6x
HCL Technologies	NSEI:HCLTECH	\$18,941	\$19,296	2.2x	2.1x	9.6x	8.8x
Infosys	NSEI:INFY	\$37,506	\$41,163	3.2x	3.0x	12.0x	12.0x
Luxoft Holdings	NYSE:LXFT	\$933	\$1,022	1.0x	1.0x	9.5x	6.9x
ManTech International	NasdaqGS:MANT	\$2,063	\$2,078	1.1x	1.0x	12.8x	11.4x
MAXIMUS	NYSE:MMS	\$3,807	\$4,174	1.6x	1.3x	10.9x	9.7x
NCC Group	LSE:NCC	\$656	\$621	2.2x	2.0x	13.7x	10.6x
Nomura Research Institute	TSE:4307	\$8,258	\$8,726	1.8x	1.7x	8.9x	8.6x
NSD	TSE:9759	\$613	\$809	1.1x	1.1x	7.5x	6.9x
OBIC	TSE:4684	\$5,871	\$6,883	9.2x	8.5x	16.0x	16.4x
Perficient	NasdaqGS:PRFT	\$813	\$739	1.7x	1.6x	14.3x	9.9x
SCSK Corporation	TSE:9719	\$3,196	\$3,681	1.0x	1.0x	7.3x	6.8x
Sopra Group	ENXTPA:SOP	\$2,662	\$1,865	0.6x	0.6x	6.8x	6.3x
Talend	NasdaqGM:TLND	\$1,026	\$1,115	5.4x	4.3x	NM	NM
Tata Consultancy Services	NSEI:TCS	\$97,337	\$102,061	5.1x	4.4x	18.7x	15.7x
The Hackett Group	NasdaqGS:HCKT	\$471	\$473	1.7x	1.6x	11.2x	9.1x
Tieto	HLSE:TIETO	\$2,224	\$1,993	1.2x	1.2x	8.6x	8.7x
Unisys	NYSE:UIS	\$760	\$593	0.3x	0.3x	2.6x	1.9x
Virtusa	NasdaqGS:VRTU	\$1,501	\$1,274	1.3x	1.1x	17.3x	12.2x
Wipro	BSE:507685	\$18,286	\$21,353	2.3x	2.1x	13.1x	10.8x
Xerox	NYSE:XRX	\$9,030	\$4,708	0.9x	0.9x	6.3x	5.2x
Median				1.2x	1.2x	10.4x	9.0x





## **Tech Enabled Business Services (continued)**

			_	TEV/Revenue		TEV/EBITDA	
(\$ in millions)		TEV	Market Cap	LTM	NTM	LTM	NTM
Business Process Management	(BPM)						
Appian	APPN	\$1,593	\$1,701	7.3x	6.6x	NM	NM
Broadridge Financial Solutions	NYSE:BR	\$12,176	\$11,237	2.8x	2.7x	14.6x	13.1x
Cardtronics	NasdaqGS:CATM	\$1,988	\$1,199	1.4x	1.5x	6.7x	6.9x
Cass Information Systems	NasdaqGS:CASS	\$600	\$780	4.1x	NA	11.7x	NA
Computershare	ASX:CPU	\$7,527	\$6,578	3.4x	3.2x	13.7x	10.8x
CSG Systems International	NasdaqGS:CSGS	\$1,220	\$1,059	1.5x	1.3x	7.9x	6.1x
DocuSign	NasdaqGS:DOCU	\$5,962	\$6,623	9.2x	7.3x	NM	NM
EVERTEC	NYSE:EVTC	\$2,504	\$2,026	5.8x	5.3x	15.6x	11.4x
ExIservice Holdings	NasdaqGS:EXLS	\$1,861	\$1,803	2.2x	1.9x	15.9x	11.0x
Genpact	NYSE:G	\$6,073	\$5,130	2.1x	1.9x	14.9x	10.8x
Smartsheet	NYSE:SMAR	\$2,373	\$2,579	15.0x	10.6x	NM	NM
SS&C Technologies	NasdaqGS:SSNC	\$17,191	\$11,237	6.3x	3.7x	19.4x	9.9x
Tabula Rasa Healthcare	NasdagGM:TRHC	\$1,319	\$1,305	6.9x	5.5x	72.7x	38.0x
Trans Cosmos	TSE:9715	\$698	\$872	0.3x	0.3x	13.7x	6.9x
WEX	NYSE:WEX	\$7,893	\$6,037	5.5x	5.0x	14.7x	10.7x
Wirecard	XTRA:WDI	\$17,595	\$18,788	7.8x	6.1x	30.6x	21.6x
WNS	NYSE:WNS	\$2,053	\$2,060	2.6x	2.5x	16.1x	13.5x
Worldpay	NYSE:WP	\$30,702	\$22,727	7.8x	7.3x	23.2x	14.6x
Zuora	NYSE:ZUO	\$1,809	\$1,968	8.2x	6.5x	NM	NM
Median				5.5x	4.3x	14.9x	10.9x
Data Center Hosting & Services							
Dropbox	NasdagGS:DBX	\$7,432	\$8,305	5.6x	4.8x	NM	20.7x
Equinix	NasdagGS:EQIX	\$38,827	\$28,342	7.7x	7.2x	17.2x	14.9x
Interxion Holding	NYSE:INXN	\$5,046	\$3,882	8.0x	7.1x	18.8x	15.3x
Pure Storage	NYSE:PSTG	\$3,185	\$3,885	2.5x	1.9x	NM	18.8x
Switch	NYSE:SWCH	\$1,453	\$387	3.6x	3.3x	9.1x	6.8x
Median				5.6x	4.8x	17.2x	15.3x
Call Center							
Sykes Enterprises	NasdaqGS:SYKE	\$980	\$1,055	0.6x	0.6x	6.3x	5.3x
TeleTech Holdings	NasdaqGS:TTEC	\$1,507	\$1,320	1.0x	1.0x	8.6x	7.0x
Median				0.8x	0.8x	7.5x	6.2x





## **Application Software**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Dec-18	Q4'2018	Pictureworks Holdings Sdn Bhd	PUC Berhad (KLSE:PUC)	\$37.6	-
Dec-18	Q4'2018	MINDBODY, Inc. (NasdaqGM:MB)	Vista Equity Partners LLC	\$2,154.4	7.4x
Dec-18	Q4'2018	Global Software Business Unit of Atos Convergence Creators GmbH	Enea AB (publ) (OM:ENEA)	\$20.6	-
Dec-18	Q4'2018	Cortex Business Solutions Inc. (TSXV:CBX)	TransZap P2P Canada, Inc.	\$33.3	3.1x
Dec-18	Q4'2018	Socionext Embedded Software Austria GmbH	ArtSpark Holdings Inc. (TSE:3663)	\$17.7	-
Dec-18	Q4'2018	Harvest S.A. (ENXTPA:ALHVS)	Five Arrows Managers SAS	\$75.6	3.9x
Dec-18	Q4'2018	IQMS Inc.	Dassault Systèmes SE (ENXTPA:DSY)	\$425.0	-
Dec-18	Q4'2018	Danal, Inc.	Boku, Inc. (AIM:BOKU)	\$101.4	-
Dec-18	Q4'2018	Lighthouse Computer Services Inc.	Converge Technology Solutions Corp. (TSXV:CTS)	\$23.2	-
Dec-18	Q4'2018	SDH Holding SA/ SDATAWAY SA	Intretech (Hk) Co., Limited	\$36.1	-
Nov-18	Q4'2018	RTLS SmartSpace Business of Ubisense Group Plc	Abyssinian Topco Limited	\$44.8	-
Nov-18	Q4'2018	Assima PLC (ENXTPA:ALSIM)	Partner One Capital	\$10.3	0.7x
Nov-18	Q4'2018	Cylance Inc.	BlackBerry Limited (TSX:BB)	\$1,500.0	-
Nov-18	Q4'2018	iPass Inc. (NasdaqCM:IPAS)	Pareteum Corporation (NasdaqCM:TEUM)	\$29.0	0.5x
Nov-18	Q4'2018	Apptio, Inc. (NasdaqGM:APTI)	Vista Equity Partners LLC	\$2,122.3	7.1x
Nov-18	Q4'2018	Datawatch Corporation	Altair Engineering Inc. (NasdaqGS:ALTR)	\$187.2	3.9x
Nov-18	Q4'2018	DealerMine Inc.	Quorum Information Technologies Inc. (TSXV:QIS)	\$11.0	-
Nov-18	Q4'2018	Inuvo, Inc. (AMEX:INUV)	ConversionPoint Technologies Inc.	\$84.5	0.5x
Oct-18	Q4'2018	Mitek Systems, Inc. (NasdaqCM:MITK)	ASG Technologies Group, Inc.	\$438.3	7.6x
Oct-18	Q4'2018	eVision Industry Software BV	Wolters Kluwer Law & Business Group	\$180.0	7.2x
Oct-18	Q4'2018	Red Hat, Inc. (NYSE:RHT)	International Business Machines Corporation (NYSE:IBM)	\$35,710.2	10.8x
Oct-18	Q4'2018	SLI Systems Limited (NZSE:SLI)	ESW Holdings, Inc.	\$27.4	1.0x
Oct-18	Q4'2018	Vix Verify Global Pty Ltd	GB Group plc (AIM:GBG)	\$27.1	1.8x
Oct-18	Q4'2018	JetPay Corporation (NasdaqCM:JTPY)	NCR Corporation (NYSE:NCR)	\$184.9	2.2x





# IV

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Oct-18	Q4'2018	Symbility Solutions Inc. (TSXV:SY)	CoreLogic, Inc. (NYSE:CLGX)	\$84.4	3.0x
Oct-18	Q4'2018	Pimz Co., Ltd.	Cafe24 Corp. (KOSDAQ:A042000)	\$6.2	3.8x
Oct-18	Q4'2018	IFS Global Holdings Pty Ltd	Wisetech Global Limited (ASX:WTC)	\$39.2	7.0x
Oct-18	Q4'2018	Swiped On Limited	Smartspace Software Plc (AIM:SMRT)	\$7.3	11.0x
Oct-18	Q4'2018	LSI-Sigma Software Limited	Wisetech Global Limited (ASX:WTC)	\$6.6	2.8x
Oct-18	Q4'2018	ZheJiang SINON Technology CO.LTD	Hangzhou Prevail Optoelectronic Equipment Co., Ltd. (SZSE:300710)	\$17.2	4.9x
Oct-18	Q4'2018	IT SONIX GmbH/XPURE GmbH	Data Respons ASA (OB:DAT)	\$20.2	1.3x
Oct-18	Q4'2018	MYOB Group Limited (ASX:MYO)	KKR & Co. Inc. (NYSE:KKR)	\$1,529.7	6.0x
Sep-18	Q3'2018	FueTrek Co., Ltd. (TSE:2468)	Glory Ltd. (TSE:6457)	\$67.7	1.6x
Sep-18	Q3'2018	All Right Software Inc.	EPS Holdings, Inc. (TSE:4282)	\$13.8	2.2x
Sep-18	Q3'2018	Prime Analytics, LLC	KRM22 Plc (AIM:KRM)	\$8.0	3.2x
Sep-18	Q3'2018	Top Data Science Oy	Morpho, Inc. (TSE:3653)	\$5.0	9.9x
Sep-18	Q3'2018	IntraLinks Holdings, Inc.	SS&C Technologies Holdings, Inc. (NasdaqGS:SSNC)	\$1,500.0	4.6x
Sep-18	Q3'2018	Brand View Limited	Ascential plc (LSE:ASCL)	\$49.0	2.9x
Aug-18	Q3'2018	Big Fish Athletics (Beijing) Network Technology Co., Ltd.	Zhejiang Wanshengda Playing Card Co.	\$35.6	26.6x
Aug-18	Q3'2018	Digium, Inc.	Sangoma Technologies Corporation (TSXV:STC)	\$27.9	0.9x
Aug-18	Q3'2018	DHI Group, Inc. (NYSE:DHX)	TCS Capital Management, LLC	\$152.6	0.8x
Aug-18	Q3'2018	Virtual Calibre SDN. BHD. / Virtual Calibre MSC SDN. BHD.	Japan System Techniques Co., Ltd. (TSE:4323)	\$15.5	1.3x
Aug-18	Q3'2018	Smartbox Assistive Technology Ltd	Tobii Dynavox LLC	\$14.0	1.2x
Aug-18	Q3'2018	Trinium Technologies, LLC	Wisetech Global Limited (ASX:WTC)	\$49.9	6.0x
Aug-18	Q3'2018	TravelClick, Inc.	Amadeus Americas, Inc.	\$1,520.0	4.1x
Aug-18	Q3'2018	Taric S.A.	Wisetech Global Limited (ASX:WTC)	\$34.7	5.3x
Aug-18	Q3'2018	Esize Netherlands B.V.	Proactis Holdings Plc (AIM:PHD)	\$17.6	3.0x





Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Jul-18	Q3'2018	Eze Software Group LLC	SS&C Technologies Holdings, Inc. (NasdaqGS:SSNC)	\$1,450.0	5.2x
Jul-18	Q3'2018	Hangzhou Worth Technology Co., Ltd.	Leon Technology Co., Ltd. (SZSE:300603)	\$175.8	5.0x
Jul-18	Q3'2018	Indus Software Technologies Pvt. Ltd.	Ebix, Inc. (NasdaqGS:EBIX)	\$29.0	1.3x
Jul-18	Q3'2018	Jilin Jincai Technology Co., Ltd.	Fujian Boss Software Corp. (SZSE:300525)	\$6.1	3.0x
Jul-18	Q3'2018	Shenzhen Youluo Technology Co., Ltd.	China High-Speed Railway Technology Co., Ltd. (SZSE:000008)	\$270.0	41.2x
Jul-18	Q3'2018	PerfectCard DAC	EML Payments Limited (ASX:EML)	\$7.1	3.3x
Jul-18	Q3'2018	Shire Systems Ltd.	Elecosoft plc (AIM:ELCO)	\$8.3	3.0x
Jul-18	Q3'2018	B2 Group S.a.R.L	Gresham Technologies plc (LSE:GHT)	\$9.9	4.9x
Jul-18	Q3'2018	Savoye SA	Noblelift Intelligent Equipment Co.,Ltd. (SHSE:603611)	\$37.6	0.4x
Jul-18	Q3'2018	Electronic Data Processing PLC (LSE:EDP)	Kerridge Commercial Systems Group Limited	\$15.4	1.0x
Jul-18	Q3'2018	Taliance Group	Altus Group Limited (TSX:AIF)	\$23.3	4.3x
Jul-18	Q3'2018	SUSE International Holdings GmbH, SUSE GmbH, and SUSE LLC	Eqt Fund Management S.A.R.L	\$2,535.0	7.3x
Jul-18	Q3'2018	Link Mobility Group ASA (OB:LINK)	ABRY Partners, LLC	\$537.1	2.7x
Jun-18	Q2'2018	RO Innovation, Inc.	RO Innovation, Inc.	\$14.3	2.4x
Jun-18	Q2'2018	Convergys Corporation (NYSE:CVG)	Concentrix Corporation	\$2,534.0	0.9x
Jun-18	Q2'2018	Cheleo SRL	TXT e-solutions S.p.A. (BIT:TXT)	\$8.8	2.7x
Jun-18	Q2'2018	Pierbridge, Inc.	Wisetech Global Limited (ASX:WTC)	\$59.4	6.4x
Jun-18	Q2'2018	Constructionline	Warburg Pincus LLC	\$210.9	11.4x
Jun-18	Q2'2018	Artilium plc (AIM:ARTA)	Pareteum Corporation (AMEX:TEUM)	\$100.6	7.9x
May-18	Q2'2018	A2iA S.A.	Mitek Systems, Inc. (NasdaqCM:MITK)	\$49.7	3.3x
May-18	Q2'2018	Ulukom Bilgisayar Yazilim Donanim Danismanlik ve Ticaret AS	Wisetech Global Limited (ASX:WTC)	\$5.6	4.0x
May-18	Q2'2018	True North Consulting, LLC	GSE Systems, Inc. (NasdaqCM:GVP)	\$9.8	0.9x
May-18	Q2'2018	Unicommerce eSolutions Private Limited	Infibeam Incorporation Limited (BSE:539807)	\$17.9	5.9x







Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Apr-18	Q2'2018	Metrologic Group	Sandvik Machining Solutions AB	\$435.8	8.3x
Apr-18	Q2'2018	Beijing Unibeacon Testing Technology Co., Ltd.	Beijing Watertek Information Technology Co., Ltd. (SZSE:300324)	\$8.7	6.6x
Apr-18	Q2'2018	PeopleFluent, Inc.	Learning Technologies Group plc (AIM:LTG)	\$150.0	1.4x
Apr-18	Q2'2018	Desarrollo de Productos Informáticos S.A.	CAD IT S.p.A. (BIT:CAD)	\$5.9	1.4x
Apr-18	Q2'2018	PB & Asoc. S.A. and Softcargo and EasyLog S.A.	Wisetech Global Limited (ASX:WTC)	\$19.0	3.7x
Apr-18	Q2'2018	Viewpoint, Inc.	Trimble Inc. (NasdaqGS:TRMB)	\$1,200.0	0.5x
Apr-18	Q2'2018	Fidessa group plc (LSE:FDSA)	Ion Investment Group Limited	\$2,021.8	4.1x
Apr-18	Q2'2018	Socrata, Inc.	Tyler Technologies, Inc. (NYSE:TYL)	\$150.0	6.0x
Apr-18	Q2'2018	Actian Corporation	HCL Technologies Limited (NSEI:HCLTECH); Sumeru Equity Partners, Inc.	\$330.0	3.1x
Apr-18	Q2'2018	Priori Data GmbH	appScatter Group plc (AIM:APPS)	\$19.9	15.4x
Mar-18	Q1'2018	FreeAgent Holdings plc (AIM:FREE)	National Westminster Bank Plc	\$66.1	5.2x
Mar-18	Q1'2018	Shanghai Chengqi Information Technology Co., Ltd.	Shanghai Yaoji Playing Card Co., Ltd. (SZSE:002605)	\$198.1	9.2x
Mar-18	Q1'2018	ltecgyn Informática Ltda.	Linx Sistemas E Consultoria Ltda.	\$7.8	2.4x
Mar-18	Q1'2018	MuleSoft, Inc.	salesforce.com, inc. (NYSE:CRM)	\$6,607.4	22.3x
Mar-18	Q1'2018	LSP Solutions B.V.	Wisetech Global Limited (ASX:WTC)	\$6.2	2.5x
Mar-18	Q1'2018	Booker Software, Inc.	MINDBODY, Inc. (NasdaqGM:MB)	\$150.0	6.0x
Mar-18	Q1'2018	Tecnotree Oyj (HLSE:TEM1V)	-	\$41.8	0.6x
Mar-18	Q1'2018	United Luck Group Holdings Limited	Zhejiang Jinke Culture Industry Co., Ltd. (SZSE:300459)	\$156.5	2.0x
Feb-18	Q1'2018	Pivot Software Limited	Elmo Software Limited (ASX:ELO)	\$8.8	2.5x
Feb-18	Q1'2018	Openwave Mobility Inc.	Enea AB (publ) (OM:ENEA)	\$90.0	3.3x
Feb-18	Q1'2018	RealDolmen NV (ENXTBR:REA)	GFI Informatique SA (ENXTPA:GFI)	\$203.1	0.7x
Feb-18	Q1'2018	CAD IT S.p.A. (BIT:CAD)	Quarantacinque Srl	\$41.6	0.5x







Period	Target	Buyer	Enterprise Value	Revenue Multiple
Q1'2018	WebDAM, Inc.	Bynder LLC	\$49.1	3.0x
Q1'2018	Xively, Ltd.	Google LLC	\$50.0	16.7x
Q1'2018	Unified Messaging Systems ASA	Everbridge Holdings Limited	\$33.3	2.5x
Q1'2018	Fraedom Holdings Limited	Visa Inc. (NYSE:V)	\$195.7	4.3x
Q1'2018	Tryumph21 Co.,Ltd.	As One Corp. (TSE:7476)	\$26.4	0.2x
Q1'2018	Escher Group Holdings plc	Hanover Investors Management LLP	\$49.1	2.7x
Q1'2018	LiquidHub, Inc.	Capgemini SE (ENXTPA:CAP)	\$500.0	2.0x
Q1'2018	e-Builder, Inc.	Trimble Inc. (NasdaqGS:TRMB)	\$500.0	9.4x
Q1'2018	Financial Performance Solutions and Banking Businesses of BasWare	Verdane Capital	\$43.5	2.3x
Q1'2018	Travel Compensation Services Ltd and Delay Repay Sniper Limited	Tracsis plc (AIM:TRCS)	\$9.8	9.8x
Q1'2018	Angoss Software Corp.	Datawatch Corporation (NasdaqCM:DWCH)	\$28.9	2.8x
Q1'2018	Shenzhen Yilian Technology Co., Ltd.	Shenzhen MUP Industrial Co., Ltd.	\$22.6	4.0x
Q1'2018	Lombard Risk Management plc	Vermeg N.V.	\$70.5	1.6x
Q1'2018	Northgate Public Services Limited	NEC Corporation (TSE:6701)	\$642.0	2.9x
	Q1'2018	Q1'2018 WebDAM, Inc.  Q1'2018 Xively, Ltd.  Q1'2018 Unified Messaging Systems ASA  Q1'2018 Fraedom Holdings Limited  Q1'2018 Tryumph21 Co.,Ltd.  Q1'2018 Escher Group Holdings plc  Q1'2018 LiquidHub, Inc.  Q1'2018 e-Builder, Inc.  Financial Performance Solutions and Banking Businesses of BasWare  Q1'2018 Tryumph21 Co.,Ltd.  Q1'2018 Angoss Software Corp.  Q1'2018 Shenzhen Yilian Technology Co., Ltd.  Q1'2018 Lombard Risk Management plc	Q1'2018 WebDAM, Inc.  Q1'2018 Xively, Ltd.  Q1'2018 Unified Messaging Systems ASA Everbridge Holdings Limited  Q1'2018 Fraedom Holdings Limited Visa Inc. (NYSE:V)  Q1'2018 Tryumph21 Co.,Ltd. As One Corp. (TSE:7476)  Q1'2018 Escher Group Holdings plc Hanover Investors Management LLP  Q1'2018 LiquidHub, Inc. Capgemini SE (ENXTPA:CAP)  Q1'2018 e-Builder, Inc. Trimble Inc. (NasdaqGS:TRMB)  Q1'2018 Financial Performance Solutions and Banking Businesses of BasWare  Q1'2018 Travel Compensation Services Ltd and Delay Repay Sniper Limited  Q1'2018 Angoss Software Corp. Datawatch Corporation (NasdaqCM:DWCH)  Q1'2018 Shenzhen Yilian Technology Co., Ltd.  Q1'2018 Lombard Risk Management plc Vermeg N.V.	PeriodTargetBuyerValueQ1'2018WebDAM, Inc.Bynder LLC\$49.1Q1'2018Xively, Ltd.Google LLC\$50.0Q1'2018Unified Messaging Systems ASAEverbridge Holdings Limited\$33.3Q1'2018Fraedom Holdings LimitedVisa Inc. (NYSE:V)\$195.7Q1'2018Tryumph21 Co.,Ltd.As One Corp. (TSE:7476)\$26.4Q1'2018Escher Group Holdings plcHanover Investors Management LLP\$49.1Q1'2018LiquidHub, Inc.Capgemini SE (ENXTPA:CAP)\$500.0Q1'2018e-Builder, Inc.Trimble Inc. (NasdaqGS:TRMB)\$500.0Q1'2018Financial Performance Solutions and Banking Businesses of BasWareVerdane Capital\$43.5Q1'2018Travel Compensation Services Ltd and Delay Repay Sniper LimitedTracsis plc (AIM:TRCS)\$9.8Q1'2018Angoss Software Corp.Datawatch Corporation (NasdaqCM:DWCH)\$28.9Q1'2018Shenzhen Yilian Technology Co., Ltd.Shenzhen MUP Industrial Co., Ltd.\$22.6Q1'2018Lombard Risk Management plcVermeg N.V.\$70.5





#### **EMS / Infrastructure Software**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Dec-18	Q4'2018	Shenzhen Renyong Electronic System Co., Ltd.	Shenzhen Infinova Intelligent Technology Co., Ltd.	\$8.1	-
Dec-18	Q4'2018	Verimatrix, Inc.	Inside Secure S.A. (ENXTPA:INSD)	\$158.0	-
Nov-18	Q4'2018	Ultra Electronics Limited	ADB Safegate BVBA	\$28.5	-
Oct-18	Q4'2018	Red Hat, Inc. (NYSE:RHT)	International Business Machines Corporation (NYSE:IBM)	\$35,710.2	10.8x
Oct-18	Q4'2018	SK infosec Co., Ltd.	SK Telecom Co., Ltd. (KOSE:A017670)	\$313.2	1.7x
Oct-18	Q4'2018	Savision B.V.	Martello Technologies Corporation	\$11.0	3.2x
Oct-18	Q4'2018	MJ Freeway LLC	MTech Acquisition Corp. (NasdaqCM:MTEC)	\$70.0	5.7x
Oct-18	Q4'2018	Imperva, Inc. (NasdaqGS:IMPV)	Thoma Bravo, LLC	\$2,126.1	5.0x
Oct-18	Q4'2018	Rocket Software, Inc.	Bain Capital Private Equity, LP	-	4.4x
Oct-18	Q4'2018	FusionStorm, Inc.	Computacenter plc (LSE:CCC)	\$90.0	0.2x
Sep-18	Q3'2018	Allure Global Solutions, Inc.	Creative Realities, Inc. (OTCPK:CREX)	\$13.8	1.5x
Sep-18	Q3'2018	Datatrics B.V.	MailUp S.p.A. (BIT:MAIL)	\$7.9	22.7x
Sep-18	Q3'2018	Beijing Xunzhong Communication Technology Co., Ltd.	Tatwah Smartech Co., Ltd. (SZSE:002512)	\$178.9	2.3x
Sep-18	Q3'2018	Cinnober Financial Technology AB (publ) (OM:CINN)	Nasdaq Technology AB	\$187.4	4.4x
Sep-18	Q3'2018	Wise lausnir ehf	Advania Holding Hf.	\$9.6	0.7x
Aug-18	Q3'2018	Shift F7 Group Limited	AdEPT Telecom plc (AIM:ADT)	\$10.1	1.6x
Aug-18	Q3'2018	Infonet Bilgi Teknolojileri Ticaret Anonim Sirketi	Cyber Security 1 AB (OM:CYB1)	\$9.8	0.4x
Aug-18	Q3'2018	Sunjesoft Inc.	Kelan Software Systems (Hong Kong) Co., Ltd	\$10.7	5.3x
Jul-18	Q3'2018	Basefarm AS	Orange Business Services SAS	\$409.8	3.5x
Jul-18	Q3'2018	iSYS RTS GmbH	Minda Industries Limited (BSE:532539)	\$5.8	1.1x
Jul-18	Q3'2018	Tangelo Games Corp. (TSXV:GEL)	Third Eye Capital Corporation	\$75.1	2.7x
Jul-18	Q3'2018	CA, Inc. (NasdaqGS:CA)	Broadcom Inc. (NasdaqGS:AVGO)	\$21,777.0	4.3x
Jun-18	Q2'2018	MWR InfoSecurity Limited	F-Secure Oyj (HLSE:FSC1V)	\$139.2	4.9x









## **EMS / Infrastructure Software (continued)**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Apr-18	Q2'2018	Advantio Limited	Cognosec AB (publ) (OM:COGS)	\$14.8	4.3x
Mar-18	Q1'2018	Secure Thingz, Inc.	IAR Systems Group AB (publ) (OM:IAR B)	\$31.0	62.1x
Feb-18	Q1'2018	CSRA Inc.	General Dynamics Corporation (NYSE:GD)	\$9,871.1	2.0x



# IV

#### **Tech Enabled Services**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Dec-18	Q4'2018	Earthport plc (AIM:EPO)	Visa International Service Association	\$244.8	4.5x
Dec-18	Q4'2018	KMD A/S	NEC Corporation (TSE:6701)	\$1,222.6	-
Dec-18	Q4'2018	Sandz Solutions (Singapore) Pte Ltd.	Kronologi Asia Berhad (KLSE:KRONO)	\$18.0	-
Dec-18	Q4'2018	Aerospace Network Security Technology (Shenzhen) Co., Ltd.	Aisino Corporation (SHSE:600271)	\$84.5	-
Dec-18	Q4'2018	Travelport Worldwide Limited (NYSE:TVPT)	Siris Capital Group, LLC; Evergreen Coast Capital Corp.	\$4,350.1	1.6x
Dec-18	Q4'2018	PrimeQ Pty Ltd.	Accenture plc (NYSE:ACN)	\$22.3	-
Dec-18	Q4'2018	GCL System Integration (Shanghai) Energy Technology Development Co., Ltd.	Liaoning Huajun Asset Management Co., Ltd.	\$39.0	-
Dec-18	Q4'2018	Guangdong united Data Holding Group Co., Ltd.	Lontrue Co., Ltd. (SZSE:300175)	\$30.5	-
Dec-18	Q4'2018	Advantech Technologies (IT) Ltd.	One Software Services (1997) Ltd.	\$13.2	-
Nov-18	Q4'2018	Exaxe Limited	Majesco (AMEX:MJCO)	\$13.1	-
Nov-18	Q4'2018	ConvergeOne Holdings, Inc.	CVC Capital Partners Limited	\$1,651.5	1.2x
Oct-18	Q4'2018	SendGrid, Inc. (NYSE:SEND)	Twilio Inc. (NYSE:TWLO)	\$2,014.3	14.3x
Oct-18	Q4'2018	IAI Spólka Akcyjna (WSE:IAI)	MCI Capital TFI SA	\$37.8	7.3x
Oct-18	Q4'2018	The Communicator Corporation Limited	j2 Global, Inc. (NasdaqGS:JCOM)	\$9.9	1.6x
Oct-18	Q4'2018	Hortonworks, Inc. (NasdaqGS:HDP)	Cloudera, Inc. (NYSE:CLDR)	\$2,106.7	6.6x
Oct-18	Q4'2018	ITANDI, Inc.	GA technologies Co.,Ltd (TSE:3491)	\$16.2	13.4x
Sep-18	Q3'2018	Guangdong Ruilian Technology Co., Ltd.	Fujian Boss Software Corp. (SZSE:300525)	\$16.7	4.1x
Sep-18	Q3'2018	i-secure Co, Ltd.	Vintcom Technology Public Company Limited (SET:VCOM)	\$6.0	1.6x
Aug-18	Q3'2018	G-AsiaPacific Sdn Bhd	K-One Technology Berhad (KLSE:K1)	\$5.0	2.0x
Aug-18	Q3'2018	Hangzhou Yowant Network Co., Ltd	Saturday Co., Ltd. (SZSE:002291)	\$281.9	3.7x
Aug-18	Q3'2018	NSS Holding AS	NRC Group ASA (OB:NRC)	\$12.3	0.4x
Aug-18	Q3'2018	Apogee Corporation Limited	HP Inc. (NYSE:HPQ)	\$498.5	1.8x





# IV

## **Tech Enabled Services (continued)**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Jul-18	Q3'2018	MetaPack Limited	Stamps.com Inc. (NasdaqGS:STMP)	\$224.7	4.8x
Jul-18	Q3'2018	Syntel, Inc. (NasdaqGS:SYNT)	Atos SE (ENXTPA:ATO)	\$3,669.2	3.7x
Jul-18	Q3'2018	Charles River Systems, Inc.	State Street Corporation (NYSE:STT)	\$2,600.0	8.4x
Jul-18	Q3'2018	ASHITA-TEAM Co., Ltd.	Vector Inc. (JASDAQ:2656)	\$28.6	2.3x
Jun-18	Q2'2018	Hönigsberg & Düvel Datentechnik GmbH	HCL Technologies Limited (NSEI:HCLTECH)	\$34.8	0.4x
Jun-18	Q2'2018	Web.com Group, Inc. (NasdaqGS:WEB)	Siris Capital Group, LLC	\$1,864.3	2.5x
Jun-18	Q2'2018	Time Channel Information Technology Co.,Ltd.	Zhong Fu Tong Group Co., Ltd. (SZSE:300560)	\$57.0	5.0x
Jun-18	Q2'2018	Guangzhou Ruiling Network Technology Co., Ltd	Honz Pharmaceutical Co., Ltd. (SZSE:300086)	\$50.0	1.6x
May-18	Q2'2018	IESA Limited	Electrocomponents plc (LSE:ECM)	\$117.7	0.4x
May-18	Q2'2018	Card Processing Businesses in Seven Countries of First Data Corporation	SIA S.p.A.	\$439.7	3.8x
May-18	Q2'2018	Coasin Chile S.A.	Logicalis Latin America	\$20.2	0.2x
Apr-18	Q2'2018	Digitas Limited	Madison Future Games Limited	\$117.6	76.2x
Apr-18	Q2'2018	Mattersight Corporation (NasdaqGM:MATR)	NICE Systems Inc.	\$112.9	2.3x
Apr-18	Q2'2018	Seisma Pty Ltd	PS&C Limited (ASX:PSZ)	\$9.7	0.6x
Apr-18	Q2'2018	RMG Networks Holding Corporation (NasdaqCM:RMGN)	SCG Digital, LLC	\$15.4	0.4x
Apr-18	Q2'2018	Jiangsu Lanchuang Intelligent Technology Co., Ltd.	Ningbo BaoSi Energy Equipment Co., Ltd. (SZSE:300441)	\$74.8	6.1x
Apr-18	Q2'2018	Southport Services Group, LLC	Perficient, Inc. (NasdaqGS:PRFT)	\$21.4	1.3x
Mar-18	Q1'2018	Element Solutions LLC	Hinduja Global Solutions UK limited	\$8.8	1.0x
Mar-18	Q1'2018	TNT Business Solutions Division of TNT UK Limited	Restore plc (AIM:RST)	\$125.3	3.8x
Mar-18	Q1'2018	Xiangjiang Technology Co., Ltd.	Shanghai Chengdi Construction Corporation Ltd (SHSE:603887)	\$369.7	2.6x
Mar-18	Q1'2018	Cartesian, Inc. (OTCPK:CRTN)	Blackstreet Capital Management, LLC	\$10.6	0.2x
Mar-18	Q1'2018	Vipera Plc (AIM:VIP)	Sella Open Fintech Platform S.P.A.	\$33.2	2.7x







## **Tech Enabled Services (continued)**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Mar-18	Q1'2018	Cynosure, Inc	Zensar Technologies, Inc.	\$33.0	1.7x
Mar-18	Q1'2018	Helius Technologies Pte Ltd.	TechnoPro Holdings, Inc. (TSE:6028)	\$47.6	1.0x
Mar-18	Q1'2018	FIS System	DB Inc. (KOSE:A012030)	\$88.8	2.0x
Mar-18	Q1'2018	Wipro Data Centre and Cloud Services, Inc.	Ensono, LP	\$405.0	1.7x
Feb-18	Q1'2018	Financière Soft SAS	Computer Task Group IT Solutions S.A.	\$16.9	0.5x
Feb-18	Q1'2018	Asian Link Co., Ltd.	LAC Co., Ltd. (JASDAQ:3857)	\$6.9	0.6x
Jan-18	Q1'2018	SingleHop, LLC	Internap Corporation (NasdaqGS:INAP)	\$132.0	2.8x
Jan-18	Q1'2018	Bulletproof Group Limited (ASX:BPF)	Australian Centre For Advanced Computing And Communication	\$21.7	0.6x
Jan-18	Q1'2018	Blaynmail Co., Ltd.	Rakus Co., Ltd. (TSE:3923)	\$14.0	2.4x
Jan-18	Q1'2018	Blackhawk Network Holdings, Inc. (NasdaqGS:HAWK)	Silver Lake; P2 Capital Partners, LLC	\$3,019.2	1.4x
Jan-18	Q1'2018	Probizmo CO.,LTD	TechnoPro, Inc.	\$15.8	1.4x
Jan-18	Q1'2018	DST Systems, Inc.	SS&C Technologies Holdings, Inc. (NasdaqGS:SSNC)	\$5,671.1	2.6x
Jan-18	Q1'2018	Eagle International Institute, Inc.	NIIT (USA), Inc.	\$8.1	0.8x
Jan-18	Q1'2018	Lotte Data Communication Company	LOTTE Corporation (KOSE:A004990)	\$683.4	0.9x



# IV

## **Online & Digital**

Date Announced	Period	Target E	Buyer	Enterprise Value	Revenue Multiple
Oct-18	Q4'2018	Fujian Chenghe Century Industrial Co., Ltd.	Chengzhi Shareholding Co., Ltd. (SZSE:000990)	\$222.6	25.6x
Oct-18	Q4'2018	Beijing Right Service Tech. Co., Ltd.	Brilliance Technology Co., Ltd. (SZSE:300542)	\$23.4	9.9x
Oct-18	Q4'2018	Xintongda Intelligent Technology Co., Ltd.	Hongrun Construction Group Co., Ltd. (SZSE:002062)	\$39.1	0.9x
Oct-18	Q4'2018	Valiance Partners, Inc.	NNIT A/S (CPSE:NNIT); NNIT Inc.	\$35.7	3.6x
Oct-18	Q4'2018	Beijing Lanxum/Beijing Xiangwangrui/Beijing Lanxum Information/Beijing Congxing/Shanghai Youwang/Gua	Beijing Chenguang Rongxin Enterprise Management Center (Limited Partnership)	\$73.6	1.1x
Aug-18	Q3'2018	Oryx Gaming International LLC	AA Acquisition Group Inc.	\$8.7	1.3x
Aug-18	Q3'2018	Wazee Digital, Inc.	Veritone, Inc. (NasdaqGM:VERI)	\$15.0	0.8x
Jul-18	Q3'2018	10bis.Co.II Ltd.	Takeaway.com N.V. (ENXTAM:TKWY)	\$157.3	10.2x
Jul-18	Q3'2018	FFG FINANZCHECK Finanzportale GmbH	Scout24 AG (DB:G24)	\$333.1	8.1x
Jul-18	Q3'2018	KeyDrive S.A.	CentralNic Group Plc (AIM:CNIC)	\$55.0	0.9x
Jul-18	Q3'2018	TapInfluence, Inc.	IZEA, Inc. (NasdaqCM:IZEA)	\$7.1	1.2x
Jul-18	Q3'2018	LifeWorks Corporation Ltd.	Morneau Shepell Ltd	\$326.2	3.9x
Jul-18	Q3'2018	Comas S.r.l./Webber S.r.l.	Innolva S.P.A.	\$10.9	2.5x
Jun-18	Q2'2018	Hainan Hong Kong and Macao Information Industry Co., Ltd.	Shenzhen Quanxinhao Co., Ltd. (SZSE:000007)	\$179.7	2.7x
Jun-18	Q2'2018	GET Holdings Limited (SEHK:8100)	-	\$14.4	0.7x
May-18	Q2'2018	Webpro AS	ZetaDisplay AB (OM:ZETA)	\$6.1	2.1x
May-18	Q2'2018	Cybird Co., Ltd.	Aeria Inc. (JASDAQ:3758)	\$64.0	0.7x
May-18	Q2'2018	Magento, Inc.	Adobe Systems Incorporated (NasdaqGS:ADBE)	\$1,680.0	11.2x
May-18	Q2'2018	iZettle AB	PayPal (NasdaqGS:PYPL)	\$2,200.0	19.8x
May-18	Q2'2018	Linkable Inc.	AJ Rent A Car Co., Ltd. (KOSE:A068400)	\$16.2	20.1x
May-18	Q2'2018	Cyanide SA	BigBen Interactive (ENXTPA:BIG)	\$25.3	3.5x
May-18	Q2'2018	ZPG Plc (LSE:ZPG)	Silver Lake	\$3,377.4	8.8x
May-18	Q2'2018	Mitula Group Limited (ASX:MUA)	Lifull Co., Ltd. (TSE:2120)	\$128.3	5.1x







## **Online & Digital (continued)**

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
May-18	Q2'2018	Shenzhen Whale Banner World Network Technology Co., Ltd.	Keda Group Co., Ltd. (SHSE:600986)	\$142.8	5.4x
May-18	Q2'2018	ICM Registry, LLC	Minds + Machines Group Limited (AIM:MMX)	\$40.7	5.6x
May-18	Q2'2018	Findify AB	Namaste Technologies Inc. (TSXV:N)	\$10.8	21.4x
Apr-18	Q2'2018	Beijing Icoou Technology Co., Ltd	Shenzhen Hifuture Electric Co., Ltd (SZSE:002168)	\$301.1	15.0x
Apr-18	Q2'2018	FIO SYSTEMS AG	Hypoport AG (DB:HYQ)	\$84.7	9.9x
Apr-18	Q2'2018	Tata Interactive Systems	MPS Limited (BSE:532440)	\$12.0	0.6x
Apr-18	Q2'2018	Sanzhi Xiaoxiong Technology Limited	Madison Future Games Limited	\$140.1	8.1x
Apr-18	Q2'2018	Edmodo, Inc.	Best Assistant Education Online Limited	\$137.5	136.3x
Apr-18	Q2'2018	CM2.Com, Inc.	Zix Corporation (NasdaqGS:ZIXI)	\$16.1	5.4x
Apr-18	Q2'2018	Shenzhen Maiyou Interactive Technology Co., Ltd.	China Media Group (SZSE:000793)	\$58.0	11.1x
Mar-18	Q1,2018	eTouch Systems Corp.	Virtusa Corporation (NasdaqGS:VRTU)	\$115.4	1.3x
Mar-18	Q1,2018	NameSilo, LLC	Brisio Innovations Inc. (OTCPK:NTCE.F)	\$9.5	0.9x
Mar-18	Q1,2018	CommerceHub, Inc.	GTCR, LLC; Sycamore Partners	\$1,055.9	9.5x
Feb-18	Q1,2018	Pipeworks Inc	St. Cloud Capital, LLC; DGB Investments; Northern Pacific Group	\$18.2	1.4x
Feb-18	Q1,2018	Dealer Inspire, Inc. and Launch Digital Marketing, LLC	Cars.com Inc. (NYSE:CARS)	\$205.0	5.0x
Jan-18	Q1,2018	Callidus Software Inc.	SAP America, Inc.	\$2,425.9	9.6x
Jan-18	Q1,2018	auFeminin.com (ENXTPA:FEM)	Télévision Française 1 SA (ENXTPA:TFI)	\$378.9	2.7x
Jan-18	Q1,2018	Paymark Limited	Ingenico Group - GCS (ENXTPA:ING)	\$120.4	2.2x
Jan-18	Q1,2018	Gambling related informational websites of Good Game Ltd	XLMedia PLC (AlM:XLM)	\$18.4	9.0x
Jan-18	Q1,2018	HubPages Inc.	theMaven, Inc. (OTCPK:MVEN)	\$10.0	2.0x
Jan-18	Q1,2018	Real Estate 114 Inc.	Hyundai Development Co Engineering & Construction (KOSE:A012630)	\$64.1	4.5x











#### Infosys Acquires Fluido, **Largest Salesforce Consulting Partner in the Nordics**

#### **Transaction Summary**

- Pharus served as the exclusive financial advisor to Fluido Ov in their sale to Infosvs Limited (NSEI:INFY).
- · Executing on its strategy to help clients navigate the next in their digital transformation journey, this acquisition strengthens Infosys' position as a leading Salesforce enterprise cloud services provider, and enhances its ability to provide clients an unparalleled cloud-first transformation.
- Pharus was mandated by Fluido's shareholders to execute a comprehensive process, that involved identifying and approaching a targeted set of strategic and financial buyers, spearheading marketing and due-diligence, and negotiating the terms of the transaction.
- Infosys acquired Fluido for all-cash purchase price of up to €65 million (\$76 million), including earnout and bonuses.

#### **Key Profiles**

- · Fluido is the leading Salesforce Consultancy and Partner in the Nordics. Fluido offers consulting, development and integration services tailored for customer needs to make customer data meaningful in the moments that matter the most. Fluido's headquarters are in Espoo, Finland, with additional offices in Denmark, Norway, Slovakia and Sweden.
- Infosys is a global leader in next-generation digital services and consulting. They provides business information technology services, including application development and maintenance, independent validation, infrastructure management, and business process management services, as well as engineering services, such as engineering and life cycle solutions; and consulting and systems integration services comprising consulting, enterprise solutions, systems integration, and advanced technologies.
- Infosys was founded in 1981 and is headquartered in Bengaluru, India.





The undersigned acted as the exclusive financial advisor to Fluido Oy in connection with the transaction

PHARUS

Kai Mäkelä, Chief Executive Officer of Fluido, said about Pharus, "The Pharus team is amazing. They were by our side through every step of the process, providing keen insights, thorough preparation and a depth of relationships in our market. Most important the Pharus team worked tirelessly for the best interests of our shareholders and employees. We are confident that the transaction with Infosys provides our shareholders with the greatest value combined with the best platform for our continued growth. THANKS TO THE PHARUS TEAM!!"







### **Domino Media Group Acquired by Multiply Media**

#### **Transaction Summary**

- · Pharus served as the exclusive strategic advisor to Domino Media Group, Inc. in its transaction with Multiply Media. Transaction terms were not disclosed.
- · With this transaction, Multiply reinforces its focus on creating and cultivating enduring, digital-first brands in its sizeable lifestyle categories. Domino joins Multiply's family of brands, which includes FashionBeans, HealthyWay, and Urbo. The Domino brand stands to expand its core audience with additional support centered on analytics and technology.
- Pharus was retained by the shareholders of Domino (including Launch Capital and iNovia) due to our extensive knowledge of and M&A experience in the digital media and eCommerce sectors.
- · In its role as an advisor, Pharus was mandated to execute a comprehensive M&A process, that involved identifying and approaching a targeted set of strategic buyers, spearheading marketing activities, leading due-diligence, and negotiating transaction terms.

#### **Key Profiles**

- · Domino is a Millennial-focused women's lifestyle media and eCommerce company with roots in home, design, DIY, and entertaining. Established in 2005, the company quickly solidified its position as an editorial leader in the home décor space through its publications. Domino relaunched in 2013, introducing their expanded content across print, digital and commerce platforms.
- Multiply is a premium digital publisher fluent in technology and analytics platforms built to support and invest in editorial leaders in high value consumercentric content categories. The Company operates a number of notable digital properties including FashionBeans, HealthyWay, and Urbo.



The undersigned acted as the exclusive financial advisor to Domino Media Group, Inc. in connection with the transaction

PHARUS









#### Idean Enterprises OY Acquired By Capgemini

#### **Transaction Summary**

- Pharus served as the exclusive financial advisor to Idean Enterprises Oy in its sale to Capgemini. Transaction terms were not disclosed.
- · This transaction will reinforce Capgemini's usercentered and digital-first experience design and strategy services, particularly in North America, and extend its network of Digital studios. This transaction is geared to meet growing customer demand for the Group's end to end digital services.
- The shareholders of Idean retained Pharus due to our knowledge of the design and strategy services sector, as well as our M&A advisory experience with digital, innovation and cloud services businesses. We executed a comprehensive M&A process that involved identifying and approaching a broad set of strategic buyers, spearheading marketing activities, leading due-diligence, and negotiating transaction terms.

#### **Key Profiles**

- · Idean Enterprises, a fast-growing digital strategy and experience design consultancy focuses, primarily on digital user experience (UX), customer experience (CX), and digital strategy. Their client list extends from disruptive Bay Area start-ups, global tech leaders to prominent brands in automotive and consumer electronics, looking to reinvent themselves for the digital era. Clients include LG, Mercedes-Benz, Sony, Volkswagen, 23andMe, Airbus, Cole Haan, Ericsson, IBM, Intel, and Kesko.
- · Capgemini provides consulting, technology, and outsourcing services. Its consulting services include strategy and transformation, finance and technology transformation, human resources consulting, supply chain management, solutions environment, and innovation. It serves manufacturing, retail, consumer products, distribution and transportation, aerospace and defense, and financial services industries across the world.



The undersigned acted as the exclusive financial advisor to Idean Enterprises Oy in connection with the transaction

PHARUS

#### Risto Lähdesmäki, Chief Executive Officer of Idean, said about Pharus:

"These guys just rock! I could not be happier with having chosen Pharus as our investment banking advisor. Since I knew this would be once-in-a-lifetime deal for me and whole team, I wanted to set multiple records and Pharus accepted the challenge - and boy we set many. At every step Pharus added immense value and astutely guided us to the most optimal outcome for the shareholders and for everyone in Idean.

I'm very pleased with their experience, dedication, and diligence - working hard 24/7 as one team, we were able to get a complicated deal closed in a compressed time frame. Pharus was with us right from beginning to end to ensure a successful process. The way they guided me and the team with a human touch was just amazing -I truly felt they had our back all the time. We could not have achieved these results without Pharus - a deal that worked like a dream for all the stakeholders."







#### Cappemini US Acquires Fahrenheit 212, a Leading Innovation and Design Consultancy

#### **Transaction Summary**

- Pharus served as the exclusive financial advisor to Fahrenheit 212 LLC in its sale to Capgemini. Transaction terms were not disclosed.
- This transaction will augment the capabilities of Capgemini's global strategy and transformation consulting organization, Capgemini Consulting, to provide new innovation, business transformation and digital customer experiences solutions. This bolt on acquisition fits into Capgemini's digital innovation growth strategy.
- The shareholders of Fahrenheit 212 retained Pharus due to our knowledge of the innovation services sector, as well as out M&A advisory experience with digital and cloud services businesses. We executed a comprehensive M&A process that involved identifying and approaching a broad set of strategic and private equity buyers, spearheading marketing activities, leading duediligence, and negotiating transaction terms.

#### **Key Profiles**

- Fahrenheit 212, an innovation and design consultancy, focuses on defining innovation strategies and develops new products, services, and experiences that create sustainable, profitable growth for global clients such as The Coca-Cola Company, Marriott, and Citi.
- · Capgemini provides consulting, technology, and outsourcing services. Its consulting services include strategy and transformation, finance and technology transformation, human resources consulting, supply chain management, solutions environment, and innovation. It serves manufacturing, retail, consumer products, distribution and transportation, aerospace and defense, and financial services industries across the world.



The undersigned acted as the exclusive financial advisor to Fahrenheit 212 LLC in connection with the transaction

HARUS







#### SPS Commerce (NasdaqGS:SPSC) Acquires Toolbox Solutions, a Leading Provider of Retail Solutions in North America

#### **Transaction Summary**

- Pharus served as the exclusive financial advisor to Toolbox Solutions, Inc. in their sale to SPS Commerce, Inc. (NasdagGS:SPSC)
- The acquisition serves to strengthen SPS Commerce's retail analytics portfolio, and further broadens their network of more than 60,000 organizations in 60 countries to include leading retailers and CPG suppliers in the North American convenience, grocery, and drug store segments.
- Pharus was mandated by Toolbox Solutions' shareholders to execute a comprehensive process, that involved identifying and approaching a targeted set of strategic and financial buyers. spearheading marketing and due-diligence, and negotiating the terms of the transaction.
- SPS Commerce acquired all of the shares of ToolBox Solutions for approximately \$18.4 million in cash and \$4.5 million in stock which represents approximately 65,000 shares.

#### **Key Profiles**

- ToolBox Solutions is a leading provider of point-ofsale analytics, retail and loyalty software solutions, and category management services to retailers and consumer packaged goods suppliers across the US and Canada. The company has established relationships with many leading retailers and CPG suppliers in the convenience, grocery and drug store segments. The employees will continue to be based in Toronto.
- SPS Commerce provides cloud-based supply chain management solutions worldwide through their platform which improves the way suppliers. retailers, distributors, and other customers manage and fulfill orders. The company is headquartered in Minneapolis.



has been acquired by



The undersigned acted as the exclusive financial advisor to Toolbox Solutions, Inc. in connection with the transaction

PHARUS







# Ziff Davis Acquires Offers.com, a Leader in the Digital Coupon and Deal Space

#### **Transaction Summary**

- Pharus served as the exclusive financial advisor to Offers.com, LLC in their sale to Ziff Davis, LLC, a subsidiary of j2 Global (NasdaqGS:JCOM).
- The acquisition further expands Ziff Davis' portfolio of market leading digital properties, and strengthens their position in the growing online deals and offers segment.
- Pharus was mandated by Offers.com's shareholders to execute a comprehensive process, that involved identifying and approaching a targeted set of strategic and financial buyers, spearheading marketing and due-diligence, and negotiating the terms of the transaction.
- · Transaction terms were not disclosed.
- Pharus had also served as the exclusive financial advisor to Offers.com in 2010, when it received \$7M in a round of funding from Susquehanna Growth Equity.

#### **Key Profiles**

- Offers.com operates a leading online marketplace that connects millions of consumers with coupons, promo codes, deals, and discounts from thousands of leading merchants. Offers.com is headquartered in Austin, TX.
- Ziff Davis is a digital media company that engages in the digital publishing of content in gaming, technology, and men's lifestyle categories. It operates PCMag.com, IGN.com, and AskMen.com. Ziff Davis is headquartered in New York, NY.
- Ziff Davis is owned by J2 Global. J2 Global operates through two segments:
  - Business Cloud Services Offers cloud services to sole proprietors, small to mediumsized businesses and enterprises, and government organizations; provides eFax, KeepltSafe, LiveDrive, eVoice and Onebox.
  - Digital Media Operates a portfolio of Web properties, including PCMag.com, IGN.com, Speedtest.net, AskMen.com, and TechBargains.com.





The undersigned acted as the exclusive financial advisor to Offers.com, LLC in connection with the transaction

PHARUS











**Innovation Services** 



Retail **Solutions** 



Online Marketing



**Digital Agency** 



**Digital Revenue** Management



**Fuel Payment** & Coupon



**Education Technology** 



**Broadcast Technology** 



IT **Services** 



Social **TV Software** 



Industrial **Software** 



Retail **Software** 



# Pharus overview



## Pharus overview





#### Introduction to Pharus

We are committed to providing clients a high level of attention, independent and objective advice, and creative solutions in challenging environments



#### Global Reach / Cross-border **Expertise**

New York headquarters, with offices and affiliates in major technology hubs across the globe

#### Extensive Advisory & Capital Market Capabilities

Mergers & Acquisitions Valuation & Fairness Opinions Corporate Advisory Private Placements Principal Investments Recapitalizations

#### Industry Specialization & Experience

Digital Media & Advertising Software / SaaS **Education Technology** Digital & Creative Services Performance Marketing Data & Analytics

Industrial Technology Consumer

#### Strong Network of Key Relationships

#### 110 +

Successful **Transactions** Completed

#### 900 +

Strategic Buyer Relationships

#### 1,500+

Venture Capital & Private Equity Relationships

#### **Contact Information**

#### Michael E. Goodman

Co-Founder & Sr. Managing Director 212.904.0102 mgoodman@pharus.com

#### Kenneth M. Harrell

Co-Founder & Sr. Managing Director 212.904.0101 kharrell@pharus.com

#### **New York Headquarters**

551 Fifth Avenue 11th Floor | New York, NY 10176 | 212.904.0100

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