



January  
2019

# The Lighthouse

Software  
Online & Digital  
Tech Enabled Business Services

# Pharus Observations

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## Payments Companies Generating Substantial Valuations in Early 2019

While public markets saw a significant cutback in IPOs during January, the government shutdown had limited effects upon the M&A activity. Tech-enabled services, specifically payments companies, saw several deals of significant value, including the landmark acquisition of First Data by competitor Fiserv. The fintech space, in particular payments and processing, has seen a number of deals in the billions of dollars over the last 12 months. The shift towards streamlined and more cost-effective transaction processing is clearly being noticed by buyers, some of whom represent the old guard in the space.

In late January, **Paygent**, a payment collection company geared towards consumer facing e-commerce companies, was acquired by business information technology company **NTT Data** (TSE:9613) for \$57.5 million.

Since December, credit card powerhouses, **Visa** and **Mastercard**, have been engaged in a bidding war over **Earthport**, a London-based payment services provider. As of early February the highest bid has come in at \$319.8 million from Visa, which now has the backing of the Earthport board.

Earlier in 2018, mobile payments provider **iZettle**, was acquired by digital payments and technology platform **PayPal** (NasdaqGS:PYPL) for \$2.2 billion.

Also, in December of last year, **Travelport Worldwide** (NYSE:TVPT), a travel commerce platform and digital payments provider, was acquired by an investor group led by activist fund manager **Elliot Management** for \$4.4 billion.

Finally, payments and fintech behemoth **Fiserv** (NasdaqGS:FISV) acquired its rival **First Data** (NYSE:FDC) in a megadeal valued at \$41.9 billion dollars; the largest deal in the space to date.

The abundance of capital flowing into the digital payments processing and payment-related space signals that investors are taking note of this growing threat to the established system and view the space as poised for continued growth.



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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](mailto:pchae@pharus.com).

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# I Capital market trends

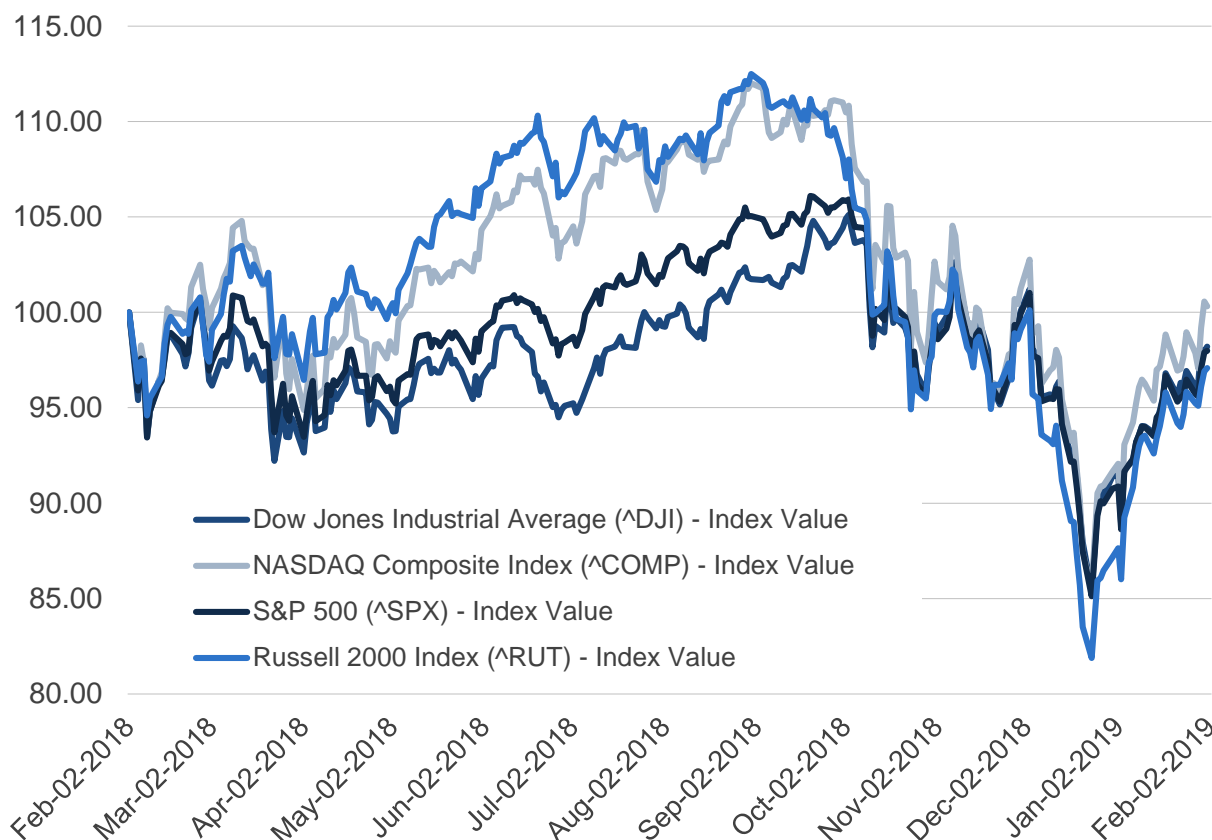


# Capital market trends



## Relative Performance of Major Indices

Through January 31, 2019 (Base = 100, 2/1/2019)



### Change %

Index	As of 31-Jan-19	1 Year	3 Months	1 Month
<b>Dow Jones</b>	24,999.67	-2.04%	-0.82%	7.36%
<b>Nasdaq</b>	7,281.74	0.32%	-1.27%	8.97%
<b>S&amp;P 500</b>	2,704.10	-2.01%	-0.61%	7.83%
<b>Russell 2000</b>	1,499.42	-3.09%	-2.97%	10.8%





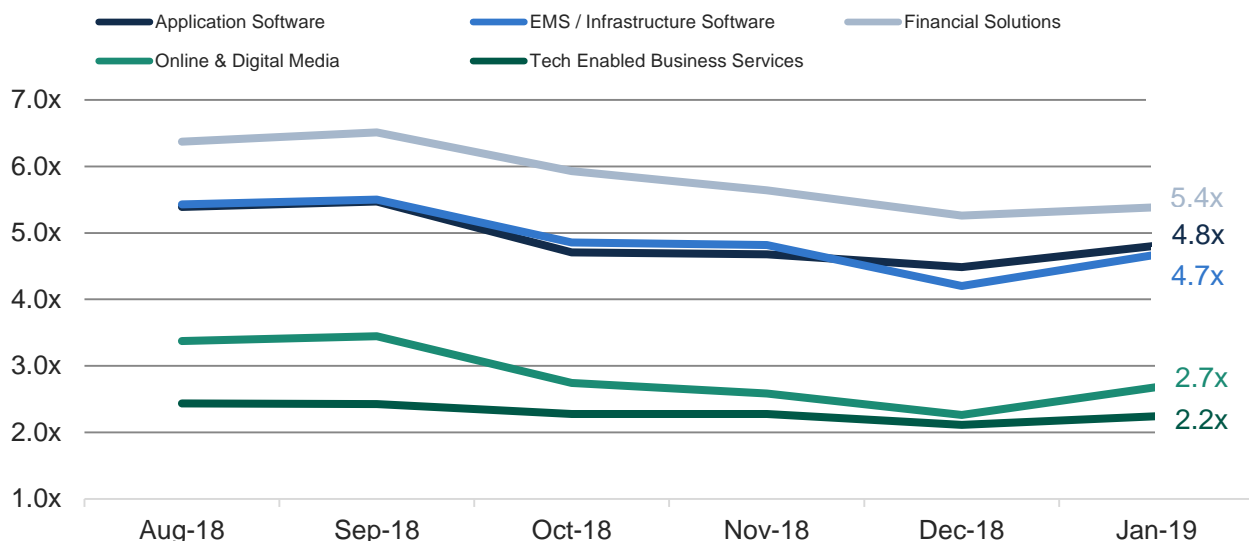
Public  
market  
valuations



# Public market valuations



## Historical Median TEV / Revenue Multiples



	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<b>Application Software</b>						
Customer Relationship Management (CRM) & Customer Engagement	8.0x	8.8x	6.8x	5.5x	7.3x	7.3x
Accounting & Enterprise Resource Planning (ERP)	5.3x	5.5x	4.8x	4.7x	4.4x	4.8x
Supply Chain Management (SCM) & Logistics	6.6x	6.4x	5.7x	5.5x	5.0x	5.6x
HR & Workforce Management	7.3x	7.9x	7.1x	7.4x	6.5x	7.6x
Education Technology	3.3x	3.1x	2.6x	2.0x	2.0x	2.4x
Industrial & Automation Software	3.0x	2.6x	2.4x	2.1x	2.1x	2.3x
Business Intelligence & Data	5.4x	5.6x	4.9x	5.7x	5.4x	6.1x
Design & Engineering Software	7.5x	7.5x	6.8x	6.0x	5.8x	6.4x
<b>EMS / Infrastructure Software</b>						
Security Software	7.7x	7.0x	5.9x	5.5x	5.1x	6.0x
System and Network Management Software	3.8x	3.9x	3.3x	3.2x	3.2x	3.6x
Platform / OS	5.5x	5.4x	4.8x	5.1x	4.8x	4.9x
<b>Financial Solutions</b>						
Banking Solutions	7.9x	8.0x	7.5x	6.8x	6.2x	6.5x
Capital Market & Investment Solutions	6.9x	6.6x	6.6x	5.9x	5.8x	6.3x
Consumer Data & Analytics	6.0x	6.1x	5.6x	5.4x	5.4x	5.4x
Payment Processing	4.4x	4.3x	4.0x	4.1x	4.0x	4.4x
Insurance Solutions	7.0x	7.0x	5.4x	4.3x	4.0x	5.0x
<b>Online &amp; Digital Media</b>						
Digital Advertising & Marketing	2.0x	1.6x	1.4x	1.3x	1.0x	1.6x
Digital Media & Video	5.9x	5.9x	5.4x	5.3x	4.8x	7.2x
Digital Advertising Agencies & Service Providers	1.3x	1.3x	1.3x	1.2x	1.2x	1.3x
Online Retail & Marketplaces	3.4x	3.6x	2.5x	2.6x	2.2x	2.3x
Digital Gaming	3.2x	3.1x	2.8x	2.7x	2.3x	2.4x
Social Media	5.7x	5.8x	4.8x	4.9x	4.6x	4.6x
Digital Commerce Solutions	1.3x	1.5x	1.4x	1.4x	1.2x	1.4x
Other Digital Companies	4.6x	4.5x	4.4x	4.3x	3.8x	4.3x
<b>Tech Enabled Business Services</b>						
IT Services, Integration & Consulting	1.6x	1.6x	1.6x	1.3x	1.3x	1.5x
Business Process Management (BPM)	5.2x	5.2x	5.3x	5.5x	5.5x	5.6x
Data Center Hosting & Services	6.3x	6.3x	5.4x	5.1x	4.6x	5.4x
Call Center	0.8x	0.8x	0.8x	0.8x	0.8x	0.9x



# Public market valuations



## Current & Forward Market Multiples

	Median TEV/Revenue		Median TEV/EBITDA	
	LTM	NTM	LTM	NTM
<b>Application Software</b>				
Customer Relationship Management (CRM) & Customer Engagement	7.3x	5.9x	45.7x	42.2x
Accounting & Enterprise Resource Planning (ERP)	5.5x	4.6x	30.0x	18.7x
Supply Chain Management (SCM) & Logistics	5.6x	5.3x	27.9x	23.3x
HR & Workforce Management	7.6x	6.5x	38.4x	29.3x
Education Technology	2.4x	1.7x	21.2x	15.2x
Industrial & Automation Software	2.0x	2.0x	12.6x	12.9x
Business Intelligence & Data	6.4x	5.2x	29.7x	22.8x
Design & Engineering Software	6.6x	5.2x	26.6x	19.3x
<b>EMS / Infrastructure Software</b>				
Security Software	7.1x	6.0x	16.9x	23.2x
System and Network Management Software	3.9x	3.4x	22.3x	13.8x
Platform / OS	4.9x	4.7x	15.3x	13.2x
<b>Financial Solutions</b>				
Banking Solutions	6.5x	6.2x	22.1x	15.9x
Capital Market & Investment Solutions	6.3x	5.8x	20.9x	16.8x
Consumer Data & Analytics	5.4x	5.2x	18.0x	14.0x
Payment Processing	4.4x	4.2x	12.3x	12.9x
Insurance Solutions	5.0x		15.1x	15.8x
<b>Online &amp; Digital Media</b>				
Digital Advertising & Marketing	1.9x	1.6x	12.1x	13.7x
Digital Media & Video	6.9x	4.0x	20.6x	24.1x
Digital Advertising Agencies & Service Providers	1.3x	1.2x	9.0x	7.2x
Online Retail & Marketplaces	2.7x	1.8x	22.9x	15.8x
Digital Gaming	2.4x	2.3x	13.1x	8.9x
Social Media	4.6x	3.5x	26.4x	12.6x
Digital Commerce Solutions	1.4x	1.4x	8.6x	9.2x
Other Digital Companies	4.7x	3.6x	22.3x	17.5x
<b>Tech Enabled Business Services</b>				
IT Services, Integration & Consulting	1.6x	1.4x	11.7x	10.1x
Business Process Management (BPM)	5.6x	4.6x	16.3x	11.9x
Data Center Hosting & Services	6.9x	5.9x	18.7x	16.4x
Call Center	0.9x	0.9x	8.5x	7.0x

	Medians			
Application Software	5.3x	4.6x	19.8x	20.4x
EMS / Infrastructure Software	5.7x	5.2x	16.4x	15.2x
Financial Solutions	5.4x	5.1x	18.0x	15.0x
Online & Digital Media	2.9x	2.6x	15.3x	12.1x
Tech Enabled Business Services	2.2x	2.1x	13.1x	11.0x





# Public market valuations



## Application Software

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Customer Relationship Management (CRM) &amp; Customer Engagement</b>							
Five9	NasdaqGM:FIVN	\$2,932	\$3,005	12.2x	10.4x	NM	62.1x
LivePerson	NasdaqGS:LPSN	\$1,422	\$1,488	5.9x	5.2x	NM	82.4x
MINDBODY	NasdaqGM:MB	\$1,675	\$1,751	7.3x	5.9x	NM	NM
NICE Systems	TASE:NICE	\$6,812	\$6,807	4.8x	4.4x	19.3x	14.9x
Pegasystems	NasdaqGS:PEGA	\$4,224	\$4,430	5.0x	4.5x	NM	63.0x
Salesforce.com	NYSE:CRM	\$117,198	\$116,257	9.4x	7.7x	99.7x	31.1x
SDL	LSE:SDL	\$626	\$655	1.6x	1.4x	16.4x	13.0x
Veeva	NYSE:VEEV	\$14,795	\$15,847	18.2x	15.2x	72.0x	42.2x
Zendesk	NYSE:ZEN	\$7,230	\$7,229	13.2x	9.9x	NM	NM
<b>Median</b>				<b>7.3x</b>	<b>5.9x</b>	<b>45.7x</b>	<b>42.2x</b>
<b>Accounting &amp; Enterprise Resource Planning (ERP)</b>							
Avalara, Inc.	NYSE:AVLR	\$2,513	\$2,652	9.9x	8.2x	NM	NM
BasWare	HLSE:BAS1V	\$620	\$601	3.8x	3.6x	59.7x	NM
Blackline	NasdaqGS:BL	\$2,475	\$2,600	11.4x	9.3x	NM	NM
Coupa Software	NasdaqGS:COUP	\$4,935	\$5,169	20.6x	16.6x	NM	NM
Intuit	NasdaqGS:INTU	\$55,106	\$56,013	9.1x	8.2x	31.5x	22.4x
Kingdee International	SEHK:268	\$2,845	\$3,163	7.5x	6.1x	56.1x	23.0x
Model N	NYSE:MODN	\$455	\$458	2.9x	3.2x	NM	40.7x
Oracle	NYSE:ORCL	\$189,656	\$180,271	4.8x	4.7x	11.9x	10.2x
QAD	NasdaqGS:QADA	\$667	\$791	2.0x	1.9x	81.4x	30.8x
Sage	LSE:SGE	\$9,781	\$8,929	4.0x	3.8x	15.2x	14.9x
SAP	DB:SAP	\$126,632	\$123,598	4.5x	4.1x	14.4x	11.9x
Upland Software	NasdaqGM:UPLD	\$817	\$675	6.2x	4.4x	28.5x	12.1x
<b>Median</b>				<b>5.5x</b>	<b>4.6x</b>	<b>30.0x</b>	<b>18.7x</b>
<b>Supply Chain Management (SCM) &amp; Logistics</b>							
Amber Road	NYSE:AMBR	\$254	\$242	3.0x	2.9x	NM	45.5x
Descartes Systems Group	TSX:DSG	\$2,406	\$2,388	9.0x	7.6x	27.9x	21.6x
Manhattan Associates	NasdaqGS:MANH	\$3,095	\$3,189	5.5x	5.5x	20.4x	23.5x
SPS Commerce	NasdaqGS:SPSC	\$1,377	\$1,566	5.7x	5.2x	46.3x	23.2x
<b>Median</b>				<b>5.6x</b>	<b>5.3x</b>	<b>27.9x</b>	<b>23.3x</b>



# Public market valuations



## Application Software (continued)

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>HR &amp; Workforce Management</b>							
Atlassian Corporation	NasdaqGS:TEAM	\$22,626	\$23,434	22.0x	16.7x	NM	63.5x
Benefit Focus	NasdaqGM:BNFT	\$1,867	\$1,788	6.9x	6.5x	NM	92.5x
CastLight Health	NYSE:CSLT	\$352	\$415	2.3x	2.2x	NM	84.7x
Ceridian HCM	NYSE:CDAY	\$6,132	\$5,648	7.6x	7.8x	55.2x	36.7x
Cornerstone OnDemand	NasdaqGM:CSOD	\$3,258	\$3,361	6.1x	5.9x	NM	27.0x
Dice Holdings	NYSE:DHX	\$116	\$104	0.7x	0.8x	4.9x	3.6x
Paycom	NYSE:PAYC	\$8,639	\$8,689	16.3x	13.0x	64.0x	31.5x
Paylocity	NasdaqGS:PCTY	\$3,665	\$3,750	9.2x	7.7x	NM	27.0x
TriNet Group	NYSE:TNET	\$3,359	\$3,216	1.0x	3.7x	11.8x	9.7x
Ultimate Software	NasdaqGS:ULTI	\$8,414	\$8,539	7.7x	6.5x	72.4x	27.1x
Upwork	NasdaqGS:UPWK	\$2,241	\$2,053	9.3x	7.8x	NM	NM
Verint Systems	NasdaqGS:VRNT	\$3,545	\$3,157	2.9x	2.7x	21.5x	11.2x
Workday	NasdaqGS:WDAY	\$39,545	\$39,937	15.1x	11.8x	NM	65.1x
<b>Median</b>				<b>7.6x</b>	<b>6.5x</b>	<b>38.4x</b>	<b>29.3x</b>
<b>Industrial &amp; Automation Software</b>							
3M	NYSE:MMM	\$126,877	\$115,488	3.9x	3.8x	15.6x	13.1x
ABB	SWX:ABBN	\$47,051	\$40,659	1.3x	1.2x	10.1x	8.8x
American Software	NasdaqGS:AMSW.A	\$262	\$342	2.3x	2.2x	22.1x	14.8x
Aspen Technology	NasdaqGS:AZPN	\$6,895	\$6,730	13.2x	12.4x	29.8x	24.8x
Dassault	ENXTPA:DSY	\$30,070	\$32,004	7.9x	7.0x	28.4x	20.4x
Endava	NYSE:DAVA	\$1,192	\$1,246	3.9x	3.1x	26.9x	17.3x
Emerson	NYSE:EMR	\$44,705	\$40,995	2.6x	2.4x	12.6x	11.1x
Fanuc Corporation	TSE:6954	\$27,205	\$32,696	4.3x	5.2x	11.8x	14.9x
General Electric	NYSE:GE	\$198,273	\$88,373	1.6x	1.7x	15.2x	13.9x
HollySys Automation Tech	NasdaqGS:HOLI	\$842	\$1,244	1.5x	1.3x	6.3x	5.6x
Honeywell	NYSE:HON	\$113,110	\$106,328	2.6x	3.1x	12.6x	13.3x
Johnson Controls	NYSE:JCI	\$43,294	\$31,205	1.4x	1.7x	8.7x	11.9x
KUKA	DB:KU2	\$2,860	\$2,674	0.7x	0.8x	15.8x	12.7x
Materialise	NasdaqGS:MTLS	\$858	\$866	4.1x	3.7x	33.7x	24.8x
Metso	HLSE:METSO	\$4,575	\$4,399	1.3x	1.2x	10.8x	9.0x
OMRON Corp	TSE:6645	\$7,596	\$8,458	0.9x	1.0x	7.6x	7.6x
Parametric Technology	NasdaqGS:PTC	\$10,507	\$10,061	8.3x	7.8x	63.6x	26.9x
Rockwell Automation	NYSE:ROK	\$21,378	\$20,265	3.2x	3.1x	14.5x	13.3x
Schneider Electric	ENXTPA:SU	\$47,377	\$38,744	1.7x	1.6x	10.1x	9.3x
Siemens	DB:SIE	\$118,792	\$89,200	1.2x	1.2x	11.7x	9.3x
YASKAWA Electric Corp	TSE:6506	\$7,471	\$7,417	1.8x	1.7x	11.7x	11.8x
Yokogawa Electric Corp.	TSE:6841	\$4,569	\$4,959	1.2x	1.2x	9.3x	8.6x
<b>Median</b>				<b>2.0x</b>	<b>2.0x</b>	<b>12.6x</b>	<b>12.9x</b>



# Public market valuations



## Application Software (continued)

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Education Technology</b>							
Blackbaud	NasdaqGS:BLKB	\$3,788	\$3,388	4.5x	4.3x	27.7x	21.7x
Instructure	NYSE:INST	\$1,214	\$1,386	6.2x	5.0x	NM	NM
K12	NYSE:LRN	\$1,049	\$1,217	1.1x	1.0x	14.7x	8.8x
Rosetta Stone	NYSE:RST	\$317	\$347	1.8x	1.7x	NM	NM
Sunlands Online Education Group	NYSE:STG	\$613	\$949	2.4x	1.5x	NM	NM
<b>Median</b>				<b>2.4x</b>	<b>1.7x</b>	<b>21.2x</b>	<b>15.2x</b>
<b>Business Intelligence &amp; Data</b>							
Alteryx	NYSE:AYX	\$4,210	\$4,367	23.1x	16.5x	NM	NM
AppFolio	NasdaqGM:APPF	\$2,123	\$2,168	12.0x	9.5x	87.4x	37.9x
Cardylitics	NasdaqGM:CDLX	\$373	\$374	2.6x	2.0x	NM	NM
Cloudera	NYSE:CLDR	\$3,167	\$3,557	7.3x	3.4x	NM	21.0x
Corelogic	NYSE:CLGX	\$4,591	\$2,924	2.5x	2.6x	11.0x	9.5x
CoStar Group	NasdaqGS:CSGP	\$13,159	\$14,231	11.6x	9.9x	43.1x	27.5x
Domo, Inc.	NasdaqGM:DOMO	\$603	\$711	4.5x	NM	NM	NM
Elastic N.V.	NYSE:ESTC	\$5,711	\$6,033	27.0x	NM	NM	NM
Gridsum Holding	NasdaqGS:GSUM	\$114	\$68	1.4x	NA	NM	NA
Inovalon Holdings	NASDAQ:INOV	\$3,032	\$2,178	6.0x	5.0x	29.7x	15.6x
MicroStrategy	NasdaqGS:MSTR	\$767	\$1,343	1.5x	1.5x	99.9x	24.5x
MMTEC	NasdaqCM:MTC	\$128	\$129	NM	NA	NA	NA
MongoDB	NasdaqGM:MDB	\$4,642	\$4,951	21.5x	14.3x	NM	NM
NantHealth	NasdaqGS:NH	\$234	\$58	2.6x	2.4x	NM	NM
New Relic	NYSE:NEWR	\$5,458	\$5,790	13.2x	10.4x	NM	93.3x
Open Text	NasdaqGS:OTEX	\$11,574	\$9,550	4.1x	3.9x	13.4x	10.4x
PROS Holdings	NYSE:PRO	\$1,226	\$1,285	6.4x	5.7x	NM	NM
Sabre	NasdaqGS:SABR	\$9,305	\$6,327	2.4x	2.3x	12.5x	7.9x
Splunk	NasdaqGS:SPLK	\$17,458	\$18,449	10.9x	8.6x	NM	53.5x
Tableau	NYSE:DATA	\$9,727	\$10,683	9.1x	7.8x	NM	74.3x
TrueCar	NasdaqGS:TRUE	\$781	\$976	2.3x	2.0x	NM	18.2x
Varonis Systems	NasdaqGS:VRNS	\$1,583	\$1,741	6.1x	5.2x	NM	NM
Workiva	NYSE:WK	\$1,759	\$1,837	7.5x	6.5x	NM	NM
Yext	NYSE:YEXT	\$1,465	\$1,572	6.9x	5.2x	NM	NM
<b>Median</b>				<b>6.4x</b>	<b>5.2x</b>	<b>29.7x</b>	<b>22.8x</b>



# Public market valuations

## Application Software (continued)



(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Design &amp; Engineering Software</b>							
Ansys	NasdaqGS:ANSS	\$13,004	\$13,733	11.0x	9.7x	28.6x	20.8x
Altair Engineering	NasdaqGS:ALTR	\$2,081	\$2,277	5.6x	4.9x	86.9x	42.2x
Aurora Mobile	NasdaqGM:JG	\$828	\$896	9.5x	4.6x	NM	60.2x
Autodesk	NasdaqGS:ADSK	\$32,748	\$32,238	13.7x	10.6x	NM	42.6x
Aveva Group	LSE:AVV	\$5,658	\$5,765	6.9x	5.6x	37.7x	20.4x
Cadence Design Systems	NasdaqGS:CDNS	\$13,346	\$13,551	6.4x	6.0x	27.2x	18.2x
Hexagon	OM:HEXA B	\$20,143	\$17,699	4.8x	4.4x	15.7x	13.3x
Pivotal Software	NYSE:PVTL	\$4,188	\$4,852	6.7x	5.4x	NM	NM
Progress Software	NasdaqGS:PRGS	\$1,612	\$1,636	4.1x	4.2x	11.6x	10.7x
RIB Software AG	DB:RIB	\$348	\$625	2.5x	2.3x	14.4x	7.7x
Synopsys	NasdaqGS:SNPS	\$13,709	\$13,957	4.4x	4.1x	26.1x	14.7x
Twilio	NYSE:TWLO	\$10,688	\$11,005	19.1x	13.2x	NM	NM
<b>Median</b>				<b>6.6x</b>	<b>5.2x</b>	<b>26.6x</b>	<b>19.3x</b>



# Public market valuations



## EMS / Infrastructure Software

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Security Software</b>							
Carbon Black	NasdaqGS:CBLK	\$888	\$1,052	4.5x	3.7x	NM	NM
Check Point Software	NasdaqGS:CHKP	\$15,732	\$17,483	8.2x	7.9x	16.9x	15.2x
Cheetah Mobile	NYSE:CMCM	\$547	\$949	0.8x	0.7x	4.9x	5.2x
Cyber-Ark Software	NasdaqGS:CYBR	\$2,778	\$3,165	8.8x	7.4x	66.9x	28.6x
Everbridge	NasdaqGM:EVBG	\$1,824	\$1,834	13.6x	10.3x	NM	NM
FireEye	NasdaqGS:FEYE	\$3,286	\$3,423	4.2x	3.8x	NM	26.5x
ForeScout	NasdaqGM:FSCT	\$1,114	\$1,307	4.1x	3.4x	NM	NM
Fortinet	NasdaqGS:FTNT	\$11,411	\$13,045	6.7x	5.7x	46.5x	22.6x
Gemalto	ENXTAM:GTO	\$5,992	\$5,264	1.8x	1.7x	14.6x	9.6x
Mimecast	NasdaqGS:MIME	\$2,290	\$2,257	7.6x	6.3x	NM	37.4x
MobileIron	NasdaqGS:MOBL	\$410	\$512	2.2x	2.0x	NM	40.6x
Okta	NasdaqGS:OKTA	\$8,825	\$9,103	24.2x	18.3x	NM	NM
Palo Alto Networks	NYSE:PANW	\$18,803	\$20,382	7.7x	6.4x	NM	23.8x
Proofpoint	NasdaqGM:PFPT	\$5,386	\$5,618	7.5x	6.2x	NM	40.8x
Qualys	NasdaqGS:QLYS	\$3,081	\$3,407	11.5x	9.7x	40.7x	25.6x
Rapid7	NasdaqGM:RPD	\$1,800	\$1,900	7.7x	6.5x	NM	NM
SecureWorks	NasdaqGS:SCWX	\$1,758	\$1,873	3.5x	3.2x	NM	NM
Symantec	NasdaqGS:SYMC	\$15,895	\$13,429	3.3x	3.2x	16.4x	7.4x
Tenable	NasdaqGS:TENB	\$2,312	\$2,576	9.4x	7.3x	NM	NM
Trend Micro	TSE:4704	\$5,952	\$7,409	4.1x	3.8x	12.5x	10.9x
Zix	NasdaqGS:ZIXI	\$362	\$386	5.3x	4.9x	25.3x	15.3x
Zscaler	NasdaqGS:ZS	\$5,599	\$5,913	26.2x	19.2x	NM	NM
<b>Median</b>				<b>7.1x</b>	<b>6.0x</b>	<b>16.9x</b>	<b>23.2x</b>
<b>System and Network Management Software</b>							
A10 Networks	NYSE:ATEN	\$378	\$501	1.7x	1.6x	NM	38.5x
Anaplan	NYSE:PLAN	\$3,552	\$3,923	16.3x	12.7x	NM	NM
CommVault Systems	NasdaqGS:CVLT	\$2,574	\$3,032	3.6x	3.4x	61.9x	16.8x
Micro Focus	LSE:MCRO	\$12,060	\$7,918	3.9x	3.3x	12.9x	8.4x
Netscout Systems	NasdaqGS:NTCT	\$2,140	\$2,015	2.4x	2.3x	22.3x	NA
Nutanix	NasdaqGS:NTNX	\$8,649	\$9,177	7.2x	5.8x	NM	NM
One Stop Systems	NasdaqCM:OSS	\$28	\$35	0.9x	0.5x	NM	8.3x
Presidio	NasdaqGS:PSDO	\$2,312	\$1,311	0.8x	0.8x	11.1x	9.9x
SailPoint	NYSE:SAIL	\$2,433	\$2,506	10.2x	8.8x	NM	NM
ServiceNow	NYSE:NOW	\$38,615	\$39,451	14.8x	11.3x	NM	41.4x
Software	XTRA:SOW	\$2,499	\$2,686	2.5x	2.4x	8.6x	8.2x
SolarWinds	NYSE:SWI	\$7,397	\$5,440	9.1x	8.2x	34.6x	17.0x
Vmware	NYSE:VMW	\$52,635	\$61,922	6.1x	5.5x	22.3x	13.8x
<b>Median</b>				<b>3.9x</b>	<b>3.4x</b>	<b>22.3x</b>	<b>13.8x</b>



# Public market valuations

## EMS / Infrastructure Software (continued)



*(\$ in millions)*

		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
Platform / OS							
Citrix Systems	NasdaqGS:CTXS	\$14,513	\$13,818	4.9x	4.7x	15.9x	13.2x
Hewlett-Packard	NYSE:HPQ	\$34,356	\$34,223	0.6x	0.6x	7.1x	7.1x
IBM	NYSE:IBM	\$156,109	\$122,160	2.0x	2.0x	8.8x	8.4x
Microsoft Corp.	NasdaqGS:MSFT	\$759,019	\$801,209	6.4x	5.8x	15.3x	13.7x
Red Hat	NYSE:RHT	\$30,025	\$31,435	9.2x	8.0x	48.4x	28.9x
<b>Median</b>				<b>4.9x</b>	<b>4.7x</b>	<b>15.3x</b>	<b>13.2x</b>



# Public market valuations



## Financial Solutions

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Banking Solutions</b>							
Black Knight	NYSE:BKI	\$8,730	\$7,349	8.0x	7.4x	23.2x	15.0x
Bottomline Technologies	NasdaqGS:EPAY	\$2,240	\$2,226	5.4x	5.1x	51.7x	21.5x
Fidelity National	NYSE:FIS	\$42,723	\$34,232	4.8x	5.0x	16.4x	13.0x
Fiserv	NasdaqGS:FISV	\$37,040	\$32,438	6.4x	6.1x	19.8x	15.9x
GreenSky	NasdaqGS:GSKY	\$683	\$632	1.7x	1.4x	3.9x	3.4x
Jack Henry & Associates	NasdaqGS:JKHY	\$10,208	\$10,323	6.5x	6.4x	21.1x	19.0x
Pintec Technology	NasdaqGM:PT	\$738	\$412	4.8x	NA	59.3x	NA
Q2 Holdings	NYSE:QTWO	\$2,460	\$2,578	10.9x	8.5x	NM	NM
Senmiao Technology Limited	NasdaqCM:AIHS	\$91	\$101	179.2x	NA	NM	NA
Temenos Group	SWX:TEMN	\$9,783	\$9,352	12.2x	10.3x	42.3x	25.5x
<b>Median</b>				<b>6.5x</b>	<b>6.2x</b>	<b>22.1x</b>	<b>15.9x</b>
<b>Capital Market &amp; Investment Solutions</b>							
Envestnet	NYSE:ENV	\$2,783	\$2,480	3.5x	3.2x	33.1x	16.2x
FactSet Research Systems	NYSE:FDS	\$8,693	\$8,316	6.3x	6.0x	19.0x	17.0x
IRESS	ASX:IRE	\$1,600	\$1,463	4.9x	4.6x	21.5x	16.6x
Moody's	NYSE:MCO	\$34,401	\$30,372	7.6x	7.4x	15.9x	15.5x
Morningstar	NasdaqGS:MORN	\$5,020	\$5,296	5.0x	NA	18.0x	NA
MSCI	NYSE:MSCI	\$16,166	\$14,989	11.3x	10.6x	20.9x	19.3x
SimCorp	CPSE:SIM	\$3,060	\$3,095	7.3x	6.7x	26.2x	25.5x
SS&C Technologies Holdings	NasdaqGS:SSNC	\$18,868	\$12,914	6.9x	4.1x	21.3x	10.9x
Thomson Reuters	TSX:TRI	\$33,433	\$26,211	3.0x	5.7x	14.2x	27.2x
<b>Median</b>				<b>6.3x</b>	<b>5.8x</b>	<b>20.9x</b>	<b>16.8x</b>
<b>Consumer Data &amp; Analytics</b>							
Equifax	NYSE:EFX	\$15,340	\$12,904	4.5x	4.4x	18.0x	13.0x
Experian	LSE:EXPN	\$26,099	\$22,635	5.4x	5.2x	17.5x	15.0x
Fair Isaac	NYSE:FICO	\$7,299	\$6,547	6.9x	6.4x	29.6x	NA
<b>Median</b>				<b>5.4x</b>	<b>5.2x</b>	<b>18.0x</b>	<b>14.0x</b>



# Public market valuations



## Financial Solutions (continued)

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Payment Processing</b>							
ACI Worldwide	NasdaqGS:ACIW	\$4,040	\$3,428	4.0x	3.7x	24.7x	13.6x
Cielo	BOVESPA:CIEL3	\$11,281	\$8,887	3.5x	3.7x	9.1x	10.8x
Euronet Worldwide	NasdaqGS:EEFT	\$5,690	\$5,930	2.3x	2.0x	12.3x	9.8x
EVO Payments	NasdaqGM:EVOP	\$1,252	\$638	2.3x	2.1x	10.5x	8.0x
First Data Corporation	NYSE:FDC	\$43,133	\$23,093	5.0x	4.9x	13.3x	12.9x
Global Payments	NYSE:GPN	\$22,459	\$17,764	6.3x	5.2x	17.7x	14.3x
i3 Verticals, Inc.	NasdaqGS:IIIV	\$336	\$227	1.0x	2.7x	12.1x	9.4x
Net 1 Ueps Technologies	NasdaqGS:UEPS	\$289	\$162	0.5x	0.6x	2.8x	NM
PagSeguro Digital	NYSE:PAGS	\$6,459	\$7,070	10.9x	4.6x	NM	11.7x
Square	NYSE:SQ	\$29,356	\$29,503	9.8x	14.1x	NM	77.7x
StoneCo Ltd.	NasdaqGS:STNE	\$6,709	\$6,254	45.0x	8.9x	NM	16.3x
Total System Services	NYSE:TSS	\$19,796	\$16,349	4.9x	4.9x	15.2x	13.7x
<b>Median</b>				<b>4.4x</b>	<b>4.2x</b>	<b>12.3x</b>	<b>12.9x</b>
<b>Insurance Solutions</b>							
CorVel	NasdaqGS:CRVL	\$1,081	\$1,171	1.9x	NA	14.2x	NA
Ebix	NasdaqGS:EBIX	\$2,328	\$1,786	5.0x	4.0x	15.1x	12.1x
Guidewire Software	NYSE:GWRE	\$6,241	\$7,024	8.5x	8.5x	89.6x	47.9x
Sapiens International	NasdaqCM:SPNS	\$623	\$609	2.2x	2.1x	15.1x	13.4x
Verisk	NasdaqGS:VRSK	\$21,764	\$19,328	9.3x	8.6x	20.6x	18.1x
<b>Median</b>				<b>5.0x</b>	<b>6.2x</b>	<b>15.1x</b>	<b>15.8x</b>





# Public market valuations

## Online & Digital



(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Digital Advertising &amp; Marketing</b>							
Alphabet	NasdaqGS:GOOG.L	\$677,260	\$779,690	5.2x	4.4x	17.2x	11.9x
Baidu	NasdaqGS:BIDU	\$54,045	\$60,172	3.7x	3.3x	10.8x	13.3x
Criteo	NasdaqGS:CRTO	\$1,243	\$1,677	0.5x	1.3x	5.0x	4.3x
Hubspot	NYSE:HUBS	\$5,963	\$6,211	12.5x	9.9x	NM	87.3x
iClick Interactive	NasdaqGM:ICLK	\$303	\$313	1.9x	1.6x	NM	81.4x
Perion Network	NasdaqGS:PERI	\$84	\$86	0.3x	0.3x	4.1x	2.7x
QuinStreet	NasdaqGS:QNST	\$868	\$938	2.0x	1.7x	35.4x	16.4x
SINA Corp	NasdaqGS:SINA	\$3,917	\$4,390	1.9x	1.7x	7.6x	6.2x
Sogou	NYSE:SOGO	\$1,399	\$2,476	1.3x	1.1x	13.5x	13.7x
Telaria	NYSE:TLRA	\$65	\$136	1.3x	1.2x	NM	NM
The Rubicon Project	NYSE:RUBI	\$129	\$225	1.1x	0.9x	NM	27.9x
Yandex	NasdaqGS:YNDX	\$10,228	\$10,893	5.7x	4.4x	23.2x	14.4x
<b>Median</b>				<b>1.9x</b>	<b>1.6x</b>	<b>12.1x</b>	<b>13.7x</b>
<b>Digital Media &amp; Video</b>							
Adobe Systems	NasdaqGS:ADBE	\$121,774	\$120,868	13.5x	10.9x	38.2x	24.9x
Bilibili	NasdaqGS:BILI	\$4,640	\$5,127	8.6x	5.7x	NM	66.3x
Blucora	NasdaqGS:BCOR	\$1,610	\$1,416	2.9x	2.7x	15.3x	12.5x
Brightcove	NasdaqGS:BCOV	\$266	\$293	1.6x	1.6x	NM	55.0x
Digimarc	NasdaqGS:DMRC	\$173	\$222	8.3x	7.6x	NM	NM
Dropbox, Inc.	NasdaqGS:DBX	\$9,172	\$10,045	6.9x	5.9x	NM	25.5x
HUYA Inc.	NYSE:HUYA	\$3,421	\$4,276	6.0x	3.6x	NM	35.9x
IAC/Interactive	NasdaqGS:IAC	\$18,561	\$17,645	4.5x	4.0x	26.0x	16.8x
iQIYI	NasdaqGS:IQ	\$13,375	\$14,560	4.0x	2.9x	12.0x	8.4x
Leaf Group	NYSE:LEAF	\$148	\$181	1.0x	0.9x	NM	NM
Netflix	NasdaqGS:NFLX	\$154,791	\$148,225	9.8x	7.6x	91.7x	50.0x
Pluralsight	NasdaqGS:PS	\$1,786	\$1,868	8.4x	6.2x	NM	NM
Qutoutiao	NasdaqGS:QTT	\$2,752	\$3,113	9.7x	2.8x	NM	NM
RhythmOne	AIM:RTHM	\$163	\$176	0.5x	0.4x	10.7x	3.3x
Roku	NasdaqGS:ROKU	\$4,727	\$4,907	7.2x	5.3x	NM	NM
TiVo	NasdaqGS:TIVO	\$2,057	\$1,379	2.8x	3.0x	12.1x	9.3x
VeriSign	NasdaqGS:VRSN	\$21,068	\$20,463	17.5x	16.7x	26.4x	23.4x
Xunlei	NasdaqGS:XNET	-\$100	\$233	NM	NA	NM	NA
<b>Median</b>				<b>6.9x</b>	<b>4.0x</b>	<b>20.6x</b>	<b>24.1x</b>



# Public market valuations

## Online & Digital (continued)



(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Digital Advertising Agencies &amp; Service Providers</b>							
Dentsu	TSE:4324	\$11,597	\$13,364	1.3x	1.2x	7.0x	6.6x
IPG	NYSE:IPG	\$10,420	\$8,744	1.3x	1.2x	8.8x	7.0x
M&C Saatchi	AIM:SAA	\$336	\$333	0.7x	0.9x	10.0x	7.4x
MDC Partners	NasdaqGS:MDCA	\$1,347	\$171	0.9x	0.9x	9.1x	6.3x
Omnicom	NYSE:OMC	\$21,092	\$17,453	1.4x	1.4x	9.0x	8.2x
Publicis	ENXTPA:PUB	\$17,620	\$14,081	1.7x	1.6x	9.0x	8.7x
WPP	LSE:WPP	\$21,051	\$14,420	1.1x	1.0x	6.8x	7.2x
<b>Median</b>				<b>1.3x</b>	<b>1.2x</b>	<b>9.0x</b>	<b>7.2x</b>
<b>Online Retail &amp; Marketplaces</b>							
1-800-Flowers.com	NasdaqGS:FLWS	\$864	\$1,024	0.7x	0.7x	10.7x	9.7x
Alibaba	NYSE:BABA	\$441,917	\$436,756	8.8x	6.3x	35.3x	20.6x
Amazon	NasdaqGS:AMZN	\$826,141	\$843,896	3.5x	3.0x	29.7x	19.5x
ASOS	AIM:ASC	\$3,579	\$3,635	1.1x	1.0x	22.9x	19.0x
Blue Apron	NYSE:APRN	\$330	\$271	0.5x	0.6x	NM	80.0x
boohoo.com	AIM:BOO	\$2,676	\$2,864	2.9x	2.1x	32.3x	22.0x
Booking Holdings	NasdaqGS:BKNG	\$86,491	\$84,913	6.1x	5.5x	15.4x	14.1x
Cango	NYSE:CANG	\$624	\$1,073	4.0x	1.5x	13.8x	3.6x
CarGurus	NasdaqGS:CARG	\$4,560	\$4,708	10.9x	8.5x	NM	92.6x
Carvana	NYSE:CVNA	\$2,060	\$1,481	1.3x	0.6x	NM	NM
Ebay	NasdaqGS:EBAY	\$35,112	\$30,786	3.3x	3.2x	11.7x	9.3x
Eventbrite	NYSE:EB	\$1,934	\$2,340	6.9x	5.5x	NM	41.8x
Expedia	NasdaqGS:EXPE	\$19,674	\$17,765	1.8x	1.6x	15.3x	9.4x
Groupon	NasdaqGS:GRPN	\$1,812	\$2,152	0.7x	0.7x	12.8x	6.0x
Grubhub	NYSE:GRUB	\$7,277	\$7,292	7.9x	5.8x	38.8x	27.6x
EverQuote, Inc.	NasdaqGM:EVER	\$101	\$140	0.7x	0.6x	NM	NM
Ocado Group	LSE:OCDO	\$8,916	\$9,011	4.4x	3.9x	NM	76.2x
Overstock	NasdaqGM:OSTK	\$467	\$558	0.3x	0.2x	NM	NM
Pinduoduo Inc.	NasdaqGS:PDD	\$29,087	\$32,358	23.1x	8.8x	NM	NM
Quotient Technology	NYSE:QUOT	\$776	\$952	2.1x	1.7x	41.0x	11.3x
Rakuten	TSE:4755	\$12,996	\$10,166	1.3x	1.2x	7.6x	7.4x
RumbleON	NasdaqCM:RMBL	\$116	\$119	2.6x	0.2x	NM	NM
Shutterstock	NYSE:SSTK	\$1,195	\$1,402	2.0x	1.8x	25.1x	10.4x
Stamps.com	NasdaqGS:STMP	\$3,371	\$3,368	6.1x	5.1x	15.4x	12.1x
The Trade Desk	NasdaqGM:TTD	\$6,003	\$6,170	14.3x	10.5x	62.8x	34.4x
TripAdvisor	NasdaqGS:TRIP	\$7,236	\$7,899	4.6x	4.2x	33.5x	15.8x
Wayfair	NYSE:W	\$9,901	\$9,889	1.6x	1.2x	NM	NM
Wowo	NASDAQ:JMU	\$22	\$6	0.2x	NA	NM	NA
<b>Median</b>				<b>2.7x</b>	<b>1.8x</b>	<b>22.9x</b>	<b>15.8x</b>



# Public market valuations

## Online & Digital (continued)



(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Digital Gaming</b>							
Activision	NasdaqGS:ATVI	\$35,293	\$36,047	4.9x	4.7x	16.4x	12.1x
Capcom	TSE:9697	\$1,968	\$2,344	2.1x	1.9x	8.4x	8.2x
Changyou.com	NasdaqGS:CYOU	\$422	\$1,040	0.8x	0.9x	3.0x	3.6x
Electronic Arts	NasdaqGS:EA	\$24,316	\$27,868	4.7x	4.5x	16.9x	13.0x
Gree	TSE:3632	\$291	\$1,068	0.4x	0.4x	3.3x	4.1x
Konami	TSE:9766	\$5,158	\$6,225	2.2x	2.2x	8.8x	7.8x
NetDragon WebSoft	SEHK:777	\$865	\$963	1.3x	1.1x	16.3x	11.3x
Net Entertainment	OM:NET B	\$1,119	\$1,159	5.9x	5.4x	14.2x	11.2x
Nintendo	TSE:7974	\$28,532	\$37,336	2.6x	2.5x	12.1x	9.2x
Playtech	LSE:PTEC	\$2,069	\$1,603	2.2x	1.2x	7.8x	4.9x
Square Enix	TSE:9684	\$3,003	\$3,943	1.4x	1.4x	11.3x	7.5x
Take-Two Interactive	NasdaqGS:TTWO	\$10,989	\$12,015	6.1x	3.3x	43.1x	12.1x
Ubisoft	ENXTPA:UBI	\$10,149	\$9,758	4.4x	4.1x	29.4x	8.6x
Zynga	NasdaqGS:ZNGA	\$3,727	\$4,147	4.2x	3.3x	53.9x	18.9x
<b>Median</b>				<b>2.4x</b>	<b>2.3x</b>	<b>13.1x</b>	<b>8.9x</b>
<b>Social Media</b>							
Facebook	NasdaqGS:FB	\$435,118	\$475,732	7.8x	6.3x	14.9x	11.9x
LINE	TSE:3938	\$7,147	\$8,260	3.8x	3.2x	NM	42.2x
Mail.ru Group	LSE:MAIL	\$5,136	\$5,283	5.4x	3.8x	68.7x	12.2x
Match Group	NasdaqGS: MTCH	\$15,738	\$14,875	9.5x	8.2x	27.9x	22.1x
MeetMe	NasdaqCM:MEET	\$446	\$427	2.7x	2.2x	20.0x	13.1x
Mixi	TSE:2121	\$620	\$1,979	0.4x	0.5x	1.0x	1.7x
Momo	NasdaqGS:MOMO	\$5,511	\$6,287	3.0x	2.4x	10.5x	10.9x
Renren	NYSE:RENN	\$225	\$117	0.5x	0.4x	NM	NM
Snap	NYSE:SNAP	\$7,236	\$8,650	6.7x	5.1x	NM	NM
Twitter	NYSE:TWTR	\$22,215	\$25,464	7.8x	6.8x	33.0x	17.7x
XING	XTRA:O1BC	\$1,637	\$1,684	6.5x	5.5x	26.4x	16.7x
Yelp	NYSE:YELP	\$2,188	\$3,026	2.4x	2.2x	51.1x	10.8x
<b>Median</b>				<b>4.6x</b>	<b>3.5x</b>	<b>26.4x</b>	<b>12.6x</b>
<b>Digital Commerce Solutions</b>							
Gk Software AG	DB:GKS	\$171	\$150	1.5x	1.4x	39.3x	11.6x
Intershop	XTRA:ISH2	\$53	\$60	1.4x	1.4x	NM	NM
NCR	NYSE:NCR	\$6,819	\$3,162	1.1x	1.1x	8.6x	6.7x
PFS Web	NasdaqCM:PFSW	\$146	\$117	0.5x	0.4x	7.8x	5.7x
Shopify	NYSE:SHOP	\$17,022	\$18,601	17.9x	12.6x	NM	NM
Wincor Nixdorf	XTRA:WIN	\$2,197	\$1,988	0.9x	NA	7.8x	NA
Worldline S.A	ENXTPA:WLN	\$9,485	\$9,749	5.0x	3.5x	25.8x	15.0x
<b>Median</b>				<b>1.4x</b>	<b>1.4x</b>	<b>8.6x</b>	<b>9.2x</b>



# Public market valuations

## Online & Digital (continued)



(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Other Digital Companies</b>							
Akamai	NasdaqGS:AKAM	\$10,346	\$10,603	3.9x	3.6x	14.8x	8.8x
Box	NYSE:BOX	\$2,898	\$3,000	5.0x	4.1x	NM	65.8x
CooTek (Cayman)	NYSE:CTK	\$873	\$746	8.2x	3.4x	NM	18.8x
Endurance International	NasdaqGS:EIGI	\$2,909	\$1,165	2.5x	2.6x	9.1x	9.2x
GoDaddy	NYSE:GDDY	\$13,217	\$11,476	5.2x	4.6x	34.4x	17.5x
Just Eat	LSE:JE.	\$6,143	\$6,198	7.1x	5.1x	28.7x	26.9x
Limelight Networks	NasdaqGS:LLNW	\$306	\$356	1.6x	1.4x	22.3x	9.1x
Moneysupermarket.com	LSE:MONY	\$2,103	\$2,135	4.7x	4.4x	13.8x	11.9x
NetEase	NasdaqGS:NTES	\$29,311	\$33,086	3.3x	2.5x	23.0x	17.2x
Opera	NasdaqGS:OPRA	\$692	\$905	4.3x	3.3x	17.5x	8.1x
Otello Corporation	OB:OTELLO	\$207	\$231	0.7x	0.6x	NM	5.2x
Phoenix New Media	NYSE:FENG	\$166	\$289	0.8x	0.8x	NM	20.7x
Redfin Corporation	NasdaqGS:RDFN	\$1,270	\$1,602	2.8x	2.2x	NM	NM
Sea	NYSE:SE	\$4,604	\$4,694	6.9x	3.8x	NM	NM
SurveyMonkey	NasdaqGS:SVMK	\$1,779	\$1,627	7.3x	6.4x	NM	34.0x
Tencent Holdings	SEHK:700	\$425,309	\$416,928	10.0x	7.7x	26.3x	21.9x
United Internet	DB:UTDI	\$10,384	\$7,890	1.8x	1.7x	15.3x	7.0x
Wix	NasdaqGS:WIX	\$4,905	\$5,287	8.8x	6.8x	NM	31.1x
Zillow	NasdaqGS:ZG	\$6,186	\$7,114	4.9x	3.6x	96.6x	30.7x
<b>Median</b>				<b>4.7x</b>	<b>3.6x</b>	<b>22.3x</b>	<b>17.5x</b>



# Public market valuations



## Tech Enabled Business Services

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>IT Services, Integration &amp; Consulting</b>							
Accenture	NYSE:ACN	\$93,915	\$97,880	2.3x	2.2x	14.3x	12.9x
Atos Origin	ENXTPA:ATO	\$10,040	\$9,756	0.7x	0.7x	5.5x	4.7x
Bechtle	XTRA:BC8	\$3,575	\$3,336	0.8x	0.7x	14.9x	11.8x
CACI International	NYSE:CACI	\$5,139	\$4,154	1.1x	1.0x	11.3x	10.6x
Cancom	XTRA:COK	\$1,297	\$1,359	0.9x	0.8x	11.8x	9.7x
Cap Gemini	ENXTPA:CAP	\$20,709	\$17,941	1.4x	1.3x	11.2x	9.2x
CGI Group	TSX:GIB.A	\$19,559	\$18,163	2.2x	2.1x	13.1x	11.5x
CLPS Incorporation	NasdaqGM:CLPS	\$92	\$98	1.9x	NA	47.4x	NA
Cognizant Technology	NasdaqGS:CTSH	\$36,308	\$40,347	2.3x	2.1x	11.0x	9.9x
ComputaCenter	LSE:CCC	\$1,483	\$1,548	0.3x	0.2x	8.6x	7.4x
DXC Technology	NYSE:DXC	\$22,545	\$17,961	0.9x	1.1x	4.1x	4.7x
ePlus	NasdaqGS:PLUS	\$1,196	\$1,086	0.9x	0.9x	11.9x	11.0x
FDM Group	LSE:FDM	\$1,133	\$1,172	3.7x	3.6x	18.2x	16.5x
Fujitsu	TSE:6702	\$14,555	\$13,608	0.4x	0.4x	4.0x	5.5x
HCL Technologies	NSEI:HCLTECH	\$18,943	\$19,214	2.3x	2.0x	9.9x	8.5x
Infosys	NSEI:INFY	\$42,246	\$45,931	3.7x	3.4x	14.3x	13.6x
Luxoft Holdings	NYSE:LXFT	\$1,879	\$1,967	2.1x	2.0x	19.1x	14.0x
ManTech International	NasdaqGS:MANT	\$2,225	\$2,240	1.2x	1.1x	13.8x	12.3x
MAXIMUS	NYSE:MMS	\$4,107	\$4,474	1.7x	1.4x	11.7x	10.5x
NCC Group	LSE:NCC	\$528	\$469	1.7x	1.6x	10.7x	8.7x
Nomura Research Institute	TSE:4307	\$9,214	\$9,583	2.0x	2.0x	9.7x	9.5x
NSD	TSE:9759	\$683	\$886	1.2x	1.2x	8.1x	7.6x
OBIC	TSE:4684	\$7,353	\$8,401	11.1x	10.5x	19.7x	19.9x
Perficient	NasdaqGS:PRFT	\$921	\$846	1.9x	1.8x	16.2x	11.2x
SCSK Corporation	TSE:9719	\$4,603	\$4,192	1.4x	1.4x	10.1x	9.6x
Sopra Group	ENXTPA:SOP	\$2,841	\$2,043	0.6x	0.6x	7.3x	6.6x
Talend	NasdaqGM:TLND	\$1,030	\$1,119	5.4x	4.4x	NM	NM
Tata Consultancy Services	NSEI:TCS	\$100,201	\$106,514	5.1x	4.5x	18.7x	17.0x
The Hackett Group	NasdaqGS:HCKT	\$529	\$531	2.0x	1.8x	12.6x	10.3x
Tieto	HLSE:TIENTO	\$2,347	\$2,116	1.3x	1.2x	9.1x	9.4x
Unisys	NYSE:UIS	\$834	\$667	0.3x	0.3x	2.9x	2.1x
Virtusa	NasdaqGS:VRTU	\$1,678	\$1,451	1.5x	1.3x	19.4x	13.7x
Wipro	BSE:507685	\$19,921	\$23,442	2.5x	2.3x	13.5x	11.9x
Xerox	NYSE:XRX	\$10,872	\$6,478	1.1x	1.2x	7.6x	6.3x
<b>Median</b>				<b>1.6x</b>	<b>1.4x</b>	<b>11.7x</b>	<b>10.1x</b>



# Public market valuations



## Tech Enabled Business Services (continued)

(\$ in millions)		TEV	Market Cap	TEV/Revenue		TEV/EBITDA	
				LTM	NTM	LTM	NTM
<b>Business Process Management (BPM)</b>							
Appian	APPN	\$1,942	\$2,050	8.9x	8.1x	NM	NM
Broadridge Financial Solutions	NYSE:BR	\$12,711	\$11,772	2.9x	2.8x	15.2x	14.0x
Cardtronics	NasdaqGS:CATM	\$2,038	\$1,248	1.5x	1.5x	6.9x	7.1x
Cass Information Systems	NasdaqGS:CASS	\$544	\$724	3.7x	NA	11.4x	NA
Computershare	ASX:CPU	\$8,007	\$7,027	3.5x	3.4x	14.1x	11.6x
CSG Systems International	NasdaqGS:CSGS	\$1,368	\$1,206	1.6x	1.5x	8.8x	6.9x
DocuSign	NasdaqGS:DOCU	\$7,510	\$8,172	11.6x	9.2x	NM	NM
EVERTEC	NYSE:EVTC	\$2,432	\$1,954	5.6x	5.2x	15.2x	11.1x
Exlservice Holdings	NasdaqGS:EXLS	\$2,029	\$1,970	2.4x	2.1x	17.3x	12.0x
Genpact	NYSE:G	\$6,613	\$5,670	2.3x	2.1x	16.2x	11.8x
Smartsheet	NYSE:SMAR	\$3,049	\$3,255	19.2x	13.5x	NM	NM
SS&C Technologies	NasdaqGS:SSNC	\$18,868	\$12,914	6.9x	4.1x	21.3x	10.9x
Tabula Rasa Healthcare	NasdaqGM:TRHC	\$1,248	\$1,234	6.5x	5.2x	68.8x	36.0x
Trans Cosmos	TSE:9715	\$708	\$863	0.3x	0.3x	16.3x	7.3x
WEX	NYSE:WEX	\$8,810	\$6,954	6.1x	5.6x	16.5x	12.4x
Wirecard	XTRA:WDI	\$19,288	\$20,481	8.6x	6.6x	33.5x	23.4x
WNS	NYSE:WNS	\$2,378	\$2,438	3.0x	2.8x	17.4x	13.8x
Worldpay	NYSE:WP	\$32,798	\$24,824	8.3x	7.8x	24.8x	15.8x
Zuora	NYSE:ZUO	\$2,188	\$2,348	9.9x	7.9x	NM	NM
<b>Median</b>				<b>5.6x</b>	<b>4.6x</b>	<b>16.3x</b>	<b>11.9x</b>
<b>Data Center Hosting &amp; Services</b>							
Dropbox	NasdaqGS:DBX	\$9,172	\$10,045	6.9x	5.9x	NM	25.5x
Equinix	NasdaqGS:EQIX	\$42,158	\$31,674	8.4x	7.8x	18.7x	16.2x
Interxion Holding	NYSE:INXN	\$5,468	\$4,303	8.6x	7.6x	20.3x	16.4x
Pure Storage	NYSE:PSTG	\$3,627	\$4,327	2.8x	2.2x	NM	21.4x
Switch	NYSE:SWCH	\$1,527	\$461	3.8x	3.5x	9.6x	7.1x
<b>Median</b>				<b>6.9x</b>	<b>5.9x</b>	<b>18.7x</b>	<b>16.4x</b>
<b>Call Center</b>							
Sykes Enterprises	NasdaqGS:SYKE	\$1,101	\$1,176	0.7x	0.7x	7.1x	6.0x
TeleTech Holdings	NasdaqGS:TTEC	\$1,731	\$1,544	1.1x	1.1x	9.9x	8.1x
<b>Median</b>				<b>0.9x</b>	<b>0.9x</b>	<b>8.5x</b>	<b>7.0x</b>





 M&A  
transactions



# M&A transactions

## Application Software



Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Jan-19	Q1'2019	MSR Customs Corporation	The Descartes Systems Group Inc (TSX:DSG)	\$248.8	-
Jan-19	Q1'2019	Trendkite, Inc.	Cision Ltd. (NYSE:CISN)	\$221.1	-
Dec-18	Q1'2019	Pictureworks Holdings Sdn Bhd	PUC Berhad (KLSE:PUC)	\$37.6	-
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





# M&A transactions



## Application Software (continued)

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
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
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



# M&A transactions



## Application Software (continued)

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
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
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	Savoie 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	Eqf 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



# M&A transactions



## Application Software (continued)

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
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	Artium 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
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 (NSE: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	Itecgyn 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



# M&A transactions



## Application Software (continued)

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
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
Feb-18	Q1'2018	WebDAM, Inc.	Bynder LLC	\$49.1	3.0x
Feb-18	Q1'2018	Xively, Ltd.	Google LLC	\$50.0	16.7x
Feb-18	Q1'2018	Unified Messaging Systems ASA	Everbridge Holdings Limited	\$33.3	2.5x
Feb-18	Q1'2018	Fraedom Holdings Limited	Visa Inc. (NYSE:V)	\$195.7	4.3x
Feb-18	Q1'2018	Tryumph21 Co.,Ltd.	As One Corp. (TSE:7476)	\$26.4	0.2x
Feb-18	Q1'2018	Escher Group Holdings plc	Hanover Investors Management LLP	\$49.1	2.7x
Feb-18	Q1'2018	LiquidHub, Inc.	Capgemini SE (ENXTPA:CAP)	\$500.0	2.0x
Feb-18	Q1'2018	e-Builder, Inc.	Trimble Inc. (NasdaqGS:TRMB)	\$500.0	9.4x
Feb-18	Q1'2018	Financial Performance Solutions and Banking Businesses of BasWare	Verdane Capital	\$43.5	2.3x
Feb-18	Q1'2018	Travel Compensation Services Ltd and Delay Repay Sniper Limited	Tracsis plc (AIM:TRCS)	\$9.8	9.8x



# M&A transactions



## 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	Datatrix 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



# M&A transactions



## EMS / Infrastructure Software (continued)

<b>Date Announced</b>	<b>Period</b>	<b>Target</b>	<b>Buyer</b>	<b>Enterprise Value</b>	<b>Revenue Multiple</b>
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



# M&A transactions



## Tech Enabled Services

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
Jan-19	Q1'2019	Paygent Co.,Ltd.	NTT DATA Corporation (TSE:9613)	\$57.9	-
Jan-19	Q1'2019	Earthport plc (AIM:EPO)	Mastercard Incorporated (NYSE:MA)	\$280.1	6.3x
Jan-19	Q1'2019	Software Information Systems, LLC	Converge Technology Solutions Corp. (TSXV:CTS)	\$15.4	-
Jan-19	Q1'2019	Ruletronics Limited/Ruletronics Systems Inc/Ruletronics Systems Private Limited (India)	Larsen & Toubro Infotech Limited (NSE:LTIL)	\$7.5	-
Jan-19	Q1'2019	Compass Informatics Limited/Compass Informatics UK Limited	Tracsis plc (AIM:TRCS)	\$6.9	-
Jan-19	Q1'2019	First Data Corporation (NYSE:FDC)	Fiserv, Inc. (NasdaqGS:FISV)	\$41,941.6	5.0x
Jan-19	Q1'2019	DeClout Limited (Catalist:5UZ)	Exeo Global Pte. Ltd.	\$128.7	0.5x
Jan-19	Q1'2019	Luxoft Holding, Inc. (NYSE:LXFT)	DXC Technology Company (NYSE:DXC)	\$2,078.4	2.1x
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.	Lontrou 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 Spółka Akcyjna (WSE:IAI)	MCI Capital TFI SA	\$37.8	7.3x



# M&A transactions



## Tech Enabled Services (continued)

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
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
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





# M&A transactions



## Tech Enabled Services (continued)

Date Announced	Period	Target	Buyer	Enterprise Value	Revenue Multiple
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
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



# M&A transactions



## Online & Digital

Date Announced	Period	Target	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 Quanzinhao 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



# M&A transactions

## 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 (AIM: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



# IV Selected transactions



# Selected transactions



## Infosys Acquires Fluidio, Largest Salesforce Consulting Partner in the Nordics

### Transaction Summary

- Pharus is pleased to announce our role as the exclusive financial advisor to W12 Studios Limited (W12) in its sale to Tata Consultancy Services. W12 will become part of TCS Interactive, the digital design division within TCS' Business & Technology Services organization. The transaction, TCS' first in the digital space, will further strengthen TCS Interactive's array of creative and experience service offerings.
- The shareholders of W12 retained Pharus because of our broad expertise in marketing digital transformation services companies, our comprehensive knowledge of the design and strategy services competitive landscape, and our bespoke approach to M&A advisory. We executed a targeted M&A process that involved identifying and approaching a customized universe of strategic buyers, spearheading marketing activities, leading due-diligence, and negotiating transaction terms.

### Key Profiles

- Founded in 2012 and based in London, W12 imagines and builds iconic products and experiences for renowned media and technology brands worldwide. With industry-leading expertise in visual, interaction, motion, sonic and creative technology, W12's competencies span the full range of the service journey, from developing innovative brand strategies to building expectation-exceeding product ideas and prototypes. W12 has defined, designed, and prototyped digital products for leading media services and technology companies across 14 countries.
- Tata Consultancy Services is an IT services, consulting and business solutions organization that has been partnering with many of the world's largest businesses in their transformation journeys for the last fifty years. TCS offers a consulting-led, Cognitive powered, integrated portfolio of IT, Business & Technology Services, and engineering. This is delivered through its unique Location Independent Agile delivery model, recognized as a benchmark of excellence in software development.
- Tata Consultancy Services was founded in 1968 and is based in Mumbai, India. Tata Consultancy Services Limited is a subsidiary of Tata Sons Limited.

## W12 Studios

has been acquired by

**TATA  
CONSULTANCY  
SERVICES**

The undersigned acted as the exclusive financial advisor to W12 Studios Limited in connection with the transaction

**P H A R U S**

Fabian Birgfeld, Co-Founder and Chief Executive Officer of W12, said about Pharus, "We are very grateful to the Pharus team for working tirelessly and supporting us throughout the exploratory process and due diligence stage. Their availability and expertise were absolutely essential in bringing TCS and us together and completing this transaction."

# Selected transactions



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

### Transaction Summary

- Pharus served as the exclusive financial advisor to Fluido Oy in their sale to Infosys 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 earn-out 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.



has been acquired by



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



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!!"*

# Selected transactions



## 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 consumer-centric content categories. The Company operates a number of notable digital properties including FashionBeans, HealthyWay, and Urbo.



**domino**

has been acquired by

 **multiply**

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

**P H A R U S**

# Selected transactions



## 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 user-centered 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."**



# Selected transactions

## Capgemini 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 our 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 due-diligence, 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.

Fahrenheit**212**

has been acquired by



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

**P H A R U S**



# Selected transactions

## 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. (NasdaqGS: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-of-sale 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

# Selected transactions



## 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 medium-sized businesses and enterprises, and government organizations; provides eFax, KeepItSafe, LiveDrive, eVoice and Onebox.
  - Digital Media – Operates a portfolio of Web properties, including PCMag.com, IGN.com, Speedtest.net, AskMen.com, and TechBargains.com.



**Offers.com**<sup>™</sup>

has been acquired by



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

**P H A R U S**

# Selected transactions



has been acquired by

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

PHARUS  
February 2016

**Innovation Services**

has been acquired by

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

PHARUS

**Retail Solutions**

has been acquired by

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

PHARUS  
December 2015

**Online Marketing**

CG CONTROL GROUP  
has merged with

to form

The undersigned acted as the exclusive financial advisor to Control Group, Inc. and its affiliates, in connection with the transactions.

Pharus Securities, LLC

**Digital Agency**

has been acquired by

The undersigned acted as the exclusive financial advisor to RoyaltyShare, Inc. in its sale to The Orchard Enterprises, Inc.

Pharus Securities  
November 2014

**Digital Revenue Management**

Received Series A financing of \$8 million from

The undersigned acted as the exclusive financial advisor to P97 Networks, Inc. in connection with the transaction.

Pharus Securities

**Fuel Payment & Coupon**

Completed a growth financing with

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

Pharus Securities  
May 2014

**Education Technology**

has been acquired by

The undersigned acted as the exclusive financial advisor to AmberFin Ltd. in its sale to Dalet S.A. (ENWTPA.DLT)

Pharus Securities  
April 2014

**Broadcast Technology**

Remote DBA Business

has been acquired by

The undersigned acted as financial advisor to Bluewolf Inc. in the sale of its Remote DBA Business to General Corporation, Inc.

Pharus Advisors, LLC  
December 2012

**IT Services**

has been acquired by

Principals of the undersigned acted as financial advisors to SocialGuide, Inc. in its sale to Nielsen Holdings N.V. and M&M Inc. LLC a joint venture between Nielsen and McKinsey & Company, Inc.

Pharus Advisors, LLC  
November 2012

**Social TV Software**

has been acquired by

The undersigned acted as financial advisor to ExpertTune Inc. in its sale to Metso Corporation

Pharus Advisors, LLC  
November 2012

**Industrial Software**

has acquired

The undersigned acted as financial advisor to NetKey, Inc. in connection with this acquisition.

Pharus Advisors, LLC  
AUGUST 2007

**Retail Software**





**v** 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



**Founded  
in 2001**

### 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

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# Disclaimer

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