



# Selected Recent Transactions (1)

Communication Technology and Electronics

IT Services and BPO











#### Ubisense

#### KPMG CF United States

advised Ubisense on the sale of its SmartSpace division to Investcorp Technology Partners

> \$44.8 million<sup>(2)</sup> December 2018





## GCI

## KPMG CF United Kingdom

advised GCI on its sale to Mayfair Equity Partners

\$264.2 million May 2018





## TRS Technologies

## **KPMG CF United States**

advised TRS Technologies, Inc. on its sale to Tayca Corporation

Value not disclosed January 2018





#### Vitruvian Partners

## KPMG CF Sweden

Value not disclosed

December 2017





## **BeneSys**

#### KPMG CF United States

advised BeneSys on its sale from The Riverside Company to Tenex Capital Management

Value not disclosed





## **Eze Castle Integration**

KPMG CF United States

advised Eze Castle Integration on raising an investment from H.I.G. Capital





## **PRIME Research**

## **KPMG CF United** Kingdom

advised PRIME Research on its sale to Cision Ltd.

Value not disclosed







## Logiq<sup>3</sup>

#### KPMG CF Canada

advised Logiq3 on its sale to Reinsurance Group of America

Value not disclosed December 2017





## Ink

## KPMG CF United Kingdom

advised the shareholders of Volanti Media (Holdings) Limited (Ink) on its sale to The Stagwell Group

Value not disclosed October 2018



## ReachLocal Japan

KPMG CF United States & Japan

advised ReachLocal Japan on its sale to New Horizon Capital

Value not disclosed



**RIBA Enterprises KPMG CF United** Kingdom

advised RIBA Enterprises in raising a minority investment of 42.5% from LDC

Value not disclosed





## **LCL**

## KPMG CF Japan

advised LCL on its sale to Kakaku.com

Value not disclosed

## KPMG



## **TVcN**

## KPMG CF Netherlands

advised ManpowerGroup Netherlands B.V. on the sale of TVcN B.V. to Opportunity Partners

Value not disclosed January 2019





## **ProActive Software**

KPMG CF Netherlands

advised ProActive Software on its sale to Visma Group

Value not disclosed



## **Tenzing Private Equity**

KPMG CF United Kingdom

advised Tenzing Private Equity LLP on the acquisition of Corvia Ltd (Ticketer)

Value not disclosed





## tCell.io

**KPMG CF United States** 

advised tCell.io on its sale to Rapid7

Value not disclosed October 2018

| 2014-20 | 18 Advisor Rankings <sup>(3)</sup> | # of Deals |
|---------|------------------------------------|------------|
| 1.      | KPMG <sup>(1)</sup>                | 2,260      |
| 2.      | PwC                                | 2,066      |
| 3.      | Ernst & Young LLP                  | 1,426      |
| 4.      | Rothschild & Co.                   | 1,402      |
| 5.      | Deloitte                           | 1,393      |
| 6.      | Houlihan Lokey                     | 1,274      |
| 7.      | BDO                                | 1,100      |
| 8.      | Lazard                             | 922        |
| 9.      | IMAP                               | 854        |
| 10      | Oaklins                            | 832        |

| 2018 | Advisor Rankings <sup>(3)</sup> | # of Deals |
|------|---------------------------------|------------|
| 1.   | KPMG <sup>(1)</sup>             | 464        |
| 2.   | PwC                             | 365        |
| 3.   | Deloitte                        | 339        |
| 4.   | Rothschild & Co.                | 313        |
| 5.   | Houlihan Lokey                  | 261        |
| 6.   | Ernst & Young LLP               | 235        |
| 7.   | BDO                             | 229        |
| 8.   | Lazard                          | 201        |
| 9.   | Sumitomo Mitsui Financial       | 184        |
| 10.  | Oaklins                         | 173        |

| 2018 | TMT Advisor Rankings <sup>(3)</sup> | # of Deals |
|------|-------------------------------------|------------|
| 1.   | KPMG <sup>(1)</sup>                 | 70         |
| 2.   | Deloitte                            | 62         |
| 3.   | BDO                                 | 53         |
| 4.   | PwC                                 | 52         |
| 5.   | Raymond James Financial             | 51         |
| 6.   | Rothschild & Co.                    | 48         |
| 7.   | Ernst & Young LLP                   | 47         |
| 8.   | Oaklins                             | 46         |
| 9.   | Houlihan Lokey                      | 44         |
| 10.  | Sumitomo Mitsui Financial           | 38         |

- Represents the Corporate Finance practices of KPMG International's network of independent member firms.
- Using conversion rate as on November 21. 2018 (1 GBP = 1.279 USD).
- (3) League tables include completed deals which have value between \$0 to \$500mm and also where deal value is not disclosed. Source: Thomson Reuters SDC

# KPMG CF Transaction Spotlight



Acted as the financial advisor to



on the sale of its SmartSpace division to

## INVESTCORP

\$44.8 million<sup>(2)</sup> December 2018

**Buyer** 

Seller

INVESTCORP







## **Overview:**

- A global team of KPMG Corporate Finance professionals from KPMG Corporate Finance LLC in the U.S. and KPMG Corporate Finance UK (collectively "KPMG Corporate Finance) acted as the exclusive financial advisor to Ubisense on the sale of its SmartSpace division to Investcorp Technology Partners, an affiliate of Investcorp Bank B.S.C., for an enterprise value of £35.0 million (\$44.8 million)<sup>(2)</sup>.
- SmartSpace provides an Industrial Internet of Things ("I-IoT") platform for realtime linkage of customers' information technology and discrete manufacturing activities.
- SmartSpace's solution includes a highly scalable, modular software platform and Real-Time Location System ("RTLS") sensing hardware. The SmartSpace platform converts dynamic location data into actionable information in order to form a digital twin, enabling enhanced optimization, visualization, analytics and control of industrial processes.

## **Engagement:**

- The key factors leading to KPMG Corporate Finance's selection as advisor were our industry knowledge of I-IoT technology and business models, our history as a leading IoT transaction advisor, our knowledge of key strategic and financial buyers, the team's carve out transaction expertise, as well as our ability to present a world class, cross-border investment banking team to the client's board.
- KPMG US originated the opportunity and partnered closely with the UK Technology Investment Banking team who were integral in winning the engagement and supporting the sell side process
- Additionally, the FDD team in London was brought in to deliver a seller's QoE report.



Acted as the lead financial advisor to



on its sale to



Value not disclosed October 2018





## Overview:

- KPMG Corporate Finance LLC ("KPMG CF") acted as the exclusive investment banking advisor to tCell on its sale to Rapid7.
  - tCell is a best-in-class security platform designed to protect web applications in the cloud. tCell combines the best features of web application firewalls and runtime application self-protection, and is the only next generation web application firewall designed for cloud deployment in production environments.

## **Engagement:**

 KPMG CF's deep industry knowledge, effective positioning, strong relationships with strategic and financial acquirers, and ability to drive a competitive process resulted in a successful outcome for all parties.

Represents the Corporate Finance practices of KPMG International's network of independent member firms. Using conversion rate as on November 21. 2018 (1 GBP = 1.279 USD).



## Global TMT Sector M&A Activity

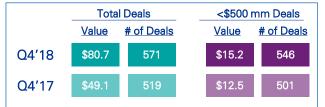
- Driven by a wave of mega deals announced by the likes of IBM, HCL, and SAP, the TMT sector registered 2,298 deals aggregating \$200.6 billion in the last quarter of 2018, making 2018 a record year in terms of deal value, surpassing the previous record set in 2015.
- The largest deal announced in the quarter was IBM's \$33.6 billion acquisition of Red Hat. Once completed, this will represent the largest software deal and the third largest technology acquisition.
- On similar lines, deal value in the mid-market segment (<\$500 million) witnessed a Y-o-Y growth of ~23% with deal value increasing from \$39.5 billion in Q4'2017 to \$48.6 billion in Q4'2018.
- Supported by continued high volume of dry powder, private equity activity picked up in the quarter, reaching a total of 208 deals, compared to 174 deals in Q3'2018.
- Strengthened by continued activity in the machine learning, cloud computing, IoT, converged IT infrastructure, and big data space, both financial and strategic players are expected to carry the momentum in deal volume through the coming year.

## Sub-sector M&A activity

(Aggregate values in \$ billions) (5)

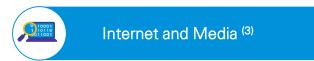


## Communications Technology and Electronics (1)

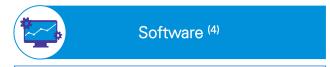




|       | Tota         | al Deals   | <b>&lt;\$500</b> | mm Deals   |
|-------|--------------|------------|------------------|------------|
|       | <u>Value</u> | # of Deals | <u>Value</u>     | # of Deals |
| Q4′18 | \$8.3        | 423        | \$6.2            | 421        |
| Q4′17 | \$10.4       | 431        | \$5.1            | 426        |



|       | Tota         | l Deals    | <b>&lt;\$</b> 500 | mm Deals   |
|-------|--------------|------------|-------------------|------------|
|       | <u>Value</u> | # of Deals | <u>Value</u>      | # of Deals |
| Q4'18 | \$32.4       | 564        | \$11.1            | 548        |
| Q4'17 | \$117.5      | 673        | \$9.7             | 661        |
|       |              |            |                   |            |



|       | Tota         | ıl Deals   | <\$500 m     | m Deals    |
|-------|--------------|------------|--------------|------------|
|       | <u>Value</u> | # of Deals | <u>Value</u> | # of Deals |
| Q4′18 | \$79.1       | 740        | \$16.0       | 723        |
| Q4′17 | \$43.9       | 767        | \$12.2       | 751        |

Notes: We have sourced the sub-sector classifications from Capital IQ as below:

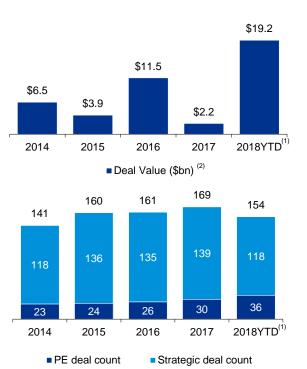
- (1) Communications Technology and Electronics: Computers & Peripherals; Electronics; Semiconductors; Space and Satellites; Telecommunications Equipment; Telecommunications Services; Wireless; and Other Telecom.
- (2) IT Services and BPO: Companies/targets with primary industry classification as IT Consulting & Services.
- (3) Internet and Media: Advertising & Marketing; Broadcasting; Cable; Casinos & Gaming; E-commerce / B2B; Internet and Catalog Retailing; Internet Infrastructure; Motion Pictures / Audio Visual; Publishing; and Other Media & Entertainment.
- (4) Software: Companies/targets with primary industry classification as Internet Software & Services; Software; and Other High Technology.
- (5) Deal Values are based on transactions with disclosed deal values only.

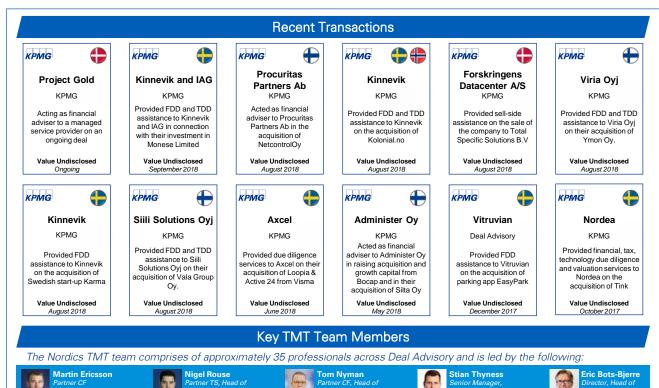
Sources: Thomson One and other publicly available information.



## Country Spotlight: KPMG CF's Technology Practice in Nordics

- Fueled by stable political climate and positive policy framework, TMT M&A activity in the Nordics region has posted strong numbers and overall growth in 2018.
- Some of the key trends observed in the Nordics M&A space are:
  - o Pushed by two megadeals: Danish telecom operator, TDC's \$6.7 billion take-private deal, and the \$4.2 billion<sup>(2)</sup> acquisition of Sweden based Com Hem Holding by Tele2 AB, Nordic TMT M&A saw a 780% increase in value, with the total deal value amounting from \$2.2 billion<sup>(2)</sup> in 2017 to \$19.1 billion<sup>(2)</sup> till YTD 2018<sup>(1)</sup>.
  - In terms of deal value, TMT deals constituted ~30% of all the deals in the region for YTD 2018<sup>(1)</sup>.
  - Private and venture capital investment scaled their highest levels in terms of volume, with PE players showing interest in both small and large IT companies.
  - Nordic private equity saw 36 TMT deals in YTD 2018<sup>(1)</sup>
     a 20% increase in volume compared to 2017.
  - o In the last few years, the region has witnessed large scale consolidation in the telecom sector. This can be highlighted through the recent acquisition of TDC Group and the merger of several regional telecom businesses.







Using conversion rate as on January 14. 2019 (1 Euro = 1.146 USD).



## Global TMT M&A Trend: Q1'16 - Q4'18



## Global TMT M&A Trend by Buyer Type: Q1'16 - Q4'18



## Global TMT Mid-Market M&A Trend (<\$500 mm) (1): Q1'16 – Q4'18

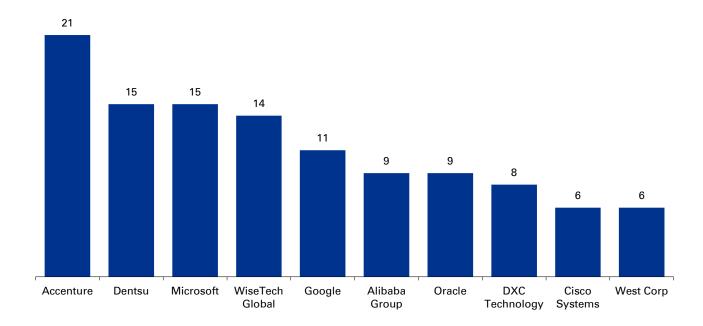


(1) Based on deals with disclosed deal values only. Source: Thomson One



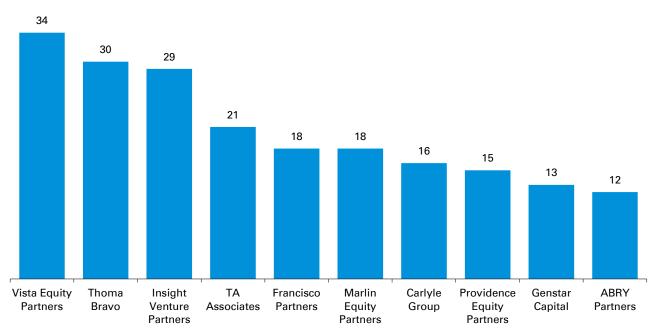
## Top 10 Active Global TMT Strategic Buyers: TTM Q4'18

## Number of acquisitions in the period



Top 10 Active Global TMT Financial Buyers: TTM Q4'18 (1)

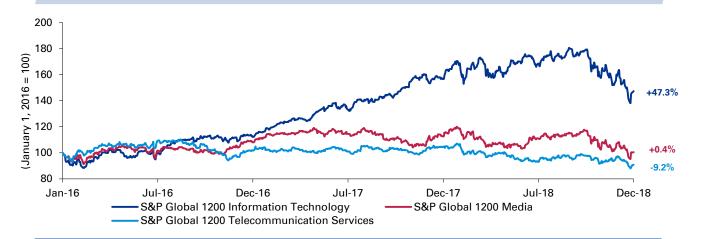
## Number of acquisitions in the period



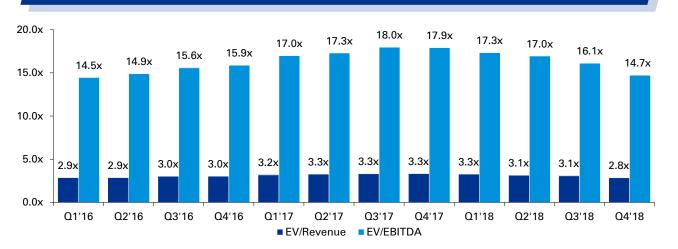
Note: 1. PE deals include bolt-on acquisitions to existing portfolio companies. Source: 451 Research



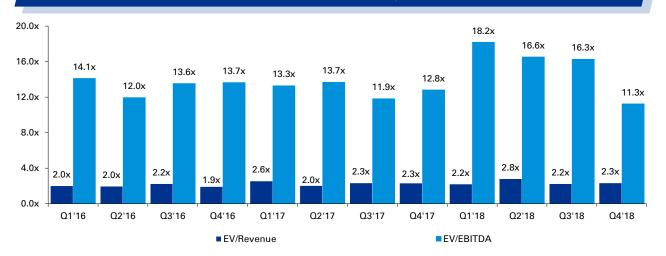
## S&P Global TMT Index Price Performance: Q1'16 – Q4'18



## Global TMT Public LTM Multiples (1,2): Q1'16 - Q4'18



## Global TMT M&A Transactions LTM Multiples (2): Q1'16 - Q4'18



<sup>(1)</sup> Trading multiples include average multiples calculated for all the 'Public Companies' operating in the TMT space (with market capitalization of at least \$500mm) classified under the primary industry classifications listed on all major exchanges globally.

<sup>(2)</sup> EV/Revenue and EV/EBITDA multiples greater than 10.0x and 50.0x, respectively, were excluded from the analysis. Source: Thomson One, Capital IQ.



## Global TMT Selected Public Comps: Communications Technology & Electronics

|  | М                 | arket D  | ata             |           |            |              |           |           | Operating    | Metrics     |              |               |      | Val    | uation | Multip | les    |      |
|--|-------------------|----------|-----------------|-----------|------------|--------------|-----------|-----------|--------------|-------------|--------------|---------------|------|--------|--------|--------|--------|------|
| \$ value millions,<br>except per share | Latest<br>Quarter | Share    | % of 52<br>Week | Market    | Enterprise |              | Revenue   |           | Revenue      | Growth (3)  | LTM<br>Gross | LTM<br>EBITDA | EV   | / Reve | nue    | EV     | /EBITE | )A   |
| Company Name                           | Ending            | Price    | High            | Cap. (1)  | Value (2)  | LTM          | 2018E     | 2019E     | 2017 – 2018E | 2018E-2019E | Margin%      | Margin%       | LTM  | 2018E  | 2019E  | LTM    | 2018E  | 2019 |
| Communication Ser                      | rvices            |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| erizon erizon                          | Sep-18            | \$56.22  | 91.3%           | \$232,302 | \$345,611  | \$130,537    | \$130,927 | \$132,346 | 4.6%         | 1.1%        | 58.8%        | 36.5%         | 2.6x | 2.6x   | 2.6x   | 7.3x   | 7.3x   | 7.13 |
| T&T                                    | Sep-18            | \$28.54  | 72.6%           | \$207,714 | \$385,258  | \$164,439    | \$174,040 | \$185,421 | 8.7%         | 6.5%        | 52.8%        | 31.2%         | 2.3x | 2.2x   | 2.1x   | 7.5x   | 6.8x   | 6.3  |
| china Mobile                           | Sep-18            | \$9.62   | 89.6%           | \$197,007 | \$129,304  | \$107,545    | \$108,335 | \$111,226 | (5.4%)       | 2.7%        | 67.9%        | 39.9%         | 1.2x | 1.2x   | 1.2x   | 3.0x   | 3.2x   | 3.2  |
| eutsche Telekom                        | Sep-18            | \$16.95  | 94.7%           | \$80,324  | \$158,485  | \$89,425     | \$86,041  | \$89,898  | (4.6%)       | 4.5%        | 31.0%        | 27.6%         | 1.8x | 1.8x   | 1.8x   | 6.4x   | 6.0x   | 5.7  |
| ITT                                    | Sep-18            | \$40.85  | 82.2%           | \$77,950  | \$129,818  | \$104,874    | NA        | \$108,373 | NA           | NA          | 51.1%        | 26.6%         | 1.2x | NA     | 1.2x   | 4.7x   | NA     | 4.5  |
| odafone                                | Sep-18            | \$1.95   | 63.8%           | \$52,069  | \$89,575   | \$52,622     | \$52,884  | \$52,856  | (11.0%)      | (0.1%)      | 30.0%        | 26.5%         | 1.7x | 1.7x   | 1.7x   | 6.4x   | 5.4x   | 5.3  |
| elefónica                              | Sep-18            | \$8.40   | 85.3%           | \$43,076  | \$107,843  | \$57,804     | \$55,804  | \$56,060  | (10.7%)      | 0.5%        | 59.9%        | 34.1%         | 1.9x | 1.9x   | 1.9x   | 5.5x   | 5.9x   | 5.9  |
| range S.A.                             | Jun-18            | \$16.21  | 92.8%           | \$42,990  | \$81,686   | \$48,151     | \$47,181  | \$48,235  | (4.1%)       | 2.2%        | 39.1%        | 30.4%         | 1.7x | 1.7x   | 1.7x   | 5.6x   | 5.5x   | 5.4  |
| SingTel                                | Sep-18            | \$2.15   | 80.3%           | \$35,108  | \$42,410   | \$12,814     | \$12,698  | \$12,861  | (3.0%)       | 1.3%        | 29.4%        | 28.2%         | 3.3x | 3.3x   | 3.3x   | 11.7x  | 11.6x  | 11.7 |
| <sup>r</sup> elstra                    | Jun-18            | \$2.01   | 75.3%           | \$23,864  | \$35,593   | \$19,239     | \$19,942  | \$19,269  | (11.1%)      | (3.4%)      | 47.1%        | 25.4%         | 1.9x | 1.8x   | 1.8x   | 7.3x   | 5.3x   | 5.73 |
|  |                   |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| Comm. Services Up                      | per Quai          | tile     | 90.9%           |           |            |              |           |           |              |             |              |               | 2.2x | 2.2x   | 2.0x   | 7.3x   | 6.8x   | 6.2  |
| Comm. Services Me                      | edian             |          | 83.8%           |           |            |              |           |           |              |             |              |               | 1.8x | 1.8x   | 1.8x   | 6.4x   | 5.9x   | 5.6  |
| Comm. Services Lo                      | wer Qua           | rtile    | 76.5%           |           |            |              |           |           |              |             |              |               | 1.7x | 1.7x   | 1.7x   | 5.5x   | 5.4x   | 5.4  |
|  |                   |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| Communication Ted                      | hnology           |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| isco Systems                           | Oct-18            | \$43.33  | 87.6%           | \$194,810 | \$177,862  | \$50,266     | \$50,802  | \$52,285  | 5.8%         | 2.9%        | 62.2%        | 30.0%         | 3.5x | 3.5x   | 3.4x   | 11.8x  | 9.9x   | 9.6  |
| SMC                                    | Sep-18            | \$7.37   | 84.1%           | \$191,026 | \$176,243  | \$33,428     | \$33,678  | \$36,225  | 2.3%         | 7.6%        | 48.9%        | 65.9%         | 5.3x | 5.2x   | 4.9x   | 8.0x   | 8.0x   | 7.4  |
| roadcom                                | Nov-18            | \$254.28 | 92.7%           | \$103,561 | \$116,762  | \$20,848     | \$21,388  | \$24,985  | 13.5%        | 16.8%       | 66.3%        | 45.9%         | 5.6x | 5.5x   | 4.7x   | 12.2x  | 8.2x   | 7.7  |
| (eyence                                | Sep-18            | \$507.50 | 76.9%           | \$61,541  | \$52,887   | \$5,069      | \$5,329   | \$5,856   | 22.6%        | 9.9%        | 82.4%        | 56.3%         | NM   | 9.9x   | 9.0x   | 18.5x  | 17.9x  | 16.1 |
| lokia                                  | Sep-18            | \$5.76   | 93.4%           | \$32,211  | \$29,851   | \$25,963     | \$25,588  | \$26,547  | (7.1%)       | 3.7%        | 39.6%        | 10.4%         | 1.1x | 1.2x   | 1.1x   | 11.0x  | 9.4x   | 7.6  |
| oxconn (Hon Hai)                       | Sep-18            | \$2.31   | 58.2%           | \$32,061  | \$35,384   | \$171,005    | \$166,401 | \$167,732 | 6.1%         | 0.8%        | 6.0%         | 3.1%          | 0.2x | 0.2x   | 0.2x   | 6.6x   | 6.3x   | 5.8  |
| ricsson                                | Sep-18            | \$8.77   | 91.0%           | \$28,863  | \$27,948   | \$22,592     | \$23,389  | \$23,428  | (5.3%)       | 0.2%        | 32.7%        | 3.2%          | 1.2x | 1.2x   | 1.2x   | 38.5x  | 13.2x  | 9.1  |
| leetCor Technologies                   | Sep-18            | \$185.72 | 80.7%           | \$16,464  | \$20,012   | \$2,400      | \$2,412   | \$2,585   | 7.4%         | 7.2%        | 79.2%        | 53.8%         | 8.3x | 8.3x   | 7.7x   | 15.5x  | 14.7x  | 13.5 |
| Citrix                                 | Sep-18            | \$102.46 | 87.7%           | \$13,808  | \$14,131   | \$2,950      | \$2,963   | \$3,085   | 4.9%         | 4.1%        | 86.9%        | 30.9%         | 4.8x | 4.8x   | 4.6x   | 15.5x  | 12.9x  | 12.6 |
| TE                                     | Sep-18            | \$2.85   | 50.4%           | \$11,218  | \$12,683   | \$13,248     | \$12,597  | \$14,938  | (26.1%)      | 18.6%       | 31.2%        | (0.8%)        | 1.0x | 1.0x   | 0.8x   | NM     | 15.2x  | 9.3  |
| luniper Networks                       | Sep-18            | \$26.91  | 87.4%           | \$9,288   | \$8,037    | \$4,706      | \$4,691   | \$4,787   | (6.6%)       | 2.0%        | 59.1%        | 17.9%         | 1.7x | 1.7x   | 1.7x   | 9.6x   | 7.7x   | 7.4  |
| Amdocs                                 | Sep-18            | \$58.58  | 81.7%           | \$8,176   | \$7,700    | \$3,975      | \$4,006   | \$4,125   | 2.9%         | 3.0%        | 34.7%        | 18.2%         | 1.9x | 1.9x   | 1.9x   | 10.6x  | 9.6x   | 8.93 |
|  |                   |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| Comm. Technology                       | Upper Q           | uartile  | 88.5%           |           |            |              |           |           |              |             |              |               | 5.0x | 5.3x   | 4.8x   | 15.5x  | 13.5x  | 10.4 |
| Comm. Technology                       | Median            |          | 85.8%           |           |            |              |           |           |              |             |              |               | 1.9x | 2.7x   | 2.6x   | 11.8x  | 9.8x   | 9.0  |
| Comm. Technology                       | Lower 0           | luartile | 79.7%           |           |            |              |           |           |              |             |              |               | 1.2x | 1.2x   | 1.2x   | 10.1x  | 8.2x   | 7.6  |
|  |                   |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| <u>lectronics</u>                      |                   |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |
| pple                                   | Sep-18            | \$157.74 | 67.6%           | \$748,539 | \$796,721  | <del> </del> | \$268,531 |           | 12.6%        | 4.4%        | 38.3%        | 30.8%         | 3.0x | 3.0x   | 2.8x   | 9.7x   | 9.7x   | 9.6  |
| amsung                                 | Sep-18            | \$34.76  | 71.5%           | \$230,997 | \$171,905  | \$225,656    | ļ         |           | (0.7%)       | (0.8%)      | 46.5%        | 35.2%         | 0.8x | 0.8x   | 0.8x   | 2.2x   | 2.2x   | 2.4  |
| ony Corporation                        | Sep-18            | \$48.54  | 76.4%           | \$61,616  | \$57,522   | \$77,106     | \$80,010  | \$80,824  | 7.5%         | 1.0%        | 27.7%        | 12.7%         | 0.7x | 0.7x   | 0.7x   | 5.9x   | 5.1x   | 5.0  |
| anon                                   | Sep-18            | \$27.35  | 68.3%           | \$29,534  | \$31,106   | \$35,369     | \$36,549  | \$36,743  | 0.8%         | 0.5%        | 47.2%        | 15.5%         | 0.9x | 0.9x   | 0.8x   | 5.7x   | 5.8x   | 5.8  |
| anasonic Corporation                   | Sep-18            | \$9.03   | 56.9%           | \$21,058  | \$23,163   | \$71,661     | \$74,796  |           | 8.1%         | 3.6%        | 28.6%        | 8.0%          | 0.3x | 0.3x   | 0.3x   | 4.1x   | 3.7x   | 3.3  |
| G Electronics Inc.                     | Sep-18            | \$55.96  | 54.4%           | \$9,522   | \$17,556   | \$56,334     | \$55,822  | \$59,641  | (1.4%)       | 6.8%        | 24.4%        | 7.9%          | 0.3x | 0.3x   | 0.3x   | 4.0x   | 4.0x   | 3.7  |
| enovo                                  | Sep-18            | \$0.68   | 88.2%           | \$8,116   | \$11,604   | \$48,869     | \$49,939  | \$51,877  | 13.9%        | 3.9%        | 13.8%        | 3.7%          | 0.2x | 0.2x   | 0.2x   | 6.5x   | 6.7x   | 6.2  |
|  |                   |          |                 |           |            |              |           |           |              |             |              |               |      |        |        |        |        |      |

Source: Capital IQ. Financials are calendarized to December year-end.

68.3%

62.2%



Electronics Median

Electronics Lower Quartile

0.7x 0.7x 0.7x 5.7x 5.2x 5.0x

0.3x 0.3x 0.3x 4.0x 3.8x 3.6x

<sup>(1)</sup> Market Data including Market Capitalization amounts are based on closing share prices as of December 31, 2018.

<sup>(2)</sup> Enterprise Value (EV) equals Market Capitalization plus Debt, Preferred Equity, and Minority Interest, minus Cash and Cash Equivalents.

<sup>(3)</sup> EBITDA equals Earnings before Interest, Taxes, Depreciation, and Amortization.

## Global TMT Selected Transactions (1): Communications Technology & Electronics

| Announced Date | Target Name  | Target<br>Country | Acquirer Name  | Deal Value<br>(\$ mm) | EV /<br>Revenue | EV /<br>EBITDA |
|----------------|--|-------------------|--|-----------------------|-----------------|----------------|
| 26-Dec-2018    | Frontline P.C.B. Solutions                           | Israel            | Orbotech Ltd.  | \$95                  | -               | -              |
| 20-Dec-2018    | Small Giant Games Oy                                 | Finland           | Zynga Inc.   | \$560                 | -               | -              |
| 19-Dec-2018    | WirelessCar [Volvo Group]                            | Sweden            | Volkswagen AG  | \$121                 | 2.2x            | -              |
| 18-Dec-2018    | Luxtera Inc.   | U.S.              | Cisco Systems Inc.   | \$660                 | -               | -              |
| 14-Dec-2018    | Antelliq Group [BC Partners]                         | U.S.              | Merck & Co. Inc.   | \$2,400               | 8.9x            | -              |
| 12-Dec-2018    | Sparton Corporation                                  | U.S.              | Cerberus Capital Management                                | \$182                 | 0.5x            | 6.9x           |
| 12-Dec-2018    | Kcell JSC [Telia<br>Company/Fintur Holdings]         | Kazakhstan        | Kazakhtelecom JSC  | \$446                 | 1.0x            | 2.7x           |
| 07-Dec-2018    | Pioneer Corp.  | Japan             | Baring Private Equity Partners                             | \$902                 | 0.2x            | 3.2x           |
| 03-Dec-2018    | Reciprocal Labs Corp.                                | U.S.              | ResMed Inc.  | \$225                 | -               | _              |
| 27-Nov-2018    | SSI Controls Technologies                            | U.S.              | Amphenol Corporation                                       | \$400                 | 2.2x            | -              |
| 26-Nov-2018    | E2M Technologies B.V.                                | Netherlands       | MTS Systems Corporation                                    | \$80                  | -               | _              |
| 21-Nov-2018    | Ubisense Group (RTLS<br>SmartSpace business unit)    | U.K.              | Investcorp Technology Partners                             | \$45                  | 3.2x            | -              |
| 14-Nov-2018    | Astronics Corporation                                | U.S.              | Advantest Corporation                                      | \$185                 | -               | -              |
| 12-Nov-2018    | Siltectra GmbH [MIG AG]                              | Germany           | Infineon Technologies AG                                   | \$142                 | -               | -              |
| 09-Nov-2018    | Finisar Corporation                                  | U.S.              | II-VI Incorporated   | \$3,200               | 2.6x            | -              |
| 09-Nov-2018    | Amimon Inc.  | U.S.              | The Vitec Group PLC  | \$55                  | -               | -              |
| 08-Nov-2018    | ARRIS International plc                              | U.S.              | CommScope Inc.   | \$7,400               | 1.3x            | 14.4x          |
| 30-Oct-2018    | Electro Scientific Industries                        | U.S.              | MKS Instruments Inc.                                       | \$1,041               | 2.4x            | 8.8x           |
| 29-Oct-2018    | Alpha Technologies Inc.                              | U.S.              | EnerSys  | \$750                 | 1.3x            | -              |
| 26-Oct-2018    | Clarion Co. Ltd. [Hitachi]                           | Japan             | Faurecia SA  | \$1,256               | 0.7x            | 8.9x           |
| 24-Oct-2018    | Advanced Traffic Solutions                           | U.S.              | Cubic Corporation  | \$236                 | -               | -              |
| 24-Oct-2018    | Tactilis Sdn Bhd                                     | Malaysia          | Global Invacom Group Ltd.                                  | \$198                 | -               | -              |
| 22-Oct-2018    | Suzhou Huaqi Intelligent<br>Technology Co. [NetPosa] | China             | BII Railway Transportation<br>Technology Holdings Co. Ltd. | \$159                 | -               | -              |
| 14-Oct-2018    | L3 Technologies Inc.                                 | U.S.              | Harris Corporation   | \$15,640              | 1.8x            | -              |
| 11-Oct-2018    | Dialog Semiconductor                                 | Germany           | Apple Inc.   | \$300                 | -               | -              |
| 11-Oct-2018    | Spireon Inc. [Bertram Capital                        | ] U.S.            | Greenbriar Equity Group LLC                                | \$350                 | -               | -              |
| 10-Oct-2018    | Esterline Technologies                               | U.S.              | TransDigm Group Incorporated                               | \$3,607               | 1.9x            | 9.7x           |
| 08-Oct-2018    | Cable Onda S.A.                                      | Panama            | Millicom International Cellular                            | \$1,002               | 3.1x            | 7.3x           |
| 08-Oct-2018    | Asia Pacific Data Centre                             | Australia         | NEXTDC Ltd.  | \$148                 | 3.1x            | -              |
| 02-Oct-2018    | Starhome BV [Fortissimo<br>Capital]                  | Switzerland       | Vista Equity Partners Management                           | \$100                 | -               | -              |
| Upper Quartile |  |                   |  |                       | 2.7x            | 9.1x           |
| Median         |  |                   |  |                       | 2.1x            | 8.1x           |
| Lower Quartile |  |                   |  |                       | 1.2x            | 6.0x           |



## Global TMT Selected Public Comps: IT Services and BPO (1/2)

|  | N                 | 1arket C | ata             |           |            |          | Operating Metrics |          |              |               |              |               | Valuation Multiples |              |       |       |        |       |
|--|-------------------|----------|-----------------|-----------|------------|----------|-------------------|----------|--------------|---------------|--------------|---------------|---------------------|--------------|-------|-------|--------|-------|
| \$ value millions,<br>except per share | Latest<br>Quarter | Share    | % of 52<br>Week |           | Enterprise |          | Revenue           |          | Revenue      | Growth (3)    | LTM<br>Gross | LTM<br>EBITDA | EV                  | / Reve       | nue   | EV    | /EBITE | DΑ    |
| Company Name                           | Ending            | Price    | High            | Cap. (1)  | Value (2)  | LTM      | 2018E             | 2019E    | 2017 – 2018E | 2018E - 2019E | Margin%      | Margin%       | LTM                 | 2018E        | 2019E | LTM   | 2018E  | 2019E |
| T Commercial Serv                      | <u>ices</u>       |          |                 |           |            |          |                   |          |              |               |              |               |                     |              |       |       |        |       |
| Accenture                              | Nov-18            | \$141.01 | 80.3%           | \$89,887  | \$85,921   | \$40,295 | \$40,590          | \$43,454 | 14.1%        | 7.1%          | 31.5%        | 16.3%         | 2.1x                | 2.1x         | 2.0x  | 13.1x | 12.5x  | 11.8x |
| CGI Group                              | Sep-18            | \$61.19  | 95.7%           | \$16,915  | \$18,154   | \$8,902  | \$8,529           | \$8,803  | (2.3%)       | 3.2%          | 30.6%        | 16.8%         | 2.0x                | 2.1x         | 2.1x  | 12.2x | 11.6x  | 11.0x |
| Capgemini                              | Jun-18            | \$99.38  | 72.5%           | \$16,134  | \$18,900   | \$15,143 | \$15,067          | \$16,149 | (1.7%)       | 7.2%          | 26.3%        | 12.4%         | 1.2x                | 1.3x         | 1.2x  | 10.0x | 9.0x   | 8.2x  |
| OXC Technology                         | Sep-18            | \$53.17  | 49.3%           | \$14,894  | \$19,478   | \$24,162 | \$21,746          | \$20,818 | 7.9%         | (4.3%)        | 29.0%        | 22.6%         | 0.8x                | 0.9x         | 0.9x  | 3.6x  | 4.0x   | 4.1x  |
| Atos (4)                               | Jun-18            | \$81.84  | 54.6%           | \$8,739   | \$12,723   | \$14,805 | \$14,108          | \$15,632 | (7.8%)       | 10.8%         | 14.5%        | 12.6%         | 0.9x                | 0.9x         | 0.8x  | 6.8x  | 6.7x   | 5.5x  |
| /irtusa                                | Sep-18            | \$42.59  | 72.7%           | \$1,274   | \$1,501    | \$1,151  | \$1,200           | \$1,363  | 24.9%        | 13.6%         | 29.3%        | 7.5%          | 1.3x                | 1.3x         | 1.1x  | 17.3x | 16.1x  | 11.1x |
| Perficient                             | Sep-18            | \$22.26  | 71.6%           | \$739     | \$813      | \$488    | \$495             | \$525    | 9.4%         | 6.1%          | 35.3%        | 11.7%         | 1.7x                | 1.6x         | 1.5x  | 14.3x | 10.9x  | 9.6x  |
| Jnisys                                 | Sep-18            | \$11.63  | 55.5%           | \$593     | \$760      | \$2,809  | \$2,815           | \$2,852  | 4.2%         | 1.3%          | 23.2%        | 10.3%         | 0.3x                | 0.3x         | 0.3x  | 2.6x  | 1.9x   | 1.8x  |
| IT Commercial Svs                      | Upper Q           | uartile  | 74.6%           |           |            |          |                   |          |              |               |              |               | 1.8x                | 1.8x         | 1.7x  | 13.4x | 11.8x  | 10.8x |
| IT Commercial Svs                      | Median            |          | 72.0%           |           |            |          |                   |          |              |               |              |               | 1.3x                | 1.3x         | 1.1x  | 11.1x | 9.9x   | 8.9x  |
| IT Commercial Svs                      | Lower Q           | uartile  | 55.3%           |           |            |          |                   |          |              |               |              |               | 0.8x                | 0.9x         | 0.9x  | 6.0x  | 5.9x   | 5.1x  |
|  |                   |          |                 |           |            |          |                   |          |              |               |              |               |                     |              |       |       |        |       |
| Government Consu                       |                   |          |                 |           |            |          |                   |          |              |               |              |               |                     |              |       |       |        |       |
| Tyler Technologies                     | Sep-18            | \$185.82 | 73.6%           | \$7,214   | \$6,942    | \$911    | \$938             | \$1,039  | 11.2%        | 10.8%         | 47.1%        | 21.3%         | 7.6x                | 7.4x         | 6.7x  | 35.8x | 24.7x  | 21.7x |
| Booz Allen Hamilton                    | Sep-18            | \$45.07  | 85.2%           | \$6,415   | \$7,857    | \$6,367  | \$6,500           | \$6,971  | 5.9%         | 7.2%          | 23.8%        | 9.9%          | 1.2x                | 1.2x         | 1.1x  | 12.4x | 12.2x  | 11.6x |
| MAXIMUS                                | Sep-18            | \$65.09  | 89.5%           | \$4,174   | \$3,807    | \$2,392  | \$2,441           | \$3,023  | (1.1%)       | 23.8%         | 24.8%        | 14.7%         | 1.6x                | 1.6x         | 1.3x  | 10.9x | 10.8x  | 9.3x  |
| CACI International                     | Sep-18            | \$144.03 | 71.7%           | \$3,579   | \$4,599    | \$4,548  | \$4,637           | \$4,923  | 5.6%         | 6.2%          | 33.6%        | 9.7%          | 1.0x                | 1.0x         | 0.9x  | 10.4x | 10.3x  | 10.2× |
| Science Applications<br>nternational   | Nov-18            | \$63.70  | 68.3%           | \$2,710   | \$3,554    | \$4,595  | \$4,587           | \$4,728  | 4.8%         | 3.1%          | 9.8%         | 7.5%          | 0.8x                | 0.8x         | 0.8x  | 10.3x | 10.5x  | 9.9x  |
| ManTech International                  | Sep-18            | \$52.30  | 76.8%           | \$2,078   | \$2,063    | \$1,924  | \$1,955           | \$2,102  | 13.9%        | 7.5%          | 14.5%        | 8.4%          | 1.1x                | 1.1x         | 1.0x  | 12.8x | 12.3x  | 11.1x |
| ICF International                      | Sep-18            | \$64.78  | 78.8%           | \$1,221   | \$1,448    | \$1,281  | \$1,314           | \$1,421  | 8.2%         | 8.1%          | 36.3%        | 8.7%          | 1.1x                | 1.1x         | 1.0x  | 13.0x | 11.8x  | 10.6x |
| Govt. Consulting U                     | pper Qua          | rtile    | 82.0%           |           |            |          |                   |          |              |               |              |               | 1.4x                | 1.4x         | 1.2x  | 12.9x | 12.2x  | 11.4x |
| Govt. Consulting M                     | edian             |          | 76.8%           |           |            |          |                   |          |              |               |              |               | 1.1x                | 1.1x         | 1.0x  | 12.4x | 11.9x  | 10.6x |
| Govt. Consulting Lo                    | ower Qua          | artile   | 72.7%           |           |            |          |                   |          |              |               |              |               | 1.0x                | 1.0x         | 1.0x  | 10.6x | 10.6x  | 10.2x |
| Offshore Consulting                    | ,                 |          |                 |           |            |          |                   |          |              |               |              |               |                     |              |       |       |        |       |
| Vipro                                  | Sep-18            | \$4.74   | 96.0%           | \$21,366  | \$18,299   | \$7,713  | \$8,260           | \$8,898  | (3.5%)       | 7.7%          | 29.3%        | 17.4%         | 2.4x                | 2.2x         | 2.1x  | 13.6x | 12.2x  | 10.7x |
| Fech Mahindra                          | Sep-18            | \$10.39  | 92.6%           | \$9,194   | \$8,132    | \$4,513  | \$4,880           | \$5,423  | 3.2%         | 11.1%         | 34.2%        | 17.0%         | 1.8x                | 1.7x         | 1.5x  | 10.6x | 9.2x   | 8.1x  |
| nfosys                                 | Sep-18            | \$9.47   | 87.3%           | \$41,163  | \$37,506   | \$11,313 | \$11,361          | \$12,784 | 4.3%         | 12.5%         | 34.7%        | 26.5%         | 3.3x                | 3.3x         | 2.9x  | 12.5x | 12.6x  | 11.6x |
| HCL Technologies                       | Sep-18            | \$13.86  | 85.7%           | \$19,296  | \$18,941   | \$8,179  | \$8,336           | \$9,432  | 5.5%         | 13.2%         | 34.8%        | 23.2%         | 2.3x                | 2.3x         | 2.0x  | 10.0x | 9.8x   | 8.5x  |
| Fata Consultancy                       | Sep-18            | \$27.20  | 83.2%           | \$102,061 | \$97,337   | \$18,484 | \$20,250          | \$22,814 | 7.0%         | 12.7%         | 44.7%        | 27.1%         | 5.3x                | 4.8x         | 4.3x  | 19.5x | 17.5x  | 15.5x |
| Services<br>MphasiS                    | Sep-18            | \$14.57  | 79.3%           | \$2,818   | \$2,526    | \$984    | \$1,077           | \$1,244  | 9.5%         | 15.5%         | 43.0%        | 17.3%         | 2.6x                | 2.3x         | 2.0x  | 14.8x | 13.5x  | 11.5x |
| Cognizant                              | Sep-18            | \$63.48  | 74.6%           | \$36,757  | \$32,718   | \$15,824 | \$16,112          |          | 8.8%         | 7.7%          | 39.0%        | 20.9%         | 2.1x                | 2.0x         | 1.9x  | 9.9x  | 9.8x   | 8.7x  |
| Jognizani<br>Mindtree                  | Sep-18            | \$12.40  | 73.0%           | \$2,039   | \$1,925    | \$15,624 | \$959             | \$17,355 | 15.2%        | 17.0%         | 32.0%        | 15.0%         | 2.1x<br>2.2x        | 2.0x<br>2.0x | 1.5x  | 14.9x | 13.1x  | 10.8x |
| Hexaware Technologies                  | +                 | \$4.78   | 59.7%           | \$1,422   | \$1,320    | \$607    | \$670             | \$786    | 8.5%         | 17.0%         | 23.7%        | 15.6%         | 2.2x<br>2.2x        | 2.0x         | 1.7x  | 13.9x | 12.1x  | 10.6x |
|  | .1                |          | .1              |           |            |          |                   |          |              |               |              |               |                     |              |       |       |        |       |
| Offshore Consulting                    |                   |          | 87.3%           |           |            |          |                   |          |              |               |              |               | 2.6x                | 2.4x         | 2.1x  | 14.8x | 13.2x  |       |
| Offshore Consulting                    | g Median          |          | 83.2%           |           |            |          |                   |          |              |               |              |               | 2.3x                | 2.2x         | 2.1x  | 13.6x | 12.1x  | 10.9> |
| Offshore Consulting                    | a Lower (         | Quartile | 74.6%           |           |            |          |                   |          |              |               |              |               | 2.2x                | 2.0x         | 1.8x  | 10.6x | 9.9x   | 8.7x  |

<sup>(4)</sup> Atos is adjusted for Syntel's acquisition.



<sup>(1)</sup> Market Data including Market Capitalization amounts are based on closing share prices as of December 31, 2018.

<sup>(2)</sup> Enterprise Value (EV) equals Market Capitalization plus Debt, Preferred Equity, and Minority Interest, minus Cash and Cash Equivalents.

<sup>(3)</sup> EBITDA equals Earnings before Interest, Taxes, Depreciation, and Amortization.

## Global TMT Selected Public Comps: IT Services and BPO (2/2)

|  | М                 | arket D  | ata             |          |            |          | Operating Metrics |          |            |             |              |               | Valuation Multiples |         |       |       |        |       |  |
|--|-------------------|----------|-----------------|----------|------------|----------|-------------------|----------|------------|-------------|--------------|---------------|---------------------|---------|-------|-------|--------|-------|--|
| \$ value millions,<br>except per share | Latest<br>Quarter | Share    | % of 52<br>Week | Market   | Enterprise |          | Revenue           |          | Revenue    | Growth (3)  | LTM<br>Gross | LTM<br>EBITDA | EV                  | '/Revei | nue   | EV    | /EBITE | DA .  |  |
| Company Name                           | Ending            | Price    | High            | Cap. (1) | Value (2)  | LTM      | 2018E             | 2019E    | 2017-2018E | 2018E-2019E | Margin%      | Margin%       | LTM                 | 2018E   | 2019E | LTM   | 2018E  | 2019E |  |
| Management Consu                       | ılting            |          |                 |          |            |          |                   |          |            |             |              |               |                     |         |       |       |        |       |  |
| TI Consulting                          | Sep-18            | \$66.64  | 81.4%           | \$2,471  | \$2,525    | \$1,991  | \$1,977           | \$2,037  | 10.4%      | 3.0%        | 34.9%        | 13.2%         | 1.3x                | 1.3x    | 1.2x  | 9.6x  | 9.9x   | 10.1x |  |
| Huron Consulting                       | Sep-18            | \$51.31  | 90.0%           | \$1,109  | \$1,416    | \$776    | \$784             | \$822    | 6.6%       | 4.8%        | 35.5%        | 12.0%         | 1.8x                | 1.8x    | 1.7x  | 15.3x | 15.7x  | 13.2x |  |
| Navigant Consulting                    | Sep-18            | \$24.05  | 92.1%           | \$1,024  | \$751      | \$957    | \$692             | \$731    | (27.4%)    | 5.6%        | 30.4%        | 12.9%         | 0.8x                | 1.1x    | 1.0x  | 6.1x  | 11.6x  | 8.9x  |  |
| Γhe Hackett Group                      | Sep-18            | \$16.01  | 70.1%           | \$473    | \$471      | \$270    | \$290             | \$301    | 2.0%       | 3.9%        | 38.2%        | 15.6%         | 1.7x                | 1.6x    | 1.6x  | 11.2x | 9.5x   | 8.8x  |  |
| Resources Connection                   | Aug-18            | \$14.20  | 72.8%           | \$448    | \$479      | \$692    | \$719             | \$745    | 22.6%      | 3.6%        | 38.1%        | 8.3%          | 0.7x                | 0.7x    | 0.6x  | 8.4x  | 11.0x  | 9.2x  |  |
| CRA International                      | Sep-18            | \$42.55  | 72.4%           | \$345    | \$338      | \$406    | \$414             | \$446    | 14.0%      | 7.8%        | 30.6%        | 7.5%          | 0.8x                | 0.8x    | 0.8x  | 11.1x | NA     | NA    |  |
| nformation Services<br>Group           | Sep-18            | \$4.24   | 77.7%           | \$192    | \$277      | \$274    | \$281             | \$297    | 3.0%       | 6.0%        | 42.0%        | 8.9%          | 1.0x                | 1.0x    | 0.9x  | 11.4x | 7.9x   | 7.2x  |  |
| Mgmt. Consulting L                     | Jpper Qu          | artile   | 85.7%           |          |            |          |                   |          |            |             |              |               | 1.5x                | 1.5x    | 1.4x  | 11.3x | 11.4x  | 9.8x  |  |
| Mgmt. Consulting N                     | /ledian           |          | 77.7%           |          |            |          |                   |          |            |             |              |               | 1.0x                | 1.1x    | 1.0x  | 11.1x | 10.5x  | 8.9x  |  |
| Mgmt. Consulting L                     | .ower Qu          | artile   | 72.6%           |          |            |          |                   |          |            |             |              |               | 0.8x                | 0.9x    | 0.8x  | 8.6x  | 9.6x   | 8.2x  |  |
| BPO BPO                                |                   |          |                 |          |            |          |                   |          |            |             |              |               |                     |         |       |       |        |       |  |
| ADP                                    | Sep-18            | \$131.12 | 85.4%           | \$57,395 | \$58,233   | \$13,572 | \$13,766          | \$14,575 | 8.1%       | 5.9%        | 43.7%        | 22.5%         | 4.3x                | 4.2x    | 4.0x  | 19.1x | 19.0x  | 16.2x |  |
| Paychex                                | Nov-18            | \$65.15  | 85.7%           | \$23,395 | \$22,693   | \$3,507  | \$3,461           | \$3,997  | 7.0%       | 15.5%       | 69.6%        | 41.1%         | 6.5x                | 6.6x    | 5.7x  | 15.8x | 16.2x  | 14.2x |  |
| Villis Towers Watson                   | Sep-18            | \$151.86 | 92.0%           | \$19,732 | \$23,626   | \$8,133  | \$8,519           | \$8,871  | 5.0%       | 4.1%        | 39.3%        | 16.8%         | 2.9x                | 2.8x    | 2.7x  | 17.3x | 11.2x  | 10.6x |  |
| ron Mountain                           | Sep-18            | \$32.41  | 85.4%           | \$9,276  | \$17,406   | \$4,156  | \$4,234           | \$4,401  | 11.5%      | 3.9%        | 57.5%        | 34.1%         | 4.2x                | 4.1x    | 4.0x  | 12.3x | 12.1x  | 11.3x |  |
| Feleperformance                        | Jun-18            | \$159.84 | 81.3%           | \$9,232  | \$10,701   | \$4,864  | \$5,070           | \$5,876  | 0.4%       | 15.9%       | 33.9%        | 15.2%         | 2.2x                | 2.1x    | 1.8x  | 14.5x | 12.1x  | 10.3x |  |
| Genpact                                | Sep-18            | \$26.99  | 77.6%           | \$5,130  | \$6,073    | \$2,900  | \$2,977           | \$3,282  | 9.2%       | 10.2%       | 36.4%        | 14.1%         | 2.1x                | 2.0x    | 1.9x  | 14.9x | 12.6x  | 11.0x |  |
| WNS                                    | Sep-18            | \$41.26  | 75.9%           | \$2,060  | \$2,053    | \$790    | \$785             | \$846    | 14.2%      | 7.8%        | 34.9%        | 16.1%         | 2.6x                | 2.6x    | 2.4x  | 16.1x | 13.9x  | 13.3x |  |
| ExIService                             | Sep-18            | \$52.62  | 78.5%           | \$1,803  | \$1,861    | \$846    | \$882             | \$999    | 16.2%      | 13.2%       | 33.9%        | 13.9%         | 2.2x                | 2.1x    | 1.9x  | 15.9x | 12.5x  | 10.6x |  |
| TTEC                                   | Sep-18            | \$28.57  | 67.5%           | \$1,320  | \$1,507    | \$1,517  | \$1,500           | \$1,563  | 4.8%       | 4.2%        | 23.7%        | 11.5%         | 1.0x                | 1.0x    | 1.0x  | 8.6x  | 7.6x   | 7.0x  |  |
| CSG Systems                            | Sep-18            | \$31.77  | 65.1%           | \$1,059  | \$1,220    | \$833    | \$864             | \$942    | 10.3%      | 9.0%        | 49.7%        | 18.6%         | 1.5x                | 1.4x    | 1.3x  | 7.9x  | 6.2x   | 6.0x  |  |
| Sykes Enterprises                      | Sep-18            | \$24.73  | 76.9%           | \$1,055  | \$980      | \$1,630  | \$1,628           | \$1,693  | 3.2%       | 4.0%        | 36.8%        | 9.5%          | 0.6x                | 0.6x    | 0.6x  | 6.3x  | 6.0x   | 5.3x  |  |
| irstsource Solutions                   | Sep-18            | \$0.67   | 55.8%           | \$465    | \$522      | \$504    | \$539             | \$603    | (2.0%)     | 11.8%       | 30.6%        | 13.1%         | 1.0x                | 1.0x    | 0.9x  | 7.9x  | 6.8x   | 6.5x  |  |
| StarTek                                | Jun-18            | \$6.65   | 80.9%           | \$249    | \$461      | \$270    | \$532             | \$659    | NA         | 24.0%       | 9.8%         | 1.8%          | 1.7x                | 0.9x    | 0.7x  | NM    | NA     | 8.1x  |  |
| BPO Upper Quartile                     |                   |          | 85.4%           |          |            |          |                   |          |            |             |              |               | 3.2x                | 2.8x    | 2.7x  | 15.9x | 13.0x  | 11.3x |  |
| BPO Median                             |                   |          | 78.5%           |          |            |          |                   |          |            |             |              |               | 2.2x                | 2.1x    | 1.8x  | 14.7x | 12.1x  | 10.5x |  |
| BPO Lower Quartile                     | ;                 |          | 75.9%           |          |            |          |                   |          |            |             |              |               | 1.4x                | 1.0x    | 1.0x  | 8.4x  | 7.4x   | 7.0x  |  |
| Managed Services                       |                   |          |                 |          |            |          |                   |          |            |             |              |               |                     |         |       |       |        |       |  |
| quinix                                 | Sep-18            | \$352.56 | 76.4%           | \$28,342 | \$38,827   | \$5,022  | \$5,070           | \$5,576  | 16.2%      | 10.0%       | 49.1%        | 44.9%         | 7.7x                | 7.7x    | 7.0x  | 17.2x | 16.1x  | 14.4x |  |
| CenturyLink                            | Sep-18            | \$15.15  | 62.6%           | \$16,372 | \$52,509   | \$22,988 | \$23,460          | \$22,943 | 32.4%      | (2.2%)      | 55.8%        | 36.2%         | 2.3x                | 2.2x    | 2.3x  | 6.3x  | 5.8x   | 5.8x  |  |
|  | Sep-18            | \$38.36  | 86.7%           | \$4,534  | \$4,263    | \$2,202  | \$2,142           | \$2,153  | 0.1%       | 0.5%        | 47.5%        | 7.0%          | 1.9x                | 2.0x    | 2.0x  | 27.7x | 12.9x  | 10.9x |  |
| nternap                                | Sep-18            | \$4.15   | 23.0%           | \$101    | \$788      | \$309    | \$322             | \$328    | 15.2%      | 2.0%        | 55.4%        | 30.0%         | 2.5x                | 2.5x    | 2.4x  | 8.5x  | 7.0x   | 6.4x  |  |
| Managed Services l                     | Jpper Qι          | ıartile  | 78.9%           |          |            |          |                   |          |            |             |              |               | 3.8x                | 3.8x    | 3.5x  | 19.8x | 13.7x  | 11.8x |  |
| Managed Services I                     | Median            |          | 69.5%           |          |            |          |                   |          |            |             |              |               | 2.4x                | 2.3x    | 2.3x  | 12.9x | 9.9x   | 8.7x  |  |
| Managed Services I                     | Lower Qu          | ıartile  | 52.7%           |          |            |          |                   |          |            |             |              |               | 2.2x                | 2.2x    | 2.2x  | 7.9x  | 6.7x   | 6.3x  |  |

<sup>(3)</sup> EBITDA equals Earnings before Interest, Taxes, Depreciation, and Amortization.



<sup>(1)</sup> Market Data including Market Capitalization amounts are based on closing share prices as of December 31, 2018.

<sup>(2)</sup> Enterprise Value (EV) equals Market Capitalization plus Debt, Preferred Equity, and Minority Interest, minus Cash and Cash Equivalents.

## Global TMT Selected Transactions (1): IT Services and BPO

| Announced Date | Target Name                                  | Target<br>Country | Acquirer Name   | Deal Value<br>(\$ mm) | EV /<br>Revenue | EV /<br>EBITDA |
|----------------|--|-------------------|---|-----------------------|-----------------|----------------|
| 27-Dec-2018    | KMD A/S [Advent<br>International]            | Denmark           | NEC Corporation   | \$1,221               | 1.4x            | -              |
| 18-Dec-2018    | Orbis Education Services                     | U.S.              | Grand Canyon Education Inc.   | \$363                 | -               | -              |
| 18-Dec-2018    | 4Degrees Colocation Inc.<br>[Quebecor]       | Canada            | Vantage Data Centers [Digital<br>Bridge Holdings / PSP Investments<br>/ TIAA Investments] | \$193                 | -               | -              |
| 11-Dec-2018    | intive S.A. [Enterprise Investors]           | Germany           | Mid Europa Partners   | \$114                 | 1.2x            | -              |
| 26-Nov-2018    | Oasis Outsourcing [MBO]                      | U.S.              | Paychex Inc.  | \$1,200               | 0.1x            | -              |
| 09-Nov-2018    | MC Assembly Holdings Inc.                    | U.S.              | SMTC Corporation  | \$65                  | 0.4x            | 6.2x           |
| 08-Nov-2018    | PlumChoice Inc.                              | U.S.              | Allstate Corporation  | \$30                  | -               | -              |
| 08-Nov-2018    | Stelligent Systems LLC<br>[Hosting.com]      | U.S.              | MphasiS Ltd. [Blackstone Group]   | \$25                  | -               | -              |
| 06-Nov-2018    | ConvergeOne Holdings Inc.                    | U.S.              | CVC Capital Partners Limited  | \$1,800               | 1.3x            | 21.2x          |
| 22-Oct-2018    | JetPay Corp.                                 | U.S.              | NCR Corp.   | \$184                 | 2.4x            | 30.8x          |
| 22-Oct-2018    | Symphony Ventures Limited                    | U.K.              | Sykes Enterprises Inc.  | \$69                  | -               | -              |
| 10-Oct-2018    | Impakt Holdings LLC<br>[Graycliff Partners]  | U.S.              | Celestica Inc.  | \$329                 | -               | -              |
| 09-Oct-2018    | Learning House Inc., The [Weld North]        | U.S.              | John Wiley & Sons Inc.  | \$200                 | -               | -              |
| 09-Oct-2018    | General Dynamics Information Technology Inc. | U.S.              | MAXIMUS Inc.  | \$400                 | -               | -              |
| 04-Oct-2018    | Softvision Consulting [Tower Arch Capital]   | U.S.              | Cognizant Technology Solutions  | \$550                 | 3.7x            | -              |
| 01-Oct-2018    | COR Clearing LLC                             | U.S.              | Axos Financial Inc.   | \$85                  | -               | -              |
| 01-Oct-2018    | FusionStorm                                  | U.S.              | Computacenter (UK) Ltd.   | \$70                  | -               | -              |
| Upper Quartile |  |                   |   |                       | 1.9x            | 26.0x          |
| Median         |  |                   |   |                       | 1.3x            | 21.2x          |
| Lower Quartile |  |                   |   |                       | 0.8x            | 13.7x          |



## Global TMT Selected Public Comps: Internet and Media

|   | Ma                | arket Da   | ata             |           |            |           |           |           | Operating Metrics |               |              |               |              | Valuation Multiples |              |         |                |     |  |
|---|-------------------|------------|-----------------|-----------|------------|-----------|-----------|-----------|-------------------|---------------|--------------|---------------|--------------|---------------------|--------------|---------|----------------|-----|--|
| \$ value millions,<br>except per share    | Latest<br>Quarter | Share      | % of 52<br>Week | Market    | Enterprise |           | Revenue   |           | Revenue           | Growth (3)    | LTM<br>Gross | LTM<br>EBITDA | EV / Revenue |                     | nue          | EV/EBIT |                | DΑ  |  |
| Company Name                              | Ending            | Price      | High            | Cap. (1)  | Value (2)  | LTM       | 2018E     | 2019E     | 2017 – 2018E      | 2018E - 2019E | Margin%      | Margin%       | LTM          | 2018E               | 2019E        | LTM     | 2018E          | 201 |  |
| nternet                                   |                   |            |                 |           |            |           |           |           |                   |               |              |               |              |                     |              |         |                |     |  |
| mazon.com                                 | Sep-18            | \$1,501.97 | 73.2%           | \$734,416 | \$751,870  | \$220,957 | \$232,378 | \$280,755 | 31.0%             | 20.8%         | 39.9%        | 11.3%         | 3.4x         | 3.2x                | 2.7x         | 30.2x   | 22.7x          | 17. |  |
| lphabet Inc.                              | Sep-18            | \$1,044.96 | 80.9%           | \$723,465 | \$621,035  | \$129,866 | \$136,476 | \$160,678 | 23.9%             | 17.7%         | 57.0%        | 30.3%         | 4.8x         | 4.6x                | 3.9x         | 15.8x   | 12.4x          | 10. |  |
| encent                                    | Sep-18            | \$40.10    | 65.9%           | \$379,116 | \$387,514  | \$42,829  | \$45,514  | \$59,022  | 23.4%             | 29.7%         | 47.1%        | 37.5%         | 9.0x         | 8.5x                | 6.6x         | 24.1x   | 22.6x          | 19  |  |
| acebook                                   | Sep-18            | \$131.09   | 60.0%           | \$376,725 | \$335,589  | \$51,896  | \$55,353  | \$68,809  | 37.5%             | 24.3%         | 84.3%        | 54.7%         | 6.5x         | 6.1x                | 4.9x         | 11.8x   | 10.1x          | 9.  |  |
| libaba                                    | Sep-18            | \$137.07   | 64.7%           | \$352,534 | \$356,970  | \$45,281  | \$50,452  | \$70,638  | 46.7%             | 40.0%         | 49.4%        | 26.9%         | 7.9x         | 7.1x                | 5.1x         | 29.3x   | 21.4x          | 16  |  |
| aidu                                      | Sep-18            | \$158.60   | 55.8%           | \$55,282  | \$49,155   | \$14,418  | \$14,673  | \$17,140  | 13.2%             | 16.8%         | 58.2%        | 34.3%         | 3.4x         | 3.4x                | 2.9x         | 9.9x    | 12.7x          | 11. |  |
| Bay                                       | Sep-18            | \$28.07    | 59.7%           | \$27,027  | \$31,437   | \$10,216  | \$10,735  | \$11,286  | 12.2%             | 5.1%          | 76.9%        | 29.2%         | 3.1x         | 2.9x                | 2.8x         | 10.5x   | 8.7x           | 8.  |  |
| witter                                    | Sep-18            | \$28.74    | 60.1%           | \$21,806  | \$18,558   | \$2,865   | \$3,001   | \$3,404   | 25.3%             | 13.4%         | 68.1%        | 23.5%         | 6.5x         | 6.2x                | 5.5x         | 27.5x   | 16.2x          | 14  |  |
| inap                                      | Sep-18            | \$5.51     | 26.0%           | \$7,135   | \$5,721    | \$1,076   | \$1,165   | \$1,534   | 47.1%             | 31.7%         | 31.5%        | (118.3%)      | 5.3x         | 4.9x                | 3.7x         | NM      | NM             | N   |  |
| tsy                                       | Sep-18            | \$47.57    | 81.6%           | \$5,730   | \$5,426    | \$540     | \$598     | \$777     | 36.8%             | 29.8%         | 67.1%        | 15.9%         | NM           | 9.1x                | 7.0x         | NM      | 39.6x          | 28  |  |
| nternet Upper Qua                         | rtilo             |            | 71.4%           |           |            |           |           |           |                   |               |              |               | 6.5x         | 6.9x                | 5.3x         | 28.0x   | 22.6x          | 17  |  |
| nternet Median                            | Tuie              |            | 62.4%           |           |            |           |           |           |                   |               |              |               | 5.3x         | 5.5x                | 4.4x         | 20.0x   | 16.2x          |     |  |
| nternet Median<br>nternet Lower Qua       |                   |            | 59.8%           |           |            |           |           |           |                   |               |              |               | 3.4x         | 3.6x                | 4.4x<br>3.1x |         | 10.2x<br>12.4x |     |  |
| <u>Vledia</u><br>Valt Disney              | Sep-18            | \$109.65   | 91.2%           | \$163,233 | \$185,139  | \$59,434  | \$59,352  | \$62,780  | 6.3%              | 5.8%          | 44.9%        | 30.0%         | 3.1x         | 3.1x                | 2.9x         | 10.4x   | 10.7x          | 9   |  |
|   | -                 |            |                 |           |            | ļ         |           |           | 6.3%<br>11.7%     |               |              |               |              |                     |              |         |                |     |  |
| omcast Corporation<br>wenty-First Century | Sep-18            | \$34.05    | 77.4%           | \$154,911 | \$219,318  | \$88,233  |           | \$110,765 |                   | 17.5%         | 69.0%        | 32.7%         | 2.5x         | 2.3x                | 2.0x         | 7.6x    | 7.2x           | 6.  |  |
| ox  | Sep-18            | \$48.12    | 96.0%           | \$89,015  | \$102,960  | \$30,575  | \$31,043  | \$32,272  | 6.1%              | 4.0%          | 35.1%        | 22.9%         | 3.4x         | 3.3x                | 3.2x         | 14.7x   | 14.5x          | 13  |  |
| BS  | Sep-18            | \$43.72    | 71.0%           | \$16,365  | \$26,036   | \$14,411  | \$14,667  | \$15,668  | 8.8%              | 6.8%          | 37.5%        | 21.8%         | 1.8x         | 1.8x                | 1.7x         | 8.3x    | 7.9x           | 7.  |  |
| EA Group                                  | Jun-18            | \$52.14    | 78.6%           | \$6,868   | \$7,091    | \$642     | \$612     | \$704     | 6.6%              | 15.1%         | 72.6%        | 49.7%         | NM           | NM                  | NM           | 22.3x   | 20.1x          | 17  |  |
| lews Corp.                                | Sep-18            | \$11.35    | 65.6%           | \$6,680   | \$7,799    | \$9,490   | \$9,946   | \$10,292  | 20.6%             | 3.5%          | 46.3%        | 10.7%         | 0.8x         | 0.8x                | 0.8x         | 7.7x    | 6.3x           | 5.  |  |
| agardère                                  | Jun-18            | \$25.21    | 81.0%           | \$3,231   | \$5,060    | \$8,546   | \$8,233   | \$8,558   | (2.8%)            | 4.0%          | 46.9%        | 8.6%          | 0.6x         | 0.6x                | 0.6x         | 6.9x    | 6.8x           | 6.  |  |
| Singapore Press                           | Nov-18            | \$1.72     | 80.5%           | \$2,783   | \$4,170    | \$708     | \$707     | \$727     | (4.5%)            | 2.9%          | 49.2%        | 32.1%         | 5.9x         | 5.9x                | 5.7x         | 18.3x   | 18.6x          | 18  |  |
| OMGT                                      | Sep-18            | \$7.33     | 73.6%           | \$2,596   | \$2,298    | \$1,861   | \$1,798   | \$1,776   | (25.2%)           | (1.2%)        | 38.6%        | 10.7%         | 1.2x         | 1.3x                | 1.3x         | 11.6x   | 8.7x           | 9.  |  |
| Nedia Upper Quart                         | ile               |            | 81.0%           |           |            |           |           |           |                   |               |              |               | 3.2x         | 3.2x                | 3.0x         | 14.7x   | 14.5x          | 13. |  |
| ledia Median                              |                   |            | 78.6%           |           |            |           |           |           |                   |               |              |               | 2.1x         | 2.1x                | 1.8x         | 10.4x   | 8.7x           | 9.  |  |
| /ledia Lower Quart                        | ile               |            | 73.6%           |           |            |           |           |           |                   |               |              |               | 1.1x         | 1.2x                | 1.2x         | 7.7x    | 7.2x           | 6.  |  |
| nformation Service                        | <u>es</u>         |            |                 |           |            |           |           |           |                   |               |              |               |              |                     |              |         |                |     |  |
| &P Global                                 | Sep-18            | \$169.94   | 78.2%           | \$42,638  | \$45,679   | \$6,309   | \$6,334   | \$6,646   | 6.0%              | 4.9%          | 72.4%        | 49.9%         | 7.2x         | 7.2x                | 6.9x         | 14.5x   | 14.6x          | 13  |  |
| loody's                                   | Sep-18            | \$140.04   | 74.5%           | \$26,833  | \$30,862   | \$4,548   | \$4,515   | \$4,712   | 9.7%              | 4.4%          | 71.7%        | 47.3%         | 6.8x         | 6.8x                | 6.5x         | 14.3x   | 14.3x          | 13  |  |
| homson Reuters                            | Sep-18            | \$48.32    | 92.2%           | \$24,398  | \$31,356   | \$11,432  | \$5,512   | \$5,943   | (51.3%)           | 7.8%          | 27.6%        | 20.9%         | 2.7x         | 5.7x                | 5.3x         | 13.1x   | 24.3x          | 22  |  |
| xperian                                   | Sep-18            | \$24.28    | 95.5%           | \$21,804  | \$25,165   | \$4,819   | \$4,843   | \$4,980   | 12.6%             | 2.8%          | 42.3%        | 30.5%         | 5.2x         | 5.2x                | 5.1x         | 17.1x   | 15.2x          | 14  |  |
|   | Jun-18            | \$11.96    | 95.6%           | \$9,270   | \$10,361   | \$5,715   | \$5,349   | \$5,415   | (13.7%)           | 1.2%          | 54.2%        | 13.1%         | 1.8x         | 1.9x                | 1.9x         | 13.8x   | 11.9x          | 10  |  |
| earson                                    |                   |            |                 |           |            |           |           |           |                   |               |              |               |              |                     |              |         |                |     |  |
|   |                   | Duartile   | 95.5%           |           |            |           |           |           |                   |               |              |               | 6.8x         | 6.8x                | 6.5x         | 14.5x   | 15.2x          | 14  |  |
| earson  nformation Service                | s Upper (         |            | 95.5%<br>92.2%  |           |            |           |           |           |                   |               |              |               | 6.8x<br>5.2x | 6.8x<br>5.7x        | 6.5x<br>5.3x | 14.5x   | 15.2x<br>14.6x |     |  |

<sup>(3)</sup> EBITDA equals Earnings before Interest, Taxes, Depreciation, and Amortization.



<sup>(1)</sup> Market Data including Market Capitalization amounts are based on closing share prices as of December 31, 2018.

<sup>(2)</sup> Enterprise Value (EV) equals Market Capitalization plus Debt, Preferred Equity, and Minority Interest, minus Cash and Cash Equivalents.

## Global TMT Selected Transactions (1): Internet and Media

| Announced Date | Target Name                                  | Target<br>Country | Acquirer Name   | Deal Value<br>(\$ mm) | EV /<br>Revenue | EV /<br>EBITDA |
|----------------|--|-------------------|---|-----------------------|-----------------|----------------|
| 21-Dec-2018    | Value Holding Inc.                           | U.S.              | LendingTree Inc.  | \$105                 | 6.3x            | 8.8x           |
| 21-Dec-2018    | Delivery Hero S.E.                           | Germany           | Takeaway.com N.V.   | \$1,060               | 8.9x            | -              |
| 19-Dec-2018    | Ourgame International<br>Holdings Ltd.       | China             | Black Ridge Oil & Gas Inc.                                | \$118                 | 8.0x            | -              |
| 14-Dec-2018    | Communisis PLC                               | U.K.              | Output Services Group Inc.<br>[Aquiline Capital Partners] | \$201                 | =               | -              |
| 12-Dec-2018    | Stadium Goods                                | U.S.              | Farfetch UK Limited                                       | \$250                 | -               | -              |
| 12-Dec-2018    | Bite Squad LLC                               | U.S.              | Waitr Holdings Inc.                                       | \$321                 | -               | -              |
| 05-Dec-2018    | Verimatrix, Inc.                             | U.S.              | Inside Secure S.A.  | \$140                 | 1.8x            | 9.7x           |
| 05-Dec-2018    | The Deal LLC<br>[TheStreet.com]              | U.S.              | Euromoney Institutional Investor                          | \$87                  | 3.7x            | 52.8x          |
| 04-Dec-2018    | MightyHive Inc.                              | U.S.              | S4 Capital Limited  | \$150                 | 3.7x            | 13.5x          |
| 03-Dec-2018    | Tribune Media Company                        | U.S.              | Nexstar Media Group, Inc.                                 | \$6,222               | 3.2x            | 8.6x           |
| 28-Nov-2018    | CarsOnTheWeb NV                              | Belgium           | KAR Auction Services Inc.                                 | \$103                 | -               | -              |
| 27-Nov-2018    | Periscope Inc.                               | U.S.              | Quad/Graphics Inc.  | \$133                 | 1.6x            | -              |
| 27-Nov-2018    | SiriusDecisions Inc.                         | U.S.              | Forrester Research Inc.                                   | \$245                 | 2.8x            | 30.6x          |
| 21-Nov-2018    | Trade Me Group Limited                       | New Zealand       | Apax Partners   | \$1,800               | 10.5x           | 18.5x          |
| 08-Nov-2018    | Cozy Services Ltd                            | U.S.              | CoStar Group Inc.   | \$68                  | -               | -              |
| 08-Nov-2018    | EZbuy Holding Co. Ltd.                       | Singapore         | LightInTheBox Holding Co. Ltd.                            | \$86                  | 1.8x            | -              |
| 04-Nov-2018    | Destinations of the World JLT [Gulf Capital] | UAE               | Webjet Marketing Pty. Ltd.                                | \$173                 | -               | 10.5x          |
| 01-Nov-2018    | Flywheel Digital LLC                         | U.S.              | Ascential PLC   | \$60                  | 2.5x            | 12.0x          |
| 31-Oct-2018    | Mr Green & Co. AB                            | Sweden            | William Hill PLC  | \$309                 | -               | -              |
| 29-Oct-2018    | eHarmony Inc.                                | U.S.              | PARSHIP ELITE Group [NuCom<br>Group]                      | \$74                  | -               | -              |
| 22-Oct-2018    | Alliance Trust Savings Ltd                   | U.K.              | Interactive Investor Ltd                                  | \$52                  | -               | -              |
| 04-Oct-2018    | QuoteWizard.com LLC                          | U.S.              | LendingTree Inc.  | \$300                 | 2.4x            | -              |
| Upper Quartile |  |                   |   |                       | 6.3x            | 18.5x          |
| Median         |  |                   |   |                       | 3.2x            | 12.0x          |
| Lower Quartile |  |                   |   |                       | 2.4x            | 9.7x           |



## Global TMT Selected Public Comps: Software (1/2)

| Market Data                            |                   |            |                 |           | Operating Metrics |           |           |               |            |               | Valuation Multiples |               |      |        |       |       |         |       |
|--|-------------------|------------|-----------------|-----------|-------------------|-----------|-----------|---------------|------------|---------------|---------------------|---------------|------|--------|-------|-------|---------|-------|
| \$ value millions,<br>except per share | Latest<br>Quarter | Share      | % of 52<br>Week | Market    | Enterprise        | F         | Revenue   |               | Revenue    | Growth (3)    | LTM<br>Gross        | LTM<br>EBITDA | EV   | / Reve | nue   | ΕV    | //EBITC | DA    |
| Company Name                           | Ending            | Price      | High            | Cap. (1)  | Value (2)         | LTM       | 2018E     | 2019E         | 2017-2018E | 2018E - 2019E | Margin%             | Margin%       | LTM  | 2018E  | 2019E | LTM   | 2018E   | 2019E |
| Diversified Software                   |                   |            |                 |           |                   |           |           |               |            |               |                     |               |      |        |       |       |         |       |
| Microsoft                              | Sep-18            | \$101.57   | 87.4%           | \$779,805 | \$731,962         | \$114,906 | \$118,467 | \$130,480     | 17.0%      | 10.1%         | 65.2%               | 41.4%         | 6.4x | 6.2x   | 5.6x  | 15.4x | 14.7x   | 13.2x |
| Alphabet Inc.                          | Sep-18            | \$1,044.96 | 80.9%           | \$723,465 | \$621,035         | \$129,866 | \$136,639 | \$160,008     | 24.0%      | 17.1%         | 57.0%               | 30.3%         | 4.8x | 4.5x   | 3.9x  | 15.8x | 12.4x   | 10.3x |
| Cisco Systems                          | Oct-18            | \$43.33    | 87.6%           | \$194,810 | \$177,862         | \$50,266  | \$50,803  | \$52,303      | 5.8%       | 3.0%          | 62.2%               | 30.0%         | 3.5x | 3.5x   | 3.4x  | 11.8x | 9.9x    | 9.6x  |
| Oracle                                 | Nov-18            | \$45.15    | 84.4%           | \$162,040 | \$171,425         | \$39,893  | \$39,758  | \$40,016      | 2.0%       | 0.6%          | 79.6%               | 39.9%         | 4.3x | 4.3x   | 4.3x  | 10.8x | 9.2x    | 9.3x  |
| SAP                                    | Sep-18            | \$99.83    | 80.4%           | \$119,155 | \$122,564         | \$27,983  | \$28,103  | \$30,663      | (0.5%)     | 9.1%          | 69.6%               | 25.9%         | 4.4x | 4.4x   | 4.0x  | 16.9x | 13.3x   | 12.0x |
| Adobe Systems                          | Nov-18            | \$226.24   | 81.5%           | \$110,435 | \$111,331         | \$9,030   | \$9,001   | \$11,157      | 24.2%      | 23.9%         | 86.8%               | 35.0%         | NM   | NM     | 10.0x | 35.2x | NA      | 22.6x |
| Salesforce.com                         | Oct-18            | \$136.97   | 85.0%           | \$104,782 | \$105,723         | \$12,484  | \$13,243  | \$15,991      | 26.8%      | 20.7%         | 74.0%               | 9.4%          | 8.5x | 8.0x   | 6.6x  | NM    | 33.3x   | 26.8x |
| IBM                                    | Sep-18            | \$113.67   | 66.4%           | \$103,303 | \$136,019         | \$80,373  | \$79,752  | \$79,291      | 1.4%       | (0.6%)        | 45.5%               | 21.1%         | 1.7x | 1.7x   | 1.7x  | 8.0x  | 7.3x    | 6.9x  |
| Diversified Software                   | Unner             | Ouartila   | 85.6%           |           |                   |           |           |               |            |               |                     |               | 5.6x | 5.4x   | 5.9x  | 16.3x | 14.0x   | 15.5x |
| Diversified Software                   |                   |            | 83.0%           |           |                   |           |           |               |            |               |                     |               | 4.4x | 4.4x   | 4.1x  | 15.4x |         |       |
| Diversified Software                   |                   |            |                 |           |                   |           |           |               |            |               |                     |               | 3.9x | 3.9x   | 3.8x  | 11.3x |         |       |
| Diversified Software                   | Lower             | Quartile   | ou.o /0         |           |                   |           |           |               |            |               |                     |               | 3.3X | 3.3X   | 3.ox  | 11.3X | 9.0X    | 9.5x  |
| Large-Cap SaaS (> \$                   | 2B Mark           | et Cap)    |                 |           |                   |           |           |               |            |               |                     |               |      |        |       |       |         |       |
| Salesforce.com                         | Oct-18            | \$136.97   | 85.0%           | \$104,782 | \$105,723         | \$12,484  | \$13,243  | \$15,991      | 26.8%      | 20.7%         | 74.0%               | 9.4%          | 8.5x | 8.0x   | 6.6x  | NM    | 33.3x   | 26.8x |
| Workday                                | Oct-18            | \$159.68   | 92.5%           | \$35,130  | \$34,738          | \$2,616   | \$2,810   | \$3,515       | 31.6%      | 25.1%         | 70.5%               | (8.6%)        | NM   | NM     | 9.9x  | NM    | NM      | NM    |
| ServiceNow                             | Sep-18            | \$178.05   | 86.3%           | \$31,925  | \$31,114          | \$2,457   | \$2,609   | \$3,371       | 36.2%      | 29.2%         | 76.0%               | 2.4%          | NM   | NM     | 9.2x  | NM    | 45.9x   | 33.2x |
| Atlassian                              | Sep-18            | \$88.98    | 90.6%           | \$21,190  | \$20,223          | \$946     | \$1,018   | \$1,326       | 38.9%      | 30.2%         | 81.2%               | 2.3%          | NM   | NM     | NM    | NM    | NM      | NM    |
| Shopify                                | Sep-18            | \$138.45   | 78.4%           | \$15,276  | \$13,697          | \$952     | \$1,057   | \$1,473       | 60.0%      | 39.3%         | 55.8%               | (7.0%)        | NM   | NM     | 9.3x  | NM    | NM      | NM    |
| Veeva Systems                          | Oct-18            | \$89.32    | 81.9%           | \$12,978  | \$11,926          | \$811     | \$857     | \$1,019       | 25.9%      | 18.9%         | 70.4%               | 25.3%         | NM   | NM     | NM    | NM    | 38.4x   | 32.8x |
| Tableau Software                       | Sep-18            | \$120.00   | 91.0%           | \$10,028  | \$9,071           | \$1,068   | \$992     | \$1,363       | 14.3%      | 37.3%         | 87.6%               | (8.6%)        | 8.5x | 9.1x   | 6.7x  | NM    | NM      | 42.5x |
| Twilio                                 | Sep-18            | \$89.30    | 88.9%           | \$8,828   | \$8,511           | \$561     | \$630     | \$831         | 62.2%      | 31.8%         | 53.7%               | (13.5%)       | NM   | NM     | NM    | NM    | NM      | NM    |
| Dropbox, Inc.                          | Sep-18            | \$20.43    | 47.0%           | \$8,305   | \$7,432           | \$1,321   | \$1,386   | \$1,604       | NA         | 15.7%         | 70.3%               | (26.9%)       | 5.6x | 5.4x   | 4.6x  | NM    | 22.7x   | 19.9x |
| The Ultimate Software<br>Group         | Sep-18            | \$244.87   | 73.7%           | \$7,657   | \$7,532           | \$1,087   | \$1,136   | \$1,363       | 21.7%      | 19.9%         | 62.3%               | 10.7%         | 6.9x | 6.6x   | 5.5x  | NM    | 27.5x   | 23.2x |
| Okta                                   | Oct-18            | \$63.80    | 84.5%           | \$7,046   | \$6,768           | \$364     | \$392     | \$518         | 51.0%      | 32.2%         | 71.3%               | (31.6%)       | NM   | NM     | NM    | NM    | NM      | NM    |
| DocuSign, Inc.                         | Oct-18            | \$40.08    | 58.6%           | \$6,623   | \$5,962           | \$650     | \$694     | \$856         | NA         | 23.3%         | 73.7%               | (51.7%)       | 9.2x | 8.6x   | 7.0x  | NM    | NM      | NM    |
| RingCentral                            | Sep-18            | \$82.44    | 84.0%           | \$6,623   | \$6,411           | \$624     | \$666     | \$823         | 33.7%      | 23.6%         | 76.5%               | (1.9%)        | NM   | 9.6x   | 7.8x  | NM    | NM      | NM    |
| Zendesk                                | Sep-18            | \$58.37    | 80.2%           | \$6,248   | \$6,249           | \$549     | \$592     | \$779         | 38.8%      | 31.6%         | 69.9%               | (19.4%)       | NM   | NM     | 8.0x  | NM    | NM      | NM    |
| Elastic N.V.                           | Oct-18            | \$71.48    | 85.3%           | \$5,073   | \$4,752           | \$211     | \$233     | \$324         | NA         | 39.0%         | 72.3%               | (33.2%)       | NM   | NM     | NM    | NM    | NA      | NM    |
| HubSpot                                | Sep-18            | \$125.73   | 77.5%           | \$4,933   | \$4,685           | \$475     | \$506     | \$635         | 36.5%      | 25.4%         | 80.2%               | (7.8%)        | 9.9x | 9.3x   | 7.4x  | NM    | NM      | NM    |
| New Relic                              | Sep-18            | \$80.97    | 70.5%           | \$4,612   | \$4,280           | \$413     | \$442     | <b>\$</b> 559 | 34.9%      | 26.5%         | 83.7%               | (1.4%)        | NM   | 9.7x   | 7.7x  | NM    | NM      | NM    |
| Proofpoint                             | Sep-18            | \$83.81    | 64.3%           | \$4,580   | \$4,390           | \$661     | \$711     | \$876         | 39.5%      | 23.3%         | 71.4%               | (5.9%)        | 6.6x | 6.2x   | 5.0x  | NM    | 41.1x   | 33.8x |
| Wix.com Ltd.                           | Sep-18            | \$90.34    | 74.4%           | \$4,368   | \$3,986           | \$558     | \$602     | \$763         | 41.9%      | 26.9%         | 80.3%               | (4.6%)        | 7.1x | 6.6x   | 5.2x  | NM    | 35.2x   | 22.6x |
| RealPage                               | Sep-18            | \$48.19    | 72.7%           | \$4,362   | \$4,679           | \$830     | \$873     | \$1,003       | 29.8%      | 15.0%         | 60.9%               | 17.0%         | 5.6x | 5.4x   | 4.7x  | 33.1x | 20.3x   | 16.4x |
| Pivotal Software, Inc.                 | Nov-18            | \$16.35    | 52.3%           | \$4,291   | \$3,627           | \$622     | \$659     | \$814         | NA         | 23.6%         | 61.5%               | (20.8%)       | 5.8x | 5.5x   | 4.5x  | NM    | NM      | NM    |
| LogMeIn                                | Sep-18            | \$81.57    | 60.5%           | \$4,173   | \$4,206           | \$1,170   | \$1,204   | \$1,256       | 18.7%      | 4.4%          | 77.5%               | 29.3%         | 3.6x | 3.5x   | 3.3x  | 12.3x | 9.5x    | 8.9x  |
| Xero Limited                           | Sep-18            | \$29.62    | 79.9%           | \$4,139   | \$4,376           | \$315     | \$348     | \$467         | 28.5%      | 34.3%         | 82.5%               | (1.2%)        | NM   | NM     | 9.4x  | NM    | NM      | 47.5x |
| Medidata Solutions                     | Sep-18            | \$67.42    | 75.9%           | \$4,126   | \$4,022           | \$611     | \$637     | \$750         | 16.8%      | 17.8%         | 75.7%               | 14.6%         | 6.6x | 6.3x   | 5.4x  | 45.0x | 26.6x   | 21.7x |
| Coupa Software                         | Oct-18            | \$62.86    | 74.4%           | \$3,737   | \$3,502           | \$239     | \$253     | \$314         | 39.5%      | 23.8%         | 68.7%               | (14.4%)       | NM   | NM     | NM    | NM    | NM      | NM    |
| Alteryx                                | Sep-18            | \$59.47    | 88.2%           | \$3,650   | \$3,493           | \$182     | \$201     | \$272         | 56.8%      | 35.2%         | 87.8%               | (6.8%)        | NM   | NM     | NM    | NM    | NM      | NM    |
| Paylocity Holding                      | Sep-18            | \$60.21    | 68.1%           | \$3,179   | \$3,094           | \$397     | \$415     | \$498         | 24.7%      | 20.0%         | 62.1%               | 9.1%          | 7.8x | 7.5x   | 6.2x  | NM    | 31.3x   | 21.5x |
| Corporation Cornerstone OnDemand       |                   | \$50.43    | 85.2%           | \$2,956   | \$2,853           | \$532     | \$529     | \$567         | 9.6%       | 7.1%          | 72.3%               | 0.1%          | 5.4x | 5.4x   | 5.0x  | NM    | 31.3x   | 22.1x |
| Qualys                                 | Sep-18            | \$74.74    | 76.0%           | \$2,943   | \$2,617           | \$268     | \$279     | \$331         | 21.3%      | 18.8%         | 76.4%               | 28.3%         | 9.8x | 9.4x   | 7.9x  | 34.5x | 23.4x   | 20.8x |
| 2U                                     | Sep-18            | \$49.72    | 50.4%           | \$2,880   | \$2,437           | \$383     | \$412     | \$547         | 44.3%      | 32.9%         | 78.1%               | (5.3%)        | 6.4x | 5.9x   | 4.5x  | NM    | NM      | NM    |
| Smartsheet Inc.                        | Oct-18            | \$24.86    | 73.2%           | \$2,579   | \$2,373           | \$159     | \$175     | \$244         | NA         | 39.1%         | 80.9%               | (27.9%)       | NM   | NM     | 9.7x  | NM    | NM      | NM    |
| Five9, Inc.                            | Sep-18            | \$43.72    | 88.3%           | \$2,570   | \$2,497           | \$241     | \$252     | \$296         | 27.8%      | 17.4%         | 59.3%               | 4.5%          | NM   | 9.9x   | 8.4x  | NM    | NM      | 49.5x |
| Вох                                    | Oct-18            | \$16.88    | 56.7%           | \$2,421   | \$2,319           | \$581     | \$609     | \$733         | 20.3%      | 20.4%         | 72.2%               | (17.1%)       | 4.0x | 3.8x   | 3.2x  | NM    | NM      | 44.2x |
| BlackLine                              | Sep-18            | \$40.95    | 70.5%           | \$2,238   | \$2,113           | \$217     | \$227     | \$279         | 30.2%      | 22.9%         | 77.9%               | (4.8%)        | 9.7x | 9.3x   | 7.6x  | NM    | NM      | NM    |
| Ellie Mae, Inc.                        | Sep-18            | \$62.83    | 53.7%           | \$2,189   | \$1,917           | \$477     | \$480     | \$510         | 16.2%      | 6.4%          | 58.3%               | 14.2%         | 4.0x | 4.0x   | 3.8x  | 28.2x | 15.0x   | 13.3x |
| Q2 Holdings, Inc.                      | Sep-18            | \$49.55    | 73.8%           | \$2,149   | \$2,031           | \$226     | \$241     | \$306         | 24.1%      | 27.3%         | 49.9%               | (5.3%)        | 9.0x | 8.4x   | 6.6x  | NM    | NM      | NM    |
| AppFolio                               | Sep-18            | \$59.22    | 64.7%           | \$2,028   | \$1,983           | \$178     | \$188     | \$238         | 32.4%      | 26.6%         | 62.2%               | 13.7%         | NM   | NM     | 8.3x  | NM    | 44.8x   | 31.1x |
| Mimecast                               | Sep-18            | \$33.63    | 71.8%           | \$2,020   | \$2,053           | \$301     | \$319     | \$382         | 33.6%      | 19.9%         | 73.2%               | 6.5%          | 6.8x | 6.4x   | 5.4x  | NM    | 47.5x   | 31.4x |
|  |                   |            | 04-00/          |           |                   |           |           |               |            |               |                     |               | 0.5  | 0.0    | 0.0   | 04-5  | 00.0    | 00.4  |
| Large-Cap SaaS Upp                     | er Quar           | tile       | 84.9%           |           |                   |           |           |               |            |               |                     |               | 8.5x | 9.2x   | 8.0x  | 34.5x | 39.0x   | 33.4x |

Source: Capital IQ. Financials are calendarized to December year-end.

(1) Market Data including Market Capitalization amounts are based on closing share prices as of December 31, 2018.

75.1%

68.7%



Large-Cap SaaS Median

Large-Cap SaaS Lower Quartile

33.1x 31.3x 25.0x

28.2x 23.3x 21.3x

6.6x 6.6x

5.5x

5.0x

<sup>(2)</sup> Enterprise Value (EV) equals Market Capitalization plus Debt, Preferred Equity, and Minority Interest, minus Cash and Cash Equivalents. (3) EBITDA equals Earnings before Interest, Taxes, Depreciation, and Amortization.

## Global TMT Selected Public Comps: Software (1/2)

| Market Data                            |            |                         |       | Operating Metrics |           |       |       |       |                 | Valuation Multiples |            |          |         |       |         |            |              |               |    |         |     |    |         |    |
|--|------------|-------------------------|-------|-------------------|-----------|-------|-------|-------|-----------------|---------------------|------------|----------|---------|-------|---------|------------|--------------|---------------|----|---------|-----|----|---------|----|
| \$ value millions,<br>except per share | Latest     | Latest<br>Quarter Share |       | Share             | Share     | Share | Share | Share | % of 52<br>Week | Market              | Enterprise |          | Revenue |       | Revenue | Growth (3) | LTM<br>Gross | LTM<br>EBITDA | EV | / Rever | nue | EV | //EBITI | DA |
| Company Name                           | Ending     | Price                   | High  | Cap. (1)          | Value (2) | LTM   | 2018E | 2019E | 2017-2018E      | 2018E - 2019E       | Margin%    | Margin%  | LTM     | 2018E | 2019E   | LTM        | 2018E        | 2019E         |    |         |     |    |         |    |
| Mid-Cap SaaS (< \$                     | 2B Market  | t Cap)                  |       |                   |           |       |       |       |                 |                     |            |          |         |       |         |            |              |               |    |         |     |    |         |    |
| Zuora, Inc.                            | Oct-18     | \$18.14                 | 48.0% | \$1,968           | \$1,809   | \$221 | \$234 | \$295 | NA              | 25.8%               | 50.6%      | (28.3%)  | 8.2x    | 7.7x  | 6.1x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Mindbody                               | Sep-18     | \$36.40                 | 80.0% | \$1,745           | \$1,670   | \$229 | \$245 | \$297 | 34.7%           | 21.3%               | 69.8%      | (8.3%)   | 7.3x    | 6.8x  | 5.6x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Cloudera                               | Oct-18     | \$11.06                 | 49.3% | \$1,698           | \$1,308   | \$435 | \$800 | \$972 | 120.3%          | 21.6%               | 70.5%      | (32.3%)  | 3.0x    | 1.6x  | 1.3x    | NM         | NA           | NA            |    |         |     |    |         |    |
| Everbridge                             | Sep-18     | \$56.76                 | 90.1% | \$1,683           | \$1,673   | \$134 | \$146 | \$185 | 40.9%           | 26.7%               | 68.7%      | (24.7%)  | NM      | NM    | 9.0x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Workiva                                | Sep-18     | \$35.89                 | 87.9% | \$1,574           | \$1,495   | \$234 | \$243 | \$279 | 17.4%           | 15.0%               | 72.5%      | (17.7%)  | 6.4x    | 6.2x  | 5.4x    | NM         | NM           | NM            |    |         |     |    |         |    |
| SVMK Inc.                              | Sep-18     | \$12.27                 | 61.4% | \$1,535           | \$1,687   | \$243 | \$252 | \$287 | NA              | 13.9%               | 69.4%      | (35.4%)  | 6.9x    | 6.7x  | 5.9x    | NM         | 29.0x        | 31.0x         |    |         |     |    |         |    |
| Yext                                   | Oct-18     | \$14.85                 | 54.6% | \$1,498           | \$1,391   | \$213 | \$228 | \$298 | 33.8%           | 30.8%               | 74.7%      | (35.3%)  | 6.5x    | 6.1x  | 4.7x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Rapid7, Inc.                           | Sep-18     | \$31.16                 | 79.1% | \$1,473           | \$1,374   | \$233 | \$242 | \$291 | 20.8%           | 20.1%               | 70.4%      | (19.2%)  | 5.9x    | 5.7x  | 4.7x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Pluralsight, Inc.                      | Sep-18     | \$23.55                 | 61.4% | \$1,467           | \$1,385   | \$212 | \$231 | \$307 | NA              | 33.1%               | 71.6%      | (40.1%)  | 6.5x    | 6.0x  | 4.5x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Benefitfocus                           | Sep-18     | \$45.72                 | 82.5% | \$1,461           | \$1,540   | \$272 | \$257 | \$298 | 0.2%            | 15.8%               | 54.1%      | 1.1%     | 5.7x    | 6.0x  | 5.2x    | NM         | NM           | NM            |    |         |     |    |         |    |
| SPS Commerce                           | Sep-18     | \$82.38                 | 81.8% | \$1,455           | \$1,266   | \$242 | \$247 | \$274 | 12.3%           | 11.1%               | 66.9%      | 12.3%    | 5.2x    | 5.1x  | 4.6x    | 42.6x      | 24.7x        | 20.3x         |    |         |     |    |         |    |
| Instructure                            | Sep-18     | \$37.51                 | 76.3% | \$1,315           | \$1,144   | \$196 | \$209 | \$259 | 33.7%           | 23.8%               | 70.4%      | (24.7%)  | 5.8x    | 5.5x  | 4.4x    | NM         | NM           | NM            |    |         |     |    |         |    |
| LivePerson                             | Sep-18     | \$18.86                 | 68.8% | \$1,196           | \$1,130   | \$242 | \$249 | \$284 | 14.3%           | 14.0%               | 75.0%      | 1.9%     | 4.7x    | 4.5x  | 4.0x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Talend S.A.                            | Sep-18     | \$37.08                 | 50.4% | \$1,115           | \$1,026   | \$190 | \$204 | \$249 | 37.5%           | 21.7%               | 75.9%      | (18.7%)  | 5.4x    | 5.0x  | 4.1x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Carbon Black, Inc.                     | Sep-18     | \$13.42                 | 38.3% | \$911             | \$748     | \$199 | \$208 | \$256 | NA              | 22.9%               | 78.3%      | (30.5%)  | 3.8x    | 3.6x  | 2.9x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Domo, Inc.                             | Oct-18     | \$19.63                 | 68.0% | \$517             | \$409     | \$133 | \$141 | \$170 | NA              | 20.8%               | 63.1%      | (113.9%) | 3.1x    | 2.9x  | 2.4x    | NM         | NM           | NM            |    |         |     |    |         |    |
| Mobilelron                             | Sep-18     | \$4.59                  | 80.4% | \$484             | \$382     | \$185 | \$194 | \$214 | 11.2%           | 10.2%               | 82.9%      | (22.2%)  | 2.1x    | 2.0x  | 1.8x    | NM         | NM           | 28.9x         |    |         |     |    |         |    |
| Castlight Health                       | Sep-18     | \$2.17                  | 36.5% | \$303             | \$240     | \$151 | \$155 | \$159 | 18.4%           | 2.9%                | 60.7%      | (22.5%)  | 1.6x    | 1.6x  | 1.5x    | NM         | NM           | 29.2x         |    |         |     |    |         |    |
| Mid-Cap SaaS Upp                       | er Quarti  | le                      | 80.3% |                   |           |       |       |       |                 |                     |            |          | 6.5x    | 6.1x  | 5.3x    | 42.6x      | 27.9x        | 29.6x         |    |         |     |    |         |    |
| Mid-Cap SaaS Med                       | dian       |                         | 68.4% |                   |           |       |       |       |                 |                     |            |          | 5.7x    | 5.5x  | 4.6x    | 42.6x      | 26.8x        | 29.0x         |    |         |     |    |         |    |
| Mid-Cap SaaS Lov                       | ver Quarti | le                      | 51.5% |                   |           |       |       |       |                 |                     |            |          | 3.8x    | 3.6x  | 3.2x    | 42.6x      | 25.8x        | 26.8x         |    |         |     |    |         |    |

<sup>(3)</sup> EBITDA equals Earnings before Interest, Taxes, Depreciation, and Amortization.



<sup>(1)</sup> Market Data including Market Capitalization amounts are based on closing share prices as of December 31, 2018.

<sup>(2)</sup> Enterprise Value (EV) equals Market Capitalization plus Debt, Preferred Equity, and Minority Interest, minus Cash and Cash Equivalents.

## Global TMT Selected Transactions (1): Software

| Announced Date | Target Name  | Target<br>Country | Acquirer Name                               | Deal Value<br>(\$ mm) | EV /<br>Revenue | EV /<br>EBITDA |
|----------------|--|-------------------|---|-----------------------|-----------------|----------------|
| 24-Dec-2018    | MINDBODY Inc.  | U.S.              | Vista Equity Partners Management            | \$1,750               | 8.1x            | -              |
| 20-Dec-2018    | BuildingConnected Inc.                                   | U.S.              | Autodesk Inc.                               | \$275                 | -               | -              |
| 19-Dec-2018    | M*Modal [One Equity]                                     | U.S.              | 3M Company                                  | \$1,000               | 5.0x            | -              |
| 13-Dec-2018    | Adestra Ltd.   | U.K.              | Upland Software Inc.                        | \$60                  | 3.3x            | -              |
| 12-Dec-2018    | Avoka Technologies Pty Ltd.                              | U.S.              | Temenos AG                                  | \$245                 | 6.4x            | -              |
| 11-Dec-2018    | IQMS Inc.  | U.S.              | Dassault Systemes S.A.                      | \$425                 | 7.6x            | -              |
| 10-Dec-2018    | Compuscan Pty Ltd  | South Africa      | Experian plc                                | \$262                 | 7.6x            | -              |
| 10-Dec-2018    | Netsmart Technologies Inc.<br>[Allscripts / GI Partners] | U.S.              | GI Partners/TA Associates                   | \$525                 | 1.5x            | -              |
| 10-Dec-2018    | Travelport LP  | U.K.              | Siris Capital/Evergreen Coast               | \$4,400               | 2.5x            | 10.5x          |
| 30-Nov-2018    | PEC Safety Operations LLC                                | U.S.              | Thoma Bravo LLC                             | \$225                 | 9.0x            | 28.1x          |
| 27-Nov-2018    | Spectro Scientific Inc.                                  | U.S.              | AMETEK Inc.                                 | \$190                 | 3.8x            | -              |
| 20-Nov-2018    | PlanGrid Inc.  | U.S.              | Autodesk Inc.                               | \$875                 | -               | -              |
| 16-Nov-2018    | Cylance Inc.   | U.S.              | BlackBerry Limited                          | \$1,500               | 11.5x           | -              |
| 14-Nov-2018    | Farelogix Inc.   | U.S.              | Sabre Corporation                           | \$360                 | -               | -              |
| 12-Nov-2018    | athenahealth Inc.  | U.S.              | Veritas Capital/Evergreen Coast             | \$5,700               | 4.1x            | 17.3x          |
| 11-Nov-2018    | Apptio, Inc.   | U.S.              | Vista Equity Partners                       | \$2,122               | 8.3x            | NM             |
| 11-Nov-2018    | Qualtrics International Inc.                             | U.S.              | SAP SE                                      | \$8,000               | NM              | -              |
| 06-Nov-2018    | Investment Technology<br>Group                           | U.S.              | Virtu Financial                             | \$1,000               | 1.5x            | 15.9x          |
| 05-Nov-2018    | Datawatch Corp.  | U.S.              | Altair Engineering Inc.                     | \$176                 | 4.0x            | -              |
| 30-Oct-2018    | eVision Industry Software                                | Netherlands       | Wolters Kluwer Legal & Regulatory Solutions | \$145                 | 7.2x            | -              |
| 28-Oct-2018    | Red Hat  | U.S.              | IBM   | \$3,360               | 10.7x           | 56.4x          |
| 22-Oct-2018    | Symbility Solutions Inc.                                 | Canada            | CoreLogic Inc.                              | \$122                 | 3.5x            | 40.2x          |
| 17-Oct-2018    | Triton Digital Inc. [Vector Capital]                     | U.S.              | E. W. Scripps Company                       | \$150                 | 3.7x            | -              |
| 15-Oct-2018    | SendGrid   | U.S.              | Twilio Inc.                                 | \$1,739               | 12.3x           | NM             |
| 15-Oct-2018    | tCell.io Inc.  | U.S.              | Rapid7 Inc.                                 | -                     | -               | -              |
| 15-Oct-2018    | Cambium Learning Group                                   | U.S.              | Veritas Capital                             | \$685                 | 4.7x            | 18.6x          |
| 10-Oct-2018    | Imperva Inc.   | U.S.              | Thoma Bravo                                 | \$2,119               | 5.2x            | NM             |
| 09-Oct-2018    | FNZ UK Ltd. [HIG Private Equity] [General Atlantic]      | U.K.              | Caisse de depot et placement du<br>Quebec   | \$1,450               | -               | -              |
| 08-Oct-2018    | Rocket Software  | U.S.              | Bain Capital Private Equity                 | \$2,000               | 4.4x            | -              |
| 03-Oct-2018    | Hortonworks, Inc.  | U.S.              | Cloudera, Inc.                              | \$2,107               | 6.1x            | NM             |
| 01-Oct-2018    | Lumesse [HgCapital]                                      | U.K.              | Saba Software [Vector Capital]              | \$100                 | 1.3x            | 20.0x          |
| Upper Quartile |  |                   |   |                       | 7.6x            | 31.1x          |
| Median         |  |                   |   |                       | 5.0x            | 19.3x          |
| Lower Quartile |  |                   |   |                       | 3.7x            | 17.0x          |



# Global TMT Coverage Team

## Global Coverage. Industry Knowledge. Middle-Market Focus.

The Corporate Finance practices of KPMG International's network of independent member firms (KPMG) have been ranked collectively as the number one global mid-market advisor based on total deal volume announced from 2014 to 2018, according to Thomson Reuters SDC. KPMG firms operate in 155 countries with over 2,600 professionals who are able to meet the needs of clients across the globe.

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