

INVESTMENT BANKERS FOR GROWTH

TECHNOLOGY SERVICES MONTHLY Cloud Infrastructure

September 2018

TECHNOLOGY SERVICES MONTHLY

Welcome to the

MHH Technology Services Newsletter!

Welcome to the September edition of the Mufson Howe Hunter Technology Services Monthly. This month, we highlight key themes and growth drivers in the Cloud Infrastructure / Cloud Services space. Each month, our team aims to provide you with a newsletter that contains thought-provoking content and analysis, as well as updates on macroeconomic themes, equity capital market performance, private capital market trends and noteworthy M&A activity—all of which is relevant to our core industry sectors:



We hope you find this information valuable, and we welcome any comments or suggestions.

Sincerely,

BULLER

Brandon K. Eck

Managing Director, Head of Technology Services

What we are reading...



- US Congressman Drafts Bills to Aid Blockchain Development
- VA will open bidding for VistA EHR support, maintenance
- Amazon Web Services is in a league of its own for cloud revenue, report says
- Next-gen cloud computing: How healthcare can prepare for the future

Select 2018 Franchise Themes



Digital Transformation & Advisory: Business processes will continue to migrate from legacy systems to modern technology (cloud, edge computing, analytics, IoT, blockchain, AI, etc.). We expect to see continued growth in the digital transformation consulting (DTC) channel. Trusted advisors with the ability to sell across senior business stakeholders within an organization (CMO, CRO, CCO, COO, CIO) and who provide thought leadership, commercial insights, targeted research and proprietary IP will be leaders in the category. For additional insight see our November 2017 TSM.



Regulation Technology: The rapid proliferation of new and increasingly complex regulations will continue to drive demand for RegTech solutions that provide operational efficiencies and cost benefits when applied to compliance and risk management practices. Increased regulation isn't just a temporary challenge for global financial institutions — it's the new reality. Financial services firms' average costs to meet their obligations are \$60 million; some are spending up to \$500 million on compliance with KYC and Customer Due Diligence (Thomson Reuters). For additional insight see our August 2017 TSM.



Healthcare IT: The sweeping paradigm shift toward population health management and value-based reimbursement models — will continue to drive robust demand for healthcare IT products and services. Consulting Services, Data Analytics and Patient Engagement Technology will comprise a growing portion of the overall HCIT market, reaching an estimated \$74 billion in annual spending by 2021 (Markets and Markets and MHH calculations). Service providers and solutions that improve interoperability among myriad disparate systems will be in high demand for many years to come. For additional insight see our May 2017 and September 2017 TSM.



IoT-Optimized Infrastructure Services: "Connected things" will streamline vendor operational models while reducing customer costs. IoT will introduce tons of useful data to the cloud that needs to be captured and effectively managed. IaaS and PaaS companies will be a direct beneficiary of this trend. Cisco expects database, analytics and IoT workloads to account for 22% of total workloads by 2020 (Cisco, 2016). For additional insight, see our June 2017 TSM.



Blockchain in Financial Services & Beyond: Although most widely associated with cryptocurrencies, some of the largest financial services firms are exploring using blockchain technology to improve high-risk and/or time-consuming operations, including cross-border payments, AML & KYC compliance, IAM security protocols and smart contracts. We also expect to see further adoption across a variety of other industries, including healthcare, automotive, manufacturing and retail, among others. For additional insight see our <u>December 2017 TSM</u>.

TECHNOLOGY SERVICES PRACTICE OVERVIEW

The Mufson Howe Hunter Technology Services Group serves growth-oriented, rapidly scalable businesses that leverage proprietary and enabling technologies to address the evolving needs of modern enterprise customers. We apply deep industry expertise and broad transaction experience to provide thoughtful, tailored advice and solutions for our clients. Our clients turn to us for outstanding M&A advisory and capital-raising execution.







Cloud Infrastructure

What is Cloud Infrastructure? Cloud computing refers to the delivery of on-demand computing functionality (processing power, data storage, applications, etc.) using a network of remote servers hosted on the internet rather than an on-premise server or personal computer. Cloud infrastructure enables cloud computing, providing ondemand services or products delivered through an "Infrastructure as a Service" (laaS) model. In contrast with on-premise systems, a cloud infrastructure replaces physical servers, PCs, network switches and storage capacity with virtual, cloud-based equivalents.

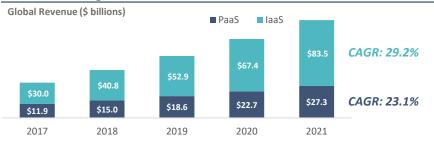
What is Cloud Services? As reflected in the graphic below, cloud services is commonly conceived as a "stack" consisting of three distinct but highly interrelated categories: Infrastructure as a Service (laaS), Platform as a Service (PaaS) and Software as a Service (SaaS).

What are the benefits and/or drawbacks of a cloud-based infrastructure?

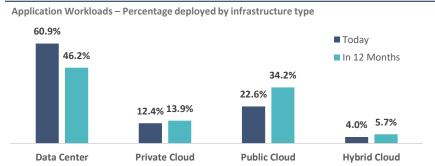
Compared to on-premise systems, cloud-based environments are typically less capital-intensive, easier and cheaper to maintain, more flexible to configure and more rapidly scalable. Although enterprise clients showed early hesitation due to security concerns, that sentiment is rapidly changing, and a recent survey indicated that 63% of IT professionals believe the public cloud is more secure or equally secure as their existing data center.¹

Who are the key players? The leading cloud providers – Amazon Web Services ("AWS") and Microsoft Azure – have a combined 70% share of the laaS market.² AWS and Azure are also significant players in PaaS and, to some extent, SaaS. However, the PaaS and SaaS markets are much more diversified than the laaS segment.

The already large PaaS and laaS markets are poised for tremendous growth³



Enterprises are transitioning from heavy reliance on data centers to more cloud-based environments⁴





Cloud Infrastructure

How the leaders "stack" up

Analyst Insights

Customer Commentary¹

"AWS remains the giant but it seems clear that Microsoft Azure is gaining ground." (Deutsche Bank, Aug 2018)

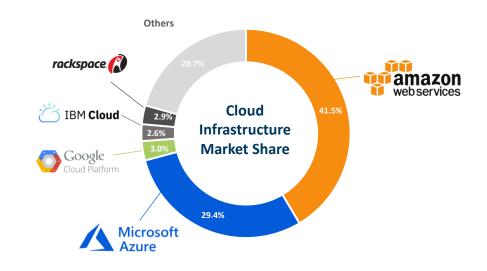
"Microsoft has, within a few years, taken Azure from a virtually unknown business to a major driver of growth, expanding from laaS/PaaS into related services – e.g., AI, machine learning, and platform SaaS services" (Bernstein, Sep 2018)

"We are evaluating Azure and AWS. Unsure who we will go with. AWS seems better at storage and Azure better with analytics. No clear winner yet."

"If you are a MSFT shop it makes sense to run in Azure."

"Our company is using Azure over AWS... However, we're finding that some of the security functionality is not as great as we would have hoped."

AWS and Azure dominate the cloud infrastructure market²



Recent Relevant Investments³

Investor

Description





- · Early Stage VC
- Developer of a secure Edge-Cloud infrastructure solution

THIRD POINT



- Early Stage VC
- Provider of a cloud hosting platform designed to automate server configurations
- **HOSTWORKS**

5G_{networks}

- Aug-2018 · Merger/Acquisition
- · Provider of managed cloud hosting services intended to create innovative IT tools







- · Early Stage VC
- Provider of a fullymanaged big data as a service platform





- · Merger/Acquisition
- Provider of a platform designed to offer big data services





- Merger/Acquisition
- Developer of a cloud workload mobility platform







- Merger/Acquisition
- Developer of demand-driven storage products
- Merger/Acquisition

aws

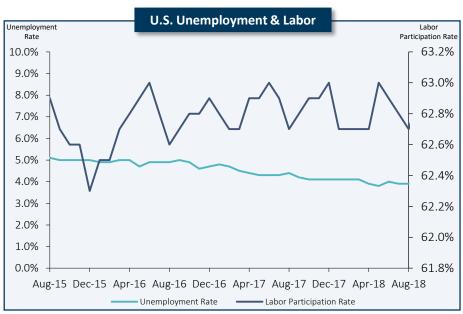
Developer of a big data platform designed to help discover threats

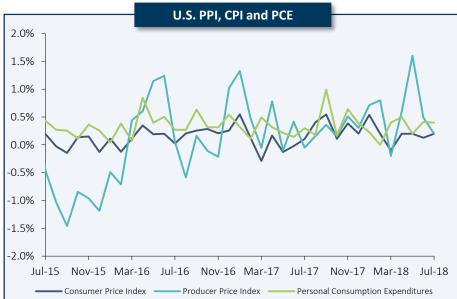
¹ Deutsche Bank, Aug 2018 | 2 McAfee, Custom Applications and IaaS Trends (2017) | 3 Pitchbook

U.S. ECONOMIC INDICATORS





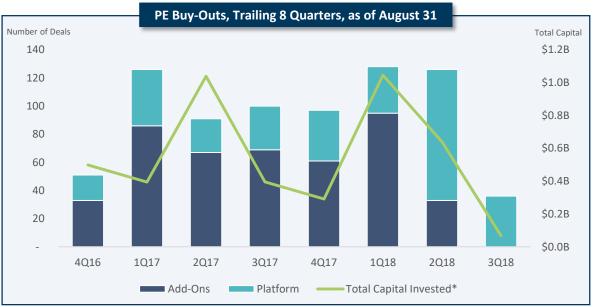




Sources: CapitalIQ, Federal Reserve Bank of St. Louis

U.S. TECH SERVICES MIDDLE-MARKET PRIVATE EQUITY: BUY-OUT ACTIVITY









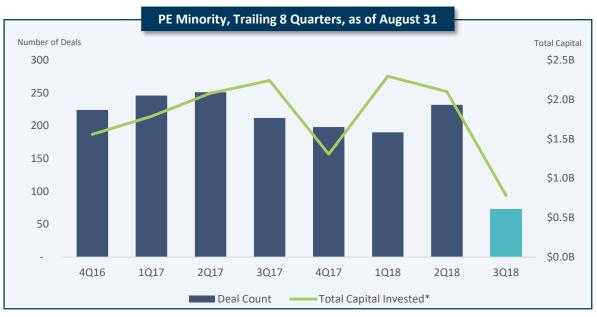
Source: Pitchbook

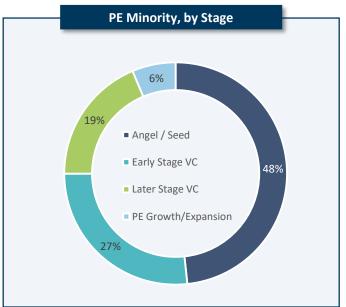
^{*}For deals with announced transaction value

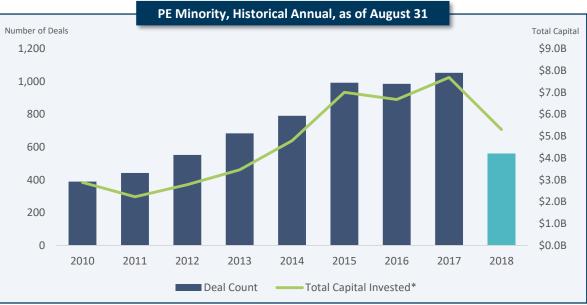
^{**}Please contact the MHH Technology Services Group directly for any information regarding valuation and deal size

U.S. TECH SERVICES MIDDLE-MARKET PRIVATE EQUITY: MINORITY ACTIVITY

Select	t August 2018 I	Minority C	eals**
Company	Stage	Date	Sector
TEMPUS	Late Stage VC	Aug 23	Healthcare IT
р акігі	Late Stage VC	Aug 9	Healthcare IT
Summit Technology Consulting Group	Angel	Aug 9	IT Outsourcing
- CAPSULE	Early Stage VC	Aug 8	Healthcare IT
NALYTTICA Data Science In Motion	Angel	Aug 8	Information Services
MDLIVE	Late Stage VC	Aug 1	Healthcare IT







8

Source: Pitchbook

^{*}For deals with announced transaction value

^{**}Please contact the MHH Technology Services Group directly for any information regarding valuation, deal size, and investors

VALUATION & PERFORMANCE METRICS

ITO IT Outsourcing: technology services and consulting solutions, including engineering, application development, knowledge management and business process management

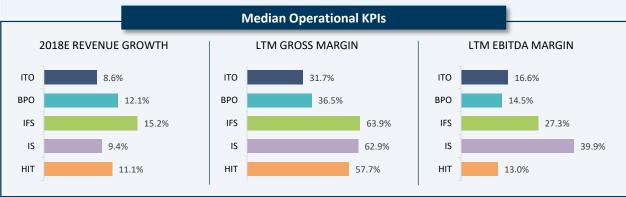
BPO Business Process Outsourcing: services for administering and managing select technology-enabled business processes, including outsourced product development, finance and accounting, human resources, research and analytics, and other industry-specific processes

FS Infrastructure Services: providers of managed, hosting and consulting services around planning, designing, implementing and managing mission-critical IT infrastructure

Information Services: providers of independent rating, benchmarking, research and data analytic services

Healthcare IT: software and technology-related services focused on the design, development, creation, use and maintenance of information systems for the healthcare industry







MHH | Technology Services Group

Source: CapitalIQ

IT OUTSOURCING

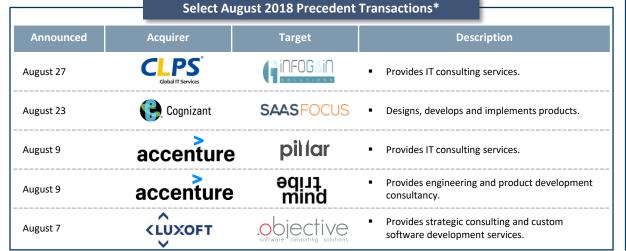
			Valu	\vdash									
(\$ in millions)			O	perating M		Valuation Multiples							
	Market	Rever	Revenue		EBITDA ⁽²⁾		LTM EBITDA	EV / Revenue			EV / EBITDA		
Company	Cap ⁽¹⁾	2018E	2019E	Margin	2018E	2019E	Margin	LTM	2018E	2019E	LTM	2018E	2019E
Accenture plc (ACN)	\$99,290	\$38,945	\$41,604	31.7%	\$6,731	\$7,281	16.3%	2.7x	2.5x	2.3x	14.4 x	14.3 x	13.2 x
Cognizant Technology Solutions Corporation (CTSH)	\$48,232	\$16,226	\$17,662	38.2%	\$3,459	\$3,947	20.5%	3.0x	2.7x	2.5x	13.5 x	12.7 x	11.2 x
Infosys Limited (INFY)	\$39,071	\$11,334	\$12,183	35.0%	\$2,991	\$3,251	26.9%	3.3x	3.1x	2.9x	12.3 x	11.9 x	10.9 x
DXC Technology Company (DXC)	\$29,294	\$24,201	\$23,951	25.4%	\$5,057	\$5,168	15.7%	1.8x	1.5x	1.5x	10.8 x	7.0 x	6.8 x
HCL Technologies Limited (HCLTECH)	\$20,070	\$8,272	\$9,073	33.9%	\$1,866	\$2,032	22.6%	2.5x	2.3x	2.1x	11.2 x	10.4 x	9.5 x
CGI Group Inc. (GIB.A)	\$16,608	\$8,864	\$9,146	29.8%	\$1,623	\$1,699	16.6%	2.0x	2.0x	2.0x	11.5 x	11.0 x	10.5 x
Wipro Limited (BSE:507685)	\$20,198	\$8,737	\$9,276	29.0%	\$1,792	\$1,834	19.7%	2.1x	2.0x	1.9x	10.4 x	9.9 x	9.7 x
Atos SE (ATO)	\$13,925	\$15,645	\$16,035	14.5%	\$2,195	\$2,289	12.6%	0.9x	0.9x	0.9x	7.0 x	6.5 x	6.2 x
Syntel, Inc. (SYNT)	\$2,228	\$932	\$952	38.0%	\$233	\$242	26.9%	2.7x	2.6x	2.6x	9.6 x	10.6 x	10.2 x
Virtusa Corporation (VRTU)	\$1,404	\$1,154	\$1,255	28.7%	\$95	\$118	6.9%	1.5x	1.3x	1.2x	15.7 x	15.2 x	12.2 x
Perficient, Inc. (PRFT)	\$680	\$482	\$504	34.2%	\$77	\$83	11.3%	1.6x	1.5x	1.5x	10.9 x	9.7 x	8.9 x
Mean	\$26,455	\$12,254	\$12,876	30.7%	\$2,375	\$2,540	17.8%	2.2x	2.0x	1.9x	11.6x	10.8x	9.9x
Median	\$20,070	\$8,864	\$9,276	31.7%	\$1,866	\$2,032	16.6%	2.1x	2.0x	2.0x	11.2x	10.6x	10.2x

NA = Not Available; NM = Not Meaningful; LTM = Latest Twelve Months

‡ = excluded from Mean and Median calculations

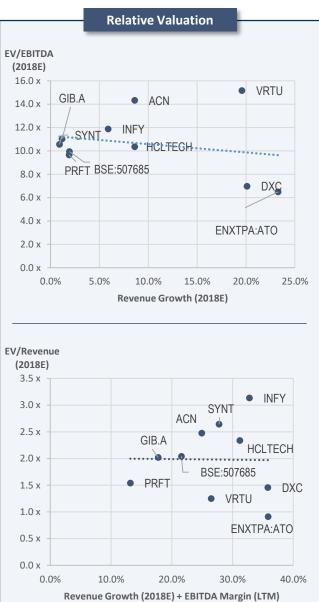
Source: Public Filings, Press Releases and Published Research Reports

- As of close August 31, 2018.
- (2) Excludes non-recurring, discontinued operations and stock-based compensation





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BUSINESS PROCESS OUTSOURCING

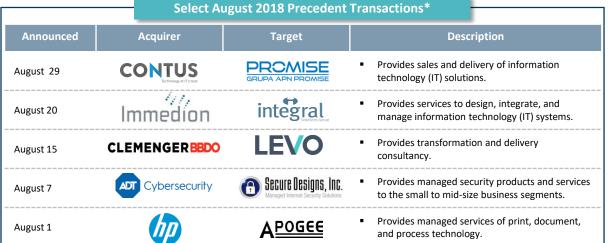
		Valuation Metrics											
(\$ in millions) Company				Operating	g Metrics	Valuation Multiples							
	Market	Rev	enue	LTM iue Gross	EBITDA ⁽²⁾		LTM EBITDA	EV / Revenue			EV / EBITDA		
	Cap ⁽¹⁾	2018E	2019E	Margin	2018E	2019E	Margin	LTM	2018E	2019E	LTM	2018E	2019E
Automatic Data Processing, Inc. (ADP)	\$52,341	\$13,723	\$14,555	42.8%	\$2,956	\$3,218	21.3%	4.0x	3.8x	3.6x	17.9 x	17.8 x	16.3 x
Genpact Limited (G)	\$6,126	\$2,975	\$3,210	37.8%	\$494	\$542	14.9%	2.4x	2.3x	2.1x	15.0 x	13.8 x	12.6 x
EPAM Systems, Inc. (EPAM)	\$6,100	\$1,847	\$2,243	36.0%	\$326	\$405	14.5%	3.6x	3.0x	2.5x	20.0 x	17.0 x	13.7 x
WNS (Holdings) Limited (WNS)	\$2,468	\$801	\$885	33.6%	\$172	\$204	14.5%	3.1x	2.9x	2.6x	16.7 x	13.6 x	11.5 x
ExIService Holdings, Inc. (EXLS)	\$1,997	\$847	\$919	34.5%	\$150	\$167	14.4%	2.3x	2.1x	2.0x	13.3 x	11.9 x	10.7 x
Globant S.A. (GLOB)	\$1,636	\$508	\$608	36.5%	\$86	\$104	13.6%	3.6x	3.1x	2.6x	20.5 x	18.4 x	15.2 x
Luxoft Holding, Inc. (LXFT)	\$1,364	\$995	\$1,139	37.5%	\$152	\$191	10.6%	1.5x	1.3x	1.1x	10.5 x	8.5 x	6.8 x
Mean	\$10,290	\$3,099	\$3,365	37.0%	\$620	\$690	14.8%	2.9x	2.7x	2.4x	16.3x	14.4x	12.4x
Median	\$2,468	\$995	\$1,139	36.5%	\$172	\$204	14.5%	3.1x	2.9x	2.5x	16.7x	13.8x	12.6x

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‡ = excluded from Mean and Median calculations

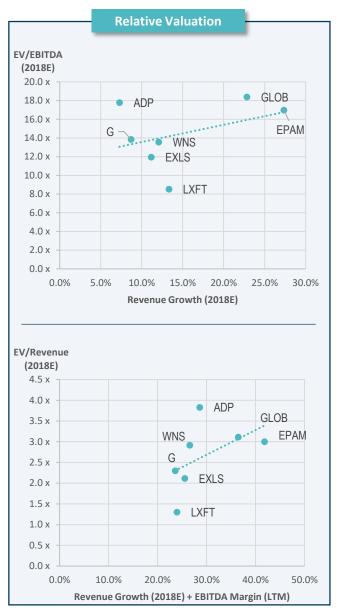
Source: Public Filings, Press Releases and Published Research Reports

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- (2) Excludes non-recurring, discontinued operations and stock-based compensation





Source: CapitalIQ



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INFRASTRUCTURE SERVICES

	-		V	aluatio	on Me	trics							
(\$ in millions)				Operating	g Metrics	Valuation Multiples							
	Market	Revenue		LTM Gross	EBITDA ⁽²⁾		LTM EBITDA	E	V / Revenu	е	E	A	
Company	Cap ⁽¹⁾	2018E	2019E	Margin	2018E	2019E	Margin	LTM	2018E	2019E	LTM	2018E	2019E
Equinix, Inc. (REIT) (EQIX)	\$31,065	\$5,043	\$5,556	49.8%	\$2,399	\$2,694	43.4%	9.1x	7.9x	7.2x	19.2 x	16.6 x	14.7 x
United Internet AG (UTDI)	\$13,611	\$6,223	\$6,630	35.3%	\$1,510	\$1,687	22.0%	3.3x	2.6x	2.4x	14.8 x	10.6 x	9.5 x
Zayo Group Holdings, Inc. (ZAYO)	\$8,893	\$2,660	\$2,758	63.9%	\$1,349	\$1,434	45.8%	5.7x	5.4x	5.2x	11.5 x	10.6 x	9.9 x
VeriSign, Inc. (VRSN)	\$11,268	\$1,208	\$1,252	83.4%	\$858	\$898	65.0%	9.7x	9.3x	9.0x	13.9 x	13.1 x	12.5 x
GoDaddy Inc. (GDDY)	\$8,011	\$2,599	\$2,887	65.3%	\$714	\$825	13.1%	4.5x	3.9x	3.5x	27.5 x	14.2 x	12.3 x
Wix.com Ltd. (WIX)	\$3,412	\$594	\$743	83.7%	\$106	\$166	-10.4%	7.5x	5.4x	4.3x	NM	30.0 x	19.1 x
Endurance International Group Holdings, Inc. (EIGI)	\$1,034	\$1,154	\$1,169	50.6%	\$332	\$346	24.0%	2.4x	2.5x	2.5x	8.4 x	8.7 x	8.3 x
Web.com Group, Inc. (WEB)	\$770	\$762	\$791	68.4%	\$192	\$208	20.0%	1.9x	1.8x	1.8x	8.1 x	7.3 x	6.7 x
Internap Corporation (INAP)	\$257	\$324	\$342	53.0%	\$111	\$119	30.6%	2.7x	2.3x	2.2x	8.5 x	6.8 x	6.3 x
Mean	\$8,702	\$2,285	\$2,459	61.5%	\$841	\$931	29.2%	5.2x	4.6x	4.2x	14.0x	13.1x	11.1x
Median	\$8,011	\$1,208	\$1,252	63.9%	\$714	\$825	27.3%	4.5x	3.9x	3.5x	12.7x	10.6x	9.9x

 $NA = Not\,Available;\,NM = Not\,Meaningful;\,LTM = Latest\,Twelve\,Months$

‡ = excluded from Mean and Median calculations

Source: Public Filings, Press Releases and Published Research Reports

- (1) As of close August 31, 2018.
- (2) Excludes non-recurring, discontinued operations and stock-based compensation



Source: CapitalIQ



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INFORMATION SERVICES

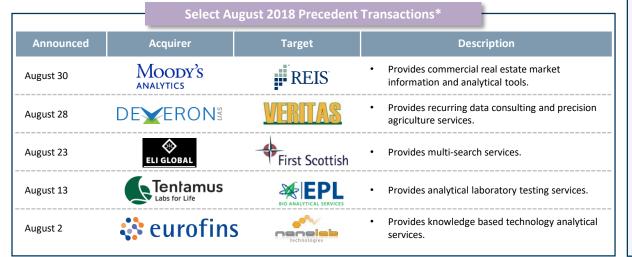
			V										
(\$ in millions) Company				Operating	g Metrics	Valuation Multiples							
	Market	Rev	enue	LTM Gross	EBITDA ⁽²⁾		LTM EBITDA	EV / Revenue			EV / EBITDA		
	Cap ⁽¹⁾	2018E	2019E	Margin	2018E	2019E	Margin	LTM	2018E	2019E	LTM	2018E	2019E
S&P Global Inc. (SPGI)	\$48,698	\$6,433	\$6,825	71.7%	\$3,181	\$3,405	48.3%	8.4x	7.9x	7.5x	16.8 x	16.0 x	14.9 x
Moody's Corporation (MCO)	\$31,891	\$4,703	\$4,989	70.9%	\$2,286	\$2,456	47.3%	8.7x	7.8x	7.3x	17.3 x	16.0 x	14.8 x
IQVIA Holdings Inc. (Q)	\$20,477	\$10,029	\$10,565	42.7%	\$2,199	\$2,378	21.1%	3.7x	3.0x	2.8x	16.6 x	13.6 x	12.6 x
IHS Markit Ltd. (INFO)	\$18,796	\$3,846	\$4,066	62.3%	\$1,520	\$1,651	31.1%	6.4x	5.9x	5.6x	16.6 x	15.0 x	13.9 x
Verisk Analytics, Inc. (VRSK)	\$16,863	\$2,361	\$2,525	63.5%	\$1,147	\$1,240	46.0%	9.2x	8.4x	7.8x	20.0 x	17.2 x	15.9 x
MSCI Inc. (MSCI)	\$12,729	\$1,442	\$1,580	78.5%	\$790	\$881	51.7%	10.9x	9.7x	8.8x	20.0 x	17.6 x	15.8 x
Gartner, Inc. (IT)	\$10,301	\$4,147	\$4,598	60.1%	\$776	\$873	11.5%	3.9x	3.1x	2.8x	28.3 x	16.8 x	14.9 x
FactSet Research Systems Inc. (FDS)	\$7,929	\$1,373	\$1,464	53.2%	\$469	\$499	33.9%	6.5x	6.0x	5.6x	17.8 x	17.6 x	16.5 x
Mean	\$20,961	\$4,292	\$4,576	62.9%	\$1,546	\$1,673	36.4%	7.2x	6.5x	6.0x	19.2x	16.2x	14.9x
Median	\$17,830	\$3,996	\$4,332	62.9%	\$1,334	\$1,446	39.9%	7.5x	6.9x	6.5x	17.5x	16.4x	14.9x

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‡ = excluded from Mean and Median calculations

Source: Public Filings, Press Releases and Published Research Reports

- (1) As of close August 31, 2018.
- (2) Excludes non-recurring, discontinued operations and stock-based compensation





0.0 x

0.0%

20.0%

40.0%

Revenue Growth (2018E) + EBITDA Margin (LTM)

60.0%

80.0%

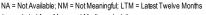
Relative Valuation

Source: CapitalIQ

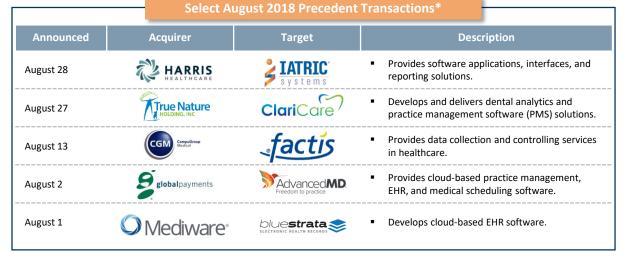
^{*}Please contact the MHH Technology Services Group directly for any information regarding valuation and deal size

HEALTHCARE IT

Valuation Metrics **Operating Metrics** Valuation Multiples (\$ in millions) LTM EBITDA(2) Revenue Gross **EBITDA** EV / Revenue EV / EBITDA Market 2018E Margin 2018E Margin Cap (1) 2019E 2019E LTM 2018E 2019E LTM 2018E 2019E Company Cerner Corporation (CERN) \$19,324 \$5,369 \$5,830 84.5% \$1,626 \$1,783 26.2% 3.8x 3.5x 3.3x 13.4 x 11.7 x 10.7 x Veeva Systems Inc. (VEEV) \$9,986 \$819 \$964 69.2% \$266 \$317 24.1% 13.5x 11.3x 42.1 x 34.6 x 29.1 x 9.6x athenahealth, Inc. (ATHN) \$4,949 \$1.356 \$1,490 54.1% \$374 \$428 16.8% 4.0x 3.7x 3.4x 18.9 x 13.6 x 11.9 x Allscripts Healthcare Solutions, Inc. (MDRX) \$2,068 \$2,178 \$2,289 49.6% \$433 \$469 7.6% 2.1x 1.8x 1.7x 20.9 x 9.1 x 8.5 x Inovalon Holdings, Inc. (INOV) \$1,450 \$566 \$639 66.3% \$161 \$192 12.8% 2.8x 2.2x 1.9x 16.7 x 7.6 x 6.4 x Quality Systems, Inc. (QSII) \$856 \$538 \$556 55.4% \$81 \$85 9.7% 1.7x 1.6x 1.6x 14.1 x 10.8 x 10.2 x National Research Corporation (NRC) \$686 58.2% NA 32.1% NM NM NM NM NA NA NA 5.5x 16.4 x HealthStream, Inc. (HSTM) \$749 \$229 \$239 57.3% \$39 \$43 11.0% 2.2x 2.4x 2.3x 18.8 x 14.1 x 12.9 x \$291 55.6% \$52 \$52 13.1% Computer Programs and Systems, Inc. (CPSI) \$411 \$300 1.9x 1.9x 1.8x 12.3 x 10.5 x 10.7 x Castight Health, Inc. (CSLT) \$509 \$154 \$181 61.4% (\$14)\$7 -38.1% 3.0x 2.7x 2.3x NM NM NM



- ‡ = excluded from Mean and Median calculations
- Source: Public Filings, Press Releases and Published Research Reports
- (1) As of close August 31, 2018.
- (2) Excludes non-recurring, discontinued operations and stock-based compensation







Source: CapitalIQ

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^{**}Excluded: CSLT

TECHNOLOGY SERVICES MONTHLY

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Mufson Howe Hunter

INVESTMENT BANKERS FOR GROWTH

The Mufson Howe Hunter Technology Services Indices

IT Outsourcing is currently comprised of: ACN, CTSH, INFY, NESI:HCLTECH, GIB.A, WIT, ENXTPA:ATO, SYNT, VRTU, PRFT; Business Process Outsourcing Index is currently comprised of: ADP, G, EPAM, LXFT, EXLS, WNS, GLOB; Infrastructure Services Index is currently comprised of: EQIX, ZAYO, UTDI, VRSN, DFT, GDDY, EIGI, WIX, WEB, INAP; Information Services Index is currently comprised of: SPGI, Q, MCO, INFO, VRSK, IT, MSCI, FDS; and, Healthcare IT is currently comprised of: CERN, VEEV, ATHN, MDRX, WBMD, INOV, QSII, HSTM, NRCI.B, CPSI, CSLT.

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