Q2: Quarterly Industry Update

AS OF June 30, 2018



Predictive Analytics

INDUSTRY SUMMARY

COGENT VALUATION identified **Predictive Analytics** publicly traded companies, IPOs, and recent M&A transactions within the Predictive Analytics industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Over the last year since June 30, 2017, the median 52-week share price return of the Predictive Analytics industry was 13.4%. Between June 30, 2016 and June 30, 2018, the median EV/EBITDA multiple increased from 16.6 to 18.8. Furthermore, the median price-to-earnings multiple increased from 25.1 to 40.9 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 2.2% and 10.4%, respectively.

Public Company Key Statistics

Return	R
13.4%	•
Median EV/EBITDA	N

Median EV/EBITDA
Multiple

Median 52-Week

18.8x

Median	3-Year	CAGR
Return		

18.5%

Median Price/Earnings Multiple

40.9x

Median EV/Revenue Multiple

3.4x

Median EV/Gross CF Multiple

35.1x

Comparable Public Company Market Price Returns as of June 30, 2018

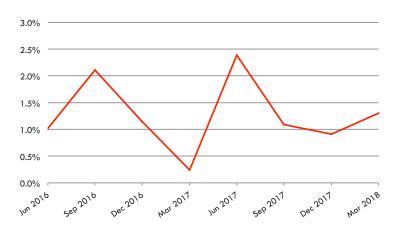
	YTD	3 Month	1 Year	2 Year	2017	2016	2015	2014
Acxiom Corporation	8.7%	-17.6%	2.8%	14.8%	2.8%	28.1%	3.2%	-45.2%
Brightcove Inc.	35.9%	-2.1%	-11.8%	7.0%	-11.8%	29.8%	-20.3%	-45.0%
comScore, Inc.	26.2%	-15.5%	-9.8%	-16.8%	-9.8%	-23.3%	-11.4%	62.3%
Fair Isaac Corporation	-2.7%	10.6%	28.5%	27.5%	28.5%	26.6%	30.3%	15.1%
MicroStrategy Incorporated	-2.5%	-1.8%	-33.5%	-14.4%	-33.5%	10.1%	10.4%	30.7%
NetScout Systems, Inc.	11.9%	-13.5%	-3.3%	-0.4%	-3.3%	2.6%	-16.0%	23.5%
NICE Ltd.	-1.3%	1.0%	35.2%	26.6%	35.2%	18.4%	13.9%	23.4%
Open Text Corporation	16.2%	-2.4%	15.4%	22.0%	15.4%	29.0%	-17.7%	26.7%
Pegasystems, Inc.	38.3%	28.6%	31.0%	30.9%	31.0%	30.9%	32.4%	-15.5%
PROS Holdings, Inc.	6.0%	24.8%	22.9%	7.1%	22.9%	-6.6%	-16.2%	-31.1%
Verint Systems Inc.	8.7%	1.8%	18.7%	1.6%	18.7%	-13.1%	-30.4%	35.7%
Median of Industry Public Companies	10.3%	-1.8%	15.4%	7.1%	15.4%	18.4%	-11.4%	23.4%

Multiple year periods are calculated as the average annual return.

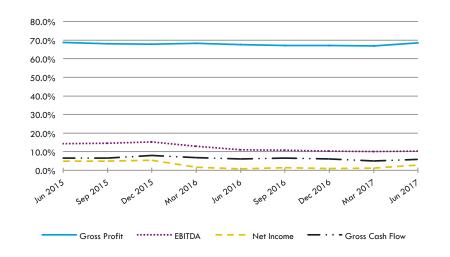


Industry Revenue Growth and Profit Margins for the Past Two Years





Median Gross Profit, EBITDA, Net Income, and Gross Cash Flow Margins



Public Company Median Multiples by Quarter

	6/30/18	3/31/18	12/31/17	6/30/17	12/31/16	9/30/16	6/30/16	3/31/16
EV/Revenues Multiple	3.4x	3.5x	3.5x	3.6x	3.3x	2.8x	2.6x	2.5x
EV/EBITDA Multiple	18.8x	18.2x	18.5x	21.6x	21.3x	22.4x	18.7x	17.3x
Price/Earnings Multiple	40.9x	40.5x	39.4x	35.6x	26.9x	27.0x	25.1x	23.4x
EV/Gross Cash Flows Multiple	35.1x	33.6x	36.8x	34.6x	36.2x	34.2x	30.1x	33.8x
Highest Multiple Lowest Multiple	M edian	Multiple						

Industry Initial Public Offerings—Predictive Analytics (dollars in millions, except share prices)

Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
6/24/15	TransUnion	\$22.50	29.5	\$664.8	\$4,614.3	\$2,976.4	\$1,354.4	\$398.9	(\$4.4)	\$629.4
2/17/12	Brightcove Inc.	\$11.00	5.0	\$55.0	\$47.3	\$7.0	\$63.6	(\$14.0)	(\$17.6)	(\$11.9)
6/27/07	PROS Holdings, Inc.	\$11.00	6.8	\$75.1	\$25.7	\$20.0	\$49.9	\$9.5	\$8.3	\$10.7
6/26/07	comScore, Inc.	\$16.50	5.3	\$87.5	\$45.5	\$3.3	\$70.0	\$11.4	\$7.1	\$14.4
12/12/06	Guidance Software, Inc.	\$11.50	5.0	\$57.5	\$26.6	\$2.0	\$51.2	(\$0.3)	(\$1.8)	\$1.4
11/10/05	IHS Markit Ltd.	\$16.00	14.5	\$232.2	\$743.0	\$0.3	\$468.5	\$63.5	\$52.4	\$73.6
	Median of all IPOs	nm	5.6	\$81.3	\$46.4	\$5.2	\$66.8	\$3.1	\$2.7	\$12.6

Multiple year periods are calculated as the average annual return.



Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	_e Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/ Revenues
1/30/18	Angoss Software Corp.	Datawatch Corporation	\$32.7	100%	\$10.2	2.8x
9/26/17	automotiveMastermind, Inc.	IHS Markit Ltd.	\$435.0	100%	N/A	N/A
8/14/17	MacroPoint, LLC	The Descartes Systems	\$106.6	100%	N/A	N/A
4/12/17	Tollgrade Communications, Inc.	Enghouse Systems Limited	\$17.3	100%	N/A	N/A
10/16/15	Datamyx LLC	Deluxe Corp.	\$160.0	100%	N/A	N/A
9/30/15	Unruly Group Limited	News Corp UK & Ireland	\$176.8	100%	N/A	N/A
8/3/15	1010data, Inc.	Advance Communication	\$500.0	100%	\$2.0	10.0x
11/3/14	Evolv, Inc.	PTC Inc.	\$600.0	100%	\$6.1	7.3x
10/31/14	QuantiSense, Inc.	Market Resource Partners	\$20.0	100%	N/A	N/A
2/28/14	KnowledgeAdvisors, Inc.	Corporate Executive Board	\$45.0	100%	N/A	N/A
1/29/14	Rationalwave, Inc.	Bottomline Technologies	\$8.0	100%	N/A	N/A
1/22/14	Scout Analytics, Inc.	ServiceSource International	\$32.5	100%	\$5.4	6.0x

USA International Highest Lowest Median (Continued on next page)

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

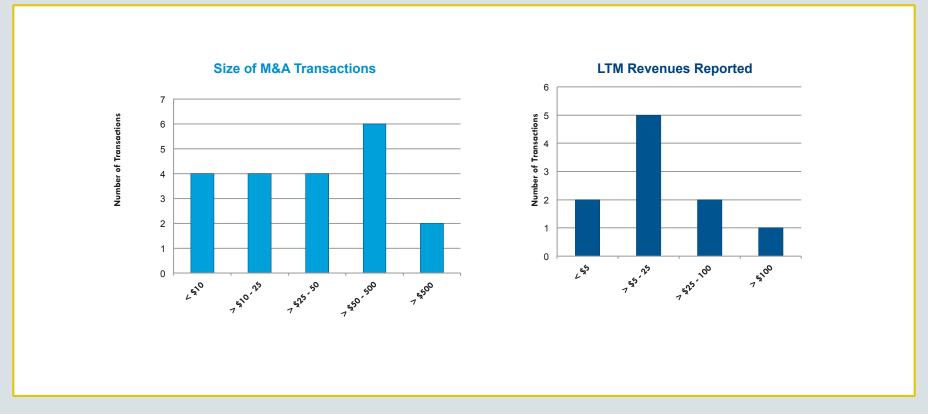
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Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/ Revenues
1/14/14	Zinnov, LLC	Corporate Executive Board	\$8.0	100%	N/A	N/A
12/25/13	Dentsu Marketing Insight	Macromill, Inc.	\$4.1	51%	\$55.8	0.1x
9/12/13	Molecular Profiles Ltd.	Columbia Laboratories	\$25.4	100%	\$9.0	2.8x
8/28/13	Panopticon Software AB	Datawatch Corporation	\$27.5	100%	\$5.0	5.5x
7/22/13	Neolane SAS	Adobe Systems	\$616.5	100%	\$58.2	10.6x
4/25/13	Angoss Software Corp.	Peterson Partners LP	\$8.5	100%	\$7.0	1.1x
12/27/12	(m)PHASIZE, LLC	Sapient Corp.	\$18.2	100%	N/A	N/A
10/21/11	Algorithmics, Inc.	OpenPages, Inc.	\$380.2	100%	\$163.7	2.3x
	Median of the 20 M&A Tra	ansaction Targets	\$33.2	100%	\$7.0	5.5x



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Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of June 30, 2018





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Definitions of Financial Terms Used in this Quarterly Industry Update:

Enterprise Value (EV): Market Value of Equity + Market Value of Debt —Cash

Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA): Profitability metric sometimes also referred to as operating profit or operating earnings.

Gross Cash Flows: Net Income + Depreciation and Amortization Expense

Latest Twelve Months (LTM): Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

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