



Industry Observations – December 31, 2018

Aerospace, Defense and Other Government-Contracted Industries

Select Aerospace, Defense and Other Government Contractor Public Company Industry Data

As of December 31, 2018

(USD in millions, except per share data)

		Market Data					LTM (Operating D	Forward Estimates		
Company Name	Ticker	Price at 12/31/18	% of 52 Week High	Equity Value	Enterprise Value	Debt / Total Capital	Total Assets	LTM Revenue	LTM EBITDA	CY 2018 Revenue Estimate	CY 2018 EBITDA Estimate
Diversified Contractors	TICKCI	12/01/10	weekingn	Value	Value	Сарпа	1133013	Revenue	LDITDA	Limate	Limate
General Dynamics											
Corporation	GD	\$157.21	68.4%	\$46,557.70	\$61,144.73	51.4%	\$45,408.00	\$36,193.00	\$5,265.00	\$38,559.39	\$5,394.87
				*,	4/		*,	#/	1-7	#/	#=>=====
Juniper Networks, Inc.	JNPR	\$26.91	87.4%	\$9,288.10	\$7,584.98	30.7%	\$9,363.30	\$4,647.50	\$794.50	\$4,490.95	\$969.04
Kratos Defense & Securit	y			-					-		
Solutions, Inc.	KTOS	\$14.09	87.6%	\$1,461.87	\$1,813.53	36.5%	\$1,011.90	\$768.50	\$58.10	\$722.15	\$73.93
MasTec, Inc.	MTZ	\$40.56	73.0%	\$3,131.36	\$4,902.28	54.3%	\$4,974.81	\$6,594.73	\$603.71	\$7,535.39	\$774.50
Motorola Solutions, Inc.	MSI	\$115.04	85.9%	\$18,812.25	\$26,227.77	131.6%	\$9,409.00	\$7,343.00	\$1,761.00	\$7,845.11	\$2,127.22
QUALCOMM											
Incorporated	QCOM	\$56.91	74.4%	\$68,984.17	\$66,937.27	81.9%	\$34,246.00	\$21,539.00	\$6,389.00	\$21,029.05	\$6,666.84
Teledyne Technologies			00.50/		******	25.22	** ***	*****	A 5.44.50	******	****
Incorporated	TDY	\$207.07	82.5%	\$7,470.90	\$8,859.03	25.2%	\$3,809.30	\$2,901.80	\$541.70	\$3,011.59	\$600.00
Information Technolog	y and Con	sulting Contr	ractors								
imormadon recimolog	y and com	striding Contr	actors								
CACI International Inc	CACI	\$144.03	71.7%	\$3,578.99	\$5,348.57	31.9%	\$4,290.62	\$4,641.69	\$456.86	\$5,187.36	\$482.91
Fortinet, Inc.	FTNT	\$70.43	74.6%	\$11,999.17	\$12,153.79	0.0%	\$3,078.00	\$1,801.20	\$286.70	\$2,087.48	\$545.76
Harris Corporation	HRS	\$134.65	76.7%	\$16,168.77	\$22,347.62	52.8%	\$9,852.00	\$6,445.00	\$1,519.00	\$6,922.05	\$1,571.20
ManTech International	пкэ	\$15 1 .05	70.776	\$10,100.77	\$22,347.02	J2.0 / 0	\$9,032.00	эu,ттэ.00	\$1,319.00	φ0,922.03	φ1,371.20
Corporation	MANT	\$52.30	76.8%	\$2,077.80	\$2,289.92	0.0%	\$1,795.53	\$1,923.77	\$161.14	\$2,102.11	\$185.76
NetApp, Inc.	NTAP	\$59.67	67.7%	\$15,030.04	\$14,111.47	53.9%	\$8,551.00	\$6,166.00	\$1,267.00	\$6,506.52	\$1,669.98
NIC Inc.	EGOV	\$12.48	70.5%	\$830.79	\$948.63	0.0%	\$310.53	\$344.90	\$84.18	\$339.95	\$79.90
Tyler Technologies, Inc.	TYL	\$185.82	73.6%	\$7,214.14	\$7,811.20	0.0%	\$1,864.62	\$910.77	\$194.07	\$1,038.97	\$315.74
Verint Systems Inc.	VRNT	\$42.31	80.7%	\$2,761.64	\$3,718.76	39.1%	\$2,703.58	\$1,218.25	\$164.58	\$1,330.81	\$326.12
Viasat, Inc.	VSAT	\$58.95	73.4%	\$3,516.38	\$5,506.19	38.1%	\$3,629.72	\$1,950.71	\$160.10	\$2,162.74	\$397.05
VSE Corporation	VSEC	\$29.91	53.4%	\$325.45	\$532.62	37.7%	\$637.07	\$711.02	\$77.61	\$0.00	\$0.00

Notes: LTM (latest twelve months); Enterprise Value (market capitalization less total cash and short-term investments plus short-term borrowings and total long-term debt); EBITDA (earnings before interest, taxes, depreciation and amortization)

Source: Capital IQ

The material contained in this publication is meant to provide general information regarding valuation topics. This publication does not constitute investment advice with respect to the securities of any company discussed herein, is not intended to provide information upon which to base an investment decision, and should not be construed as such. Professional advice should be obtained before taking any action based on the information contained herein.

Publicly available information utilized in this publication has been obtained from sources deemed to be reliable. Houlihan does not guarantee the accuracy or completeness of the information provided within this publication. The material presented reflects information known to the authors at the time this publication was written and this information is subject to change.

Select Aerospace, Defense and Other Government Contractor Public Company Industry Data As of December 31, 2018

(USD in millions, except per share data)

	Market Data					LTM	Operating D	Forward Estimates			
Ticker	Price at 12/31/18	% of 52 Week High	Equity Value	Enterprise Value	Debt / Total Capital	Total Assets	LTM Revenue	LTM EBITDA	CY 2018 Revenue Estimate	CY 2018 EBITDA Estimate	
Aerospace and Defense Contractors											
AIR	\$37.34	72.5%	\$1,282.84	\$1,458.17	19.0%	\$1,604.20	\$1,889.40	\$ 127.10	\$2,114.65	\$187.74	
OSIS	\$73.30	88.4%	\$1,330.62	\$1,875.30	44.9%	\$1,297.68	\$1,124.08	\$148.75	\$1,191.56	\$196.49	
BLL	\$45.98	90.2%	\$15,596.01	\$24,290.41	65.4%	\$16,554.00	\$11,635.00	\$1,828.00	\$11,722.88	\$1,993.86	
CUB	\$53.74	69.5%	\$1,673.09	\$2,033.92	22.7%	\$1,548.96	\$1,259 .77	\$94.27	\$1,455.05	\$159.08	
ESL	\$121.45	99.4%	\$3,599.88	\$3,905.83	26.3%	\$3,017.38	\$2,037.78	\$334.93	\$2,094.47	\$331.74	
FLIR	\$43.54	68.2%	\$6,023.67	\$6,750.96	17.8%	\$2,856.89	\$1,822.01	\$411.21	\$1,847.69	\$464.92	
HXL	\$57.34	78.1%	\$4,936.71	\$6,842.41	42.0%	\$2,824.10	\$2,189.10	\$502.00	\$2,415.95	\$575.35	
нп	\$190.31	68.8%	\$8,174.63	\$10,202.62	41.3%	\$6,199.00		\$1,216.00	\$8,180,48	\$1,066.92	
NOC						- ,				\$4,787.22	
RTN										\$5,260.67	
BA					97.1%				\$110,912.67	\$17,739.28	
TDG	\$340.06	90.0%	\$17,937.63	\$33,062,47	114.8%	\$12,389.28	\$3,956.47	\$1,895.68	\$4,263,72	\$2,122.21	
				. ,						\$259.04	
UTX					52.8%			-	\$77,029.06	\$13,718.16	
	ONTRACTOR AIR OSIS BLL CUB ESL FLIR HXL HIII NOC RTIN BA TDG	Ticker 12/31/18 ontractors AIR \$37.34 OSIS \$73.30 BLL \$45.98 CUB \$53.74 ESL \$121.45 FLIR \$43.54 HXL \$57.34 HII \$190.31 NOC \$244.90 RTN \$153.35 BA \$322.50 TDG \$340.06 TGI \$11.50	Price at 12/31/18 % of 52 Week High Jointractors AIR \$37.34 72.5% OSIS \$73.30 88.4% BLL \$45.98 90.2% CUB \$53.74 69.5% ESL \$121.45 99.4% FLIR \$43.54 68.2% HXL \$57.34 78.1% HII \$190.31 68.8% NOC \$244.90 67.9% RTN \$153.35 66.7% BA \$322.50 81.8% TDG \$340.06 90.0% TGI \$11.50 38.3%	Price at 12/31/18 % of 52 Week High Equity Value Contractors AIR \$37.34 72.5% \$1,282.84 OSIS \$73.30 88.4% \$1,330.62 BLL \$45.98 90.2% \$15,596.01 CUB \$53.74 69.5% \$1,673.09 ESL \$121.45 99.4% \$3,599.88 FLIR \$43.54 68.2% \$6,023.67 HXL \$57.34 78.1% \$4,936.71 HII \$190.31 68.8% \$8,174.63 NOC \$244.90 67.9% \$42,519.47 RTN \$153.35 66.7% \$43,639.88 BA \$322.50 81.8% \$183,143.03 TDG \$340.06 90.0% \$17,937.63 TGI \$11.50 38.3% \$573.11	Ticker Price at 12/31/18 % of 52 Week High Equity Value Enterprise Value Contractors AIR \$37.34 72.5% \$1,282.84 \$1,458.17 OSIS \$73.30 88.4% \$1,330.62 \$1,875.30 BIL \$45.98 90.2% \$15,596.01 \$24,290.41 CUB \$53.74 69.5% \$1,673.09 \$2,033.92 ESL \$121.45 99.4% \$3,599.88 \$3,905.83 FLIR \$43.54 68.2% \$6,023.67 \$6,750.96 HXL \$57.34 78.1% \$4,936.71 \$6,842.41 HII \$190.31 68.8% \$8,174.63 \$10,202.62 NOC \$244.90 67.9% \$42,519.47 \$60,650.74 RTN \$153.35 66.7% \$43,639.88 \$51,920.79 BA \$322.50 \$1.8% \$183,143.03 \$235,099.93 TDG \$340.06 90.0% \$17,937.63 \$33,062.47 TGI \$11.50 38.3% \$573.1	Price at 12/31/18 % of 52 Week High Equity Value Enterprise Value Debt / Total Capital Contractors AIR \$37.34 72.5% \$1,282.84 \$1,458.17 19.0% OSIS \$73.30 88.4% \$1,330.62 \$1,875.30 44.9% BILL \$45.98 90.2% \$15,596.01 \$24,290.41 65.4% CUB \$53.74 69.5% \$1,673.09 \$2,033.92 22.7% ESL \$121.45 99.4% \$3,599.88 \$3,905.83 26.3% FLIR \$43.54 68.2% \$6,023.67 \$6,750.96 17.8% HXL \$57.34 78.1% \$4,936.71 \$6,842.41 42.0% HII \$190.31 68.8% \$8,174.63 \$10,202.62 41.3% NOC \$244.90 67.9% \$42,519.47 \$60,650.74 64.1% RTN \$153.35 66.7% \$43,639.88 \$51,920.79 29.8% BA \$322.50 81.8% \$183,143.03 <td> Price at 12/31/18 Week High Price at 12/31/18 Week High Price at 12/31/18 Price at Price a</td> <td> Price at 12/31/18 Week High Value Value Value Value Capital Total LTM Revenue Contractors </td> <td> Price at 1/2/31/18 Week High Value Enterprise Value Capital Total Assets Revenue EBITDA </td> <td> Price at % of 52 Equity Enterprise Total Capital Total LTM LTM Revenue Estimate Estimate </td>	Price at 12/31/18 Week High Price at 12/31/18 Week High Price at 12/31/18 Price at Price a	Price at 12/31/18 Week High Value Value Value Value Capital Total LTM Revenue Contractors	Price at 1/2/31/18 Week High Value Enterprise Value Capital Total Assets Revenue EBITDA	Price at % of 52 Equity Enterprise Total Capital Total LTM LTM Revenue Estimate Estimate	

 $Notes: LTM\ (latest\ twelve\ months);\ Enterprise\ Value\ (market\ capitalization\ less\ total\ cash\ and\ short-term\ investments\ plus\ short-term\ borrowings\ and\ total\ long-term\ debt);$

EBITDA (earnings before interest, taxes, depreciation and amortization)

Source: Capital IQ

Select Aerospace, Defense and Other Government Contractor Public Company Valuation Metrics

As of December 31, 2018

(USD in millions, except per share data)

				LTM Operat	Trading Multiples						
		Return	Return	Return				TEV/	TEV/	TEV/	TEV/
		On	On	On	Revenue	EBITDA	EBITDA	LTM	CY 2018	LTM	CY 2018
Company Name	Ticker	Assets	Equity	Capital	Growth	Growth	Margin	Revenue	Revenue	EBITDA	EBITDA
Diversified Contractors											
General Dynamics											
Corporation	GD	7.0%	29.0%	14.2%	16.9%	14.0%	14.5%	1.7x	1.6x	11.6x	11.3:
Juniper Networks, Inc.	INPR	3.8%	11.9%	5.3%	-7.6%	-30.9%	17.1%	1.6x	1.7x	9.5x	7.82
Kratos Defense & Security											
Solutions, Inc.	KTOS	2.3%	-4.0%	2.8%	24.1%	83.3%	7.6%	2.4x	2.5x	31.2x	24.5
MasTec, Inc.	MTZ	5.6%	27.8%	8.5%	3.9%	-0.5%	9.2%	0.7x	0.7x	8.1x	6.32
Motorola Solutions, Inc.	MSI	9.9%	N/A	25.8%	15.1%	4.9%	24.0%	3.6x	3.3x	14.9x	12.2
QUALCOMM	WISI	2.2/0	11/11	23.070	13.170	4.970	24.070	J.0X	J.JX	14.71	12.3:
Incorporated	QCOM	6.1%	15.9%	9.1%	-3.5%	0.3%	29.7%	3.1x	3.2x	10.5x	10.02
Teledyne Technologies											
Incorporated	TDY	7.0%	16.0%	9.0%	11.4%	14.9%	18.7%	3.1x	2.9x	16.4x	14.82
	Mean	6.0%	16.1%	10.7%	8.6%	12.3%	17.2%	2.3x	2.3x	14.6x	12.55
	Median	6.1%	15.9%	9.0%	11.4%	4.9%	17.1%	2.4x	2.5x	11.6x	11.33
Information Technology CACI International Inc	CACI	5.9%	12.4%	7.5%	5.6%	23.2%	9.8%	1.2x	1.0x	11.7x	11.12
CACI International Inc	CACI	3.970	12.4/0	7.570	3.070	23.2 /0	2.070	1.21	1.0x	11./X	11.12
Fortinet, Inc.	FTNT	5.4%	41.5%	18.1%	20.5%	71.2%	15.9%	6.7x	5.8x	42.4x	22.35
Harris Corporation	HRS	8.0%	27.0%	11.1%	7.8%	12.5%	23.6%	3.5x	3.2x	14.7x	14.23
ManTech International											
Corporation	MANT	4.0%	9.8%	5.2%	16.7%	27.7%	8.4%	1.2x	1.1x	14.2x	12.3
NetApp, Inc.	NTAP	7.4%	13.7%	15.0%	9.7%	25.9%	20.5%	2.3x	2.2x	11.1x	8.52
NIC Inc.	EGOV	15.5%	30.7%	24.7%	2.5%	1.0%	24.4%	2.8x	2.8x	11.3x	11.92
Tyler Technologies, Inc.	TYL	5.8%	14.1%	7.8%	11.5%	5.2%	21.3%	8.6x	7.5x	40.2x	24.7:
Verint Systems Inc.	VRNT	2.6%	5.3%	3.5%	9.5%	65.4%	13.5%	3.1x	2.8x	22.6x	11.4:
vennt systems me.	VIXIVI	2.070	3.370	J.J /0	2.370	05.470	1.J.J/0	J.1X	2.0X	22.0X	11.43
Viasat, Inc.	VSAT	-1.9%	-4.9%	-2.2%	24.1%	-1.0%	8.2%	2.8x	2.5x	34.4x	13.95
VSE Corporation	VSEC	5.2%	14.5%	6.6%	-8.9%	-4.0%	10.9%	0.7x	N/A	6.9x	N/A
	Mean	5.8%	16.4%	9.7%	9.9%	22.7%	15.7%	3.3x	3.2x	21.0x	14.55
	Median	5.6%	13.9%	7.7%	9.6%	17.9%	14.7%				12.3x

Notes: LTM (latest twelve months); NTM (next twelve months); EBITDA (earnings before interest, taxes, depreciation and amortization); TEV (total enterprise value)

Source: Capital IQ

Select Aerospace, Defense and Other Government Contractor Public Company Valuation Metrics

As of December 31, 2018

(USD in millions, except per share data)

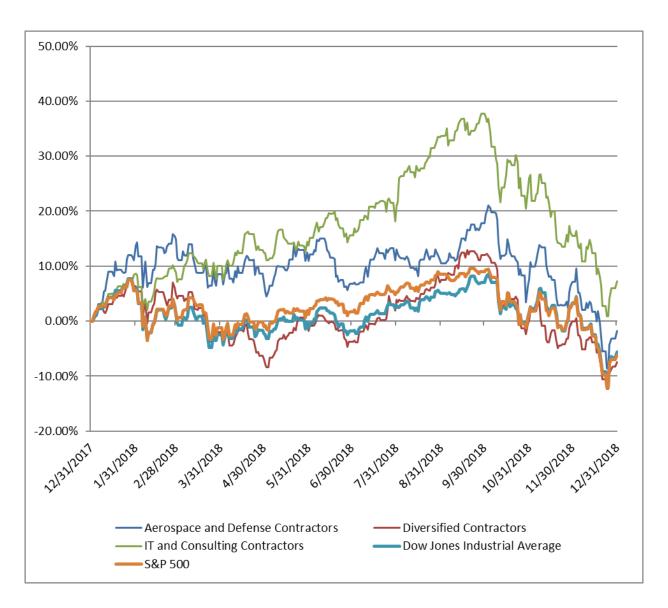
. 11	,			LTM Operat	ting Statistics			Trading Multiples				
		Return	Return	Return				TEV/	TEV/	TEV/	TEV/	
		On	On	On	Revenue	EBITDA	EBITDA	LTM	CY 2018	LTM	CY 2018	
Company Name	Ticker	Assets	Equity	Capital	Growth	Growth	Margin	Revenue	Revenue	EBITDA	EBITDA	
Aerospace and Defense	Contractors											
AAR Corp.	AIR	3.5%	8.6%	4.8%	12.7%	7.8%	6.7%	0.8x	0.7x	11.5x	7.8x	
OSI Systems, Inc.	OSIS	4.4%	7.0%	6.2%	8.9%	-14.8%	13.2%	1.7x	1.6x	12.6x	9.5x	
Ball Corporation	BLL	4.2%	11.9%	6.6%	5.9%	4.3%	15.7%	2.1x	2.1x	13.3x	12.2x	
Cubic Corporation	CUB	1.9%	1.1%	2.5%	13.3%	109.5%	7.5%	1.6x	1.4x	21.6x	12.8x	
Esterline Technologies Corporation	ESL	4.7%	7.6%	5.6%	0.7%	19.5%	16.4%	1.9x	1.9x	11.7x	11.8x	
FLIR Systems, Inc.	FLIR	7.7%	7.0%	9.2%	2.3%	9.5%	22.6%	3.7x	3.7x	16.4x	14.5x	
Hexcel Corporation	HXL	8.5%	19.6%	10.3%	10.9%	10.3%	22.9%	3.1x	2.8x	13.6x	11.9x	
Huntington Ingalls Industries, Inc.	НП	10.2%	38.9%	20.6%	8.2%	10.8%	15.3%	1.3x	1.2x	8.4x	9.6x	
Northrop Grumman Corporation	NOC	7.2%	42.2%	11.6%	15.7%	1.5%	16.6%	2.0x	1.8x	12.1x	12.7x	
Raytheon Company	RTN	6.6%	25.8%	12.7%	6.7%	2.1%	14.3%	1.9x	1.8x	13.4x	9.9x	
The Boeing Company	BA	7.0%	2545.0%	57.2%	8.3%	14.8%	13.8%	2.3x	2.1x	16.9x	13.3x	
TransDigm Group Incorporated	TDG	9.8%	N/A	10.8%	11.8%	14.0%	47.9%	8.4x	7.8x	17.4x	15.6x	
Triumph Group, Inc.	TGI	0.9%	-180.9%	2.0%	5.3%	-65.0%	3.8%	0.8x	0.9x	21.1x	10.4x	
United Technologies Corporation	UTX	4.8%	15.6%	7.6%	11.1%	14.5%	16.9%	2.2x	1.9x	13.1x	10.7x	
	Mean Median	5.8% 5.7%	196.1% 11.9%	12.0% 8.4%	8.7% 8.6%			2.4x 2.0x	2.3x 1.8x	14.5x 13.3x	11.6x 11.8x	
		5.170	-1.0 / 0	3.170	0.070	2.270	-5.570	2.0.1	1.01	10.01	11.0.	

Notes: LTM (latest twelve months); NTM (next twelve months); EBITDA (earnings before interest, taxes, depreciation and amortization); TEV (total enterprise value)

Source: Capital IQ

Aerospace, Defense and Other Government Contractor Public Company LTM Equity Performance

As of December 31, 2018



Note: The indices are derived from the equity performance of the previously listed companies. Source: Capital IQ

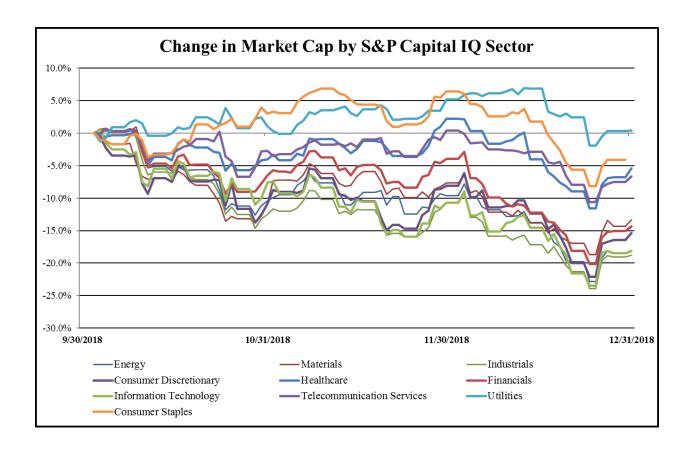
Recent M&A Activity in Aerospace, Defense and Other Government Contracted Industries December 31, 2017 to December 31, 2018

(USD in millions)

Close Date	Target	Acquirer	Target Company Primary Industry	Implied Enterprise Value
11/26/2018	Rockwell Collins, Inc. (nka:Collins Aerospace)	United Technologies Corporation	Aerospace and Defense	\$30,365.22
6/6/2018	Orbital ATK, Inc. (nka:Northrop Grumman Innovation Systems,	Northrop Grumman Corporation	Aerospace and Defense	\$9,355.03
4/2/2018	ECS Federal, LLC	On Assignment, Inc. (nka:ASGN Incorporated)	Aerospace and Defense	\$775.00
6/29/2018	L-3 Communications Vertex Aerospace LLC and Related Assets	American Industrial Partners	Aerospace and Defense	\$540.00
4/24/2018	Extant Components Group Holdings, Inc.	TransDigm Group Incorporated	Aerospace and Defense	\$525.00
4/25/2018	SGT, Inc.	KBRwyle Technology Solutions, LLC	Aerospace and Defense	\$355.00
1/19/2018	FMH Aerospace Corp.	AMETEK, Inc.	Aerospace and Defense	\$235.00
12/31/2018	Navistar Defense LLC	Olive Investor, L.P.	Aerospace and Defense	\$200.00
5/31/2018	Cubic Global Defense, Inc. and Omega Training Group, Inc.	Valiant Integrated Services LLC	Aerospace and Defense	\$138.00
4/11/2018	Universal Avionics Systems Corporation	Elbit Systems Ltd.	Aerospace and Defense	\$120.00
11/26/2018	Firstmark Corporation	Ontic Engineering and Manufacturing, Inc.	Aerospace and Defense	\$97.00
7/13/2018	SKANDIA, Inc.	TransDigm Group Incorporated	Aerospace and Defense	\$84.00
7/2/2018	Applied Defense Solutions, Inc.	L3 Technologies, Inc.	Aerospace and Defense	\$50.00
7/31/2018	Aitech Defense Systems, Inc.	First Israel Mezzanine Investors Ltd.	Aerospace and Defense	\$30.00
10/1/2018	All Assets and Technical Data Rights of NavCom Defense	Extant Components Group Holdings, Inc.	Aerospace and Defense	\$27.00
7/2/2018	Beaver Aerospace & Defense, Inc.	Héroux-Devtek Inc.	Aerospace and Defense	\$23.50
11/29/2018	Avborne Accessory Group, Inc.	AerSale Inc.	Aerospace and Defense	\$21.50
7/5/2018	CAD Enterprises, Inc.	Hickok Incorporated	Aerospace and Defense	\$21.00
2/16/2018	Willard Marine, Inc.	Future Mobility Solutions Limited	Aerospace and Defense	\$6.85
12/21/2018	Air Rescue Systems Corp	Mammoth Energy Services, Inc.	Aerospace and Defense	\$2.70
11/30/2018	Substantially All Assets Of American Fuel Cell & Coated Fabrics	LB Advisors, LLC	Aerospace and Defense	\$1.62
12/3/2018	VT Aviation Services, Inc./Aviation Academy of America Inc.	Vaayu Aerospace, Inc.	Aerospace and Defense	\$1.50
12/19/2018	T Brennan Aircraft Cleaning, LLC/Performance Carpet and	Sharp Details, Inc.	Aerospace and Defense	NA
11/8/2018	Silver Wings Aerospace, Inc.	Wencor Group, LLC	Aerospace and Defense	NA
11/9/2018	WACO Aircraft Corporation	Dimor Group Inc.	Aerospace and Defense	NA
11/1/2018	McCallie Associates, Inc.	Alutiiq, LLC	Aerospace and Defense	NA
11/1/2018	Domain X Technologies, LLC	Analytic Services Inc.	Aerospace and Defense	NA
10/26/2018	Superior Technical Ceramics Corp.	Artemis Capital Partners	Aerospace and Defense	NA
10/19/2018	Ideal Aviation Illinois LLC	Jet Aviation AG	Aerospace and Defense	NA
10/17/2018	AMTEC Less-Lethal Systems, Inc.	PACEM Defense LLC	Aerospace and Defense	NA
10/17/2018	Operating Business and Assets of Votaw Precision Technologies,	Doerfer Corporation	Aerospace and Defense	NA
10/16/2018	Assets of S3 Aero Specialists	Jet Support Services, Inc.	Aerospace and Defense	NA
10/11/2018	CORTEK, Inc.	DecisionPoint Corporation	Aerospace and Defense	NA
10/10/2018	Assets of Panasonic Weather Solutions	FLYHT Aerospace Solutions Ltd.	Aerospace and Defense	NA
10/9/2018	The Atlas Group	F.M.I., Inc.	Aerospace and Defense	NA
10/1/2018	kSARIA Corporation	Behrman Capital	Aerospace and Defense	NA
9/27/2018	Federal Energy Infrastructure Solutions, LLC	Johnson Controls Federal Systems Inc.	Aerospace and Defense	NA
9/20/2018	TPGS, LLC	GAP Solutions Inc.	Aerospace and Defense	NA
9/13/2018	Gryphon Technologies LC	CDI Government Services, Inc.	Aerospace and Defense	NA
10/1/2018	Manufacturing line of Gulfstream G500 and G600 of The Nordam		Aerospace and Defense	NA
8/31/2018	Assets of BTL Machine, Inc.	Acromil Corporation	Aerospace and Defense	NA
8/30/2018	Optical Display Engineering	Inertial Airline Services, Inc.	Aerospace and Defense	NA
8/24/2018	Ausley Associates Inc.	MAG DS Corp.	Aerospace and Defense	NA
8/13/2018	Washington State Space Coalition	Aerospace Futures Alliance of Washington	Aerospace and Defense	NA
9/25/2018	Millennium Space Systems, Inc.	The Boeing Company	Aerospace and Defense	NA
3/31/2018	EPIR Technologies, Inc.	Leonardo DRS, Inc.	Aerospace and Defense	NA
8/9/2018	Applied Micro Design, Inc.	Patriot Technologies, Inc.	Aerospace and Defense	NA
8/22/2018	Macaulay-Brown, Inc.	Alion Science and Technology Corp.	Aerospace and Defense	NA NA
8/1/2018	Edge Space Systems, Inc.	Lentech, Inc.	Aerospace and Defense	NA NA
7/26/2018	Precision Aviation Group, Inc.	GenNx360 Capital Partners	Aerospace and Defense	NA NA
7/26/2018	Business & Assets of Spec Ops, Inc.	HDT Global, Inc.	Aerospace and Defense	NA NA
7/25/2018	Merchant Aviation LLC	Adp Ingenierie SA	Aerospace and Defense	NA NA
7/24/2018	Assets of Shield Aviation, Inc.	ISR Systems, Inc.	Aerospace and Defense	NA NA
7/9/2018 8/7/2018	Perfekta, Inc.	Cadence Aerospace, LLC	Aerospace and Defense	NA NA
0///2018	Selmet, Inc.	WP CPP Holdings, LLC	Aerospace and Defense	NA

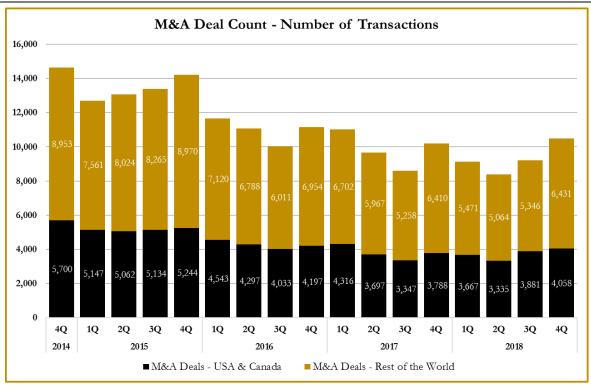
Source: Capital IQ

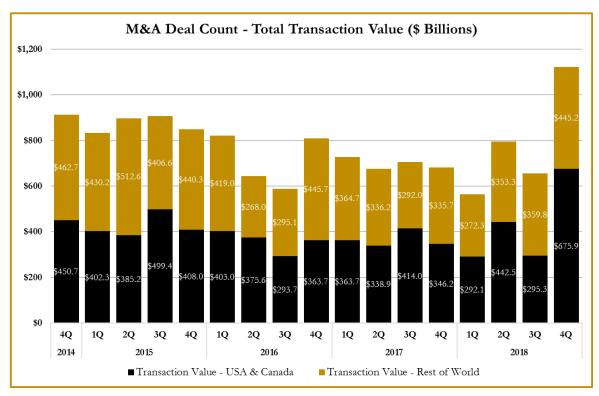
S&P Capital IQ - Sector Last 3 Month Equity Performance As of December 31, 2018



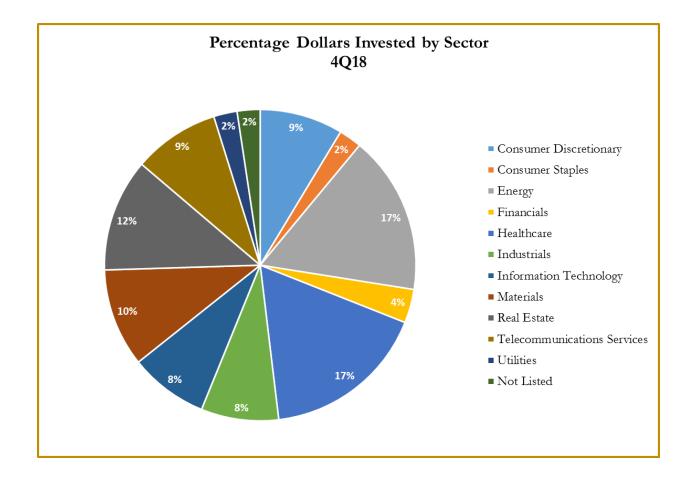
Note: The indices are derived from the equity performance of the S&P Capital IQ Sectors. Source: Capital IQ

M&A Deal Flow Statistics by S&P Capital IQ Sector As of December 31, 2018





M&A Deal Flow Statistics by S&P Capital IQ Sector As of December 31, 2018





About Us

Houlihan Capital is a leading, solutions-driven valuation, financial advisory and boutique investment banking firm. We pride ourselves on being thought leaders in an ever-changing landscape.

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We provide an array of services that include enterprise valuations, portfolio valuation, valuation of carried interest, transaction opinions, tax and financial reporting compliance, purchase price allocations, and a wide variety of consulting services through our Financial Advisory Group.

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Through our Investment Banking Group, we offer sell side/buy side advisory and capital raises. Through our Special Situations desk, we provide services that fit outside the archetypal verticals, including liquidity solutions, transactional advisory, and secondary market advisory and trading.

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