

Cybersecurity Market Update

TECHNOLOGY

Houlihan Lokey + GCA | The Preeminent Global M&A Boutique

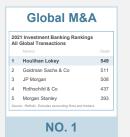
Houlihan Lokey completed the acquisition of GCA in December 2021 to create one of the world's leading advisory firms.

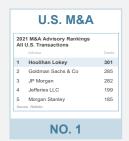


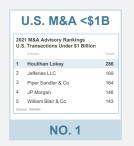


Based on 2021 announced transaction volume, the combination of Houlihan Lokey and GCA will create the No. 1 Global Technology M&A Advisor, further our leadership in U.S. M&A, and make us a leading advisor across global, European, and Asian M&A.













	Houlihan Lokey	GCA
Founded	1972	2004
Market Capitalization	\$7.2B	\$428M
Annual Revenues	\$1.5B	\$356M
Employees	~1,600	~500
Locations	23 Locations	23 Locations
Description	Global investment bank providing Corporate Finance, Financial Restructuring, and Financial and Valuation Advisory services with a leading position in the industrials space	A global technology-focused investment bank providing M&A advisory and capital markets advisory services

How Houlihan Lokey Can Help

Our firm is extremely well equipped to help our clients navigate critical milestones of the corporate lifecycle. We respond quickly to challenging situations and are constantly helping clients to analyze, structure, negotiate, and execute the best possible solutions from both a strategic and a financial perspective.

What We Offer



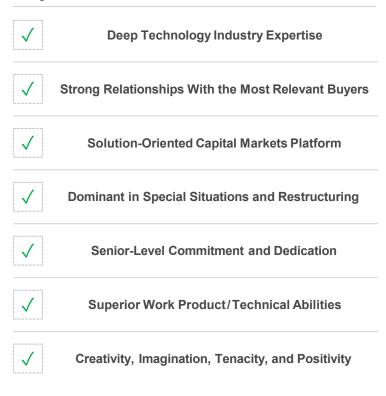
Mergers and Acquisitions

We are widely recognized as the leading M&A advisor to the mid-cap in general and the technology sector in particular. Our deep expertise across the sector, knowledge of the strategic landscape, and long-standing relationships with all relevant strategic and financial buyers make us the M&A advisor of choice for strategic transactions in the digital media industry.

Equity Financing

We have a market-leading private capital markets platform focused on the placement of solution-oriented capital for a wide range of financing needs. We have differentiated investor relationships and access to the key decision-makers, allowing us to run a bespoke, high-touch, confidential, and efficient process.

Why We're Different



Dedicated Team Focused on All Aspects of Cyber...

100+ Years and \$350+ Billion of Combined Technology Industry Knowledge and Transaction Experience



Bobby Wolfe Director, Miami



Saif Malik Director, New York



Walid Khiari Managing Director, San Francisco

U.S. Team



Josh Wepman Managing Director, New York



Rob Louv Co-Head U.S. Technology, San Francisco



Mark Smith Director, Manchester



Malte Abrams
Director,
Frankfurt

European Team

Core Coverage Verticals

Core Coverage verticals		
Cloud Security	Cyber Consulting, Services, and Training	Data Protection, Integrity, and Security
Endpoint Security	Encryption Security	Fraud and Risk Protection
Governance, Risk, and Compliance	Identity and Privileged Access Management	Incident Response
IoT Security	Log Management	Managed Detection Response
Managed Security Service Providers	Managed SOC	Messaging Security
Mobile Security	Network Operations and Security	Penetration Testing

Threat Intelligence

Web Security

...With Highly Relevant Experience















































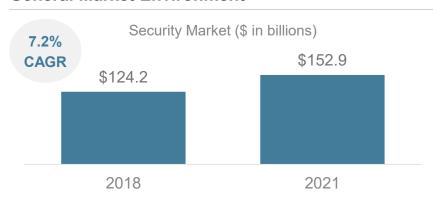




Strong Momentum in the Broader Security Sector

Momentum in the security market is expected to continue, driven by strong public markets and a growing volume of transactions.

General Market Environment



 Digital transformation is placing pressure to invest in security technology and, in particular, cloud security.

Public Market Environment

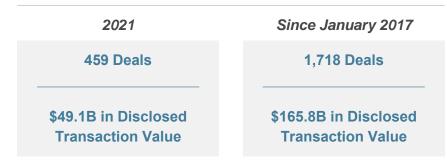
14.2x **TEV/NTM** Revenue for **High Growth Security Companies**

4.5x

TEV/NTM Revenue for **Low Growth Security** Companies

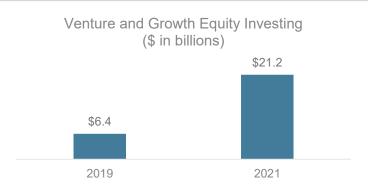
- Public markets continue to reward and prioritize topline growth.
- IPOs in 2021 in the security space included IronNet (August 2021) and Exclusive Networks (September 2021).

M&A Environment



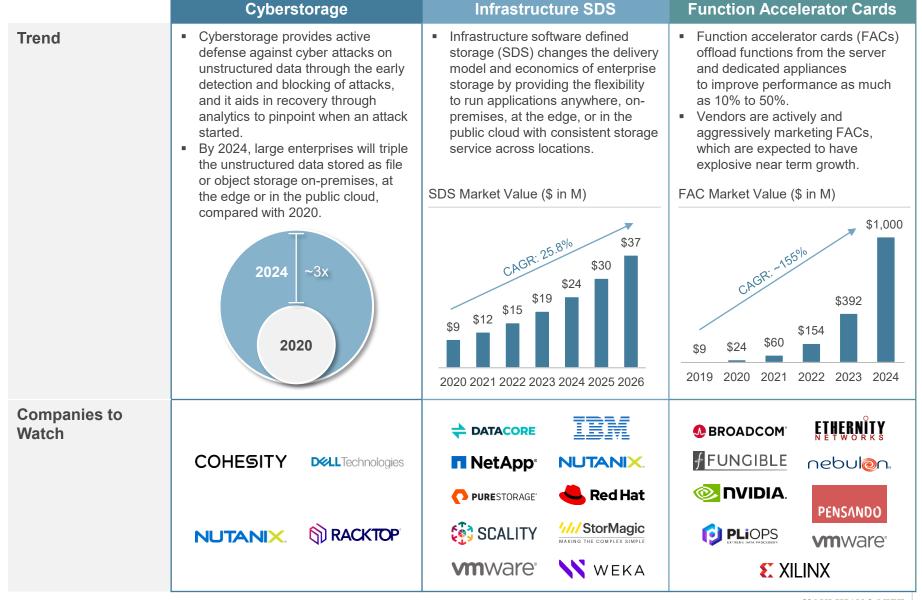
- Leading players continue to pay scarcity premiums for best-ofbreed solutions to fill out product suite and portfolio gaps.
- There is considerable private equity interest given FCF profiles.

Private Company Funding



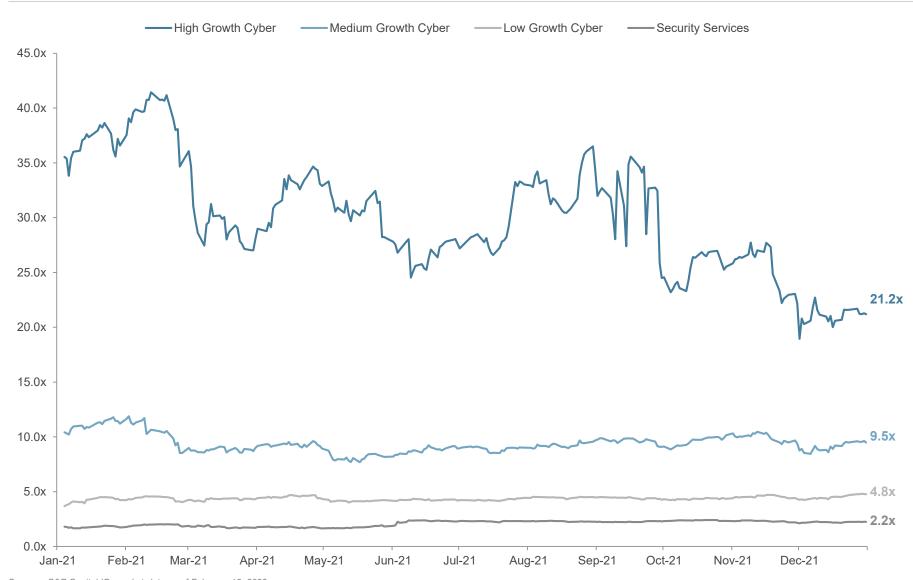
 Emerging segments such as vulnerability assessment, encryption, tokenization, and user and entity behavior analytics continue to attract venture capital funding.

Ransomware Driving Momentum in Data-Centric Tech



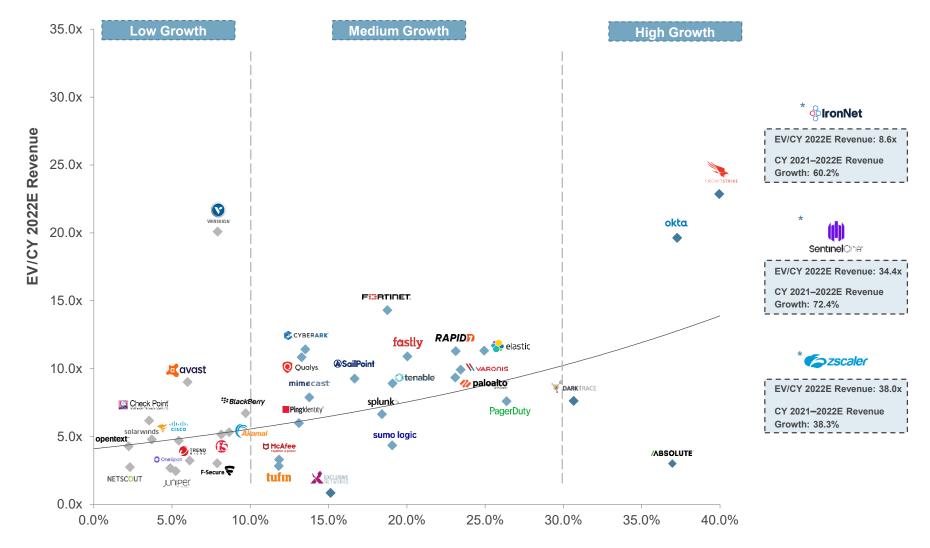
Select Public Multiples – Forward 12 Months

EV/NTM Revenue



Investors Still Pay Up for Growth

CY 2021E-2022E Revenue Growth Rate vs. EV/CY 2022E Revenue



Sources: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of December 31, 2021. All financials calendarized to a December year end.

^{*} Indicates companies are outliers and should not be viewed using the current chart scale.

Strategic M&A Remains an Exciting Exit for Cyber Companies

Cyber Strategic M&A Summary (2017–2021)

(\$ in billions)



Key Takeaways

- Strategic acquisitions continue to be the favored exit for security software companies over the past few years, with a dip in 2020 deal value driven by uncertainty caused by COVID-19.
- Strategic activity accelerated in 2H 2021, with 44 total M&A transactions for an aggregate disclosed deal value of \$13.7 billion completed by strategic parties.
- Large and mega cap corporations are seeking to strengthen and expand their offerings as cyber threats continue to grow in complexity.

Notable Transactions

Date	Acquirer	Target	Subsector	EV \$M	EV/ Rev
12/08/2021	CLAROTY	28 MEDIGATE	Premises Network Security	\$400	NA
11/18/2021	GBG	acuant	Premises Network Security	\$736	NA
11/8/2021	opentext [*]	zix	Email Encryption SaaS	\$860	3.5x
10/27/2021	SUSE	NeuVector	CloudTech and DevOps	\$131	NA
10/21/2021	(Akamai	Guardicore	Network Management Software	\$630	NA
09/27/2021	PingIdentity.	SingularKey	Identity Management Software	NA	NA
09/13/2021	Otenable	accurics	Network Security	\$160	~32x
09/13/2021	Kape	ExpressVPN	SSL VPNs	\$936	NA
08/30/2021	Check Point	AVÂNAN	Anti-Malware	NA	NA
08/19/2021	accenture	NOVETTA	IT Consulting and Outsourcing	\$1,000	NA
08/10/2021	 ▼ NortonLife Lack	<u>t</u> avast	Anti-Virus Software	\$8,100	9.3x
08/9/2021	Qualys.	totalcloud	Network Security	NA	NA
07/19/2021	RAPIDI	SINTSIGHTS	Threat Intelligence	\$335	~12–15
07/13/2021	Outpost24	Blueliv.	Managed Enterprise Security Software	NA	NA
07/12/2021	Microsoft	Q RISKIQ	Identity Management	\$650	~10x
06/21/2021	knowit	CYBERCOM ROUP	IT Consulting and Outsourcing	\$261	1.3x
05/11/2021	/ABSOLUTE	NETMOTION °	Mobile VPN Software	\$340	5.7x
03/10/2021	PayPal	curv	Security Orchestration	~\$200	NA
03/03/2021	okta	 auth0	Identity Management	\$6,500	43.3x

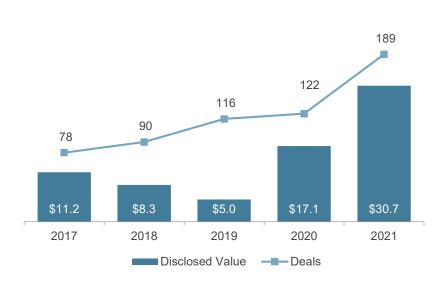
Significant Private Equity Interest for Cyber Transactions (M&A)

Notable Majority Transactions

Date	Acquirer	Target	Subsector	EV \$M	EV/ Rev
11/16/2021	Audax Group TEAM CYMRU	///\mplicy	Surface Attack and Threat Management	NA	NA
10/04/2021	Quest	ONE IDENTITY	Identity Management Software	\$460	~7x
09/16/2021	SVERICA CYTRACOM	OMNINET"	Unified Threat Management	NA	NA
09/12/2021	PROVIDENCE EQUITY ARDIAN	MARLINK	Network Security	~\$1,400	NA
08/31/2021	THOMABRAVO	proofpoint.	Enterprise Security Software	\$12,300	~10x
08/17/2021	PERISCOPE EQUITY	GyberMaxx.	Threat Intelligence	NA	NA
08/04/2021	Audax	TEAM CYMRU	Data Provider	NA	NA
07/21/2021	Audax Group	FLASHPOINT	Threat Intelligence	\$325	8.1x
06/29/2021	LIVINGBRIDGE	semafone	Compliance Software	NA	NA
06/24/2021	eurazeo	I-TRACING CYBERSECURITY EXPERT	IT Security Services	\$103	3.5x
06/01/2021	CVC CAPITAL PARTNERS	512.	Consulting Services	\$875	2.4x

Private Equity M&A Summary (2017–2021)

(\$ in billions)



Key Takeaways

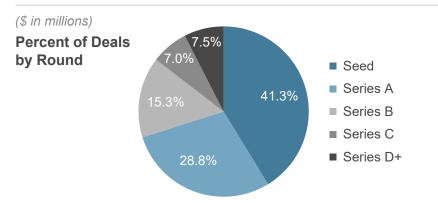
- PE activity in the security software space has been robust, with a banner 2021 in terms of disclosed deal value.
- M&A in the cybersecurity space has been robust in 2021 in terms of both disclosed deal value and deal volume.
- Firms are looking to capitalize on the shift toward non-legacy security driven by more advanced threats, expanded attack vectors, and increased network complexity.

Cyber Is Drawing Growth Equity, As Well

Security Private Funding Summary (2017–2021)



Private Funding Volume by Round (2017–2021)



Deal Valuation by Round	Seed / Angel	Series A	Series B	Series C	Series D	_
Median Post-Money Valuation	\$9	\$34	\$102	\$200	\$1,044	

Notable Minority Transactions

Deal Date	Lead Investor	Target	Subsector	Transaction Value (\$M)
12/15/2021	Lightspeed Georgian	n noname	Network Management Software	\$135
12/01/2021	SEQUOIA 🖺	▲ Fireblocks	Blockchain Security Software	\$400
09/20/2021	THOMABRAVO	LINTEL 471	Threat Intelligence	NA
09/20/2021	HPS	SAVIYNT	Network Management Software	\$130
08/31/2021	B Capital Group ALKEON CAPITAL MANAGEMENT	Own {backup}	Productivity Software	\$240
08/18/2021	SoftBank Group	unico	Enterprise Security Software	\$121
08/02/2021	Triangle Peak	NOZOMI NETWORKS	Enterprise Security Software	\$100
06/24/2021	COATUE	& Chainalysis	Blockchain Data Mgmt. Software	\$100
06/24/2021	THOMABRAVO	🔀 illumio	Zero Trust Software	\$225
06/23/2021	OWL ROCK CAPITAL CORPORATION	// exabeam	Security Info and Event Management	\$200
06/22/2021	SIGIT GENERAL ATLANTIC	Transmit	Authentication Software	\$543
06/21/2021	Accel TIGERGLOBAL	snyk	DevSecOps Software	\$205
06/9/2021	WARBURG PINCUS	ĀURΛ	B2C Identity Mgmt. Software	\$150

Cyber Services Attracting Investment and Consolidation

Industry Trends

- The managed security services market has expanded to encompass a vast portfolio of security and risk management software-enabled services.
- Growth in the managed security services market continues to be driven by a staffing and skill shortage, a continuously evolving threat landscape, and an increasing compliance burden at the federal, state, and municipal levels.
- The evolving threat landscape has prompted clients of all sizes to demand a more focused set of managed services that can help identify, investigate, and respond to their unique security threats.
- Both cybersecurity strategics and sponsor-led platforms have prioritized their inorganic growth strategy to keep up with the rapidly changing and distinct priorities of MSSP customers.

Notable Financings

Deal Date	Target	Lead Investor	Round	Inv. Size (\$M)
11/18/2021	e⊠peľ	CapitalG	Series E	\$140
11/09/2021	∷ SafeBreach	IGP	Series D	\$54
10/29/2021	Silver Sky	/TOCHU	Corporate Investment	\$32
08/17/2021	CyberMaxx.	PERISCOPE EQUITY	Private Equity	NA
07/12/2021	NEOSECURE SANETHOS DE SECURIDAD	PATRIA	Private Equity	NA
03/24/2021	Bridewell	gcp	Development Capital	\$25

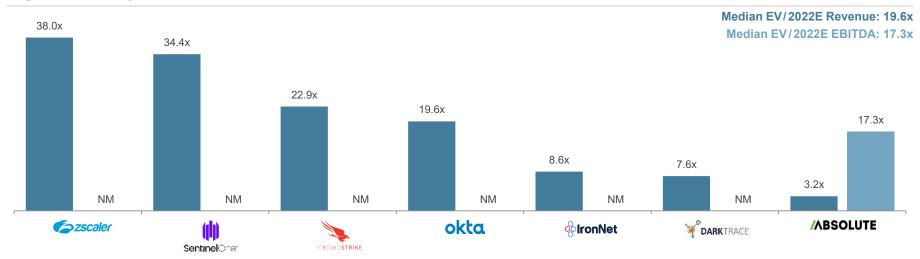
Notable Acquisitions

Deal Date	Acquirer	Target	EV \$M	EV/Rev
12/31/2021	wipro)	edgije	\$230	NA
12/22/2021	accenture	tambourine	NA	NA
12/01/2021	A NELTA	MARCH°	\$114	NA
09/29/2021	BlueVoyant	CONCANON-	NA	NA
08/25/2021	COMCAST BUSINESS	MASERGY	NA	NA
06/29/2021	accenture	sentor	NA	NA
06/15/2021	Deloitte.	TERBIUM LABS	NA	NA
06/15/2021	CERBERUS SENTINEL	GROUNDCONTROL	NA	NA
04/29/2021	accenture	©PEN MINDED	NA	NA
04/12/2021	† TESSERENT	©SECURELOGIC	NA	NA
03/31/2021	wipro	ampion	NA	NA
03/30/2021	cerdant Alaquaty Company	C Logically	NA	NA

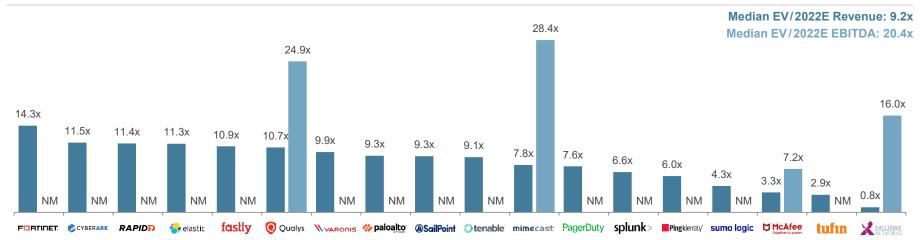
Public Company Benchmarking: EV/CY 2022E Revenue and EBITDA



High Growth Cyber (30%+ Revenue Growth)



Medium Growth Cyber (>10% and <30% Revenue Growth)

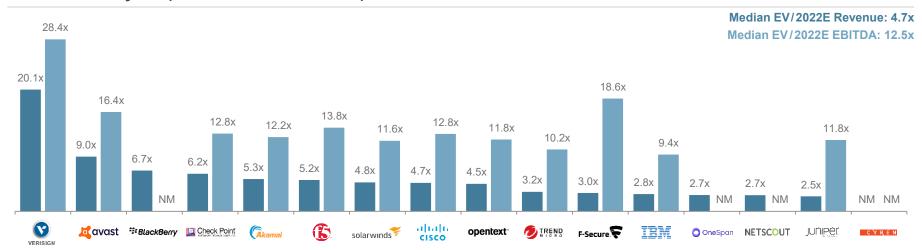


Public Company Benchmarking: EV/CY 2022E Revenue and EBITDA

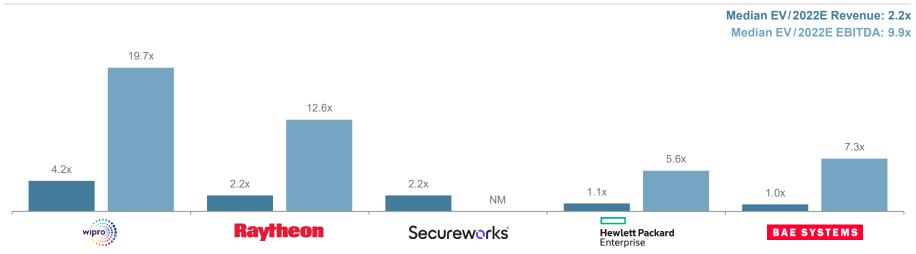
EV/2022E Revenue

EV/2022E EBITDA

Low Growth Cyber (<10% Revenue Growth)



Security Services

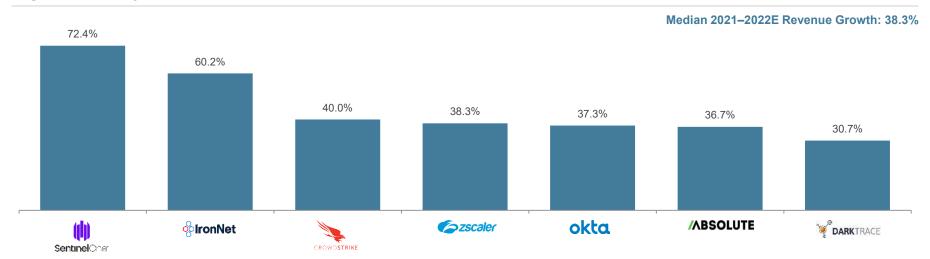


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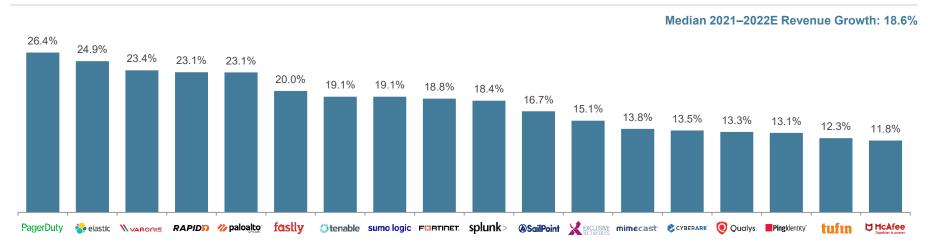
Sorted by EV/2022E Revenue.

Public Company Benchmarking: CY 2021–2022E Revenue Growth

High Growth Cyber (30%+ Revenue Growth)



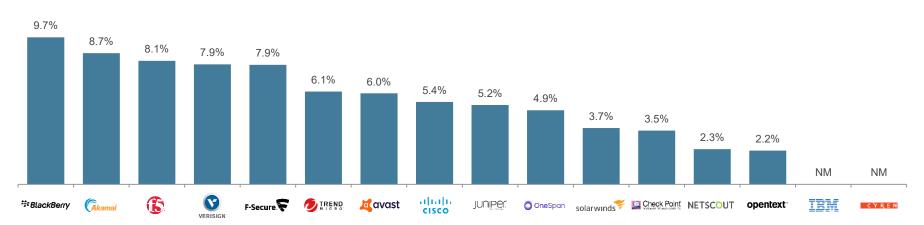
Medium Growth Cyber (>10% and <30% Revenue Growth)



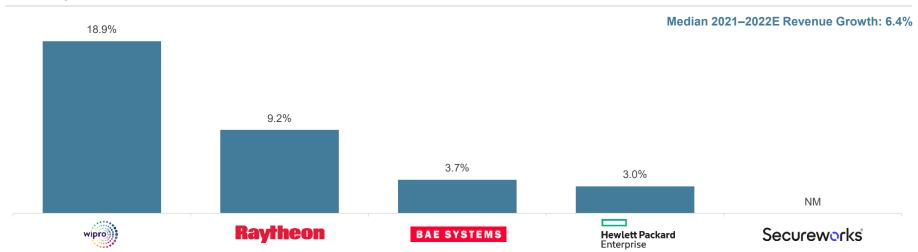
Public Company Benchmarking: CY 2021–2022E Revenue Growth

Low Growth Cyber (<10% Revenue Growth)

Median 2021-2022E Revenue Growth: 5.7%



Security Services



Source: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of December 31, 2021. All financials calendarized to a December year end.; NM indicates not meaningful or EV/EBITDA >50x.

Sorted by 2021–2022E Revenue Growth.

High Growth Cyber Trading Metrics

(\$ in millions)					i	EV / Revenue			EV / EBITDA	
Company	Stock Price	% of 52-wk High	Equity Mkt Cap	Enterprise Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E	CY 2022E	CY 2023E
Crow dStrike	\$204.75	68.6%	\$46,969	\$45,826	32.0x	22.9x	17.2x	NM	NM	NM
Zscaler	321.33	85.4%	45,012	44,406	NM	38.0x	29.0x	NM	NM	NM
Okta	224.17	76.2%	34,868	34,403	26.9x	19.6x	14.6x	NM	NM	NM
SentinelOne	50.49	64.3%	13,476	11,841	NM	34.4x	20.8x	NM	NM	NM
Darktrace	5.69	41.9%	3,657	3,344	10.0x	7.6x	5.6x	NM	NM	NM
Absolute Softw are	9.37	47.4%	472	685	4.4x	3.2x	2.8x	18.0x	17.3x	13.5x
IronNet	4.20	8.8%	231	361	13.8x	8.6x	4.4x	NM	NM	NM
	Top Quartile		\$39,940	\$39,405	26.9x	28.6x	19.0x	18.0x	17.3x	13.5x
	Mean		20,669	20,124	17.4	19.2	13.5	18.0	17.3	13.5
	Median		13,476	11,841	13.8	19.6	14.6	18.0	17.3	13.5
	1st Quartile		2,065	2,015	10.0	8.1	5.0	18.0	17.3	13.5

Medium Growth Cyber Trading Metrics

(\$ in millions)					E	EV / Revenue			EV / EBITDA	
Company	Stock Price	% of 52-wk High	Equity Mkt Cap	Enterprise Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E	CY 2022E	CY 2023E
Company			· · · · ·			-				
Fortinet	\$359.40	96.7%	\$58,779	\$56,712	17.0x	14.3x	12.1x	NM	NM	NM
Palo Alto Networks	556.76	97.2%	54,934	55,444	11.5x	9.3x	7.7x	NM	NM	NM
Splunk	115.72	64.9%	18,375	20,068	7.9x	6.6x	5.5x	NM	NM	NM
⊟astic	123.09	64.8%	11,400	11,113	14.1x	11.3x	8.9x	NM	NM	NM
Rapid 7	117.69	81.2%	6,679	7,417	14.0x	11.4x	9.4x	NM	NM	NM
McAfee	25.79	78.6%	10,547	6,919	3.7x	3.3x	3.0x	8.2x	7.2x	6.0x
CyberArk	173.28	85.9%	6,928	6,483	13.1x	11.5x	9.6x	NM	NM	NM
Tenable	55.07	94.2%	5,999	5,827	10.9x	9.1x	7.6x	NM	NM	NM
Mimecast	79.57	93.1%	5,325	5,095	8.9x	7.8x	7.1x	NM	28.4x	24.7x
Qualys	137.22	92.2%	5,337	4,971	12.1x	10.7x	9.5x	26.2x	24.9x	22.3x
Varonis	48.78	64.8%	5,245	4,730	12.3x	9.9x	8.1x	NM	NM	NM
Fastly	35.45	28.9%	4,165	4,572	13.1x	10.9x	9.4x	NM	NM	NM
SailPoint	48.34	75.3%	4,508	4,506	10.8x	9.3x	7.7x	NM	NM	NM
PagerDuty	34.75	59.5%	2,988	2,751	9.6x	7.6x	6.2x	NM	NM	NM
Exclusive Networks	21.45	88.5%	2,559	2,667	1.0x	0.8x	0.8x	17.9x	16.0x	14.2x
Ping Identity	22.88	61.5%	1,912	1,999	6.8x	6.0x	5.1x	NM	NM	NM
Sumo Logic	13.56	29.2%	1,519	1,238	5.2x	4.3x	3.7x	NM	NM	NM
Tufin	10.55	52.5%	399	357	3.3x	2.9x	2.7x	NM	NM	NM
	Top Quartile		\$9,642	\$7,292	12.9x	10.9x	9.3x	22.1x	25.8x	22.9x
	Mean		11,533	11,270	9.7	8.2	6.9	17.4	19.1	16.8
	Median		5,331	5,033	10.8	9.2	7.7	17.9	20.4	18.2
	1st Quartile		3.282	3,190	7.0	6.2	5.2	13.0	13.8	12.1

Low Growth Cyber Trading Metrics

(\$ in millions)					i	EV / Revenue			EV / EBITDA	
		% of 52-wk	Equity	Enterprise						
Company	Stock Price	High	Mkt Cap	Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E	CY 2022E	CY 2023E
Cisco	\$63.37	98.6%	\$267,270	\$254,607	4.9x	4.7x	4.5x	13.3x	12.8x	12.3x
IBM	133.66	87.5%	120,148	167,756	2.4x	2.8x	2.6x	9.2x	9.4x	8.5x
VeriSign	253.82	98.8%	28,052	28,774	21.7x	20.1x	18.2x	NM	28.4x	25.1x
Akamai	117.04	93.7%	19,017	19,945	5.8x	5.3x	4.9x	12.9x	12.2x	11.2x
OpenText	47.48	85.9%	12,807	15,875	4.6x	4.5x	NM	12.5x	11.8x	NM
F5	244.71	98.3%	14,863	14,823	5.6x	5.2x	4.8x	15.7x	13.8x	12.3x
Check Point	116.56	84.8%	15,188	13,812	6.4x	6.2x	6.0x	13.0x	12.8x	12.8x
Juniper	35.71	99.4%	11,499	12,203	2.6x	2.5x	2.4x	12.6x	11.8x	11.4x
Avast	8.22	98.0%	8,463	9,050	9.6x	9.0x	8.4x	17.4x	16.4x	15.4x
Trend Micro	55.50	92.5%	7,756	5,589	3.4x	3.2x	3.0x	10.2x	10.2x	9.7x
BlackBerry	9.34	32.8%	5,358	5,420	7.4x	6.7x	6.9x	NM	NM	NM
SolarWinds	14.19	38.0%	2,257	3,542	5.0x	4.8x	4.6x	11.8x	11.6x	10.9x
NetScout	33.08	94.9%	2,442	2,307	2.7x	2.7x	2.6x	NM	NM	NM
F-Secure	5.65	89.8%	894	879	3.3x	3.0x	2.8x	21.7x	18.6x	15.9x
OneSpan	16.93	58.0%	676	591	2.8x	2.7x	2.5x	NM	NM	NM
Cyren	5.84	18.3%	26	37	NM	NM	NM	NM	NM	NM
	Top Quartile		\$16,145	\$16,893	6.1x	5.8x	5.7x	14.5x	14.4x	14.1x
	Mean		32,295	34,701	5.9	5.6	5.3	13.7	14.1	13.2
	Median		9,981	10,627	4.9	4.7	4.5	12.9	12.5	12.3
	1st Quartile		2,396	3,234	3.0	2.9	2.6	12.1	11.7	11.0

Security Services Trading Metrics

(\$ in millions)						EV / Revenue			EV / EBITDA	
Company	Stock Price	% of 52-wk High	Equity Mkt Cap	Enterprise Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E	CY 2022E	CY 2023E
Raytheon	\$86.06	93.2%	\$129,441	\$154,740	2.4x	2.2x	2.0x	14.9x	12.6x	11.0x
Wipro	9.60	96.7%	52,470	49,965	5.0x	4.2x	3.8x	22.4x	19.7x	18.1x
HPE	15.77	94.2%	20,444	31,863	1.1x	1.1x	1.1x	6.0x	5.6x	5.4x
BAE Systems	7.44	91.4%	24,114	28,822	1.0x	1.0x	0.9x	7.7x	7.3x	6.9x
SecureWorks	15.97	59.4%	1,345	1,164	2.2x	2.2x	2.1x	NM	NM	NM
	Top Quartile		\$52,470	\$49,965	2.4x	2.2x	2.1x	16.7x	14.4x	12.8x
	Mean		45,563	53,311	2.3	2.1	2.0	12.7	11.3	10.4
	Median		24,114	31,863	2.2	2.2	2.0	11.3	9.9	9.0
	1st Quartile		20,444	28,822	1.1	1.1	1.1	7.3	6.8	6.5

High Growth Cyber Operating Metrics

(\$ in millions)				Revenue			EBITDA			Reve	EBITDA Margin				
Company	Stock Price	Equity Mkt Cap	Enterprise Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E C	Y 2022E C	Y 2023E	2020-2021E 20	21-2022E 20	022-2023E	CY 2021E	CY 2022E	CY 2023E
Crow dStrike	\$204.75	\$46,969	\$45,826	\$1,432	\$2,004	\$2,660	\$237	\$334	\$501	63.8%	40.0%	32.7%	16.6%	16.6%	18.8%
Zscaler	321.33	45,012	44,406	845	1,169	1,529	122	166	256	57.7%	38.3%	30.8%	14.4%	14.2%	16.7%
Okta	224.17	34,868	34,403	1,277	1,753	2,351	(38)	(27)	110	52.9%	37.3%	34.1%	NM	NM	4.7%
SentinelOne	50.49	13,476	11,841	200	345	570	(163)	(163)	(52)	114.8%	72.4%	65.5%	NM	NM	NM
Darktrace	5.69	3,657	3,344	336	439	594	17	14	34	43.2%	30.7%	35.3%	5.1%	3.1%	5.8%
Absolute Software	9.37	472	685	156	214	248	38	39	51	40.2%	36.7%	15.9%	24.3%	18.5%	20.5%
IronNet	4.20	231	361	26	42	82	(69)	(75)	NA	NM	60.2%	96.1%	NM	NM	NM
	Top Quartile	\$39,940	\$39,405	\$1,061	\$1,461	\$1,940	\$80	\$103	\$219	62.3%	50.1%	50.4%	18.5%	17.1%	18.8%
	Mean	20,669	20,124	610	852	1,148	21	41	150	62.1%	45.1%	44.4%	15.1%	13.1%	13.3%
	Median	13,476	11,841	336	439	594	17	14	80	55.3%	38.3%	34.1%	15.5%	15.4%	16.7%
	1st Quartile	2,065	2,015	178	279	409	(54)	(51)	38	45.6%	37.0%	31.8%	12.1%	11.4%	5.8%

Medium Growth Cyber Operating Metrics

(\$ in millions)				Revenue CY 2021E CY 2022E CY 2023E			EBITDA CY 2021E CY 2022E CY 2023E			Reve	EBITDA Margin				
Company	Stock Price	Equity Mkt Cap	Enterprise Value							2020-2021E 20	CY 2021E CY 2022E CY 2023E				
Fortinet	\$359.40	\$58,779	\$56,712	\$3,339	\$3,966	\$4,669	\$947	\$1,101	\$1,337	28.7%	18.8%	17.7%	28.3%	27.8%	28.6%
Palo Alto Networks	556.76	54,934	55,444	4,822	5,936	7,166	1,123	1,359	1,570	27.5%	23.1%	20.7%	23.3%	22.9%	21.9%
Splunk	115.72	18.375	20,068	2,550	3,020	3,680	(287)	(112)	254	14.4%	18.4%	21.9%	NM	NM	6.9%
⊟astic	123.09	11,400	11.113	786	982	1,249	6	6	76	41.7%	24.9%	27.2%	0.8%	0.6%	6.1%
Rapid 7	117.69	6,679	7,417	530	652	790	25	50	70	28.7%	23.1%	21.1%	4.8%	7.7%	8.9%
McAfee	25.79	10,547	6,919	1,874	2,096	2,316	849	963	1,144	20.3%	11.8%	10.5%	45.3%	46.0%	49.4%
CyberArk	173.28	6,928	6,483	496	563	675	31	4	40	6.8%	13.5%	19.8%	6.2%	0.6%	5.9%
Tenable	55.07	5,999	5,827	537	639	763	59	75	105	21.9%	19.1%	19.3%	11.0%	11.7%	13.8%
Mimecast	79.57	5,325	5,095	574	653	714	160	179	206	19.1%	13.8%	9.4%	27.9%	27.4%	28.8%
Qualys	137.22	5,337	4,971	410	464	522	189	200	223	12.9%	13.3%	12.5%	46.2%	43.0%	42.7%
Varonis	48.78	5,245	4,730	386	476	581	33	51	86	31.8%	23.4%	21.9%	8.4%	10.8%	14.9%
Fastly	35.45	4,165	4,572	349	419	486	(35)	(28)	(9)	20.1%	20.0%	15.9%	NM	NM	NM
SailPoint	48.34	4,508	4,506	417	487	588	9	1	30	14.2%	16.7%	20.8%	2.2%	0.3%	5.1%
PagerDuty	34.75	2,988	2,751	286	362	443	(16)	(2)	23	34.2%	26.4%	22.3%	NM	NM	5.2%
Exclusive Networks	21.45	2,559	2,667	2,763	3,181	3,554	149	167	188	19.4%	15.1%	11.7%	5.4%	5.3%	5.3%
Ping Identity	22.88	1,912	1,999	295	334	395	30	39	55	21.2%	13.1%	18.4%	10.1%	11.6%	13.9%
Sumo Logic	13.56	1,519	1,238	239	285	333	(44)	(48)	(40)	18.2%	19.1%	16.7%	NM	NM	NM
Tufin	10.55	399	357	109	123	133	(23)	(24)	NA	8.5%	12.3%	8.4%	NM	NM	NM
	Top Quartile	\$9,642	\$7,292	\$1,602	\$1,818	\$2,049	\$157	\$176	\$223	28.4%	22.3%	21.0%	27.9%	27.4%	25.3%
	Mean	11,533	11,270	1,154	1,369	1,614	178	221	315	21.6%	18.1%	17.6%	16.9%	16.6%	17.2%
	Median	5,331	5,033	513	601	695	30	45	86	20.2%	18.6%	18.9%	10.1%	11.6%	13.8%
	1st Quartile	3,282	3,190	358	431	495	(10)	(1)	40	15.3%	13.6%	13.4%	5.4%	5.3%	6.0%

Low Growth Cyber Operating Metrics

(\$ in millions)					Revenue			EBITDA		Revei	nue Growth		EBI.	TDA Margi	n
Company	Stock Price	Equity Mkt Cap	Enterprise Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E	CY 2022E	CY 2023E	2020-2021E 20	21-2022E 20)22-2023E	CY 2021E	CY 2022E	CY 2023E
Cisco	\$63.37	\$267,270	\$254,607	\$51,483	\$54,279	\$57,038	\$19,111	\$19,943	\$20,646	7.2%	5.4%	5.1%	37.1%	36.7%	36.2%
IBM	133.66	120,148	167,756	70,658	59,148	65,233	18,219	17,917	19,747	NM	NM	10.3%	25.8%	30.3%	30.3%
VeriSign	253.82	28,052	28,774	1,328	1,433	1,578	933	1,014	1,146	5.0%	7.9%	10.1%	70.3%	70.8%	72.6%
Akamai	117.04	19,017	19,945	3,456	3,755	4,063	1,550	1,629	1,778	8.1%	8.7%	8.2%	44.9%	43.4%	43.8%
OpenText	47.48	12,807	15,875	3,431	3,507	NA	1,274	1,340	NA	3.9%	2.2%	NM	37.1%	38.2%	NM
F5	244.71	14,863	14,823	2,656	2,872	3,110	946	1,074	1,204	10.4%	8.1%	8.3%	35.6%	37.4%	38.7%
Check Point	116.56	15,188	13,812	2,154	2,230	2,301	1,061	1,077	1,077	4.3%	3.5%	3.2%	49.3%	48.3%	46.8%
Juniper	35.71	11,499	12,203	4,704	4,950	5,139	969	1,038	1,069	5.8%	5.2%	3.8%	20.6%	21.0%	20.8%
Avast	8.22	8,463	9,050	947	1,004	1,072	521	553	587	6.1%	6.0%	6.8%	55.0%	55.0%	54.8%
Trend Micro	55.50	7,756	5,589	1,634	1,734	1,833	548	548	574	NM	6.1%	5.7%	33.6%	31.6%	31.3%
BlackBerry	9.34	5,358	5,420	736	807	785	(4)	(36)	(83)	NM	9.7%	NM	NM	NM	NM
SolarWinds	14.19	2,257	3,542	715	741	775	300	305	326	NM	3.7%	4.5%	42.0%	41.1%	42.1%
NetScout	33.08	2,442	2,307	849	869	900	NA	NA	NA	0.2%	2.3%	3.6%	NM	NM	NM
F-Secure	5.65	894	879	269	290	311	41	47	55	NM	7.9%	7.1%	15.1%	16.3%	17.8%
OneSpan	16.93	676	591	211	221	237	(7)	(2)	1	NM	4.9%	7.0%	NM	NM	0.2%
Cyren	5.84	26	37	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
	Top Quartile	\$16,145	\$16,893	\$3,443	\$3,631	\$3,824	\$1,221	\$1,274	\$1,204	7.2%	7.9%	8.2%	46.0%	44.6%	44.5%
	Mean	32,295	34,701	9,682	9,189	10,313	3,247	3,318	3,702	5.7%	5.8%	6.4%	38.9%	39.2%	36.3%
	Median	9,981	10,627	1,634	1,734	1,706	939	1,026	1,069	5.8%	5.7%	6.8%	37.1%	37.8%	37.5%
	1st Quartile	2,396	3,234	792	838	814	355	366	326	4.3%	4.0%	4.5%	31.6%	31.3%	27.9%

Security Services Operating Metrics

(\$ in millions)				Revenue			EBITDA			Reve	EBITDA Margin				
Company	Stock Price	Equity Mkt Cap	Enterprise Value	CY 2021E	CY 2022E	CY 2023E	CY 2021E	CY 2022E	CY 2023E	2020-2021E 20	21-2022E 20)22-2023E	CY 2021E	CY 2022E	CY 2023E
Raytheon	\$86.06	\$129,441	\$154,740	\$64,667	\$70,603	\$75,702	\$10,412	\$12,275	\$14,061	14.3%	9.2%	7.2%	16.1%	17.4%	18.6%
Wipro	9.60	52,470	49,965	10,001	11,895	13,209	2,229	2,531	2,758	18.9%	18.9%	11.1%	22.3%	21.3%	20.9%
HPE	15.77	20,444	31,863	27,986	28,820	29,805	5,320	5,698	5,919	4.2%	3.0%	3.4%	19.0%	19.8%	19.9%
BAE Systems	7.44	24,114	28,822	29,031	30,105	31,069	3,734	3,973	4,165	10.3%	3.7%	3.2%	12.9%	13.2%	13.4%
SecureWorks	15.97	1,345	1,164	537	532	560	10	(3)	(1)	NM	NM	5.2%	1.9%	NM	NM
	Top Quartile	\$52,470	\$49,965	\$29,031	\$30,105	\$31,069	\$5,320	\$5,698	\$5,919	15.4%	11.6%	7.2%	19.0%	20.1%	20.1%
	Mean	45,563	53,311	26,444	28,391	30,069	4,341	4,895	5,380	11.9%	8.7%	6.0%	14.4%	17.9%	18.2%
	Median	24,114	31,863	27,986	28,820	29,805	3,734	3,973	4,165	12.3%	6.4%	5.2%	16.1%	18.6%	19.2%
	1st Quartile	20,444	28,822	10,001	11,895	13,209	2,229	2,531	2,758	8.8%	3.5%	3.4%	12.9%	16.3%	17.3%

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