

# **Quarterly Enterprise Software Market Review**

Q4 2022

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### **About Our Firm**

1

Firm focused exclusively on enterprise software

2

Offices in Boston and San Francisco

35+

Professionals focused on the

software industry

\$45Bn+

Aggregate advised deal value

20+

Average years of experience amongst our senior bankers

135+
Transactions completed representing billions of dollars

in value

### Mergers & Acquisitions, Private Placements & Capital Raising

Shea & Company has advised on important transactions representing billions of dollars in value across the strategic acquirer and financial investor landscape with clients in the U.S. as well as Canada, Europe, Israel and Australia.



has been acquired by



Shea & Company served as the exclusive financial advisor to Rave Mobile Safety

MBS Highway.

has acquired



Shea & Company served as the exclusive financial advisor to MBS Highway





Shea & Company served as the exclusive financial advisor to iWave



has acquired



Shea & Company served as the exclusive financial advisor to Granicus



has agreed to acquire



Shea & Company served as the exclusive financial advisor to OpenGov



has been acquired by



Shea & Company served as financial advisor to Castellan



has received a strategic investment



Shea & Company served as the exclusive financial advisor to Gearset



has been acquired by



Shea & Company served as the exclusive financial advisor to Optimere



has made a strategic investment in



Shea & Company served as the exclusive financial advisor to Sumeru Equity Partners



has received a majority investment



Shea & Company served as the exclusive financial advisor to BlueConic





Shea & Company served as the exclusive financial advisor to Angus Systems



has made a majority investment in



Shea & Company served as the exclusive financial advisor to CVC Growth Funds



has received an equity investment



Shea & Company served as the exclusive financial advisor to Tango



has made an investment in



Shea & Company served as the exclusive financial advisor to Hg



has been acquired by



Shea & Company served as the exclusive financial advisor to T2 Systems



has been acquired by



Shea & Company served as financial advisor to Lexipol



has been acquired by



Shea & Company served as the exclusive financial advisor to Envisage



has been acquired by



Shea & Company served as the exclusive



has made an investment in



Shea & Company served as the exclusive financial advisor to TPG



has been acquired by



Shea & Company served as the exclusive financial advisor to Emergency Reporting



has received a minority investment from



Shea & Company served as the exclusive



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# Agenda

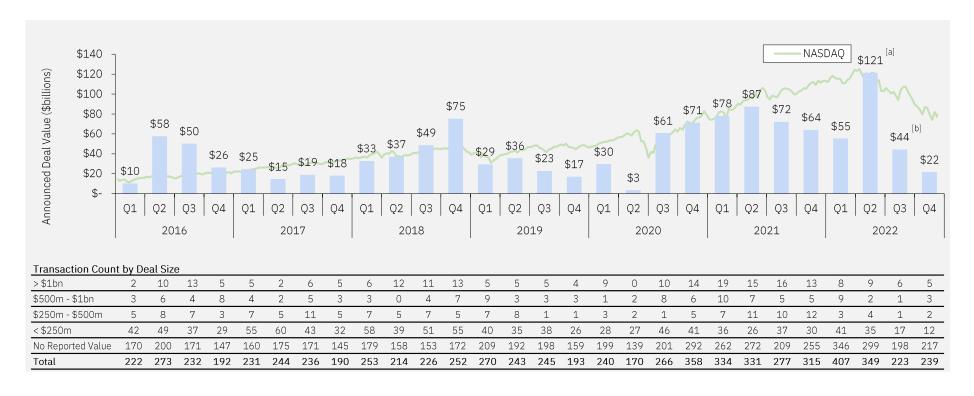
### → M&A Activity

Public Equity Market Valuations

Equity Financing Activity



### **Software M&A Summary: 2016 – 2022**



Notable Transaction	ns: Q4 2022 (\$ m	illions)								
Acquirer	THOMABRAVO	*	KI	THOMABRAVO SUNSTONE PARTNERS	VOVA FINANCIAL	Cinven	THOMSON REUTERS	ptc	<b>©:Trimble</b> .	THOMABRAVO
Target	ForgeRock	KnowBe4 Human error. Conquered.	ELMO	User Testing	Benefitfocus	<b>Ta</b> ×Act	<b>⊗ Sure</b> Prep°	SERVICEMAX	TRANSPOREON	蕊coupa
Date	10/11/22	10/12/22	10/26/22	10/27/22	11/01/22	11/01/22	11/11/22	11/17/22	12/12/22	12/12/22
Enterprise Value	\$2,252	\$4,299	\$338	\$991	\$588	\$720	\$500	\$1,458	\$1,981	\$8,000
EV / LTM Rev	11.2x	13.8x	5.4x	5.3x	2.4x	n/a	n/a	n/a	n/a	9.8x
EV / LTM EBITDA	nm	nm	nm	nm	nm	n/a	n/a	n/a	n/a	nm

Sources: Company releases, Wall Street research

Note: EV / Revenue multiples in excess of 30x and EV / EBITDA multiples in excess of 50x or less than 0x are not considered to be meaningful

[a]: Broadcom's ~\$69Bn acquisition of VMware represents ~57% of Q2 2022 announced deal value [b]: Adobe's ~\$19Bn acquisition of Figma represents ~45% of Q3 2022 announced deal value

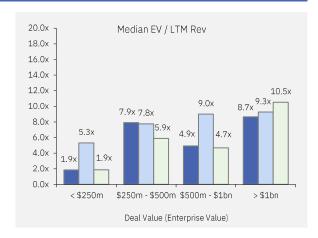


### **Software Acquisitions: 3-Year Trend Analysis**

#### By Transaction Size (2020 – 2022)

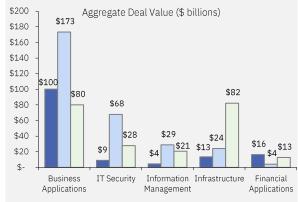


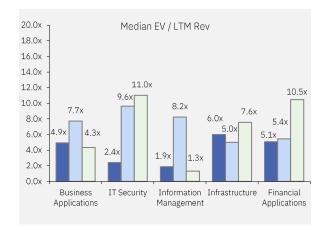




### By Target Segment (2020 - 2022)







#### Notes

Aggregate Deal Value only includes transactions for which data is publicly available

Business Applications includes: Advertising Technology; Communications; ERP & Business Applications; Human Capital Management; Marketing Applications; Real Estate Applications; Supply Chain Management; Technical & Embedded Applications

Information Management includes: Business Intelligence; Content Management

Infrastructure includes: Application Delivery & Network Acceleration; DevOps & Software Development Tools; IT Operations Management; Storage Management Sources: Company releases, Wall Street research



### M&A Activity

### Publicly Available Software M&A Transaction Data: Q4 2022

(\$ millions	5)													
Announced	Target	Acquirer(s)	_	eration % Stock	Equity Value	Enterprise Value		/ / Reven Current y		Revenue Growth %		/ / EBITD Current y		EBITDA Margin %
12/28/22	SalesDirector.ai	BTC Mobility	67%	33%	_	\$1	-	-	-	-	-	-	_	
12/22/22	A10 Group	NowVertical Group	90%	10%	-	\$6	-	-	-	=	-	-	-	-
12/16/22	FormSwift	Dropbox	100%	0%	-	\$95	-	-	-	=	-	-	-	-
12/12/22	Simpliconnect (assets)	Ackroo	84%	16%	-	\$2	-	-	-	-	-	-	-	-
12/12/22	Coupa	Thoma Bravo	100%	0%	\$6,168	\$8,000	9.8x	9.5x	8.1x	17%	nm	nm	nm	10%
12/12/22	Transporeon	Trimble	100%	0%	=	\$1,981	-	-	9.9x	-	-	-	-	-
12/09/22	CognitiveScale (assets)	Tecnotree	100%	0%	-	\$6	-	-	-	-	-	-	-	-
12/08/22	Hyros	Banzai International	-	-	-	\$110	-	-	-	-	-	-	-	-
12/01/22	Stericycle Communication Solutions	Carenet Health	100%	0%	=	\$45	-	-	-	-	-	-	-	-
11/30/22	Saab (assets)	Agilitas Private Equity	-	-	-	\$41	-	-	-	-	-	-	-	-
11/17/22	ServiceMax	PTC	100%	0%	-	\$1,458	-	-	-	-	-	-	-	-
11/17/22	Cider Security	Palo Alto Networks	100%	0%	-	\$195	-	-	-	-	-	-	-	-
11/11/22	SurePrep	Thompson Reuters	100%	0%	-	\$500	-	-	8.3x	-	-	-	-	-
11/01/22	TaxAct	Cinven	100%	0%	-	\$720	-	-	-	-	-	-	-	-
11/01/22	Integritie	enChoice	100%	0%	-	\$2	-	-	-	-	-	-	-	-
11/01/22	Benefitfocus	Voya Financial	100%	0%	-	\$588	2.4x	2.3x	2.3x	2%	nm	13.0x	13.2x	18%
10/27/22	UserTesting	Thoma Bravo, Sunstone Partners	100%	0%	\$1,139	\$991	5.3x	5.2x	4.3x	19%	nm	nm	nm	(20%)
10/26/22	Elmo Software	K1 Investment Management	100%	0%	\$311	\$338	5.4x	4.3x	2.6x	66%	nm	23.6x	12.8x	18%
10/12/22	KnowBe4	Vista Equity Partners	100%	0%	-	\$4,299	13.8x	12.9x	10.3x	25%	nm	nm	nm	18%
10/11/22	Community Data Solutions	VitalHub	100%	0%	-	\$5	2.0x	-	-	-	6.1x	-	-	-
10/11/22	ForgeRock	Thoma Bravo	100%	0%	-	\$2,252	11.2x	10.6x	8.5x	25%	nm	nm	nm	(15%)
10/10/22	Authlogics	Intercede	100%	0%	-	\$3	-	-	-	=	-	-	-	-

#### Notes:

EV / Revenue multiples greater than 30x and EV / EBITDA multiples greater than 50x are considered not meaningful Includes only transactions for which data was publicly available Sources: Company releases, Wall Street research



# Announced Software Acquisitions: Q4 2022

### (\$ millions)

Announced	Target	Acquirer(s)	Target Segment & Description	Price
12/29/22	Madison Logic	BC Partners	Marketing Applications - Machine learning-based B2B account-based marketing platform	n/a
12/28/22	SalesDirector.ai	BTC Mobility	Business Intelligence - AI-enabled revenue intelligence and sales data insights platform	\$1
12/27/22	Remediant	Netwrix	IT Security - Security management platform for corporations	n/a
12/27/22	Build Labs	DKS Systems	DevOps & Software Development Tools - Infrastructure management platform for immersive coding	n/a
12/22/22	A10 Group	NowVertical Group	Business Intelligence - AI- and big data-based business intelligence and analytics platform	\$6
12/21/22	SVCapture	Hamilton Exhibits	Marketing Applications - Trade show and event lead generation platform	n/a
12/21/22	DailyEndorphin (assets)	Wellable	Human Capital Management - Employee wellness management platform and mobile application	n/a
12/21/22	DOT Loves Data	Australian and New Zealand Banking Group	DevOps & Software Development Tools - AI-based data analytics platform and APIs	n/a
12/21/22	Underlie	Fintech Galaxy	Financial Applications - AI-enabled open banking platform	n/a
12/21/22	TeamDynamix	Level Equity	IT Operations Management - Enterprise work, IT service and project portfolio management platform	n/a
12/20/22	Recibo Technologies	Eazy ERP	ERP & Business Applications - AI-based sales and distribution management platform	n/a
12/20/22	Bynder	THL	ERP & Business Applications - Digital asset management platform and mobile application	n/a
12/19/22	Propay Partners	Activpayroll	Human Capital Management - Payroll and human resources management platform and mobile application	n/a
12/19/22	Acadia	London Stock Exchange Group	Financial Applications - Open-source portfolio risk management	n/a
12/19/22	Qognify	Hexagon	ERP & Business Applications - Enterprise incident management platform and mobile application	n/a
12/16/22	FormSwift	Dropbox	Content Management - Document creation and management for the legal sector	\$95
12/15/22	LearnPlatform	Instructure	Human Capital Management - Online education and learning management platform	n/a
12/14/22	Rave Mobile Safety	Motorola Solutions	Communications - Critical communication and incident collaboration platform	n/a
12/14/22	ButterCMS	Tiugo Technologies	Content Management - Content management platform and APIs	n/a
12/13/22	Livejourney	OAD	DevOps & Software Development Tools - AI-based business process mining platform	n/a
12/13/22	Pycom (assets)	Season Group	Network Infrastructure - IoT connectivity management platform	n/a
12/13/22	Versalus Health	CorroHealth	ERP & Business Applications - Healthcare analytics platform	n/a
12/12/22	Toxnot	3E	Supply Chain Management - Supply chain compliance management for manufacturers and suppliers	n/a
12/12/22	Coriolis Technologies	TradeSun	Business Intelligence - AI-enabled ESG data analytics and rating	n/a
12/12/22	Simpliconnect (assets)	Ackroo	Marketing Applications - Customer engagement and marketing application tools	\$2
12/12/22	Motus Consumer Insights	Vi Labs	Marketing Applications - AI-based member acquisition analytics, site selection and marketing intelligence	n/a
12/12/22	Illusive	Proofpoint	IT Security - Identity threat detection and response management	n/a
12/12/22	Coupa	Thoma Bravo	ERP & Business Applications - AI-based business spend management and ERP platform	\$8.000
12/12/22	Transporeon	Trimble	Supply Chain Management - E-logistics, transport management, supply chain insights and market intelligence	\$1,981
12/12/22	Crashtest Security	Veracode	IT Security - Dynamic application security testing for European businesses	n/a
12/09/22	CognitiveScale (assets)	Tecnotree	Business Intelligence - AI-based big data interpretation and analytics	\$6
12/08/22	Vizir	LumApps	Communications - AI-based no-code digital assistant and chatbot builder	n/a
12/08/22	Callstats.io	Spearline Labs	Business Intelligence - AI-enabled WebRTC monitoring and analytics	n/a
12/08/22	Hyros	Banzai International	Marketing Applications - AI-based multi-channel attribution, ad tracking and optimization	\$110
12/07/22	intentX	Ad.net	Marketing Applications - E-commerce digital content monetization and advertising	n/a
12/07/22	Fathom	Delphia	Content Management - Digital rights, data integration and relationship intelligence platform	n/a
12/07/22	SOPRISM	Audiense	Business Intelligence - Digital consumer insights and know-your-consumer intelligence platform	n/a
12/07/22	Riviera Partners	Insight Partners	Human Capital Management - AI-based executive search and recruiting	n/a
12/06/22	CaseLoad	Volaris Group	ERP & Business Applications - Case management platform and workflows for government agencies	n/a
12/06/22	Riskhandler	Applied Systems	ERP & Business Applications - Insurance risk management platform offering quoting and referral tools	n/a
12/06/22	Proven Optics	Silversmith Capital Partners	Financial Applications - Data-driven financial management platform for IT and finance businesses	n/a
12/06/22	DemandStar	GTY Technology	ERP & Business Applications - Public sector bidding management platform for government agencies	n/a
12/06/22	Prevasio	AlgoSec	IT Security - Cloud-native application protection and security platform with related APIs	n/a
12/05/22	Helpshift	Keywords Studios	Marketing Applications - AI-based customer support automation platform and mobile applications	n/a
12/03/22	Linecraft AI	Wipro Infrastructure Engineering	Business Intelligence - AI-based industrial manufacturing platform with reporting and analytics	n/a
12/02/22	GlobalTrade Corporation	Komgo	Financial Applications - Digital trade platform with automated financial reporting and documentation	n/a
12/01/22	COINS	The Access Group	Supply Chain Management - SCM platform for construction businesses with time management capabilities	n/a
12/01/22	Till	Marlette Holdings	Real Estate - Rent management platform with rent payment analytics	n/a
12/01/22	Stericycle Communication Solutions	Carenet Health	ERP & Business Applications - Patient engagement and referral management solution for the healthcare sector	11/a \$45
12/01/22	Sellerdeck	ClearCourse	Marketing Applications - E-commerce solution for SMBs with website design and development capabilities	n/a



### (\$ millions)

Announced	Target	Acquirer(s)	Target Segment & Description	Price
12/01/22	Global HR Research	DISA Global Solutions	Human Capital Management - Employee screening and analytics with compliance, monitoring and tracking features	n/a
12/01/22	Mistral Group	Aptean	ERP & Business Applications - ERP and CRM platform for businesses in France	n/a
12/01/22	GeoPro	Aware360	Human Capital Management - Employee check-in and safety alert monitoring solution	n/a
12/01/22	Pulse	Mozilla Corporation	Communications - AI-enabled business collaboration and productivity platform	n/a
12/01/22	Princeton TMX	The Stephens Group	Supply Chain Management - Transportation management solution with freight management and analytics	n/a
11/30/22	Saab (assets)	Agilitas Private Equity	Supply Chain Management - Maritime traffic management solutions of Saab	\$41
11/30/22	KPMG Spark	Decimal	Financial Applications - AI-based accounting management for small and medium-sized businesses	n/a
11/29/22	Nethone	MANGOPAY	IT Security - AI-based fraud prevention platform, APIs and related mobile application	n/a
11/29/22	Boxcryptor (assets)	Dropbox	IT Security - File storage and document encryption, APIs, and related mobile application	n/a
11/29/22	VisualCron	SMA Technologies	ERP & Business Applications - Process automation, integration and task scheduling platform	n/a
11/29/22	GovReady	RegScale	IT Security - Open-source cybersecurity and compliance platform	n/a
11/28/22	Sensato	CloudWave	IT Security - Cybersecurity platform, APIs and related managed cybersecurity	n/a
11/28/22	Xeeva	Simfoni	ERP & Business Applications - AI-based spend management and procurement platform	n/a
11/28/22	Kloudio	Alation	Network Infrastructure - Data processing automation platform and APIs for businesses	n/a
11/28/22	Rosette	Babel Street	Communications - AI-based text analytics platform and APIs for software vendors	n/a
11/28/22	FieldConnect	Cordance	Human Capital Management - Field service management platform and mobile application	n/a
11/28/22	Explain Everything (assets)	Promethean	ERP & Business Applications - Digital whiteboard mobile platform for businesses in the education sector	n/a
11/28/22	Titan Communications	Hazel Finn	IT Operations Management - Managed mobility platform and APIs for businesses	n/a
11/28/22	The Echo Group	Therapy Brands	Content Management - Electronic health records management platform	n/a
11/28/22	Eduspire Solutions	Securly	ERP & Business Applications - Administration and classroom management platform	n/a
11/23/22	IoThink Solutions	Wireless Logic	IT Operations Management - Industrial IoT platform. APIs and mobile applications for corporations	n/a
11/22/22	Roivenue	ScanmarQED	Marketing Applications - Marketing attribution analytics and budget optimization	n/a
11/22/22	REVIEWS.io	AppHub	ERP & Business Applications - Review and comparison management for e-commerce businesses	n/a
11/22/22	ALPIMA	Quantifeed	Financial Applications - Financial portfolio construction, management and analytics	n/a
11/22/22	TimePlan	Main Capital Partners	Human Capital Management - Workforce management for time reporting, scheduling and communication	n/a
11/22/22	DPSI	Valsoft	ERP & Business Applications - Computerized maintenance management platform	n/a
11/22/22	Hub Planner	Monterro	Human Capital Management - HR management, scheduling, timesheets and planning solutions	n/a
11/22/22	AzurSoft	Harris Computer	IT Security - Risk management, security and health and safety solutions	n/a
11/21/22	NeoXam	Eurazeo	Financial Applications - Portfolio management for financial institutions and asset managers	n/a
11/21/22	Streamwise	Amagi	Business Intelligence - Data aggregation and reporting analytics for content distributors	n/a
11/17/22	ServiceMax	PTC	Real Estate - Cloud-based, product-focused field service management	\$1.458
11/17/22	Lexicon Travel Technologies	RedAwning	Marketing Applications - Channel marketing and revenue management platform	n/a
11/17/22	Factmata	Cision	Business Intelligence - Business intelligence platform for social and news media monitoring and analytics	n/a
11/17/22	Cider Security	Palo Alto Networks	IT Security - Application and software supply chain security management platform	\$195
11/16/22	B.fine	Regnology	Business Intelligence - AI-based regulatory reporting platform for the European financial industry	n/a
11/16/22	eversign	PDFTron Systems	Content Management - E-signature and document automation platform for legal validity and compliance	n/a
11/16/22	Truckmore	Karmak	ERP & Business Applications - Business dealership management platform for the Canadian transportation sector	n/a
11/16/22	Rented	TravelNet Solutions	Real Estate - Price optimization and rental revenue management	n/a
11/16/22	AnswerHub	IgniteTech	Human Capital Management - Knowledge management and collaboration platform to increase employee productivity	n/a
		9		
11/16/22 11/15/22	PingPong	Hotjar	DevOps & Software Development Tools - Remote UX testing and tester recruitment platform	n/a
	Revegy	Dura Software	ERP & Business Applications - Sales optimization and enablement provider for relationship mapping	n/a
11/15/22	Agora	Payscale	ERP & Business Applications - Workforce compensation management and analytics platform	n/a
11/15/22 11/13/22	ecountabl	Climate First Bank	ERP & Business Applications - Climate and social justice, ESG data and performance management platform	n/a
	Speakfully	HR Acuity	Human Capital Management - HR data and analytics platform providing data analysis and workforce management	n/a
11/11/22	SurePrep	Thomson Reuters	Financial Applications - AI-based tax workflow automation and outsourced tax filing	\$500
11/10/22	ListReports	MBS Highway	Real Estate - Real estate data insights and marketing automation platform	n/a
11/10/22	artegic	UNITED Marketing Technologies	Marketing Applications - Marketing automation platform featuring email marketing and E-CRM	n/a
11/10/22	ePACT	Clubessential Holdings	Content Management - Electronic health record form automation for North American businesses	n/a
11/09/22	OPTANO	Kearney	ERP & Business Applications - AI-based operations optimization and API provider	n/a
11/09/22	IPlytics	LexisNexis	Business Intelligence - AI-enabled IP market intelligence and management	n/a



### (\$ millions)

Announced	Target	Acquirer(s)	Target Segment & Description	Price
11/09/22	Nextup.ai	Appfire	DevOps & Software Development Tools - Microsoft Teams and Slack-focused development for enterprise messaging	n/a
11/09/22	FinDox	Reorg	Content Management - Document, compliance and data management platform	n/a
11/08/22	Templarbit	BOXX Insurance	IT Security - Global AI-based cyber threat intelligence provider	n/a
11/08/22	Marketing 1BY1	Sarbacane Software	Marketing Applications - AI-based customer data and services	n/a
11/08/22	Zendoc	SirionLabs	Content Management - AI-based contract automation	n/a
11/08/22	EDOiQ	KE Andrews	ERP & Business Applications - Credits and incentives project management platform	n/a
11/08/22	Inturn	Mad Street Den	ERP & Business Applications - AI-based slow-moving and excess inventory optimization and management	n/a
11/08/22	Blockthrough	Eveo	IT Security - Anti-malware analysis and detection platform	n/a
11/08/22	Flex Applications	Visma	Human Capital Management - HRM for outsourcing services, APIs and related mobile applications	n/a
11/08/22	Area Technologies	Homeflow	Real Estate - Lead management and automation for the real estate sector	n/a
11/08/22	Fabrik Technology	Gravyty Technologies	ERP & Business Applications - Alumni engagement and fundraising solutions for schools, colleges and universities	n/a
11/08/22	TwinWave Security	Splunk	IT Security - Cyber threat analysis and related APIs	n/a
11/08/22	ClearTrack Information Network	MercuryGate International	Supply Chain Management - Supply chain management platform for businesses globally	n/a
11/07/22	Napkin Technologies	Klaviyo	DevOps & Software Development Tools - Server-less cloud and APIs build, hosting and deployment management	n/a
11/07/22	Plano Group (assets)	Allegion	Human Capital Management - Advanced workforce management platform	n/a
11/07/22	Ionic	OutSystems	DevOps & Software Development Tools - Web, desktop and mobile application development	n/a
11/07/22	Equiplano Sistemas	Volaris Group	ERP & Business Applications - Public administration and management platform for government agencies	n/a
11/04/22	Disruptel	Samba TV	Content Management - AI-based content engagement and advertising management	n/a
11/04/22	Finmark	Bill.com	ERP & Business Applications - Financial planning and cash flow insights along with related APIs for SMBs	n/a
11/03/22	Cloudcraft	Datadog	Network Infrastructure - Cloud infrastructure visualization and application architecture	n/a
11/03/22		1Password		
	Passage Identity		IT Security - Passwordless authentication management	n/a
11/03/22	SeeQuestor	Gorilla Technology Group	Business Intelligence - AI-based video analytics platform	n/a
11/03/22	Quorbit	UKG	Human Capital Management - Strategic workforce planning platform	n/a
11/03/22	Clean.io	Human Security	IT Security - Digital engagement security platform	n/a
11/03/22	Harmari	Avenu Insights & Analytics	ERP & Business Applications - Fraud identification, monitoring and compliance for the government sector	n/a
11/03/22	Airgrid	MiQ Digital	Marketing Applications - AI-enabled privacy-first audience modeling and advertising enablement	n/a
11/02/22	Yuhu	НарруСо	Real Estate - Property operations and rental lifecycle management platform for property owners	n/a
11/02/22	Shipamax	WiseTech Global	Content Management - Data entry and document automation platform for logistics businesses globally	n/a
11/02/22	Statice	Anonos	IT Security - AI-based data anonymization, privacy and access management platform	n/a
11/02/22	Unblu	Swiss Post	Communications - AI-based customer engagement platform with conversational and collaborative features	n/a
11/02/22	SpiderFoot	Intel 471	IT Security - Open-source cyberthreat intelligence platform with attack surface monitoring	n/a
11/02/22	SCM Connections	McKinsey & Company	Supply Chain Management - Supply chain management planning and analytics platform for businesses globally	n/a
11/02/22	Opti	Aliaxis	Business Intelligence - Cloud-based stormwater monitoring and control platform with forecasting solutions	n/a
11/01/22	DatumCloud	Initium SoftWorks	Network Infrastructure - Cloud-based platform enabling codeless, bi-directional integrations with CRMs and ERPs	n/a
11/01/22	TaxAct	Cinven	Financial Applications - Online tax filing assistance platform and related mobile applications for businesses	\$720
11/01/22	AdaptaLogix	BDO USA	ERP & Business Applications - Medical ERP platform with features including inventory management, customer billing and	l CRI n/a
11/01/22	Prosmar Bunkering AS	ZeroNorth	Supply Chain Management - Bunker and freight risk management platform providing bunker monitoring and analysis	n/a
11/01/22	Pixlee TurnTo	Emplifi	Content Management - AI-enabled social media marketing and content management platform for businesses	n/a
11/01/22	Moviynt	Vuzix Corporation	ERP & Business Applications - Mobile warehouse, field services and work order management ERP platform	n/a
11/01/22	AeroDPC	Hint Health	ERP & Business Applications - Electronic medical record and practice management platform for businesses	n/a
11/01/22	ISMS Solutions	ProcessUnity	IT Security - AI-enabled enterprise security and compliance management platform	n/a
11/01/22	Integritie	enChoice	Content Management - Cloud-based content management, social media and content analytics platform	\$2
11/01/22	Benefitfocus	Voya Financial	Human Capital Management - Corporate benefits administration and analytics platform for employers	\$588
10/31/22	Remix Software	Shopify	DevOps & Software Development Tools - Open-source web development and UI platform for businesses globally	n/a
10/31/22	Rinicom Intelligent Solutions	Operational Solutions	Business Intelligence - AI-enabled video analytics platform and optical drones system with site tracking	n/a
10/28/22	Intelligo	SD Worx	Human Capital Management - Human resource and payroll management platform for businesses	n/a
10/27/22	Knowledge Based Systems	MediQuant	Business Intelligence - SQL-based data management platform with data extraction, security and analytics	n/a
10/27/22	ServiceCentral Technologies	Valsoft Corporation	Storage Management - After-sales product lifecycle, logistics, service and repair management platform	n/a
10/27/22	UserTesting	Thoma Bravo. Sunstone Partners	Marketing Applications - Video-based user experience platform with customer testing functionalities	\$991
10/27/22	Paycircle	Access People	Human Capital Management - Payroll management solution for businesses in the United Kingdom	n/a



### (\$ millions)

Announced	Target	Acquirer(s)	Target Segment & Description	Price
10/26/22	Elmo Software	K1 Investment Management	Human Capital Management - HR and payroll management platform with recruiting and staffing capabilities	\$338
10/26/22	SkillSurvey	iCIMS	Human Capital Management - Talent recruitment and management solutions	n/a
10/26/22	Thomson Reuters (assets)	IRIS Software	ERP & Business Applications - myPay Solutions of Thompson Reuters with payroll management and tax reporting	n/a
10/26/22	OutSmart International	Visma	ERP & Business Applications - Field service management amd related mobile application	n/a
10/25/22	DealerDOCX	Docufree	Content Management - Document management solution for the automotive sector	n/a
10/25/22	Smarking	ParkHub	Real Estate - Parking analytics for real estate owners, parking operators and municipalities	n/a
10/25/22	MedTek	National Medical Billing Services	ERP & Business Applications - Revenue cycle management for the healthcare industry	n/a
10/25/22	TitleTap	ProfitSolv	Marketing Applications - Digital marketing and web design platform for attorneys and title agents in the United States	n/a
10/25/22	Fenestrae	Dura Software	Content Management - Cloud-enabled faxing and document management platform	n/a
10/25/22	Acqueon	Long Ridge Equity Partners	Marketing Applications - Omnichannel customer engagement solution	n/a
10/24/22	Boostrs (assets)	Visier	Human Capital Management - Talent development and management platform of Boostrs	n/a
10/24/22	MediaLogic	Nimonik	ERP & Business Applications - Regulatory compliance monitoring platform for businesses in Western Canada	n/a
10/24/22	Technically Creative	Reveal	Business Intelligence - AI-enabled governance and compliance platform for the financial industry	n/a
10/20/22	Cubeware	insightsoftware	Business Intelligence - Performance analytics and data management solution	n/a
10/20/22	indaHash	ArabyAds	Marketing Applications - Marketing solution with brand engagement and data analysis capabilities	n/a
10/20/22	iWave	Incline Equity Partners	ERP & Business Applications - AI-based fundraising enablement and management platform for nonprofits	n/a
10/20/22	Naborly	SingleKey	Real Estate - AI-based property management solution for landlords	n/a
10/19/22	Utmost Software	Beeline	ERP & Business Applications - Workforce and vendor management platform and open APIs	n/a
10/19/22	Noonlight	Alarm.com	ERP & Business Applications - Emergency response and safety and event management solutions, APIs and SDKs	n/a
10/19/22	Epicenter Experience	Stagwell	Marketing Applications - Consumer behavior analytics platform	n/a
10/19/22	TM3 Software	proLogistik	ERP & Business Applications - Warehouse and logistics management platform for retail companies and fulfillment providers	
10/19/22	School Innovations & Achievement	SchoolStatus`	ERP & Business Applications - Real-time dashboard, time-saving workflow, compliance, privacy and security for K-12	n/a
10/18/22	Worldox	NetDocuments	Content Management - Document and email management for industries across verticals	n/a
10/18/22	ThreatSwitch	Sign In Solutions	ERP & Business Applications - Workspace security and compliance management solution	n/a
10/18/22	Pronestor	Sign In Solutions	Human Capital Management - Workspace collaboration management platform	n/a n/a
10/18/22	IFS	Denys	ERP & Business Applications - AI-based ERP, CRM, project management, EAM and BPM solution	n/a n/a
10/18/22	DCOYA	NINJIO	IT Security - Behavior-based cybersecurity awareness and training platform	n/a
10/18/22	Edammo	Verseon	Business Intelligence - Real-time predictive analytics solution	n/a
10/18/22	Nutshell			
10/18/22		WebFX	Marketing Applications - CRM and email marketing platform for sales automation, contact and pipeline management	n/a
	Suitecx	QuestionPro	Marketing Applications - CX and journey mapping and analytics platform	n/a
10/17/22	Photon Dynamics	CSI Enterprises	Financial Applications - AP automation and invoice management	n/a
10/17/22	Revv	LegalZoom.com	Content Management - Document automation, forms template and e-signature tools	n/a
10/17/22	Parkki	Aximum S.A.	ERP & Business Applications - Parking management, smart mobility sensors and related mobile application	n/a
10/13/22	Hardenize	Redsift	IT Security - Internet asset discovery and network monitoring platform	n/a
10/13/22	Sestek	Unifonic	Communications - Conversational automation and analytics platform	n/a
10/13/22	Flare Build Systems	Bitrise	DevOps & Software Development Tools - Bazel-focused build management platform	n/a
10/13/22	Pridatect	Borneo Data	Business Intelligence - Data protection and privacy compliance platform	n/a
10/13/22	Sierra Interactive	Alpine	Real Estate - Real estate CRM platform	n/a
10/13/22	Talenya	Paycor	Human Capital Management - AI-based recruitment management and talent engagement platform	n/a
10/13/22	WompMobile	DexCare	DevOps & Software Development Tools - E-commerce, online merchandising and mobile website development platform	n/a
10/12/22	Rialtas Business Solutions	Harris Computer	ERP & Business Applications - Accounting and administration management platform for local agencies	n/a
10/12/22	Applied Educational Systems	CEV Multimedia	Human Capital Management - Career and technical education curriculum management platform	n/a
10/12/22	FivePoint Solutions	Versaterm	ERP & Business Applications - Data integration and case management platform for state and local agencies	n/a
10/12/22	MARU Group	Stagwell	Marketing Applications - AI-based customer experience and data insights platform	n/a
10/12/22	Providerflow	Data Dimensions	Content Management - AI-based electronic health records platform	n/a
10/12/22	Boardgent	Auvik Networks	IT Operations Management - Device management platform providing information protection and encryption	n/a
10/12/22	Saaslio	Auvik Networks	App Delivery & Network Acceleration - Application discovery and management platform	n/a
10/12/22	Singularity Education Group (assets)	Talespin Reality Labs	Human Capital Management - AI-based and immersive learning management platform for businesses	n/a
10/12/22	Rock Solid	Granicus	ERP & Business Applications - Citizen engagement platform for government agencies	n/a
10/12/22	KnowBe4	Vista Equity Partners	IT Security - Cybersecurity awareness training and simulated phishing platform	\$4,299

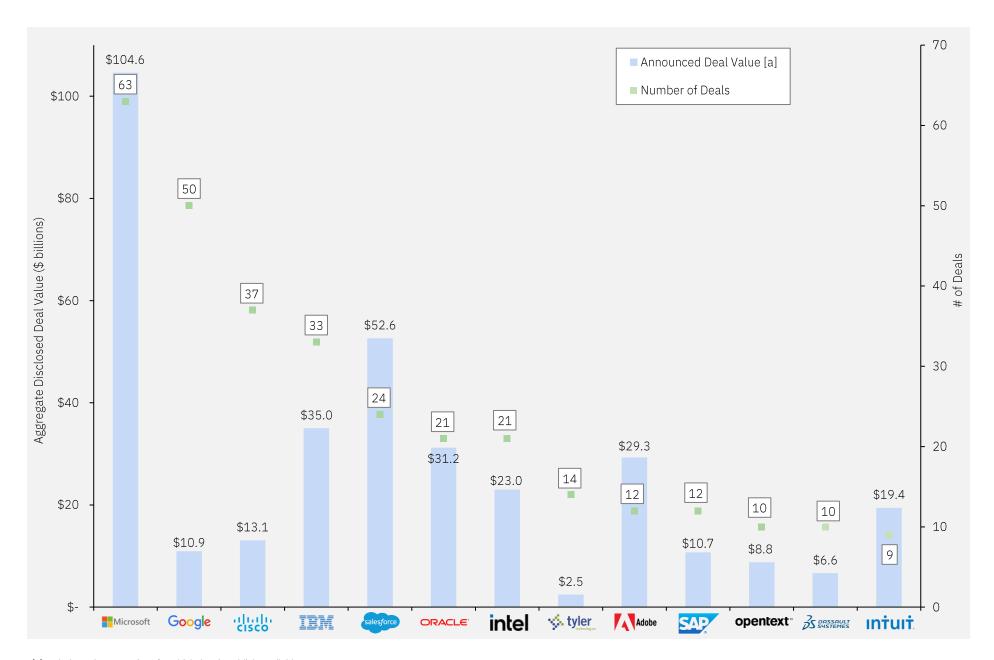


### (\$ millions)

Announced	Target	Acquirer(s)	Target Segment & Description	Price
10/11/22	CloudMD	WELL Health Technologies	Content Management - Electronic medical record management platform	n/a
10/11/22	Zebrium	ScienceLogic	Business Intelligence - AI-based automatic root cause analysis platform	n/a
10/11/22	StoCastic	Beckman Coulter Life Sciences	ERP & Business Applications - AI and evidence-based decision support management for healthcare businesses	n/a
10/11/22	Workterra	Businessolver	Human Capital Management - HR benefits administration and enrollment platform	n/a
10/11/22	Networx	IRIS Software	Human Capital Management - Applicant tracking and recruitment management for businesses in the UK	n/a
10/11/22	Planimetron	Yardi	Real Estate - Space management platform for commercial and corporate real estate	n/a
10/11/22	AccuSystems	Alogent	Content Management - Document imaging and tracking for businesses in the financial industry	n/a
10/11/22	KMP Digitata	SP Plus	ERP & Business Applications - Online booking for parking and other travel services	n/a
10/11/22	Rummel Software	STP Group	ERP & Business Applications - Legal office, document, bankruptcy and insolvency management platform	n/a
10/11/22	Basketful	SmartCommerce	Marketing Applications - In-context e-commerce optimization and analytics platform and mobile application	n/a
10/11/22	Community Data Solutions	VitalHub	ERP & Business Applications - CRM and case management for non-profit and community service organizations	\$5
10/11/22	ForgeRock	Thoma Bravo	IT Security - AI-based digital identity and access management	\$2,252
10/11/22	Certified Tracking Solutions	GPS Insight	Supply Chain Management - AI-based GPS tracking fleet management	n/a
10/10/22	Authlogics	Intercede	IT Security - Multi factor authentication and password security management	\$3
10/10/22	Learning Nexus	AdviserPlus	Human Capital Management - Learning management solutions for private, public and non-profit organizations	n/a
10/07/22	Beeple	Visma	Human Capital Management - Workforce scheduling and management platform and mobile application	n/a
10/07/22	ES Tech Group	ECI Software Solutions	Marketing Applications - E-commerce management for manufacturers and distributors	n/a
10/07/22	DevSkills	Alva Labs	Human Capital Management - Talent assessment and management for developers	n/a
10/06/22	SwiftMotion	Ninth Street Capital Partners	ERP & Business Applications - Image and video-based ergonomic and safety risk assessments for employees	n/a
10/05/22	InterTrade	SPS Commerce	Supply Chain Management - SCM collaboration platform for retail, healthcare, food and automotive sectors	n/a
10/05/22	Era Software	ServiceNow	Network Infrastructure - AI-enabled Kubernetes-based log management	n/a
10/05/22	Kinzen	Spotify	IT Security - AI-based online cybersecurity and threats management	n/a
10/05/22	Epoq	AB Tasty	Marketing Applications - AI-based e-commerce personalization platform	n/a
10/04/22	Blue Hexagon	Qualys	IT Security - AI-based threat detection and response management	n/a
10/04/22	Material Intellect	Corsair M360	Business Intelligence - AI-based structured and unstructured data analytics platform	n/a
10/04/22	Bluecrew	EmployBridge	Human Capital Management - AI-based labor and workforce management	n/a
10/04/22	Shipup	Global Blue	Marketing Applications - AI-based e-commerce post purchase CRM platform	n/a
10/04/22	Blue	Generac Power	DevOps & Software Development Tools - Industrial IoT network management and platform developer	n/a
10/04/22	eFlex Systems	Epicor Software	Supply Chain Management - Manufacturing execution system and process control IoT platform	n/a
10/04/22	Sensibill	Q2	Financial Applications - AI-based expense management platform	n/a
10/04/22	DoiT Software	March	Business Intelligence - AI- and big data-based business analytics platform	n/a
10/04/22	Myxx	SmartCommerce	Marketing Applications - Omnichannel marketing and e-commerce management	n/a
10/04/22	Bluecity	Velodyne Lidar	ERP & Business Applications - AI-based real time traffic monitoring and analytics	n/a
10/04/22	Structural	Augeo	Human Capital Management - Employee engagement, people directory and internal opportunity marketplace for ente	rprises n/a
10/04/22	iOFFICE	Condeco Software	Real Estate - Facilities and workplace management with space planning capabilities	n/a
10/04/22	Kapstone	iC Consult	IT Security - Identity and access management for complete cloud security program lifecycle	n/a
10/03/22	bswift .	Francisco Partners	Human Capital Management - Employee benefits management	n/a
10/03/22	SafetySkills	HSI	Human Capital Management - EHS training platform for businesses globally	n/a
10/03/22	Saasu	OWNA	Financial Applications - Online accounting management	n/a



### Most Active Strategic Acquirers: 2017 – 2022



[a] Includes only transactions for which data is publicly available



# Most Active Strategic Software Acquirers

2017 – 2	022 (\$ millions)											
		Conside	eration_	Equity	Enterprise			Consid	leration_	Equity	Enterprise	Adaba
Announced	Target	% Cash	% Stock	Value	Value	Announced	Target	% Cash	% Stock	Value	Value	Adobe
Adobe		Known acquire		nce 2017):	\$28,721	Cisco (cont	*					
09/15/22	Figma	50%	50%	-	\$19,411	08/21/17	Springpath	100%	0%	-	\$320	Cisco
12/08/21	ContentCal	-	-	-	-	07/13/17	Observable Networks	-	-	-	-	
08/19/21	Frame.io	100%	0%	-	\$1,275	05/11/17	MindMeld	-	-	-	\$125	
.1/09/20	Workfront	100%	0%	-	\$1,500	05/04/17	Saggezza (assets)	-	-	-	-	Dassault
.2/06/19	Oculus Medium	-	-	-	_	05/01/17	Viptela	100%	0%	-	\$610	Systemes
1/23/19	Allegorithmic	100%	0%	-	\$105	01/24/17	AppDynamics	100%	0%	\$3,700	\$3,593	Systemes
9/20/18	Marketo	100%	0%	-	\$4,750							
5/21/18	Magento	-	-	-	\$1,680	Dassault Sy		Known acquir	ed value (s	ince 2017):	\$6,643	
)4/27/18	Uru	-	-	-	-	11/30/21	Armonica Retail	-	-	-	-	Google
4/16/18	Sayspring	-	-	-	-	11/25/20	NuoDB	-	-	-	-	
.0/18/17	KyleBrush	-	-	-	-	07/23/20	Proxem	-	-	-	-	
6/21/17	Mettle	-	-	-	-	06/12/19	Medidata Solutions	100%	0%	\$5,744	\$5,818	
						12/11/18	IQMS	100%	0%	-	\$425	IBM
isco		Known acquire	ed value (si	nce 2017):	\$13,068	06/14/18	Centric Software	-	-	-	-	
1/28/22	Opsani	-	-	-	-	10/25/17	No Magic	-	-	-	-	
0/25/21	replex	-	-	-	-	09/28/17	Exa Corporation	100%	0%	-	\$400	
8/13/21	Epsagon	-	-	-	-	06/20/17	Outscale	-	-	-	-	Intel
5/14/21	Kenna Security	-	-	-	-	06/12/17	AITAC	-	-	-	-	
5/12/21	Socio Labs	-	-	-	-							
5/11/21	Sedonasys Systems	-	-	-	-	Google		Known acquir	ed value (s	ince 2017):	\$10,948	T
2/22/20	Dashbase	-	-	-	-	04/29/22	MobiledgeX	-	-	-	-	Intuit
2/07/20	Slido	-	-	-	-	03/16/22	Raxium	-	-	-	-	
.2/06/20	IMImobile	100%	0%	-	\$710	03/08/22	Mandiant	100%	0%	\$5,400	\$5,326	
.1/16/20	Banzai Cloud (assets)	-	-	-	-	01/04/22	Siemplify	-	-	-	-	Minungaft
.0/01/20	Portshift	-	-	-	-	11/17/21	Tempow	-	-	-	-	Microsoft
8/25/20	BabbleLabs	-	-	-	-	10/20/21	CompilerWorks	-	-	-	-	
8/03/20	Modcam	-	-	-	-	09/03/21	Playspace	-	-	-	-	
5/28/20	ThousandEyes	-	-	-	-	12/14/20	Dysonics Corporation	-	-	-	-	OpenToyt
4/06/20	Fluidmesh Networks	-	-	-	-	12/11/20	Neverware	-	-	-	-	OpenText
2/16/19	Exablaze	-	-	-	-	12/07/20	Dataform	-	-	-	-	
8/26/19	CloudCherry	-	-	-	-	12/02/20	Actifio	-	-	-	-	
8/12/19	42hertz	-	-	-	-	08/24/20	StratoZone	-	-	-	-	Oracle
8/06/19	Voicea	-	-	-	-	06/30/20	North Inc	-	-	-	-	Oracle
7/09/19	Acacia Communications	100%	0%	\$2,840	\$2,530	02/19/20	Cornerstone Technology	-	-	-	-	
6/06/19	Sentryo	-	-	-	-	01/14/20	Pomo Search	=	-	-	-	
1/30/19	Singularity Networks	-	-	-	-	01/14/20	AppSheet	-	-	-	-	Salesforce.co
2/18/18	Luxtera	-	-	-	\$660	12/19/19	Typhoon Studios	-	-	-	-	Jaiesiuice.cc
1/21/18	Ensoft	-	-	_	-	11/18/19	CloudSimple	-	-	-	-	
8/02/18	Duo Security	100%	0%	-	\$2,350	11/01/19	Fitbit	100%	0%	-	\$1,824	
6/19/18	July Systems	-	-	-	-	10/25/19	Zya	-	-	-	_	SAP
5/01/18	Accompany	100%	0%	-	\$270	08/15/19	Socratic	-	-	-	-	[ 3/1
1/24/18	Skyport Systems		-	_	-	07/09/19	Elastifile	-	-	-	-	
2/07/17	47Line Technologies	-	-	_	_	06/06/19	Looker	-	_	-	\$2,600	
.0/23/17	BroadSoft	100%	0%	\$1,737	\$1,900	02/19/19	Alooma	-	-	-		Tyler
10/19/17	Perspica		_	,	,	01/17/19	Fossil Group	_	_	_	\$40	Technologies

Note: "Known acquired value" includes only transactions for which data is publicly available

<sup>&</sup>quot;Most Active Strategic Software Acquirers" are defined as diversified software vendors that have made 8+ acquisitions with a known acquired value >\$2.5Bn in the past 5 years



continued

# Most Active Strategic Software Acquirers continued

2017 – 2	2022 (\$ millions)											
		Conside	eration_	Equity	Enterprise			Consid	eration	Equity	Enterprise	
Announced	Target	% Cash	% Stock	Value	Value	Announced	Target	% Cash	% Stock	Value	Value	Adobe
Google (cor						IBM (contin	•					
01/03/19	SuperPod	-	-	-	-	12/21/20	Nordcloud Oy	-	-	-	-	Cisco
L2/20/18	DevOps Research and Assessment	-	-	-	\$9	12/15/20	Expertus Technologies	-	-	-	-	
.2/10/18	Sigmoid Labs Private	-	-	-	-	11/18/20	Instana	-	-	-	-	
.1/27/18	cwist	-	-	-	-	11/16/20	TruQua Enterprises	-	-	-	-	Dassault
.0/02/18	Terraform Labs	-	-	-	-	07/08/20	WDG Automation	-	-	-	-	Systemes
8/06/18	GraphicsFuzz	-	-	-	-	06/05/20	Spanugo	-	-	-	±00/	<u></u>
7/11/18	LucidLogix	-	-	-	-	01/11/19	Deutsche Telekom (T-Systems)	4000/	- 00/	- -	\$986	
5/14/18	Cask Data	-	-	-	-	10/28/18	Red Hat	100%	0%	\$33,435	\$34,026	
5/09/18	Velostrata	-	-	-	-	06/15/18	Oniqua	-	-	-	-	Google
3/27/18	Tenor	-	-	-	-	05/03/18	Armanta	-	-	-	-	
3/21/18	Lytro	-	-	-	-	10/04/17	Vivant Digital	-	-	-	-	
2/15/18	Xively	-	-	-	\$50	09/14/17	Cloudigo	-	-	-	-	TDM
2/13/17	NVF Tech	-	-	-	-	05/31/17	TIMETOACT GROUP	100%	0%	-	\$3	IBM
0/10/17	Tiny Garage	-	-	-	-	05/02/17	Verizon (assets)	-	-	-	-	
0/10/17	Relay Media	-	-	-	-	01/23/17	Agile 3 Solutions	100%	0%	-	\$14	
9/26/17	Bitium	-	-	-	-							Total
9/20/17	HTC Corporation	100%	0%	-	\$1,100	Intel		Known acquire	ed value (s	since 2017):	\$23,000	Intel
3/17/17	ANIMATTER	-	-	-	-	06/01/22	Codeplay	-	-	-	-	
8/14/17	Senosis Health	-	-	-	-	05/03/22	Siru Innovations	-	-	-	-	
7/11/17	Halli Labs	-	-	-	-	04/12/22	Ananki	-	-	-	-	Intuit
5/10/17	Owlchemy	-	-	-	-	03/31/22	Granulate	-	-	-	-	Intuit
3/09/17	AppBridge	-	-	-	-	02/23/22	Linutronix	-	-	-	-	
3/08/17	Kaggle	-	-	-	-	02/15/22	Tower Semiconductor	100%	0%	\$5,736	\$5,400	
1/18/17	Twitter (Fabric assets)	-	-	-	-	12/06/21	Screenovate	-	-	-	-	Microsoft
1/05/17	Limes Audio	-	-	-	-	11/09/21	RemoteMyApp	-	-	-	-	MICIOSOIT
						11/04/21	Centaur Technology (assets)	-	-	-	-	
3M		Known acquire	d value (sin	ce 2017):	\$37,085	10/29/20	SigOpt	-	-	-	-	
5/06/22	Randori	-	-	-	-	05/20/20	Rivet Networks	-	-	-	-	OpenText
2/15/22	Neudesic	-	-	-	-	05/04/20	Moovit	100%	0%	-	\$900	Openiext
2/01/22	Sentaca Consulting	-	-	-	-	12/16/19	Habana Labs	100%	0%	-	\$2,000	
1/11/22	Envizi	-	-	-	-	10/15/19	Smart-edge	-	-	-	-	
1/30/21	SXiQ	-	-	-	-	06/10/19	Barefoot	-	-	-	-	Oracle
1/08/21	Phlyt	-	-	-	-	04/16/19	Omnitek	-	-	-	-	U
1/02/21	ReaQta	-	-	-	-	02/18/19	Ineda Systems	-	-	-	-	
0/27/21	McD Tech Labs	-	-	-	-	09/10/18	NetSpeed Systems	-	-	-	-	
0/19/21	Volta Networks	-	-	-	-	08/16/18	Vertex.AI	-	-	-	-	Salesforce.co
0/19/21	Rego Consulting	-	-	-	-	07/12/18	eASIC	-	-	-	-	54,55,5,50,00
7/15/21	Bluetab	-	-	-	-	03/13/17	Mobileye	100%	0%	-	\$14,700	
7/08/21	BoxBoat Technologies	-	-	-	-							
5/25/21	Catalogic	-	-	-	-	Intuit		Known acquire	ed value (s	since 2017):	\$19,440	SAP
5/18/21	Waeg BVBA	-	-	-	\$61	09/13/21	Mailchimp	49%	51%	-	\$12,000	
4/29/21	Turbonomic	-	-	-	\$1,995	02/03/21	OneSaas	-	-	-	-	
4/15/21	myInvenio	-	-	-	-	08/03/20	TradeGecko	-	-	-	-	
1/14/21	Taos Mountain	-	-	-	-	02/24/20	Credit Karma	50%	50%	-	\$7,100	Tyler
1/11/21	7Summits	-	-	-	-	11/18/19	Chronobooks	-	-	-	-	Technologies

Note: "Known acquired value" includes only transactions for which data is publicly available

<sup>&</sup>quot;Most Active Strategic Software Acquirers" are defined as diversified software vendors that have made 8+ acquisitions with a known acquired value >\$2.5Bn in the past 5 years



continued

### Most Active Strategic Software Acquirers continued

2017 – 2	2022 (\$ millions)											
		Consider	ration	Equity	Enterprise			Consid	deration	Equity	Enterprise	
Announced	Target	% Cash 9	% Stock	Value	Value	Announced	Target	% Cash	% Stock	Value	Value	Adobe
Intuit (cont	inued)					Microsoft (d	continued)					
05/28/19	Origami Logic	-	-	_	-	11/14/18	XOXCO	-	-	-	-	Cisco
01/29/18	Applatix	_	_	-	_	11/12/18	InXile Entertainment	-	_	_	_	Cisco
12/05/17	TSheets	100%	0%	_	\$340	11/10/18	Obsidian	-	_	_	_	
10/26/17	Exactor	-	-	_	-	10/08/18	Glint	_	_	_	_	
10,20,1,	E/table:					09/13/18	Lobe Artificial Intelligence	_	_	_	_	Dassault
Microsoft		Known acquired	d value (s	ince 2017).	\$104,607	06/20/18	Bonsai AI	_	_	_	_	Systemes
06/14/22	Miburo	-	-	-	-	06/18/18	Flipgrid	_	_	_	_	
03/31/22	Minit	_	_	_	_	06/10/18	Playground Games	_	_	_	_	
01/18/22	Activision Blizzard	100%	0%	\$74.010	\$68,700	06/04/18	GitHub	0%	100%	_	\$7,500	Google
12/21/21	Xandr	10070	-	Ψ7-,010 -	Ψοο,7οο	05/20/18	Semantics Machines		10070	_	Ψ7,500	Google
10/29/21	Two Hat	_	_	_	_	04/02/18	Forerunner Software (BI reporting assets)					
10/29/21	Clear Software	-	_	-	-	04/02/18	Chalkup	-	-	-	-	
10/22/21		-	-	-	-			1000/	00/	-	-	IBM
09/10/21	Ally.io TakeLessons	-	-	-	_	01/29/18 01/03/18	PlayFab	100%	0%	-	-	( 101.1
		-	-	-	-		Avere Systems	-	-	-	-	
09/07/21	Clipchamp	-	-	-	-	11/06/17	Swing Technologies (assets)	-	-	-	-	
08/11/21	Peer5	-	-	-	-	10/03/17	AltspaceVR	-	-	-	-	Intel
07/28/21	Suplari	-	-	-	\$60	08/15/17	Cycle Computing	-	-	-	-	Inter
07/21/21	CloudKnox	-	-	-	\$200	06/29/17	Cloudyn	100%	0%	-	-	
07/12/21	RiskIQ	-	-	-	\$650	05/30/17	Heighten Software (assets)	-	-	-	-	
06/02/21	ReFirm Labs	-	-	-	-	05/24/17	Hexadite	-	-	-	\$100	Intuit
04/29/21	Kinvolk	-	-	-	-	04/18/17	Intentional Software	-	-	-	-	Intuit
04/12/21	Nuance Communications	100%	0%	\$19,700	\$19,897	04/10/17	Deis	-	-	-	-	
03/16/21	The Marsden Group	-	-	-	-	01/17/17	Donya Labs	-	-	-	-	
12/02/20	Smashgg	-	-	-	-	01/13/17	Maluuba	-	-	-	-	Minungalt
09/21/20	ZeniMax	100%	0%	-	\$7,500							Microsoft
07/07/20	Orions Digital Systems	-	-	-	-	OpenText	Kno	wn acquir	ed value (s	ince 2017):	\$8,794	
06/22/20	CyberX	-	-	-	-	08/25/22	Micro Focus	100%	0%	\$2,192	\$5,880	
06/18/20	ADRM Software	-	-	-	-	11/24/21	Bricata	-	-	-	-	OpenTout
05/19/20	Softomotive	-	-	_	-	11/08/21	Zix	100%	0%	-	\$860	OpenText
05/14/20	Metaswitch Networks	-	-	-	-	03/09/20	XMedius Solutions	100%	0%	-	\$75	
03/26/20	Affirmed Networks	-	-	-	-	11/11/19	Carbonite	100%	0%	\$805	\$1,297	
03/16/20	npm	-	-	-	-	01/31/19	Catalyst Repository Systems	100%	0%	-	\$75	Ougala
10/21/19	Mover	-	-	-	_	10/31/18	Liaison Technologies	100%	0%	_	\$310	Oracle
09/18/19	Semmle	_	-	-	_	02/14/18	Hightail	100%	0%	_		
09/04/19	Movere	_	_	_	_	07/26/17	Guidance Software	100%	0%	\$240	\$222	
08/19/19	JClarity	_	_	_	_	06/05/17	Covisint	100%	0%		\$75	
08/05/19	PromoteIQ	_	_	_	_	55,55,17		20070	0,0		Ψ, σ	Salesforce.com
07/29/19	BlueTalon	_	_	_	_	Oracle	Kno	wn acquir	ed value (c	ince 2017):	\$31,203	
06/17/19	Good Software	_	_	_	_	12/20/21	Cerner	100%	0%	\$28,300	\$29,678	
06/09/19	Double Fine Productions	_	_	_	_	06/25/21	GloriaFood Tech	10070	-	\$20,500 -	\$27,070 -	CAD
05/28/19	Drawbridge	-	_	_	_	11/18/20	Nor1	_	_	_		SAP
03/28/19	Express Logic	_	_	_	_	05/06/20	Sauce Video	_	_	_	_	
02/04/19	BrightBytes	=	-	-	-	10/02/19	CrowdTwist	100%	0%	-	-	
02/04/19	Citus Data	-	-	-	-	07/11/19		100%	U%	-	-	Tyler
11/19/18		-	-	-	-	06/26/19	Speak Ai	-	-	-	-	Technologies
TT/TA/TQ	FSLogix	-	-			00/20/19	Oxygen Systems	_		_		0.1

Note: "Known acquired value" includes only transactions for which data is publicly available

<sup>&</sup>quot;Most Active Strategic Software Acquirers" are defined as diversified software vendors that have made 8+ acquisitions with a known acquired value >\$2.5Bn in the past 5 years



continued

# Most Active Strategic Software Acquirers continued

2017 – 2	2022 (\$ millions)											
		_ Conside	eration_	Equity	Enterprise			Conside	eration_	Equity	Enterprise	
Announced	Target	% Cash	% Stock	Value	Value	Announced	Target	% Cash	% Stock	Value	Value	Adobe
Oracle (con	tinued)					SAP (contin	nued)					
11/15/18	Talari Networks	-	-	-	-	02/11/21	AppGyver	-	-	-	-	Cisco
10/22/18	DataFox	-	-	-	-	01/27/21	Signavio	-	-	-	-	
10/17/18	goBalto	-	-	-	-	10/01/20	Emarsys	-	-	-	-	
09/25/18	Iridize	-	-	-	-	11/19/18	Contextor	-	-	-	-	Dassault
05/16/18	Datascience	-	-	-	-	11/11/18	Qualtrics	100%	0%	-	\$8,000	Systemes
04/30/18	Vocado	-	-	-	-	06/05/18	Coresystems	-		-	-	Systemes
04/24/18	Grapeshot	-	-	-	\$325	01/30/18	CallidusCloud	100%	0%	-	\$2,400	
04/10/18	Sparkline Data	-	-	-	-	01/22/18	Recast.AI SAS	-	-	-	-	
02/15/18	Zenedge	-	-	-	-	09/24/17	Gigya	-	-	-	\$325	Google
12/17/17	Aconex	100%	0%	-	\$1,200		1.2		1 1 /		40.474	
04/18/17	Moat	-	-	-	-	Tyler Techr		Known acquire	d value (s	ince 2017):	\$2,471	
04/17/17	Wercker US	-	-	-	-	02/08/22	US eDIRECT	-	-	-	-	TDM
03/13/17	Webtrends (marketing analytics assets	-	-	-	-	09/09/21	Arx Solutions	4000/	- 00/	-	-	IBM
01/19/17	Apiary	-	-	-	-	06/03/21	VendEngine	100%	0%	-	\$84	
Salesforce.		/	ر میرامی (م	inna 2017).	ΦEQ (27	04/05/21	ReadySub	-		-	-	
05/09/22		Known acquire	ed value (s	since 2017):	\$52,637 -	03/31/21 02/10/21	DataSpec NIC	100%	- 0%	#2 277	±2.040	Intel
03/09/22	Troops Traction on Demand	-	-	-	-	10/30/19		100%	0%	\$2,277	\$2,040	111101
02/23/22	Atonit		_			02/07/19	Courthouse Technologies Civic	-	_	_	_	
11/15/21	Narrative Science		_	_		02/01/19	MicroPact	100%	0%		\$185	
09/24/21	LevelJump					12/10/18	SceneDoc	10070	-		ΔT02	Intuit
09/13/21	Lintao	_	_	_	_	10/01/18	TradeMaster	100%	0%	_	\$5	
08/02/21	Servicetree	_	_	_	_	09/04/18	CaseloadPRO	10070	-	_	Ψ0	
12/01/20	Acumen Solutions	_	_	_	_	04/18/18	Socrata	100%	0%	_	\$150	
12/01/20	Slack	58%	42%	\$28,445	\$27,945	05/30/17	Modria	100%	0%	_	\$7	Microsoft
09/04/20	Mobify	-	-	-	-		1 Todatia	20070				
03/02/20	C Level Club	_	-	_	-							
02/25/20	Vlocity	100%	0%	_	\$1,330							
02/03/20	Evergage	_	-	_	-							OpenText
08/07/19	ClickSoftware	-	-	-	\$1,350							
06/10/19	Tableau	0%	100%	\$15,080	\$14,579							
05/06/19	Bonobo	-	-		-							Oracle
04/17/19	MapAnything	-	-	-	-							Oracle
01/28/19	Griddable.io	-	-	-	-							
10/05/18	Rebel	-	-	-	-							
07/16/18	Datorama	16%	84%	\$744	\$726							Salesforce.con
03/20/18	MuleSoft	80%	20%	\$6,580	\$6,500							
03/12/18	CloudCraze	-	-	-	\$182							
01/08/18	Attic Labs	-	-	-	-							
01/24/17	Sequence	-	-	-	\$26							SAP
SAP		Known acquire	ed value (s	ince 2017):	\$10,725							
07/21/22	Askdata	-	-	-	-							Tulor
01/27/22	Taulia	-	-	-	-							Tyler
08/16/21	SwoopTalent	-	-	-	-							Technologies

Note: "Known acquired value" includes only transactions for which data is publicly available

<sup>&</sup>quot;Most Active Strategic Software Acquirers" are defined as diversified software vendors that have made 8+ acquisitions with a known acquired value >\$2.5Bn in the past 5 years



16

# Agenda

M&A Activity

### **Public Equity Market Valuations**

Equity Financing Activity



### LTM Relative Performance of Shea & Company Software Indices

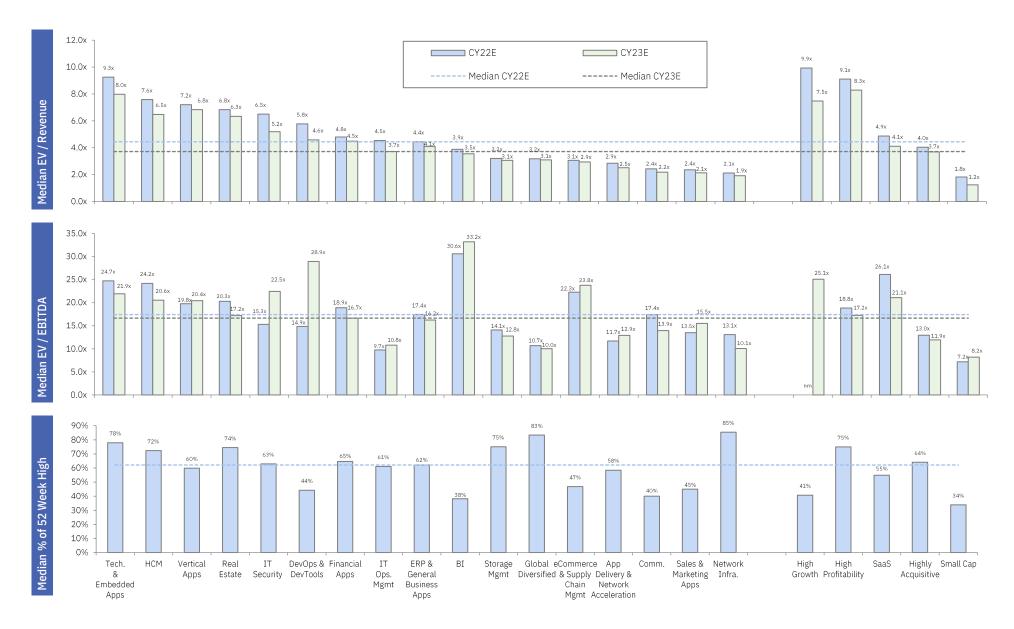


Note: EV / EBITDA multiples in excess of 50x or less than 0x and EV / Revenue in excess of 30x or less than 0x are considered not meaningful Sources: Company releases, Wall Street research

- [a] Large Cap Software includes: MSFT, ORCL, CSCO, INTC, IBM, SAP, HPE, MCRO
- [b] High Growth Software includes: ASPS, S, SNOW, GLBE, FOUR, DDOG, BILL, NET, CFLT, CRWD, MNDY, DCBO, ZS
- [c] High Profitability Software includes: RMV, VRSN, MSCI, NLOK, AZPN, PRGS, MSFT, BKI, ADBE, ORCL, FICO, TEMN, CHKP, ANSS, FIS, DSGX, PAYX, AKAM, FISV, CDNS, SWI, ZI, TNE, OLYS, PAYC, ROP
- [d] Small Cap Software includes: VERI, DHX, ASPS, BLZE, ASUR, SNCR
- [e] Highly Acquisitive Software includes: MSFT, GOOGL, CSCO, ORCL, ADBE, CRM, INTC, INTU, IBM, SAP, DSY, OTEX



### Price Performance and Valuation Metrics by Segment



Note: EV / EBITDA multiples in excess of 50x or less than 0x and EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful Sources: Company releases, Wall Street research

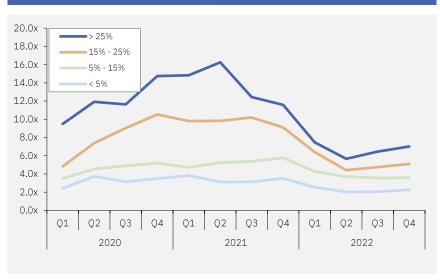


### **Equity Trading Multiples by Growth Tranche**

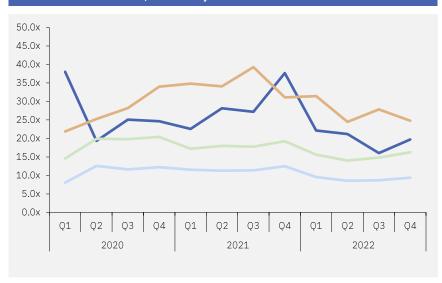
### Market Valuations of Publicly Traded Software Companies by Growth Tranche

			EV / Re	venue			EV / E	BITDA	
Revenue		Curren	t Year	Forwa	d Year	Curren	t Year	Forwa	d Year
Growth	Date	Mean	Median	Mean	Median	Mean	Median	Mean	Median
< 5%	Q4 2022 Q3 2022 Q2 2022 Q1 2022 Q4 2021 Q3 2021 Q1 2021 Q4 2020 Q3 2021 Q4 2020 Q3 2020 Q3 2020 Q1 2020	2.8 x 2.7 2.9 2.9 3.9 4.1 4.4 3.9 4.4 3.6 4.3 2.8	2.3 x 2.0 2.1 2.7 3.7 3.1 3.3 3.9 3.5 3.2 3.8 2.4	2.8 x 2.6 2.8 2.8 3.8 4.0 4.3 3.8 4.3 3.5 4.1 2.7	2.3 x 2.0 2.5 3.5 3.1 3.1 3.8 3.5 3.1 3.7 2.4	11.3 x 9.5 9.2 9.9 13.0 11.6 13.0 14.7 11.9 14.2 10.2	9.7 x 8.3 8.8 10.2 12.5 11.7 11.7 11.5 12.6 11.4 12.9 8.9	11.4 x 10.8 11.0 9.4 13.9 11.3 12.4 13.0 14.7 11.9 14.0 8.9	9.4 x 8.7 8.6 9.6 12.5 11.4 11.3 11.5 12.2 11.6 8.0
5% - 15%	Q4 2022 Q3 2022 Q2 2022 Q1 2022 Q4 2021 Q3 2021 Q2 2021 Q4 2020 Q3 2020 Q3 2020 Q2 2020 Q1 2020	5.1 x 4.8 5.0 6.4 8.2 7.5 7.3 6.6 7.2 6.5 6.3 4.6	4.0 x 4.0 4.1 4.8 6.2 5.8 5.2 5.6 5.3 5.0 3.8	4.7 x 4.4 4.5 5.8 7.4 6.8 6.6 6.0 6.6 5.9 5.7 4.2	3.6 x 3.6 3.7 4.3 5.8 5.4 5.2 4.7 5.2 4.9 4.5 3.5	19.7 x 17.8 16.5 20.0 23.5 21.3 22.7 21.8 23.4 23.4 23.1 22.7 17.8	18.0 x 16.1 16.0 17.2 21.7 19.6 21.0 19.8 22.3 22.0 22.3 17.0	18.4 x 15.5 14.5 17.9 21.7 20.0 20.0 19.6 21.8 20.4 20.3 16.2	16.3 x 14.8 14.0 15.6 19.2 17.8 18.0 17.2 20.4 19.9 14.6
15% - 25%	Q4 2022 Q3 2022 Q2 2022 Q1 2022 Q4 2021 Q3 2021 Q2 2021 Q4 2021 Q4 2020 Q4 2020 Q3 2020 Q3 2020 Q1 2020	6.2 x 6.1 5.8 7.6 10.9 13.0 12.9 12.2 10.2 9.5 7.1	6.1 x 5.7 5.2 7.8 11.0 12.4 11.7 11.8 11.7 9.2 8.2 5.7	5.2 x 5.1 4.9 6.3 9.0 10.8 11.4 10.7 11.3 9.6 8.6 5.9	5.1 x 4.8 4.4 6.4 9.1 10.2 9.8 9.8 10.5 9.0 7.4 4.8	30.0 x 29.6 27.2 30.9 32.6 35.4 34.8 33.0 33.3 34.7 31.1 27.0	28.3 x 32.5 27.9 29.2 31.6 42.8 33.7 32.6 32.7 36.0 30.0 25.7	26.7 x 27.4 23.4 28.4 31.4 33.0 32.4 34.3 35.3 31.0 28.3 23.1	24.8 x 27.8 24.5 31.4 31.1 39.3 34.1 34.8 34.0 28.2 25.3 21.9
> 25%	Q4 2022 Q3 2022 Q2 2022 Q1 2022 Q4 2021 Q3 2021 Q2 2021 Q4 2020 Q4 2020 Q3 2020 Q3 2020 Q1 2020	8.9 x 9.0 7.9 11.1 13.9 15.0 15.4 16.9 11.0 12.5 10.1 11.7	9.0 x 8.6 7.4 9.3 13.4 15.0 16.9 17.3 10.9 14.8 11.4 12.1	6.7 x 6.7 5.9 9.2 12.9 13.8 16.1 15.0 12.1 11.4 11.8 9.3	7.0 x 6.5 5.7 7.5 11.6 12.4 16.2 14.8 14.7 11.6 11.9 9.5	25.5 x 31.0 24.9 29.3 39.7 30.1 33.6 30.2 38.9 33.4 35.8 42.8	24.5 x 29.0 28.2 30.9 47.6 31.2 32.8 30.2 39.1 33.1 35.8 42.8	24.2 x 19.1 24.0 23.9 35.4 28.0 29.3 25.4 23.0 29.0 25.1 36.8	19.7 x 16.1 21.2 22.1 37.7 27.2 28.2 22.6 24.7 25.1 19.3 38.0

### Forward Year Median EV / Revenue by Growth Tranche



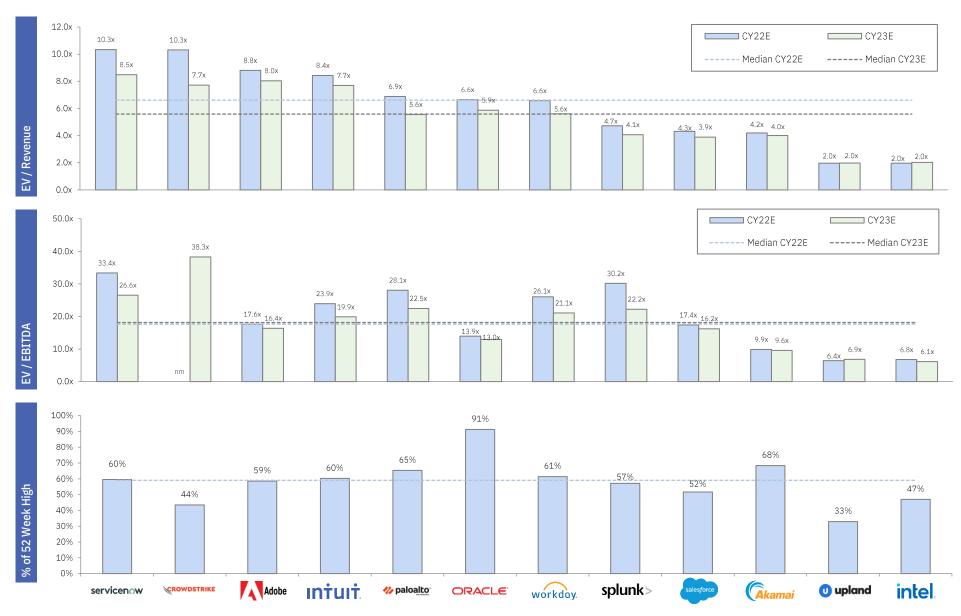
### Forward Year Median EV / EBITDA by Growth Tranche



Note: EV / EBITDA multiples in excess of 50x or less than 0x and EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful Sources: Company releases, Wall Street research



### Price Performance and Valuation Metrics of Selected Software Vendors



Note: EV / EBITDA multiples in excess of 50x or less than 0x and EV / Revenue in excess of 30x or less than 0x are considered not meaningful Sources: Company releases, Wall Street research



# **Equity Trading Multiples by Segment**

(\$ millions)																	
	Share Price	Market	Enterpris		Revenue [a]			venue [b]		EBIT	DA [a]		EV / EI	BITDA [c]		Iultiple [c]	Global Diversified
Company	(12/30/22)	Value	Valu	e CY22E	CY23E	<u>y/y</u>	CY22E	CY23E	CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	CY23E	Application Delive
Global Diversified																	Network Accelera
Microsoft	\$ 239.82	\$ 1,788,218	\$ 1,758,110		\$ 225,265	10%	8.6x	7.8x 5.9x	\$ 97,666	48%	\$109,779	49% 45%	18.0x 13.9x	16.0x	26.3x 16.8x	23.4x	Business Intellige
Oracle Cisco Systems	81.74 47.64	220,392 195,710	304,431 185,828		51,815 55,460	13% 5%	6.6x 3.5x	5.9x 3.4x	21,835 19,062	48% 36%	23,473 20,186	36%	9.7x	13.0x 9.2x	16.8x 13.9x	15.8x 12.9x	
IBM	140.89	127,382	171,710		60,500	0%	2.9x	2.8x	14,763	25%	15,718	26%	11.6x	10.9x	15.6x	14.7x	Communications
SAP	103.01	119,992	124,095		35,427	7%	3.8x	3.5x	10,378	31%	11,436	32%	12.0x	10.9x	21.8x	17.5x	(= 0 100
Intel	26.43	109,077	124,856	63,530	61,742	(3%)	2.0x	2.0x	18,448	29%	20,390	33%	6.8x	6.1x	13.5x	13.4x	DevOps and Softw Development Too
HP Enterprise	15.96	20,458	30,925	28,945	29,044	0%	1.1x	1.1x	5,310	18%	5,409	19%	5.8x	5.7x	7.9x	7.9x	
Micro Focus	6.38	2,062	5,586	2,553	2,462	(4%)	2.2x	2.3x	915	36%	909	37%	6.1x	6.1x	5.4x	5.7x	eCommerce & Su Chain Managemer
	Mean	\$ 322,911	\$ 338,193	\$ 61,449	\$ 65,214	4%	3.8x	3.6x	\$ 23,547	34%	\$ 25,912	35%	10.5x	9.7x	15.1x	13.9x	
	Median	123,687	148,283	49,398	53,638	3%	3.2x	3.1x	16,605	34%	17,952	35%	10.7x	10.0x	14.8x	14.0x	ERP & General Business Applicat
Application Delivery & Netv	work Acceleration																Financial Applicat
Akamai Technologies	\$ 84.30	\$ 13,256	\$ 15,056	\$ 3,592	\$ 3,752	4%	4.2x	4.0x	\$ 1,524	42%	\$ 1,574	42%	9.9x	9.6x	16.0x	15.0x	- manoiar rippinoar
F5 Networks	143.51	8,663	8,444		3,024	12%	3.1x	2.8x	846	31%	1,047	35%	10.0x	8.1x	14.9x	11.7x	Human Capital
A10 Networks	16.63	1,221	1,116		308	10%	4.0x	3.6x	72	26%	81	26%	15.5x	13.8x	24.0x	20.2x	Management
astly	8.19	990	1,107		493	15%	2.6x	2.2x	(40)	(9%)	(16)	(3%)	nm	nm	nm	nm	IT Operations
Radware	19.75	886	564		300	3%	1.9x	1.9x	42	14%	44	15%	13.4x	12.9x	29.0x	22.9x	Management
Edgio	1.13	250	317		450	24%	0.9x	0.7x	(9)	(2%)	20	4%	nm	15.6x	nm	nm	IT Security
	Mean Median	\$ 4,211 1,106	\$ 4,434 1,112		\$ 1,388 472	11% 11%	2.8x 2.9x	2.5x 2.5x	\$ 406 57	17% 20%	\$ 458 62	20% 20%	12.2x 11.7x	12.0x 12.9x	21.0x 20.0x	17.5x 17.6x	11 Security
		_,	_,														Network Infrastructure
Business Intelligence			<u> </u>														
Snowflake	\$ 143.54	\$ 46,162	\$ 41,543		\$ 3,026	48%	20.3x	13.7x		6%	\$ 236	8%	nm	nm	nm	nm	Real Estate
Palantir	6.42	13,355	11,131		2,305	21%	5.9x	4.8x	407	21%	514	22%	27.3x	21.6x	nm	38.6x	Sales & Marketing
JiPath nformatica	12.71 16.29	7,027 4,611	5,408 5,867		1,217 1,653	18% 9%	5.3x 3.9x	4.4x 3.5x	41 357	4% 24%	96 403	8% 24%	nm 16.5x	nm 14.6x	nm 21.3x	nm 19.5x	Applications
Alteryx	50.67	3,501	4,084		973	17%	4.9x	4.2x	337	4%	55	6%	nm	nm	nm	19.5X	
MicroStrategy	141.57	1,602	3,988		508	2%	8.0x	7.8x	93	19%	88	17%	42.8x	45.4x	nm	40.8x	Storage Managem
C3.ai	11.19	1,234	407		303	15%	1.5x	1.3x	(72)	(27%)	(80)	(26%)	nm	nm	nm	nm	Tanhaisal 0
UserTesting	0.00	1,103	953		230	19%	5.0x	4.2x	(38)	(20%)	(39)	(17%)	nm	nm	nm	nm	Technical & Embedded Apps
Sumo Logic	8.10	972	633	298	349	17%	2.1x	1.8x	(32)	(11%)	(31)	(9%)	nm	nm	nm	nm	
WalkMe	11.18	945	651	. 244	290	19%	2.7x	2.2x	(49)	(20%)	(30)	(10%)	nm	nm	nm	nm	Vertical Application
Domo	14.24	492	548		337	10%	1.8x	1.6x	(2)	(1%)	10	3%	nm	nm	nm	nm	<u></u>
eGain	9.03	289	220		108	11%	2.3x	2.0x	7	7%	n/a	n/a	33.9x	n/a	45.9x	37.6x	Software-as-a-Se
Veritone	5.30	192	196		164	9%	1.3x	1.2x	(13)	(9%)	4	3%	nm	44.8x	nm	nm	. `
	Mean	\$ 6,268	\$ 5,818 953		\$ 882 349	17% 17%	5.0x 3.9x	4.1x	\$ 66 7	(0%) 4%	\$ 102 32	2% 4%	30.1x 30.6x	31.6x 33.2x	33.6x	34.1x	Small Cap
	Median	1,234	953	306	349	1/%	3.9X	3.5x	7	4%	32	4%	3U.6X	33.2X	33.6x	38.1x	(
																	Highly Acquisitive
																	High Growth
																	High Profitability

Sources: Company releases, Wall Street research

[a] Wall Street consensus estimates

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

(\$ millions)																						
	Share Price		Market		Enterprise			Reve	enue [a]		EV / Re	venue [b]			EBITE	DA [a]		EV / E	BITDA [c]	P/EM	ultiple [c]	Global Diversified
Company	(12/30/22)		Value		Value	С	Y22E		CY23E_	y/y	CY22E	CY23E	_	CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	<u>CY23E</u>	
Communications																						Application Delive Network Accelera
Motorola Solutions	\$ 257.71	\$	43,090	\$	48,674	\$	8.942	\$	9.540	7%	5.4x	5.1x	\$	2.595	29%	\$ 2,866	30%	18.8x	17.0x	25.3x	23.0x	
Zoom	67.74	Ψ	19,802	Ψ	14,737	Ψ	4.376	Ψ	4,632	6%	3.4x	3.2x	Ψ	1.571	36%	1.465	32%	9.4x	10.1x	17.1x	18.7x	Business Intellig
Amdocs	90.90		10,982		11,034		4.650		4,954	7%	2.4x	2.2x		984	21%	1,063	21%	11.2x	10.4x	16.8x	15.0x	
Γwilio	48.96		9,025		6,070		3,802		4,442	17%	1.6x	1.4x		232	6%	370	8%	26.2x	16.4x	nm	nm	Communications
ive9	67.86		4,784		4,996		775		901	16%	6.4x	5.5x		134	17%	162	18%	37.2x	30.8x	49.6x	43.3x	
RingCentral	35.40		3,399		4,970		1,991		2,338	17%	2.5x	2.1x		309	16%	433	19%	16.1x	11.5x	17.9x	12.6x	DevOps and Soft
erint Systems	36.28		2,390		3,020		902		949	5%	3.3x	3.2x		239	26%	269	28%	12.7x	11.2x	14.5x	13.4x	Development To
verbridge	29.58		1,181		1,520		431		458	6%	3.5x	3.3x		41	9%	84	18%	37.2x	18.1×	50.3x	22.5x	eCommerce & Su
Bandwidth	22.95		581		921		563		616	9%	1.6x	1.5x		33	6%	38	6%	27.7x	24.5x	61.5x	43.1x	Chain Manageme
Veave Communications	4.58		300		256		141		164	16%	1.8x	1.6x		(29)	(21%)	(20)	(12%)	nm	nm	nm	nm	ERP & General
Kaltura	1.72		229		195		168		177	5%	1.2x	1.1x		(30)	(18%)	(10)	(6%)	nm	nm	nm	nm	Business Applica
Synchronoss Technologies	0.62		53		282		256		258	1%	1.1×	1.1×		51	20%	53	21%	5.5x	5.3x	3.1x	4.8x	
yriciiioiloss reciiilotogics		ф		ф		Φ.		Φ.					Φ.									Financial Applica
	Mean	\$	7,985	\$	8,056	\$	2,250	\$	2,452	9%	2.9x	2.6x	\$		12%	\$ 564	15%	20.2x	15.5x	28.5x	21.8x	
	Median		2,894		3,995		839		925	7%	2.4x	2.2x		183	16%	216	18%	17.4x	13.9x	17.9x	18.7x	Human Capital Management
evOps and Software Develop																						IT Operations
tlassian	\$ 128.68	\$	32,880	\$	32,648	\$	3,158	\$	3,857	22%	10.3x	8.5x	\$		18%	\$ 679	18%	nm	48.1x	92.5x	82.2x	Management
atadog	73.50		23,341		22,411		1,655		2,218	34%	13.5x	10.1x		334	20%	416	19%	nm	nm	81.0x	64.0x	
1ongoDB	196.84		13,638		13,086		1,260		1,579	25%	10.4x	8.3x		48	4%	73	5%	nm	nm	nm	nm	IT Security
ynatrace	38.30		11,025		10,743		1,084		1,271	17%	9.9x	8.4x		279	26%	345	27%	38.5x	31.1x	48.9x	42.3x	
itLab	45.44		6,800		5,924		421		593	41%	14.1x	10.0x		(80)	(19%)	(85)	(14%)	nm	nm	nm	nm	Network Infrastructure
Confluent	22.24		6,370		5,548		580		767	32%	9.6x	7.2x		(177)	(30%)	(146)	(19%)	nm	nm	nm	nm	Illiastructure
HashiCorp	27.34		5,139		3,880		464		593	28%	8.4x	6.5x		(146)	(32%)	(147)	(25%)	nm	nm	nm	nm	Real Estate
lew Relic	56.45		3,858		3,596		882		1,021	16%	4.1x	3.5x		52	6%	99	10%	nm	36.4x	nm	85.8x	Tical Estate
sana	13.77		2,930		2,643		542		652	20%	4.9x	4.1x		(245)	(45%)	(202)	(31%)	nm	nm	nm	nm	Sales & Marketin
egasystems	34.24		2,814		3,220		1,262		1,401	11%	2.6x	2.3x		19	1%	111	8%	nm	28.9x	nm	49.7x	Applications
DigitalOcean	25.47		2,453		3,097		574		741	29%	5.4x	4.2x		199	35%	251	34%	15.6x	12.4x	31.1x	21.9x	
Appian	32.56		2,362		2,330		465		534	15%	5.0x	4.4x		(77)	(17%)	(72)	(13%)	nm	nm	nm	nm	Storage Manager
Progress Software	50.45		2,169		2,591		613		630	3%	4.2x	4.1x		214	35%	220	35%	12.1x	11.8x	12.3x	11.6x	
lfrog	21.33		2,139		1,728		281		359	28%	6.2x	4.8x		11	4%	24	7%	nm	nm	nm	nm	Technical &
Couchbase	13.26		599		429		151		176	16%	2.8x	2.4x		(43)	(29%)	(43)	(24%)	nm	nm	nm	nm	Embedded Apps
Axway Software	17.79		372		469		306		315	3%	1.5x	1.5x		33	11%	38	12%	14.2x	12.5x	20.5x	16.4x	Vertical April
	Mean	\$	7,431	\$	7,146	\$	856	\$	1,044	21%	7.1x	5.6x	\$	63	(1%)	\$ 98	3%	20.1x	25.9x	47.7x	46.8x	Vertical Applicat
	Median	Ψ	3,394	Ψ	3,408	Ψ	577	Ψ	697	21%	5.8x	4.6x	Ψ	26	4%	55	7%	14.9x	28.9x	40.0x	46.0x	Software-as-a-Se
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Sources: Company releases, Wall Street research

[a] Wall Street consensus estimates

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

### Public Equity Market Valuations

# Equity Trading Multiples by Segment continued

(\$ millions)																				
	Share Price	Market	Enterprise		Rev	enue [a]		EV / Re	venue [b	]		EBIT	DA [a	a]		EV / E	BITDA [c]	P/EM	Iultiple [c]	Global Diversified
Company	(12/30/22)	 Value	 Value	CY22E		CY23E	у/у	CY22E	CY23E		CY22E	mgn		CY23E	mgn	CY22E	CY23E	CY22E	CY23E	
eCommerce & Supply Chain	Management																			Application Deliver Network Acceleration
Shopify	\$ 34.71	\$ 44,154	\$ 40,512	\$ 5,509	\$	6,683	21%	7.4x	6.1x	\$	(52)	(1%)	\$	57	1%	nm	nm	nm	nm	Business Intelligen
Manhattan Associates	121.40	7,575	7,402	752		814	8%	9.8x	9.1x		199	26%		216	26%	37.2x	34.3x	49.6x	46.8x	business Intelligen
escartes Systems	69.65	5,915	5,684	485		532	10%	11.7x	10.7x		215	44%		239	45%	26.5x	23.8x	59.0x	49.9x	
PS Commerce	128.43	4,629	4,410	450		524	17%	9.8x	8.4x		130	29%		153	29%	33.8x	28.9x	57.2x	52.1x	Communications
lobal-e	20.64	3,230	3,058	408		565	38%	7.5x	5.4x		45	11%		65	12%	nm	46.8x	nm	62.1x	DevOps and Softwa
verCommerce	7.44	1,437	1,886	617		693	12%	3.1x	2.7x		117	19%		139	20%	16.1x	13.5x	20.2x	18.1x	Development Tools
iskified	4.62	782	339	259		306	18%	1.3x	1.1x		(45)	(17%)		(32)	(10%)	nm	nm	nm	nm	
TEX	3.75	714	480	159		198	24%	3.0x	2.4x		(44)	(28%)		(8)	(4%)	nm	nm	nm	nm	eCommerce & Sup Chain Managemen
ligCommerce	8.74	644	688	280		322	15%	2.5x	2.1x		(49)	(18%)		(18)	(6%)	nm	nm	nm	nm	Chain Management
merican Software	14.68	495	389	129		132	3%	3.0x	2.9x		21	17%		22	17%	18.1x	17.4x	35.4x	30.9x	ERP & General
	Mean	\$ 6,958	\$ 6,485	\$ 905	\$	1,077	17%	5.9x	5.1x	\$	54	8%	\$	83	13%	26.3x	27.5x	44.3x	43.3x	Business Applicatio
	Median	2,333	2,472	429		528	16%	5.2x	4.2x		33	14%		61	14%	26.5x	26.3x	49.6x	48.3x	Financial Application
RP & General Business App	olications																			Human Capital
alesforce.com	\$ 132.59	\$ 131,397	\$ 134,123	\$ 31,053	\$	34,468	11%	4.3x	3.9x	\$	7,715	25%	\$	8,260	24%	17.4x	16.2x	26.9x	23.3x	Management
onstellation Software	1,561.94	33,100	34,679	6,560		7,656	17%	5.3x	4.5x		1,675	26%		2,010	26%	20.7x	17.2x	32.0x	27.1x	
ocuSign	55.42	11,144	11,006	2,497		2,694	8%	4.4x	4.1x		559	22%		611	23%	19.7x	18.0x	28.7x	25.8x	IT Operations Management
age Group	8.98	9,161	10,044	2,391		2,627	10%	4.2x	3.8x		576	24%		627	24%	17.4x	16.0x	27.6x	25.3x	rianagement
ualtrics	10.38	6,132	5,675	1,449		1,697	17%	3.9x	3.3x		115	8%		156	9%	49.3x	36.4x	nm	nm	IT Security
londay.com	122.00	5,500	4,732	510		663	30%	9.3x	7.1x		(74)	(15%)		(63)	(10%)	nm	nm	nm	nm	
martsheet	39.36	5,169	4,805	761		963	27%	6.3x	5.0x		(21)	(3%)		7	1%	nm	nm	nm	nm	Network
/orkiva	83.97	4,412	4,353	533		621	16%	8.2x	7.0x		(17)	(3%)		7	1%	nm	nm	nm	nm	Infrastructure
2 Global	79.10	3,733	4,116	1,395		1,442	3%	3.0x	2.9x		506	36%		532	37%	8.1x	7.7×	11.7x	11.1x	5 15
learwater Analytics	18.75	3,550	3,397	301		361	20%	11.3x	9.4x		80	26%		101	28%	42.6x	33.7x	83.4x	64.8x	Real Estate
echnologyOne	8.93	2,896	2,801	244		291	19%	11.5x	9.6x		99	41%		126	43%	28.2x	22.2x	50.2x	41.6x	Sales & Marketing
vidXchange	9.94	1,975	1,664	315		374	19%	5.3x	4.4x		(21)	(7%)		(11)	(3%)	nm	nm	nm	nm	Applications
nghouse Systems	26.58	1,468	1,315	315		337	7%	4.2x	3.9x		102	32%		111	33%	12.9x	11.8x	20.9x	22.5x	утрриосионо
ROS	24.26	1,100	1,219	274		302	10%	4.4x	4.0x		(23)	(8%)		(17)	(6%)	nm	nm	nm	nm	Storage Manageme
ocebo	33.06	1,088	875	143		186	30%	6.1x	4.7x		0	0%		13	7%	nm	nm	nm	nm	
ackspace Technology	2.95	623	4,306	3,112		3,052	(2%)	1.4x	1.4x		583	19%		459	15%	7.4x	9.4x	5.5x	34.2x	Technical &
pland Software	7.13	227	621	315		314	(0%)	2.0x	2.0x		97	31%		91	29%	6.4x	6.9x	3.9x	5.1x	Embedded Apps
	Mean	\$ 13,098	\$ 	\$ 3,069	\$		14%	5.6x	4.8x			15%	\$	766	17%	20.9x	17.8x	29.1x	28.1x	Vertical Application
	Median	3,733	4,306	533		663	16%	4.4x	4.1x		99	22%		111	23%	17.4x	16.2x	27.2x	25.5x	
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<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

	Share Price		Market	Enterprise		Revenue [a]		EV / Roy	venue [b]		EBITI	λ [a]		E\/ / E	BITDA [c]	P/FM	ultiple [c]	Clabat Bi
Company	(12/30/22)		Value	Value	CY22E	CY23E	у/у	CY22E	CY23E	CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	CY23E	Global Divers
																		Application De
inancial Applications																		Network Acce
ntuit	\$ 389.22	\$ :	109,342	\$ 114,219	\$ 13,551	\$ 14,833	9%	8.4x	7.7x	\$ 4,775	35%	\$ 5,742	39%	23.9x	19.9x	32.8x	26.7x	Business Inte
iserv	101.07		64,182	83,006	16,758	17,946	7%	5.0x	4.6x	7,234	43%	7,785	43%	11.5x	10.7x	15.6x	13.8x	Dadiniood Inc.
IS	67.85		40,261	57,432	14,531	15,139	4%	4.0x	3.8x	6,248	43%	6,586	44%	9.2x	8.7x	10.2x	10.0x	Communicati
SCI	465.17		37,194	40,999	2,240	2,442	9%	18.3x	16.8x	1,323	59%	1,453	59%	31.0x	28.2x	41.0x	36.9x	Communicati
air Isaac	598.58		14,950	16,729	1,402	1,519	8%	11.9x	11.0x	671	48%	775	51%	24.9x	21.6x	33.6x	29.1x	DevOps and S
S&C Technologies	52.06		13,114	20,232	5,284	5,472	4%	3.8x	3.7x	2,001	38%	2,150	39%	10.1x	9.4x	11.1x	10.4x	Development
ack Henry	175.56		12,807	13,071	2,007	2,172	8%	6.5x	6.0x	648	32%	701	32%	20.2x	18.6x	36.2x	34.1x	oCommoroo :
ll.com	108.96		11,514	10,739	841	1,145	36%	12.8x	9.4x	25	3%	86	7%	nm	nm	nm	nm	eCommerce 8 Chain Manage
ero	47.76		7,170	7,239	785	1,027	31%	9.2x	7.0x	170	22%	225	22%	42.5x	32.2x	nm	nm	
ackLine	67.27		4,021	4,400	522	611	17%	8.4x	7.2x	57	11%	67	11%	nm	nm	nm	nm	ERP & Genera Business App
emenos Group	54.87		3,938	4,786	958	1,013	6%	5.0x	4.7x	377	39%	406	40%	12.7x	11.8x	19.3x	17.8x	Dusiness App
nvestnet	61.70		3,414	4,146	1,243	1,311	5%	3.3x	3.2x	219	18%	255	19%	18.9x	16.3x	33.3x	29.1x	Financial App
hift4 Payments	55.93		3,167	4,373	2,000	2,730	37%	2.2x	1.6x	277	14%	368	13%	15.8x	11.9x	42.0x	27.2x	· manoiat / ipp
imCorp	68.71		2,698	2,709	584	622	7%	4.6x	4.4x	134	23%	159	26%	20.1x	17.0x	26.2x	23.5x	Human Capit
ertex	14.51		2,177	2,174	487	546	12%	4.5x	4.0x	75	16%	92	17%	28.8x	23.6x	49.7x	40.2x	Management
2 Holdings	26.87		1,545	1,883	569	647	14%	3.3x	2.9x	40	7%	59	9%	46.8x	31.8x	85.0x	46.2x	IT Operations
odel N	40.56		1,515	1,474	225	251	11%	6.5x	5.9x	34	15%	41	17%	43.4x	35.6x	51.6x	42.4x	Management
sseco Poland	16.58		1,376	2,499	3,925	4,239	8%	0.6x	0.6x	582	15%	605	14%	4.3x	4.1x	12.1x	11.7x	
kami Technology	14.59		1,335	1,210	204	257	26%	5.9x	4.7x	(18)	(9%)	(5)	(2%)	nm	nm	nm	nm	IT Security
RESS	6.49		1,180	1,434	421	439	4%	3.4x	3.3x	93	22%	104	24%	15.4x	13.8x	25.5x	21.9x	
iora	6.36		849	705	393	432	10%	1.8x	1.6x	(4)	(1%)	22	5%	nm	32.2x	nm	72.3x	Network
rpensify	8.83		725	687	171	196	14%	4.0x	3.5x	42 158	25%	50	26% 19%	16.4x	13.7x	32.2x	28.2x	Infrastructure
pix	19.96		617	1,214	1,021	968	(5%)	1.2x	1.3x		16%	181		7.7x	6.7x	8.2x	7.9x	Real Estate
	Mean	\$	14,743	\$ 17,277	\$ 3,049	\$ 3,302	12%	5.9x	5.2x	\$ 1,094	23%	\$ 1,213	25%	21.2x	18.4x	31.4x	27.9x	Tiodi Zoldio
	Median		3,414	4,373	958	1,027	9%	4.6x	4.4x	170	22%	225	22%	18.9x	16.7x	32.5x	27.2x	Sales & Marke
0 11111																		Applications
uman Capital Management	d 220.07	Φ.	00.006	¢ 101.440	¢ 17.040	f 10.2EE	6.07	E 0	E Ev	d 4.500	2404	\$ 5.069	28%	22.4x	20.0x	31.8x	20.40	
utomatic Data Processing	\$ 238.86	\$	99,086 43,006	\$ 101,448	\$ 17,240	\$ 18,355	6% 17%	5.9x 6.6x	5.5x 5.6x	\$ 4,538 1,565	26% 25%	\$ 5,069 1,932	27%	26.1x	20.0x 21.1x	47.3x	28.1x 35.8x	Storage Mana
orkday ychex	167.33 115.56		41,656	40,776 41,268	6,203 4,802	7,272 5,124	7%	8.6x	8.1x	2,097	25% 44%	2,290	45%	26.1x 19.7x	18.0x	47.3x 29.2x	35.6x 26.4x	Technical &
lycom Software	310.31		17,957	17,668	1,372	1,686	23%	12.9x	10.5x	2,097 561	44%	2,290 696	41%	31.5x	25.4x	52.5x	42.1x	Embedded A
•	194.26		10,815	10,825	988	1,000	26%	11.0x	8.7x	277	28%	377	30%	39.1x	28.7x	52.5x 52.1x	44.0x	
aylocity eridian HCM	64.15		9.853	10,705	1,235	1,243	17%	8.7x	7.4x	236	19%	297	21%	45.3x	36.0x	95.5x	67.1x	Vertical Appli
aycor	24.47		4,303	4,235	479	576	20%	8.8x	7.4x	107	22%	158	27%	39.4x	26.8x	93.5x	71.6x	
HI Group	5.29		238	272	149	173	16%	1.8x	1.6x	31	21%	37	21%	8.9x	7.4x	93.3X nm	46.7x	Software-as-
ure Software	9.34		230 188	2/2	90	100	10%	2.4x	2.2x	11	12%	15	15%	0.9x 20.7x	15.2x	nm	32.4x	\
are serimare		Φ.																Small Cap
	Mean	\$	25,234	\$ 25,269	\$ 3,618	\$ 3,997	16%	7.4x	6.3x	\$ 1,047	26%	\$ 1,208	28%	28.1x	22.1x	57.4x	43.8x	\
	Median		10,815	10,825	1,235	1,449	17%	8.6x	7.4x	277	25%	377	27%	26.1x	21.1x	52.1x	42.1x	Highly Acquis
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<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

(\$ millions)																						
	Share Price		Market		Enterprise			Reve	enue [a]		EV / Re	venue [b]			EBITI	DA [a]		EV / E	BITDA [c]	P/EM	ultiple [c]	Global Diversified
Company	(12/30/22)		Value		Value		CY22E	_	CY23E	у/у	CY22E	CY23E		CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	CY23E	
IT Occuptions Management																						Application Delive Network Accelerat
IT Operations Management ServiceNow	\$ 388.27	\$	78,281	\$	74,933	\$	7,247	\$	8,831	22%	10.3x	8.5x	\$	2,246	31%	\$ 2,822	32%	33.4x	26.6x	52.9x	42.6x	
Splunk	86.09	Ψ	14,093	Ψ	16,407	Ψ	3,475	Ψ	4,031	16%	4.7x	4.1x	4	544	16%	738	18%	30.2x	22.2x	46.7x	34.7x	Business Intellige
OpenText	29.64		7,903		10,673		3,514		3,650	4%	3.0x	2.9x		1,226	35%	1,337	37%	8.7x	8.0x	9.7x	9.1x	
Samsara	12.43		6,450		5,839		637		819	29%	9.2x	7.1x		(79)	(12%)	(76)	(9%)	nm	nm	nm	nm	Communications
Elastic	51.50		4,924		4,666		1,027		1,257	22%	4.5x	3.7x		22	2%	112	9%	nm	41.8x	nm	85.5x	
Jamf	21.30		2,586		2.752		478		577	21%	5.8x	4.8x		31	6%	n/a	n/a	nm	n/a	nm	84.9x	DevOps and Softv
PagerDuty	26.56		2,390		2,235		369		453	23%	6.1x	4.9x		17	5%	29	6%	nm	nm	nm	nm	Development Too
Netscout Systems	32.51		2,349		2,241		870		920	6%	2.6x	2.4x		n/a	n/a	208	23%	n/a	10.8x	17.9x	16.3x	eCommerce & Su
SolarWinds	9.36		1,513		2,682		713		736	3%	3.8x	3.6x		275	39%	299	41%	9.7x	9.0x	11.0x	10.0x	Chain Manageme
Magic Software	16.02		787		821		563		612	9%	1.5x	1.3x		n/a	n/a	n/a	n/a	n/a	n/a	15.6x	13.9x	ERP & General
Comarch	37.45		305		258		430		457	6%	0.6x	0.6x		62	14%	58	13%	4.2x	4.4x	13.3x	12.6x	Business Applicat
	Mean	\$	11,053	\$	11,228	\$	1,756	\$	2,031	15%	4.7x	4.0x	\$	483	15%	\$ 614	19%	17.2x	17.5x	23.9x	34.4x	
	Median	Ψ	2,586	Ψ	2,752	Ψ	713	Ψ	819	16%	4.5x	3.7x	Ψ	62	14%	208	18%	9.7x	10.8x	15.6x	16.3x	Financial Applicat
IT Security	riodian		2,000		2,702		, 10		01,	1070	1101	O.FX		02	1170	200	1070	7177	20.0x	10.0%	20.0%	Human Capital Management
Palo Alto Networks	\$ 139.54	\$	42,191	\$	42,349	\$	6.149	\$	7,620	24%	6.9x	5.6x	\$	1,509	25%	\$ 1.886	25%	28.1x	22.5x	46.5x	38.1x	rianagement
Fortinet	48.89	*	38.195	*	37.466	*	4.430	*	5.370	21%	8.5x	7.0x	*	1,262	28%	1,549	29%	29.7x	24.2x	42.4x	35.3x	IT Operations
Crowdstrike	105.29		24,679		23,005		2,231		2,979	34%	10.3x	7.7x		439	20%	601	20%	nm	38.3x	70.2x	52.7x	Management
Verisign	205.44		21,780		22,589		1,422		1,542	8%	15.9x	14.6x		1,017	72%	1,120	73%	22.2x	20.2x	33.4x	28.7x	IT Security
Zscaler	111.90		16,137		15,532		1,326		1,740	31%	11.7×	8.9x		196	15%	283	16%	nm	nm	nm	78.6x	11 Security
Check Point	126.16		15,822		12,275		2,328		2,444	5%	5.3x	5.0x		1,059	45%	1,098	45%	11.6x	11.2x	17.2x	15.5x	Network
Cloudflare	45.21		14,857		14,788		975		1,319	35%	15.2x	11.2x		132	14%	179	14%	nm	nm	nm	nm	Infrastructure
NortonLifeLock	21.22		14.263		23,291		3.104		3,904	26%	7.5x	6.0x		1.756	57%	1.903	49%	13.3x	12.2x	nm	nm	
Okta	68.33		10,945		10,852		1,836		2,172	18%	5.9x	5.0x		(12)	(1%)	83	4%	nm	nm	nm	nm	Real Estate
Trend Micro	46.56		6,477		4,601		1,689		1,850	10%	2.7x	2.5x		435	26%	467	25%	10.6x	9.9x	26.3x	28.3x	
CyberArk	129.65		5,279		4,661		597		729	22%	7.8x	6.4x		(5)	(1%)	20	3%	nm	nm	nm	nm	Sales & Marketing Applications
Tenable	38.15		4,292		4,169		680		818	20%	6.1x	5.1x		83	12%	108	13%	nm	38.6x	nm	73.1x	Applications
Qualys	112.23		4,263		3,847		489		567	16%	7.9x	6.8x		217	44%	234	41%	17.7x	16.5x	31.0x	27.8x	Storage Managem
SailPoint	1.00		4,125		7.864		12,402		12,302	(1%)	0.6x	0.6x		1,424	11%	1,370	11%	5.5x	5.7x	6.5x	7.8x	Storage Hariagen
SentinelOne	14.59		4,124		3,451		420		652	55%	8.2x	5.3x		(200)	(48%)	(139)	(21%)	nm	nm	nm	nm	Technical &
Varonis Systems	23.94		2,639		2,165		472		527	12%	4.6x	4.1x		39	8%	52	10%	nm	41.8x	nm	90.6x	Embedded Apps
Rapid7	33.98		2,013		2,678		680		795	17%	3.9x	3.4x		44	7%	63	8%	nm	42.3x	nm	65.5x	
ForgeRock	22.77		1,944		1,652		212		265	25%	7.8x	6.2x		(31)	(15%)	(6)	(2%)	nm	nm	nm	nm	Vertical Application
Blackberry	3.26		1,891		1,916		688		673	(2%)	2.8x	2.8x		(46)	(7%)	(67)	(10%)	nm	nm	nm	nm	(
Secureworks	6.39		541		415		457		436	(5%)	0.9x	1.0x		(62)	(14%)	(76)	(18%)	nm	nm	nm	nm	Software-as-a-Se
OneSpan	11.19		444		361		216		229	6%	1.7x	1.6x		2	1%	1	1%	nm	nm	nm	nm	,=======
Telos	5.09		342		231		214		186	(13%)	1.1×	1.2x		15	7%	6	3%	15.3x	36.0x	41.3x	nm	Small Cap
WithSecure Oyj	1.47		256		190		144		164	14%	1.3x	1.2x		(25)	(17%)	(9)	(6%)	nm	nm	nm	nm	
	Mean Median	\$	10,326 4,786	\$	10,916 4,631	\$	1,955 831	\$	2,233 1,068	17% 18%	6.5x 6.5x	5.4x 5.2x	\$	421 107	14% 12%	\$ 488 144	15% 12%	17.1x 15.3x	24.6x 22.5x	35.0x 33.4x	45.2x 36.7x	Highly Acquisitive
	riedian		4,/00		4,031		031		1,000	10%	U.5X	S.ZX		107	1270	144	12%	13.3X	22.5X	33.4X	30.7X	High Growth
																						High Profitability

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

	Share Price		Market		Entorpole			Derr	- [a] aug		EV / D	onus [h]			EBITI	D V [*]	1		EV / EE	BITDA [c]	D/E **	lultiple [s]	C
Company	(12/30/22)		Value		Enterprise Value		CY22E		enue [a] CY23E	y/y	CY22E	venue [b] CY23E		CY22E	mgn		Y23E	mgn	CY22E	CY23E	CY22E	lultiple [c] CY23E	Global Diversified
отпрану	(12/30/22)		value	_	value		J122L	_	CIZUL	<u> </u>	CIZZE	CIZSE	_	CIZZL	IIIgii		71236		CIZZL	CIZSE	OTZZL	01232	Application Delive
letwork Infrastructure																							Network Accelera
uniper Networks	\$ 31.96	\$	10,373	\$	11,127	\$	5,328	\$	5,730	8%	2.1x	1.9x	\$	1,059	20%	\$	1,164	20%	10.5x	9.6x	16.4x	14.1x	Business Intellige
xtreme Networks	18.31		2,405		2,517		1,166		1,325	14%	2.2x	1.9x		161	14%		238	18%	15.7x	10.6x	23.0x	15.1x	Dusiness Intellige
	Mean	\$	6,389	\$	6,822	\$	3,247	\$	3,527	11%	2.1x	1.9x	\$	610	17%	\$	701	19%	13.1x	10.1x	19.7x	14.6x	Camanusiantiana
	Median		6,389		6,822		3,247		3,527	11%	2.1x	1.9x		610	17%		701	19%	13.1x	10.1x	19.7x	14.6x	Communications
																							DevOps and Soft
eal Estate Applications	A 55.00		04.400		05.5(0		0.470		0.500	4.50/	40.5				240/		8/8	040/	44.5	0.4.0		50 A	Development To
oStar	\$ 77.28	\$	31,429	\$	27,762	\$	2,178	\$	2,500	15%	12.7x	11.1x	\$	665	31%	\$	767	31%	41.7x	36.2x	62.0x	52.4x	eCommerce & Su
entley Systems	36.96		11,455		13,208		1,095		1,206	10%	12.1x	11.0x		364	33%		414	34%	36.3x	31.9x	44.2x	41.8x	Chain Manageme
lack Knight	61.75		9,539		12,276		1,569		1,658	6%	7.8x	7.4x		755	48%		815	49%	16.3x	15.1x	25.2x	23.8x	ERP & General
illow	31.21		7,593		5,979		6,164		1,858	(70%)	1.0x	3.2x		575	9%		447 290	24%	10.4x	13.4x	21.5x	27.9x	Business Applica
emetschek	50.97		5,887		5,853		857		924	8%	6.8x	6.3x		281	33%			31%	20.8x	20.2x	31.0x	30.5x	С в поможения в по
ppFolio	105.38		3,705		3,623		465		567	22%	7.8x	6.4x		18	4%		33	6%	nm	nm	nm	nm	Financial Applica
ltus Group	39.93		1,787		2,038		545		576	6%	3.7x	3.5x		100	18%		105	18%	20.3x	19.4x	27.7x	26.8x	
1eridianLink	13.73		1,111		1,425		285		309	9%	5.0x	4.6x		109	38%		115	37%	13.1x	12.4x	41.7x	42.3x	Human Capital
ltisource	9.46		153		341		159		274	72%	2.1x	1.2x		(19)	(12%)		38	14%	nm	8.9x	nm	12.3x	Management
	Mean	\$	8,073	\$	8,056	\$	1,480	\$	1,097	9%	6.6x	6.1x	\$	317	23%	\$	336	27%	22.7x	19.7x	36.2x	32.2x	IT Operations
	Median		5,887		5,853		857		924	9%	6.8x	6.3x		281	31%		290	31%	20.3x	17.2x	31.0x	29.2x	Management
ales & Marketing Application:	•																						IT Security
dobe	\$ 336.53	\$	156,453	\$	154,990	\$	17.611	\$	19,269	9%	8.8x	8.0x	\$	8.795	50%	\$	9.459	49%	17.6x	16.4x	24.7x	22.0x	11 Security
ubspot	289.13	Ψ	14,045	Ψ	13,497	Ψ	1,707	Ψ	2,063	21%	7.9x	6.5x	Ψ	211	12%	Ψ	251	12%	nm	nm	nm	nm	Network
oomInfo Technologies	30.11		12,154		13,011		1.097		1,342	22%	11.9x	9.7x		462	42%		577	43%	28.2x	22.5x	35.7x	30.8x	Infrastructure
reshworks	14.71		4,235		3,114		495		601	21%	6.3x	5.2x		(20)	(4%)		(9)	(1%)	nm	nm	nm	nm	
ppLovin	10.53		3.914		6,256		2,817		2,848	1%	2.2x	2.2x		1,060	38%		1,101	39%	5.9x	5.7x	nm	32.1x	Real Estate
oubleVerify	21.96		3,621		3,462		452		559	24%	7.7x	6.2x		139	31%		171	31%	25.0x	20.2x	39.2x	36.6x	
eradata	33.66		3,427		3,549		1,780		1,810	2%	2.0x	2.0x		418	23%		447	25%	8.5x	7.9x	21.0x	17.8x	Sales & Marketin Applications
orout Social	56.46		3,096		2,937		254		329	29%	11.6x	8.9x		(2)	(1%)		3	1%	nm	nm	nm	nm	Applications
ngageSmart	17.60		2.912		2,652		302		381	26%	8.8x	7.0x		47	16%		61	16%	nm	43.8x	68.1x	69.3x	Storage Manager
orinklr	8.17		2,133		1,603		616		710	15%	2.6x	2.3x		10	2%		45	6%	nm	36.0x	nm	83.5x	Crorage rialiage
mplitude	12.08		1.367		1.072		237		299	26%	4.5x	3.6x		(22)	(9%)		(21)	(7%)	nm	nm	nm	nm	Technical &
lomentive	7.00		1.041		1,082		480		520	8%	2.3x	2.1x		55	11%		86	17%	19.7x	12.6x	50.0x	20.5x	Embedded Apps
ext	6.53		797		755		399		416	4%	1.9x	1.8x		13	3%		36	9%	nm	21.0x	nm	50.2x	
vePerson	10.14		764		1,115		519		551	6%	2.1x	2.0x		5	1%		72	13%	nm	15.5x	nm	31.3x	Vertical Applicat
ubMatic	12.81		673		535		259		283	9%	2.1x	1.9x		99	38%		90	32%	5.4x	6.0x	23.6x	32.1x	(
milarWeb	6.43		489		474		193		235	22%	2.5x	2.0x		(60)	(31%)		(33)	(14%)	nm	nm	nm	nm	Software-as-a-S
ediaAlpha	9.95		429		524		449		567	26%	1.2x	0.9x		20	4%		33	6%	26.5x	15.7x	38.1x	23.8x	>=======
V24	8.63		415		83		191		191	0%	0.4x	0.4x		(16)	(8%)		(2)	(1%)	nm	nm	nm	nm	Small Cap
tdigital	1.00		298		248		79		85	8%	3.2x	2.9x		27	34%		28	33%	9.4x	8.9x	20.1x	20.0x	\
ardlytics	5.78		192		290		300		321	7%	1.0x	0.9x		(44)	(15%)		(0)	(0%)	nm	nm	nm	nm	Highly Acquisitiv
utbrain	3.62		190		97		985		1,008	2%	0.1x	0.1x		24	2%		26	3%	4.0x	3.8x	nm	nm	
ant	4.02		58		90		197		203	3%	0.5x	0.4x		(9)	(4%)		7	4%	nm	12.7x	nm	nm	(
	Mean	\$	9,668	\$	9,611	\$	1,428	\$	1,572	13%	4.2x	3.5x	\$	510	11%	\$	565	14%	15.0x	16.6x	35.6x	36.2x	High Growth

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

### Public Equity Market Valuations

# Equity Trading Multiples by Segment continued

	Share Price	Mar	et	Enterprise			Reve	enue [a]		EV / Re	venue [b]			EBITO	)A [a]		EV / E	BITDA [c]	P/EM	ultiple [c]	Global Diversified
Company	(12/30/22)	Va		Value	(	CY22E		CY23E	у/у	CY22E	CY23E		CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	CY23E	Global Diversified
•																					Application Deliver Network Accelerat
itorage Management																					Network Accelerat
VetApp	\$ 60.06	\$ 12,94			\$	6,550	\$	6,583	1%	1.9x	1.9x	\$	,	25%	\$ 1,709		7.6x	7.4x	11.1x	10.7x	Business Intelliger
Pure Storage	26.76 22.38	8,09		7,384		2,754		3,129	14% 6%	2.7x 3.8x	2.4x 3.5x		524	19% 37%	560 891		14.1x 10.2x	13.0x 9.7x	21.0x	20.5x	
Oropbox Nutanix	22.38 26.05	7,85 5,99		8,704 6,056		2,320 1,687		2,458 1,879	11%	3.6x 3.6x	3.2x		858 83	57% 5%	228		nm	9.7x 26.5x	14.3x nm	12.8x 84.5x	Communications
30X	31.13	4,44		5,117		991		1,077	11%	5.2x	4.7x		295	30%	33:		17.3x	15.5x	26.6x	21.2x	
ommVault Systems	62.84	2,79		2,549		796		834	5%	3.2x	3.1x		179	22%	203		14.3x	12.5x	23.4x	21.2x 21.3x	DevOps and Softw
ackblaze	6.15	2,7		167		85		100	18%	2.0x	1.7x		(10)	(11%)	(10		nm	nm	nm	nm	Development Tool
donotalo	Mean	\$ 6,0!			\$	2,169	\$	2,297	9%	3.2x	2.9x	\$	512	18%	\$ 560		12.7x	14.1x	19.3x	28.5x	eCommerce & Sup
	Median	5,99		6,056	Φ	1,687	Ф	1,879	11%	3.2x	3.1x	Ф	295	22%	33:		14.1x	12.8x	21.0x	20.5x 20.9x	Chain Managemen
	Median	5,7	4	0,030		1,007		1,079	1170	3.28	3.11		273	2270	JJ.	. 24/0	14.11	12.00	21.00	20.78	ERP & General
echnical & Embedded Applic	cations																				Business Applicati
ynopsys	\$ 319.29	\$ 48,66	5 \$	47,800	\$	5,164	\$	5,994	16%	9.3x	8.0x	\$	1,807	35%	\$ 2,17	36%	26.5x	22.0x	35.5x	29.6x	
assault Systemes	35.80	47,06	1	47,299		6,032		6,562	9%	7.8x	7.2x		2,293	38%	2,50	38%	20.6x	18.9x	29.7x	27.9x	Financial Applicat
adence Design	160.64	44,06	6	43,838		3,545		3,873	9%	12.4x	11.3x		1,537	43%	1,72	45%	28.5x	25.4x	38.0x	34.5x	Human Capital
utodesk	186.87	40,32	0	41,514		5,000		5,469	9%	8.3x	7.6x		1,834	37%	2,03	37%	22.6x	20.4x	28.4x	25.5x	Management
NSYS	241.59	21,04	-5	21,296		2,026		2,188	8%	10.5x	9.7x		861	42%	972	44%	24.7x	21.9x	31.4x	28.8x	
arametric Technology	120.04	14,18	3	15,451		1,938		2,001	3%	8.0x	7.7x		792	41%	815	41%	19.5x	19.0x	25.8x	25.3x	IT Operations Management
spen Technology	205.40	13,25	7	13,233		951		1,232	30%	13.9x	10.7x		460	48%	603	49%	28.8x	22.0x	28.0x	32.0x	Tranagement
	Mean	\$ 32,65	7 \$	32,919	\$	3,522	\$	3,903	12%	10.0x	8.9x	\$	1,369	41%	\$ 1,548	41%	24.5x	21.3x	31.0x	29.1x	IT Security
	Median	40,32	.0	41,514		3,545		3,873	9%	9.3x	8.0x		1,537	41%	1,726	41%	24.7x	21.9x	29.7x	28.8x	
																					Network
ertical Applications																					Infrastructure
anaher	\$ 265.42	\$ 193,21			\$	30,806	\$		(0%)	6.8x	6.8x	\$		34%	\$ 10,550		19.8x	19.9x	25.2x	25.5x	Real Estate
oper Industries	432.09	45,82		50,589		5,372		5,930	10%	9.4x	8.5x		2,176	41%	2,410		23.2x	21.0x	30.6x	27.0x	
eeva	161.38	25,12		22,164		2,144		2,422	13%	10.3x	9.2x		847	39%	932		26.2x	23.8x	38.6x	35.8x	Sales & Marketing
yler Technologies	322.41	13,42		14,336		1,853		2,000	8%	7.7x	7.2x		475	26%	498		30.2x	28.8x	42.4x	41.5x	Applications
rocore Technologies Juidewire Software	47.18 62.56	6,51 5,12		6,039 4.913		708 860		871 936	23% 9%	8.5x 5.7x	6.9x 5.3x		(51) (35)	(7%) (4%)	(51 33		nm nm	nm nm	nm nm	nm nm	Ctorogo Monogom
lightmove	62.56	5,12		5,033		398		936 422	9% 6%	5.7x 12.6x	5.3X 11.9X		301	(4%) 76%	31		16.7x	15.9x	21.5x	20.6x	Storage Managem
lackbaud	58.86	3.09		3,932		1.062		1.116	5%	3.7x	3.5x		254	24%	308		15.5x	12.8x	21.3x 22.7x	18.6x	Technical &
Cino	26.44	2,93		2,911		404		484	20%	7.2x	6.0x		(2)	(1%)	53		nm	nm	nm	76.5x	Embedded Apps
Ouck Creek Technologies	12.05	1,60		1,351		306		340	11%	4.4x	4.0x		17	6%	32		nm	42.5x	nm	77.5x	
apiens	18.48	1,06		1,013		478		512	7%	2.1x	2.0x		93	20%	103		10.8x	9.8x	15.3×	14.2x	Vertical Application
aprono	Mean	\$ 27,54			\$	4,036	\$	4,159	10%	7.1x	6.5x	\$		23%	\$ 1,380		20.3x	21.8x	28.0x	37.5x	·
	Median	5.12		5,033	Ф	860	Ф	936	9%	7.1x 7.2x	6.8x	Φ	254	24%	308		19.8x	20.4x	25.2x	27.0x	Software-as-a-Ser
	Mediali	5,12		3,033		000		730	770	7.2	0.0x		254	2470	300	2370	17.00	20.41	25.2	27.00	,
																					Small Cap
																					\
																					Highly Acquisitive
																					,
																					High Growth

Sources: Company releases, Wall Street research

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



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<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

# **Equity Trading Multiples by Comparable Subset**

## Properties   Pr		Share Price	Market	Enterprise		Revenue [a]		EV / Re	evenue [b]		EBITI	DA [a]		EV / E	BITDA [c]	P/EM	ultiple [c]	Global Diversified
Memore subservices	ompany	(12/30/22)	Value	Value	CY22E	CY23E	у/у	CY22E	CY23E	CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	CY23E	
Margin   M																		Application Delive
Declaration   1982   74,931   74,933   7,247   8,131   228   19.3 x   15.5 x   2,246   31.9   2.822   32.9   33.4 x   26.6 x   25.9 x   42.6 x   19.9 x		<b>*</b> 400.50	A 404 00E				440/	4.0	0.0		0.507	<b>.</b>	0.407	45.4	44.0	0.4.0	00.0	TVCTWOTK ACCCICIE
peply 1471 44,154 44,155 5.59 6.683 21% 7.48 6.1x 6.1x 6.1x 6.52 15% 1.592 7.72 21% 26.1x 1.2 47.3 1.2																		Business Intellige
oreday 167.33 43,006 40,776 6,203 7,772 17% 6,6x 56x 1,565 25% 1,932 27% 26.1x 21.1x 47.3x 35.5x Communication 128.68 22.88 0 32.64 31.18 3,857 22% 10.5x 561 18% 679 18% mm dl.x 92.5x 82.2x 18.65 18.65 18.65 18% 18% 18% 18% 18% 18% 18% 18% 18% 18%																		
isassian   126.68   32,880   32,684   3,158   3,158   3,157   22%   10.5x   50.5x   51   18%   679   18%   679   18%   679   62.7x   6																		Communications
Standag   73.50   23.341   22.411   1.655   2.218   34%   13.5x   10.4x   33.4   20%   416   19%   mm   mm   81.0x   64.0x   50%	•																	
Second commerce   310.31   17,957   17,668   1.372   1.686   23%   1.9%   1.0 km   561   41%   696   41%   31.5%   25.4%   52.5%   42.1%   25.8%   25.9%   42.1%   25.8%   25.9%   42.1%   25.8%   25.9%   42.1%   25.8%   25.9%   42.1%   25.8%   25.9%   42.1%   25.9%   2																		DevOps and Soft
Lunk Be 6.09 Liunk Be 6.09 Liu	0																	Development Too
Disport   289.13	*																	eCommerce & Su
Wordry   194.26   10.815   10.825   988   1.243   2694   11.0x   8.7x   277   2894   377   3094   391.x   28.7x   52.1x   44.0x   54.0x   54																		Chain Manageme
will will be w																		FRP & General
restorage 26.76 8,097 7,384 2,754 3,129 14% 2.7x 2.4x 524 19% 566 18% 14.1x 13.0x 21.0x 20.5x ropbox 22.38 7,878 8,704 2,320 2,458 6% 3.8x 3.5x 858 37% 895 36% 10.2x 9.7x 14.3x 12.8x responsively 67.86 4,784 4,996 775 901 16% 6.4x 5.5x 134 17% 162 18% 37.2x 30.8x 49.6x 43.3x responsively 67.86 4,784 4,496 775 901 16% 6.4x 5.5x 134 17% 162 18% 37.2x 30.8x 49.6x 43.3x responsively 67.85 4,440 450 524 17% 9.8x 4x 130 29% 133.3x 20.8x 57.2x 52.1x responsively 67.85 31.13 4,449 5.117 991 1,097 11% 5.2x 47x 295 30% 331 30% 17.3x 15.5x 26.6x 21.2x responsively 67.85 31.13 4,449 5.117 991 1,097 11% 5.2x 47x 295 30% 331 30% 17.3x 15.5x 26.6x 21.2x responsively 67.85 31.13 4,449 5.117 991 1,097 11% 5.2x 47x 295 30% 331 30% 17.3x 15.5x 26.6x 21.2x responsively 67.85 31.13 4.49 5.117 991 1,097 11% 5.2x 47x 295 30% 331 30% 17.3x 15.5x 26.6x 21.2x 14.3x	vilio																	Business Applica
Composition																		
Scommerce   12843	ropbox	22.38	7,878		2,320	2,458	6%	3.8x	3.5x	858	37%	895	36%	10.2x	9.7x	14.3x	12.8x	Financial Applica
Scommerce   128.43   4,629   4,410   450   5.44   17%   9.8x   8.4x   130   2.9%   1.53   2.9%   33.8x   2.9x   57.2x   52.1x   Management	ve9	67.86	4,784	4,996	775	901	16%	6.4x	5.5x	134	17%	162	18%	37.2x	30.8x	49.6x	43.3x	
Section   Sect	PS Commerce	128.43	4,629	4,410	450	524	17%	9.8x	8.4x	130	29%	153	29%	33.8x	28.9x	57.2x	52.1x	
Sehworks 14.71 4,255 3,114 495 601 21% 6.3x 5.2x (20) (4%) (9) (1%) nm	OX	31.13	4,449	5,117	991	1,097	11%	5.2x	4.7x	295	30%	331	30%	17.3x	15.5x	26.6x	21.2x	rianagement
Selverorks 14.71 4,255 3,114 495 001 21% 6.3x 5.2x (20) (4%) (9) (1%) nm	orkiva	83.97	4,412	4,353	533	621	16%	8.2x	7.0x	(17)	(3%)	7	1%	nm	nm	nm	nm	
per position of the position o	eshworks	14.71	4,235	3,114	495	601	21%	6.3x	5.2x	(20)	(4%)	(9)	(1%)	nm	nm	nm	nm	Management
popolio 105.38 3,705 3,623 465 567 22% 7,8x 6.4x 18 4% 33 6% nm	ew Relic	56.45	3,858	3,596	882	1,021	16%	4.1x	3.5x	52	6%	99	10%	nm	36.4x	nm	85.8x	IT Security
Figure 1 13.77	opFolio	105.38	3,705	3,623	465	567	22%	7.8x	6.4x	18	4%	33	6%	nm	nm	nm	nm	Traccurity
Real Estate Perbridge 29.58 1,181 1,520 431 458 6% 3.5x 3.3x 41 9% 84 18% 37.2x 18.1x 50.3x 22.5x erefordinge 29.58 1,181 1,520 431 458 6% 3.5x 3.3x 41 9% 84 18% 37.2x 18.1x 50.3x 22.5x and likely a	nvestnet	61.70	3,414	4,146	1,243	1,311	5%	3.3x	3.2x	219	18%			18.9x	16.3x	33.3x	29.1x	Network
2 Holdings 26.87 1,545 1,883 569 647 14% 3.3x 2.9x 40 7% 59 9% 46.8x 31.8x 85.0x 46.2x ercommerce 7.44 1,437 1,886 617 693 12% 3.1x 2.7x 117 19% 139 20% 16.1x 13.5x 20.2x 18.1x 50.3x 22.5x 14.1x 1.5x 20.2x 18.1x 50.2x 22.5x 14.1x 50.3x 22.5x 50.2x 50.2x 14.1x 50.3x 22.5x 50.2x 50.2	sana	13.77	2,930	2,643	542	652	20%	4.9x	4.1x	(245)	(45%)	(202)	(31%)	nm	nm	nm	nm	Infrastructure
Per Commerce 7.44 1,437 1,886 617 693 12% 3.1x 2.7x 117 19% 139 20% 16.1x 13.5x 20.2x 18.1x 20.2x 18.2	aronis Systems																	
Perbridge 29.58 1,181 1,520 431 458 6% 3.5x 3.3x 41 9% 84 18% 37.2x 18.1x 50.3x 22.5x 33.0c 1,088 875 143 186 30% 6.1x 4.7x 0 0 0% 13 7% nm	2 Holdings																	Real Estate
Applications    Applications   Applications   Applications   Applications   Applications   Applications   Applications																		Calan O Markatia
Age of the first o	-																	
skified 4.62 782 339 259 306 18% 1.3x 1.1x (45) (17%) (32) (10%) nm														nm	nm	nm	nm	//ppiications
Prefitfocus  10.46 361 581 253 258 268 27 2.38 2.38 2.38 2.38 2.38 2.38 2.38 2.38																		Storage Manager
Mean       \$ 16,045       \$ 15,729       \$ 2,687       \$ 3,101       17%       6.0x       5.0x       \$ 545       12%       \$ 641       14%       26.4x       23.7x       47.6x       42.6x         Median       4,539       4,703       935       1,059       17%       5.0x       4.4x       132       16%       157       18%       26.2x       21.7x       49.6x       41.2x       Vertical Applicat     Software-as-a-S  Small Cap																		
Median 4,539 4,703 935 1,059 17% 5.0x 4.4x 132 16% 157 18% 26.2x 21.7x 49.6x 41.2x Vertical Application of Small Cap	enefitfocus	10.46	361		253		2%	2.3x	2.3x	45	18%	44	17%	12.9x		nm	40.2x	
Software as a s		Mean	\$ 16,045	\$ 15,729					5.0x					26.4x		47.6x	42.6x	Embedded Apps
Software-as-a-S Small Cap		Median	4,539	4,703	935	1,059	17%	5.0x	4.4x	132	16%	157	18%	26.2x	21.7x	49.6x	41.2x	Vertical Applicati
Small Cap																		Vertical Applicati
Small Cap																		(17,11111
\i 																		Software-as-a-Se
\i 																		(
Highly Acquisitiv																		Small Cap
Highly Acquisitiv																		,=======
																		f Highly Acquisitiv

Sources: Company releases, Wall Street research

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



High Growth

<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

# Equity Trading Multiples by Comparable Subset continued

	OL D.:		·		D ( )		= 1//=	f: 2			20.4.(.)		E	DITEN ( )	5 / 5 : :	102 1 1 2	
	Share Price	Market	Enterprise		Revenue [a]			venue [b]			DA [a]			BITDA [c]		ultiple [c]	Global Diversified
Company	(12/30/22)	Value	Value	CY22E	CY23E	<u>y/y</u>	CY22E	CY23E	CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	<u>CY23E</u>	Application Delivery &
Small Cap (<\$250m Market V	ا المال																Network Acceleration
DHI Group	\$ 5.29	\$ 238	\$ 272	\$ 149	\$ 173	16%	1.8x	1.6x	\$ 31	21%	\$ 37	21%	8.9x	7.4x	nm	46.7x	
Kaltura	1.72	229	195	168	177	5%	1.2x	1.1x	(30)	(18%)	(10)	(6%)	nm	nm	nm	nm	Business Intelligence
Upland Software	7.13	227	621	315	314	(0%)	2.0x	2.0x	97	31%	91	29%	6.4x	6.9x	3.9x	5.1x	
Backblaze	6.15	201	167	85	100	18%	2.0x	1.7x	(10)	(11%)	(10)	(10%)	nm	nm	nm	nm	Communications
Veritone	5.30	192	196	151	164	9%	1.3x	1.2x	(13)	(9%)	4	3%	nm	44.8x	nm	nm	(= 0 10.0
Cardlytics	5.78	192	290	300	321	7%	1.0x	0.9x	(44)	(15%)	(0)	(0%)	nm	nm	nm	nm	DevOps and Software Development Tools
Outbrain	3.62	190	97	985	1,008	2%	0.1x	0.1x	24	2%	26	3%	4.0x	3.8x	nm	nm	Development 100is
Asure Software	9.34	188	220	90	100	10%	2.4x	2.2x	11	12%	15	15%	20.7x	15.2x	nm	32.4x	eCommerce & Supply
Altisource	9.46	153	341	159	274	72%	2.1x	1.2x	(19)	(12%)	38	14%	nm	8.9x	nm	12.3x	Chain Management
Viant	4.02	58	90	197	203	3%	0.5x	0.4x	(9)	(4%)	7	4%	nm	12.7x	nm	nm	ERP & General
Synchronoss Technologies	0.62	53	282	256	258	1%	1.1x	1.1x	51	20%	53	21%	5.5x	5.3x	3.1x	4.8x	Business Applications
-	Mean	\$ 175	\$ 252	\$ 260	\$ 281	13%	1.4x	1.2x	\$ 8	2%	\$ 23	8%	9.1x	13.1x	3.5x	20.2x	
	Median	192	220	168	203	7%	1.3x	1.2x	(9)	(4%)	15	4%	6.4x	8.2x	3.5x	12.3x	Financial Applications
	riodian	1/2	220	100	200	,,,	21011	2127	(7)	(170)	10	170	0117	O.EX	0.0%	ZZIOX	Human Capital
Highly Acquisitive																	Management
Microsoft	\$ 239.82	\$ 1,788,218	\$ 1,758,110	\$ 204,534	\$ 225,265	10%	8.6x	7.8x	\$ 97,666	48%	\$109,779	49%	18.0x	16.0x	26.3x	23.4x	
Google	88.23	1,145,004	1,058,081	283,385	307,959	9%	3.7x	3.4x	109,904	39%	118,953	39%	9.6x	8.9x	18.5x	16.6x	IT Operations Management
Oracle	81.74	220,392	304,431	45,815	51,815	13%	6.6x	5.9x	21,835	48%	23,473	45%	13.9x	13.0x	16.8x	15.8x	Management
Cisco Systems	47.64	195,710	185,828	52,980	55,460	5%	3.5x	3.4x	19,062	36%	20,186	36%	9.7x	9.2x	13.9x	12.9x	IT Security
Adobe	336.53	156,453	154,990	17,611	19,269	9%	8.8x	8.0x	8,795	50%	9,459	49%	17.6x	16.4x	24.7x	22.0x	11 00001111)
Salesforce.com	132.59	131,397	134,123	31,053	34,468	11%	4.3x	3.9x	7,715	25%	8,260	24%	17.4x	16.2x	26.9x	23.3x	Network
IBM	140.89	127,382	171,710	60,214	60,500	0%	2.9x	2.8x	14,763	25%	15,718	26%	11.6x	10.9x	15.6x	14.7x	Infrastructure
SAP	103.01	119,992	124,095	33,016	35,427	7%	3.8x	3.5x	10,378	31%	11,436	32%	12.0x	10.9x	21.8x	17.5x	
Intuit	389.22	109,342	114,219	13,551	14,833	9%	8.4x	7.7x	4,775	35%	5,742	39%	23.9x	19.9x	32.8x	26.7x	Real Estate
Intel	26.43	109,077	124,856	63,530	61,742	(3%)	2.0x	2.0x	18,448	29%	20,390	33%	6.8x	6.1x	13.5x	13.4x	Color O Mar Latina
Dassault Systemes	35.80	47,061	47,299	6,032	6,562	9%	7.8x	7.2x	2,293	38%	2,507	38%	20.6x	18.9x	29.7x	27.9x	Sales & Marketing Applications
OpenText	29.64	7,903	10,673	3,514	3,650	4%	3.0x	2.9x	1,226	35%	1,337	37%	8.7x	8.0x	9.7x	9.1x	Applications
	Mean	\$ 346,494	\$ 349,035	\$ 67,936	\$ 73,079	7%	5.3x	4.9x	\$ 26,405	37%	\$ 28,937	37%	14.2x	12.9x	20.9x	18.6x	Storage Management
	Median	129,390	144,556	39,416	43,621	9%	4.0x	3.7x	12,570	36%	13,577	37%	13.0x	11.9x	20.1x	17.0x	
		,	ŕ	,	•				,		,						Technical &
																	Embedded Apps
																	Vertical Applications
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																	(22
																	Software-as-a-Service
																	(
																	Small Cap
																	(
																	Highly Acquisitive
																	High Growth
																	,

Sources: Company releases, Wall Street research

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



High Profitability

<sup>[</sup>a] Wall Street consensus estimates

<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

# Equity Trading Multiples by Comparable Subset continued

npany	Share Price (12/30/22)		Market																			
			Value		Enterprise Value		CY22E		nue [a] CY23E	y/y	CY22E	venue [b] CY23E	_	CY22E	EBITE mgn	CY23E	mgn	CY22E	CY23E	CY22E	ultiple [c] CY23E	Global Diversified
0 11 / 000/ 01/00																						Application Delive Network Accelera
n Growth (>=30% CY23 source	E Revenue Growth) \$ 9.46	\$	153	\$	341	\$	159	\$	274	72%	2.1x	1.2x	\$	(19)	(12%)	\$ 38	14%	nm	8.9x	nm	12.3x	
tinelOne	14.59	Ψ	4,124	Ψ	3,451	Ψ	420	Ψ	652	55%	8.2x	5.3x	Ψ	(200)	(48%)	(139)	(21%)	nm	nm	nm	nm	Business Intellige
wflake	143.54		46,162		41,543		2,051		3,026	48%	20.3x	13.7x		122	6%	236	8%	nm	nm	nm	nm	
.ab	45.44		6,800		5,924		421		593	41%	14.1x	10.0x		(80)	(19%)	(85)	(14%)	nm	nm	nm	nm	Communications
bal-e	20.64		3,230		3,058		408		565	38%	7.5x	5.4x		45	11%	65	12%	nm	46.8x	nm	62.1x	
t4 Payments	55.93		3,167		4,373		2,000		2,730	37%	2.2x	1.6x		277	14%	368	13%	15.8x	11.9x	42.0x	27.2x	DevOps and Softw Development Too
com	108.96		11,514		10,739		841		1,145	36%	12.8x	9.4x		25	3%	86	7%	nm	nm	nm	nm	Development roc
udflare	45.21		14,857		14,788		975		1,319	35%	15.2x	11.2x		132	14%	179	14%	nm	nm	nm	nm	eCommerce & Su
adog	73.50		23,341		22,411		1,655		2,218	34%	13.5x	10.1x		334	20%	416	19%	nm	nm	81.0x	64.0x	Chain Manageme
wdstrike	105.29		24,679		23,005		2,231		2,979	34%	10.3x	7.7x		439	20%	601	20%	nm	38.3x	70.2x	52.7x	ERP & General
fluent	22.24		6,370		5,548		580		767	32%	9.6x	7.2x		(177)	(30%)	(146)	(19%)	nm	nm	nm	nm	Business Applicat
0	47.76		7.170		7,239		785		1,027	31%	9.2x	7.0x		170	22%	225	22%	42.5x	32.2x	nm	nm	
aler	111.90		16,137		15,532		1.326		1,740	31%	11.7x	8.9x		196	15%	283	16%	nm	nm	nm	78.6x	Financial Applicat
ebo	33.06		1,088		875		143		186	30%	6.1x	4.7x		0	0%	13	7%	nm	nm	nm	nm	
nday.com	122.00		5,500		4,732		510		663	30%	9.3x	7.1x		(74)	(15%)	(63)	(10%)	nm	nm	nm	nm	Human Capital Management
•	Mean	\$	11,620	\$	10,904	\$	967	\$	1,326	39%	10.1x	7.4x	\$	79	0%	\$ 138	6%	29.2x	27.6x	nm	49.5x	Management
	Median	Ψ	6,800	Ψ	5,924	Ψ	785	Ψ	1,027	35%	9.6x	7.2x	Ψ	45	6%	86	12%	29.2x	32.2x	70.2x	57.4x	IT Operations Management
																						Real Estate  Sales & Marketin Applications  Storage Manager
																						Technical & Embedded Apps
																						Vertical Applicat
																						Software-as-a-Se
																						Small Cap
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																						Highly Acquisitiv

Sources: Company releases, Wall Street research

[a] Wall Street consensus estimates

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

# Equity Trading Multiples by Comparable Subset continued

	Share Price	Market	Enterprise		Revenue [a]		EV / Re	venue [b]		EBIT	DA [a]		EV / E	BITDA [c]	P/EM	ultiple [c]	Global Diversified
Company	(12/30/22)	Value	Value	CY22E	CY23E	y/y	CY22E	CY23E	CY22E	mgn	CY23E	mgn	CY22E	CY23E	CY22E	CY23E	
																	Application Delivery Network Acceleratio
High Profitability (>=40% CY22																	Network Acceleratio
Rightmove	\$ 6.16	\$ 5,073	\$ 5,033	\$ 398	\$ 422	6%	12.6x	11.9x		76%	\$ 317	75%	16.7x	15.9x	21.5x	20.6x	Business Intelligend
erisign	205.44	21,780	22,589	1,422	1,542	8%	15.9x	14.6x	1,017	72%	1,120	73%	22.2x	20.2x	33.4x	28.7x	
ISCI	465.17	37,194	40,999	2,240	2,442	9%	18.3x 7.5x	16.8x	1,323	59% 57%	1,453	59%	31.0x	28.2x 12.2x	41.0x	36.9x	Communications
lortonLifeLock	21.22	14,263	23,291	3,104	3,904	26%		6.0x	1,756		1,903	49%	13.3x		nm	nm	Communications
dobe	336.53	156,453	154,990	17,611	19,269	9%	8.8x	8.0x	8,795	50%	9,459	49%	17.6x	16.4x	24.7x	22.0x	DevOps and Softwa
spen Technology	205.40 61.75	13,257 9,539	13,233	951	1,232	30%	13.9x	10.7x 7.4x	460 755	48% 48%	603 815	49%	28.8x 16.3x	22.0x 15.1x	28.0x 25.2x	32.0x 23.8x	Development Tools
ack Knight		,	12,276	1,569	1,658	6%	7.8x 11.9x	7.4x 11.0x	755 671	48%	775	49% 51%	16.3X 24.9x	21.6x	25.2x 33.6x	23.8x 29.1x	eCommerce & Supp
nir Isaac	598.58	14,950	16,729	1,402	1,519	8%				48%				21.6x 16.0x	26.3x	29.1x 23.4x	Chain Management
icrosoft	239.82	1,788,218	1,758,110	204,534	225,265	10% 13%	8.6x 6.6x	7.8x 5.9x	97,666	48%	109,779	49% 45%	18.0x 13.9x	18.0x	26.3X 16.8x	23.4x 15.8x	(500.0.0.1
racle	81.74	220,392	304,431	45,815	51,815				21,835		23,473						ERP & General Business Application
heck Point	126.16	15,822	12,275	2,328	2,444	5%	5.3x	5.0x	1,059	45%	1,098	45%	11.6x	11.2x	17.2x	15.5x	Dusiness Applicatio
ualys	112.23	4,263	3,847	489	567	16%	7.9x	6.8x	217	44%	234	41%	17.7x	16.5x	31.0x	27.8x	Financial Application
escartes Systems	69.65	5,915	5,684	485	532	10%	11.7x	10.7x	215	44%	239	45%	26.5x	23.8x	59.0x	49.9x	
aychex	115.56	41,656	41,268	4,802	5,124	7%	8.6x	8.1x	2,097	44%	2,290	45%	19.7x	18.0x	29.2x	26.4x	Human Capital
adence Design	160.64	44,066	43,838	3,545	3,873	9%	12.4x	11.3x	1,537	43%	1,726	45%	28.5x	25.4x	38.0x	34.5x	Management
serv	101.07	64,182	83,006	16,758	17,946	7%	5.0x	4.6x	7,234	43%	7,785	43%	11.5x	10.7x	15.6x	13.8x	IT Operations
IS NGV6	67.85	40,261	57,432	14,531	15,139	4%	4.0x	3.8x	6,248	43%	6,586	44%	9.2x	8.7x	10.2x	10.0x	Management
NSYS	241.59	21,045	21,296	2,026	2,188	8%	10.5x	9.7x	861	42%	972	44%	24.7x	21.9x	31.4x	28.8x	
kamai Technologies	84.30	13,256	15,056	3,592	3,752	4%	4.2x	4.0x	1,524	42%	1,574	42%	9.9x	9.6x	16.0x	15.0x	IT Security
oomInfo Technologies	30.11	12,154	13,011	1,097	1,342	22%	11.9x	9.7x	462	42%	577	43%	28.2x	22.5x	35.7x	30.8x	
aycom Software	310.31	17,957	17,668	1,372	1,686	23%	12.9x	10.5x	561	41%	696	41%	31.5x	25.4x	52.5x	42.1x	Network
echnologyOne	8.93	2,896	2,801	244	291	19%	11.5x	9.6x	99	41%	126	43%	28.2x	22.2x	50.2x	41.6x	Infrastructure
oper Industries	432.09	45,824	50,589	5,372	5,930	10%	9.4x	8.5x	2,176	41%	2,410	41%	23.2x	21.0x	30.6x	27.0x	Dool Fototo
	Mean	\$ 113,496	\$ 118,237	\$ 14,595	\$ 16,082	12%	9.9x	8.8x	\$ 6,907	48%	\$ 7,652	48%	20.6x	18.1x	30.3x	27.1x	Real Estate
	Median	17,957	21,296	2,240	2,442	9%	9.4x	8.5x	1,059	44%	1,120	45%	19.7x	18.0x	29.9x	27.4x	Sales & Marketing
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Sources: Company releases, Wall Street research

[a] Wall Street consensus estimates

<sup>[</sup>c] EV / EBITDA multiples in excess of 50x or less than 0x and P / E multiples in excess of 100x or less than 0x are considered not meaningful



<sup>[</sup>b] EV / Revenue multiples in excess of 30x or less than 0x are considered not meaningful

# Agenda

M&A Activity

Public Equity Market Valuations

Equity Financing Activity



# Software IPOs Pricing & Performance Data

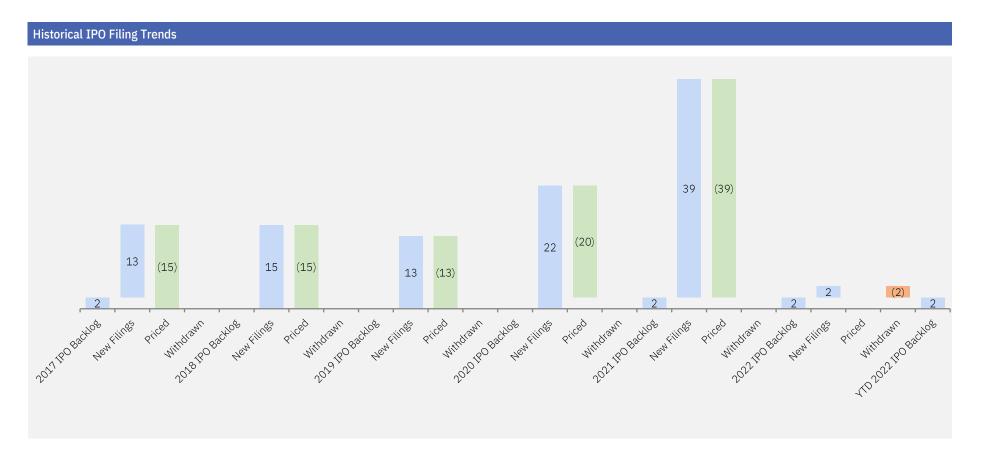
### Initial Equity Issuances from Q1 2021 – Q4 2022 (\$ millions)

				Current Tradi	ng Data							Valuation a	t IPO			
	Share Price	Market	Enterprise	Rev	enue	EV / F	Revenue	Performance		Share	Amount	Market	Enterprise	Е	V / Revenu	e
Company	12/30/22	Value	Value	CY22E	CY23E	CY22E	CY23E	Since IPO	IPO Date	Price	Raised [a]	Value	Value	LTM	CY	CY + 1
Samsara	\$ 12.43	\$ 6,450	\$ 5,839	\$ 637	\$ 819	9.2x	7.1x	(46%)	12/14/21	\$ 23.00	\$ 805	\$ 11,508	\$11,390	30.1x	27.2x	20.7x
HashiCorp	27.34	5,139	3,880	464	593	8.4x	6.5x	(66%)	12/08/21	80.00	1,224	14,312	14,113	49.3x	45.5x	34.8x
UserTesting	7.51	1,103	953	192	230	5.0x	4.2x	(46%)	11/16/21	14.00	140	1,972	1,926	14.3x	13.4x	10.1x
Weave Communications	4.58	300	256	141	164	1.8x	1.6x	(81%)	11/10/21	24.00	120	1,510	1,495	13.9x	12.9x	9.8x
Backblaze	6.15	201	167	85	100	2.0x	1.7x	(62%)	11/10/21	16.00	100	468	503	7.9x	7.6x	6.0x
Expensify	8.83	725	687	171	196	4.0x	3.5x	(67%)	11/09/21	27.00	263	1,818	1,821	14.2x	12.9x	10.1x
Informatica	16.29	4,611	5,867	1,511	1,653	3.9x	3.5x	(44%)	10/26/21	29.00	841	7,937	10,333	7.3x	7.2x	6.5x
GitLab	45.44	6,800	5,924	421	593	14.1x	10.0x	(41%)	10/13/21	77.00	801	11,012	10,736	54.7x	46.5x	34.1x
AvidXchange	9.94	1,975	1,664	315	374	5.3x	4.4x	(60%)	10/12/21	25.00	660	4,894	4,925	21.2x	20.7x	17.3x
Amplitude	12.08	1,367	1,072	237	299	4.5x	3.6x	(65%)	09/28/21	35.00	1,770	3,618	3,327	25.8x	20.6x	14.6x
Clearwater Analytics	18.75	3,550	3,397	301	361	11.3x	9.4x	4%	09/23/21	18.00	540	3,113	3,496	15.5x	14.3x	11.9x
EngageSmart	17.60	2,912	2,652	302	381	8.8x	7.0x	(32%)	09/22/21	26.00	378	4,185	4,265	23.3x	20.5x	15.8x
Freshworks	14.71	4,235	3,114	495	601	6.3x	5.2x	(59%)	09/21/21	36.00	1,026	10,132	9,891	32.1x	27.0x	20.5x
ForgeRock	22.77	1,944	1,652	212	265	7.8x	6.2x	(9%)	09/15/21	25.00	275	1,984	1,937	12.3x	11.5x	9.6x
Riskified	4.62	782	339	259	306	1.3x	1.1x	(78%)	07/28/21	21.00	368	3,310	3,165	15.4x	14.2x	11.8x
MeridianLink	13.73	1,111	1,425	285	309	5.0x	4.6x	(47%)	07/27/21	26.00	343	2,098	2,684	11.1x	10.5x	9.5x
Outbrain	3.62	190	97	985	1,008	0.1x	0.1x	(82%)	07/22/21	20.00	160	1,077	966	1.1x	1.0x	0.8x
Couchbase	13.26	599	429	151	176	2.8x	2.4x	(45%)	07/21/21	24.00	200	994	965	8.9x	8.1x	6.5x
Kaltura	1.72	229	195	168	177	1.2x	1.1x	(83%)	07/21/21	10.00	150	1,241	1,273	8.8x	7.7x	6.0x
Paycor	24.47	4,303	4,235	479	576	8.8x	7.4x	6%	07/20/21	23.00	426	4,012	4,058	11.5x	10.9x	9.7x
VTEX	3.75	714	480	159	198	3.0x	2.4x	(80%)	07/20/21	19.00	361	3,558	3,532	31.1x	28.6x	22.3x
EverCommerce	7.44	1,437	1,886	617	693	3.1x	2.7x	(56%)	06/30/21	17.00	325	3,508	4,075	10.0x	8.9x	7.5x
SentinelOne	14.59	4,124	3,451	420	652	8.2x	5.3x	(58%)	06/29/21	35.00	1,225	8,973	8,657	77.0x	49.3x	28.7x
Confluent	22.24	6,370	5,548	580	767	9.6x	7.2x	(38%)	06/23/21	36.00	828	9,085	8,853	33.7x	27.6x	20.5x
Sprinklr	8.17	2,133	1,603	616	710	2.6x	2.3x	(49%)	06/22/21	16.00	266	4,007	3,813	9.4x	8.4x	6.9x
WalkMe	11.18	945	651	244	290	2.7x	2.2x	(64%)	06/16/21	31.00	287	2,562	2,450	15.6x	13.2x	10.4x
Monday.com	122.00	5,500	4,732	510	663	9.3x	7.1x	(21%)	06/09/21	155.00	574	6,777	6,664	35.4x	25.5x	17.6x
Procore Technologies	47.18	6,511	6,039	708	871	8.5x	6.9x	(30%)	05/19/21	67.00	634	8,585	8,265	19.6x	16.9x	13.8x
Global-e	20.64	3,230	3,058	408	565	7.5x	5.4x	(17%)	05/11/21	25.00	375	3,556	3,477	21.4x	16.5x	10.4x
SimilarWeb	6.43	489	474	193	235	2.5x	2.0x	(71%)	05/11/21	22.00	176	1,634	1,606	15.7x	12.8x	10.0x
KnowBe4	24.78	4,393	4,064	334	416	12.2x	9.8x	55%	04/21/21	16.00	152	2,657	2,575	13.6x	11.1x	8.9x
UiPath	12.71	7,027	5,408	1,028	1,217	5.3x	4.4x	(77%)	04/20/21	56.00	1,338	29,073	28,632	47.1x	34.9x	26.4x
DoubleVerify	21.96	3,621	3,462	452	559	7.7x	6.2x	(19%)	04/20/21	27.00	360	4,194	4,172	16.0x	13.2x	10.0x
AppLovin	10.53	3,914	6,256	2,817	2,845	2.2x	2.2x	(87%)	04/14/21	80.00	2,000	28,636	30,122	16.8x	11.2x	9.2x
Alkami Technology	14.59	1,335	1,210	204	257	5.9x	4.7x	(51%)	04/14/21	30.00	180	2,494	2,357	19.3x	16.2x	12.8x
DigitalOcean	25.47	2,453	3,097	574	741	5.4x	4.2x	(46%)	03/23/21	47.00	776	4,949	5,109	16.0x	12.8x	10.1x
Viant	4.02	58	90	197	203	0.5x	0.4x	(84%)	02/09/21	25.00	250	1,473	1,487	9.0x	7.9x	6.5x
ON24	8.63	415	83	191	191	0.4x	0.4x	(83%)	02/03/21	50.00	428	1,898	1,865	11.9x	9.1x	7.4x
Qualtrics	10.38	6,132	5,675	1,449	1,697	3.9x	3.3x	(65%)	01/28/21	30.00	1,551	15,102	15,140	19.8x	16.2x	13.6x
	Mean	\$ 2,803	\$ 2,593	\$ 500	\$ 588	5.4x	4.4x				\$ 581	\$ 5,998	\$ 6,054	21.0x	17.4x	13.3x
	Median	2,133	1,886	334	416	5.0x	4.2x				375	3,558	3,532	15.7x	13.2x	10.1x

Note: No Software IPOs took place in 2022 Sources: Company releases, Wall Street research [a] Primary shares only



### **Software IPO Pipeline**







# Software Private Capital Raise Activity: Q4 2022

### (\$ millions)

Announced	Company	Participating Investor(s)	Description	Amount Raised	Post-Valuation
12/30/22	Loop Returns	Burch Creative Capital, CRV, FirstMark Capital, Lerer Hippeau, Peterson Partners, Ridge Ventures, Shopify	Exchange-first return platform to drive loyalty for e-commerce businesses	\$115	-
12/30/22	Property Meld	n/a	Property maintenance management solution with automated scheduling and tracking	\$15	-
12/30/22	Remesh	Wilmot Advisors	Customer insights platform to engage and understand a live audience in real time	\$12	-
12/29/22	Edify	Xplorer Capital	Business communication solution connecting businesses with customers and employees	\$29	-
12/27/22	App Orchid	Moneta Ventures	Development application to restructure the way enterprises approach digital transformation	\$6	-
12/27/22	KERV Interactive	n/a	Interactive video platform driving deeper user engagement	\$7	-
12/23/22	NLX	n/a	Automated development platform building and monitoring conversational applications	\$10	-
12/23/22	Terminus	n/a	Account-based marketing platform enabling marketers to target key accounts	\$22	-
12/22/22	Qualytics	Engage VC, GRI Fund, Inner Loop Capital, Knoll Ventures, Palico, SaaS Ventures, Tech Square Ventures	Data quality surveillance platform monitoring and defending against data pipeline corruption	\$5	-
12/22/22	Tredence	Advent International	Data analytics for the telecom, pharma and retail industries	\$175	\$500
12/22/22	Vianova	Baloise Holding, Groupe La Poste, JAXAngels, Ponooc, RATP Capital Innovation	Mobility platform connecting cities and operators with geospatial modeling and smart tracking	\$6	-
12/21/22	Treblle	Nauta Capital	Cloud-based API monitoring solution	\$7	-
12/20/22	Nobl9	n/a	Development applications to improve team-wide productivity and business alignment	\$16	-
12/20/22	QuantCube Technology	Five Capital, Moody's, Tawazun Strategic Development Fund	Data analytics solution with real-time predictive insights	\$5	=
12/20/22	Steno	n/a	Remote litigation platform with a full suite of court reporting solutions	\$19	\$105
12/19/22	CyberCube	Forgepoint Capital, Morgan Stanley Tactical Value, MTech Capital, Stone Point Capital	Cyber risk analytics enabling businesses to make informed, effective and efficient decisions	\$50	-
12/19/22	Swyft	FEMSA Ventures, Investisseurs & Partenaires	Automated retail platform increasing sales and enhancing customer experiences	\$14	\$50
12/19/22	VMRay	eCAPITAL entrepreneurial Partners, Gründerfonds Ruhr, NRW.Bank, Tikehau Ace Capital	Threat-analysis and detection solution protecting against digital malware threats	\$36	-
12/16/22	Divergent	Hexagon	End-to-end digital production platform for industrial-scale manufacturing processes	\$100	\$1,360
12/16/22	Micronotes	Experian Ventures	Cloud-based business intelligence platform driving engagement and sales opportunities	\$6	\$22
12/16/22	Willow	n/a	Cross-system communication platform with data-driven insights	\$29	-
12/15/22	Acin	Barclays, BNP Paribas, Citigroup, Fitch Ventures, J.P. Morgan, Notion, Talis Capital	Non-financial risk intelligence data platform	\$22	
12/15/22	Insala	HEXA Global Ventures	Talent development solution connecting organizations and employees	\$10	
12/15/22	RegASK	Monograph Capital, SPRIM Ventures	AI-based global markets regulatory compliance solution	\$10	
12/15/22	Stavvy	Morningside Group	Digital mortgage vendor solution	\$26	
12/15/22	Sweep	Bessemer Venture Partners, Insight Partners	CRM platform to customize and scale salesforce configuration	\$28	\$80
12/14/22	Cyara	K1 Investment Management	Automated customer experience assurance solution	\$350	-
12/14/22	DataVisor	Brighton Park Capital, Genesis Capital, GSR Ventures, NewView Capital	Fraud and risk detection protecting large consumer-facing enterprises from digital threats	\$40	-
12/14/22	Gladly			\$55	-
12/14/22	Mews	GGV Capital, Glynn Capital, Greylock Partners, Northeast Angels Investment Group, Riverwood Capital Battery Ventures, Goldman Sachs Asset Management, Kinnevik, Salesforce Ventures, Thayer Ventures	Cloud-based communication solution improving customer service  Property management solution for the hotel industry	\$185	\$865
	retrain.ai			\$14	\$64
12/14/22	Shabodi	.406 Ventures, Hetz Ventures, Radical Ventures, Splunk Ventures, Square Peg Capital	AI-based talent management solution to recruit and retain employees	\$10	<b>3</b> 04
12/14/22		Blumberg Capital, CEAS Investments, Counterview Capital, SineWave Ventures	Application enablement solution building high-performance enterprise applications on 5G		-
12/14/22	Spotler	CNBB Equity Partners, Mill Reef Capital	Email marketing solution for the e-commerce, retail, education and healthcare sectors	\$31	-
12/13/22	Api.video	Blossom Capital, Financière Saint James, MMC Ventures, Open Ocean	Cloud-based video platform for organizations to share and exchange knowledge	\$12	-
12/13/22	Beamery	Teachers' Venture Growth	Talent engagement platform identifying and engaging candidates	\$50	\$1,000
12/13/22	Dataiku	Battery Ventures, Insight Partners, Tiger Global Management, Wellington Management	Centralized data solution with predictive modeling and machine learning capabilities	\$204	\$3,700
12/13/22	Malwarebytes	Vector Capital	Network security platform helping stop cyberattacks	\$100	-
12/13/22	Sennder	n/a	Digitalized platform for the freight-forwarding process	\$63	\$2,084
12/13/22	TheyDo	20VC, Blossom Capital	Customer experience tools to improve engagement	\$13	=
12/13/22	Vic.ai	Costanoa Ventures, Cowboy Ventures, GGV Capital, ICONIQ Growth	AI-based accounting platform with insights and advisory information	\$52	\$223
12/12/22	Assembly	10X Capital, Acadian Ventures, Alpha Edison, Alumni Ventures, Homebrew, Wonder Ventures	HCM platform enabling recognition and rewarding among employees	\$13	-
12/12/22	MessageGears	Atlanta Ventures, Long Ridge Equity Partners, The Argentum Group	Cloud-based messaging platform using customer data to create conversation	\$62	-
12/12/22	Pindrop	n/a	Phone fraud detection and call center authentication platform	\$5	-
12/12/22	Snyk	Boldstart Ventures, Qatar Investment Authority, Salesforce Ventures, Tiger Global Management	Identification of open-source vulnerabilities through security analysis	\$197	\$7,400
12/12/22	ToolSense	aws Gründerfonds, Matterwave Ventures, PwC IIoT	Asset operations platform for construction and facility management	\$8	-
12/12/22	Zappi	Sumeru Equity Partners	Automated market research platform using collected consumer data	\$167	-
12/09/22	ParkDepot	Armira Partners, HenQ, Surplus Equity Partners	AI-based platform digitizing parking lot management	\$16	-
12/08/22	Pactum	3VC, Atomico, Maersk Growth, Metaplanet Holdings, NordicNinja VC, Project A, Taavet+Sten	AI-based platform automatically offering personalized, commercial negotiations	\$20	\$90
12/07/22	Avallain	i5invest, Round2 Capital Partners	LMS and e-learning platform for schools, universities and corporate teams	\$8	-
12/07/22	Axonaut	Bpifrance, Matmut Innovation, The Moon Venture	Business and project management platform for management businesses	\$10	-



# Software Private Capital Raise Activity: Q4 2022 continued

### (\$ millions)

Announced	Company	Participating Investor(s)	Description	Amount Raised	Post-Valuation
12/07/22	Clearsense	Health Catalyst Capital Management	Data platform-as-a-service for empowering data confidence	\$6	-
12/07/22	Drata	Alkeon Capital Management, GGV Capital, ICONIQ Growth, Salesforce Ventures, SentinelOne	Security and compliance automation platform	\$200	\$2,000
12/07/22	Elastic Path	Sageview Capital	API-based enterprise commerce platform for personalized buying experiences	\$30	-
12/07/22	OpenLoop	n/a	Online hiring platform to match healthcare providers with hiring institutions	\$13	-
12/07/22	SurrealDB	FirstMark Capital	Multi-model analysis platform to help users and developers build applications	\$6	-
12/07/22	Vaultree	CircleRock Capital, Elkstone Partners, SentinelOne, Ten Eleven Ventures	Encryption-as-a-service platform for data protection	\$13	-
12/06/22	Chattermill	Beringea, btov Partners, DN Capital, Runa Capital, Silicon Valley Bank, Ventech	Customer experience analytics platform for unified customer feedback	\$25	\$63
12/06/22	Dreamdata	Crowberry Capital, InReach Ventures, PreSeed Ventures, Signals Venture Capital	Go-to-market analytics and revenue attribution platform	\$6	-
12/06/22	Expeto	5G Open Innovation Lab, Lavrock Ventures, Mistral Venture Partners, Sorenson Capital	Private mobile networking platform for enterprise network management	\$12	-
12/06/22	Invent Analytics	CollectiveSpark, European Bank for Reconstruction and Development	Customer analytics platform for retail forecasting and supply chain design	\$8	-
12/06/22	Mapiq	ENERGIIQ, Rinkelberg Capital, TomTom	Cloud-based work management platform integrating facility systems for workplaces	\$18	-
12/06/22	MetalSoft	DNS Capital	Bare metal automation solutions managing data centers and vendors	\$16	-
12/06/22	Osome	AFG Partners, Illuminate Financial Management, Winter Capital	Enterprise management platform automating administrative services	\$25	-
12/06/22	Senhasegura	Graphene Ventures	Access management solutions facilitating information security for organizations	\$13	=
12/06/22	Trendspek	Archangel Ventures, Firemark Ventures, Taronga Ventures	Data inspection platform offering precision reality twins of assets	\$6	-
12/05/22	Apromore	GBTEC Software, Salesforce	Open-source business process analytics platform for data mining	\$10	-
12/05/22	Cinder	J2 Ventures	Intelligence and investigation platform customizing workflows for safety teams	\$13	-
12/05/22	Fringe	Felton Group, Origin Ventures, Revolution/ROTR, Sovereign Capital Management	Fringe benefits marketplace platform for employee administration	\$18	-
12/05/22	Heretto	n/a	Content management system automating content publishing across channels	\$17	\$49
12/02/22	GoSecure	n/a	Integrated endpoint threat platform protecting against cyber risks	\$6	-
12/02/22	Replay.io	n/a	Debugging solution for web developers to inspect their platforms	\$13	\$63
12/02/22	SirionLabs	Brookfield Asset Management	Contract management solution that validates and reconciles invoices	\$75	-
12/02/22	Tilt	n/a	Employee retention platform automating leave workflow management	\$75	\$60
12/02/22	Alitheon	AEI HorizonX, BMW i Ventures, Imagine Ventures	Machine vision solution that traces the lifecycle of goods without labels, markings or packaging	\$14	200
		MemorialCare Innovation Fund		\$12	\$38
12/01/22	Censinet		Third-party risk management platform with real-time insights into individual vendors	\$12	\$38
12/01/22	Certemy	Apis Holdings, Numeta Capital	Automated professional certification platform with performance tracking capabilities		-
12/01/22	FigBytes	Quantum Energy Partners	Cloud-based solution to track and measure social and environmental sustainability	\$15	-
12/01/22	LegalOn Technologies	n/a	AI-enabled contract review solution for the legal sector	\$126	-
12/01/22	OneRail	Alumni Ventures, Arsenal Growth, Bullpen Capital, Ironspring Ventures, Mana Ventures, Piva Capital	AI-based logistics management platform optimizing the entire delivery supply chain	\$33	\$105
12/01/22	RangeForce	Energy Impact Partners	Cybersecurity training platform that conducts simulated cyberattack exercises	\$19	-
12/01/22	Shield.	Macquarie Group, Mindset Ventures, OurCrowd, UBS Next	Communication compliance platform automating the complete communications lifecycle	\$20	\$102
11/30/22	Flare	50 North Ventures, Fonds de solidarité FTQ, Inovia Capital, Luge Capital, White Star Capital	Dark-net intelligence platform to prevent cyber-crimes	\$9	=
11/30/22	Pangea	Ballistic Ventures, Decibel Partners, GV, Okta Ventures, SYN Ventures	Security APIs portfolio delivering security solutions and APIs for application builders	\$26	\$165
11/30/22	Scw.ai	Birthing of Giants VC, Panoramic Ventures, Sabanci Holding	Digital factory platform providing end-to-end solutions to manufacturers	\$10	\$39
11/30/22	SPHERE	Edison Partners, Forgepoint Capital	End-to-end security intelligence model improving security and enhancing compliance	\$31	\$115
11/30/22	Teampay	Espresso Capital, Fin Capital, Mastercard, PROOF Fund, Trestle Partners	Distributed spend management platform helping organizations manage their expenses	\$47	-
11/29/22	deskbird	FortyOne Group, PortfoLion, Rivus Capital, session vc	On-demand workspace management platform facilitating collaboration and engagement	\$7	-
11/29/22	Frame AI	FirstMark Capital, G20 Ventures, Greycroft, Twilio, ValueStream Ventures	Collaborative messaging platform to improve business conversations	\$8	\$33
11/29/22	Frankieone	Apex Capital, Clearsign Capital, Greycroft, Kraken Ventures, Scalare Partners	Application programming interface platform to manage KYC, anti-money laundering and fraud	\$30	-
11/29/22	Live Data Technologies	n/a	Data aggregation and validation platform	\$5	\$27
11/29/22	zLinq	McCarthy Capital	Communication management platform for employee and client engagement	\$5	-
11/29/22	Zylo	Baird Capital, Coupa Ventures, High Alpha, Spring Lake Equity Partners	Enterprise management platform optimizing cloud-based subscriptions	\$32	-
11/28/22	V7	Amadeus Capital Partners, Radical Ventures, Temasek Life Sciences Accelerator	Perception platform accelerating artificial intelligence development	\$33	-
11/24/22	Acerta	BDC Capital, OMERS Ventures, StandUp Ventures	AI-based automotive analytics platform	\$8	-
11/24/22	Obrizum	Beaubridge, Celered Investments, Guinness Ventures, Juno Capital	Digital learning platform transforming digital learning through analytics	\$12	-
11/23/22	iSpot.tv	n/a	Advertising intelligence platform providing TV advertisement data and analytics	\$45	-
11/23/22	Pinata	Bullpen Capital, M13	Data-driven platform for collaborating and creating elevated consumer experiences	\$13	\$85
11/23/22	Ramani	Flexcap, Son Tech Investment, StartX	Application platform for salespeople to track inventory and record sales	\$32	-
11/23/22	Sapia.ai	Macquarie Group, W23	Conversational interview platform reducing biases in the hiring process	\$11	-
11/22/22	Bitwave	Alumni Ventures, Arca, Blockchain Capital, Hack VC, Hutt Capital, Pulsar Trading, SignalFire	Digital asset finance platform to manage cryptocurrency accounting and compliance	\$15	



# Software Private Capital Raise Activity: Q4 2022 continued

### (\$ millions)

Announced	Company	Participating Investor(s)	Description	Amount Raised	Post-Valuation
11/22/22	Exotanium	Cambium Capital Management, Celesta Capital, Eastlink Capital, Empire State Development	Cloud resource optimization and management to reduce cloud spend	\$14	\$34
11/22/22	Taktile	Index Ventures, Tiger Global Management	Data & analytics tool to industrialize, scale and maintain machine learning models	\$20	-
11/21/22	Diffblue	AlbionVC, IP Group, Oxford Investment Consultants, Parkwalk Advisors	Automated testing tool to reduce manual coding with autonomous unit test-writing	\$8	-
11/21/22	Habit Analytics	BiG Start Ventures, Bright Pixel Capital, Iberis Capital, SixThirty Ventures	Insurance management to optimize risk assessment and plan selection	\$5	-
11/20/22	Tenovos	Bertelsmann Investments, S4S Ventures	Digital asset management platform to help brands grow and engage their customers	\$10	\$55
11/18/22	AMFG	D&FG Elements, Intel Capital	Additive manufacturing execution system and workflow automation	\$10	-
11/17/22	Circularise	4impact.vc, Asahi Kasei, Brightlands Venture Partners, Caygan Capital, Neste	Supply chain traceability and secure data exchange enabled by blockchain	\$11	-
11/17/22	Eye Security	Bessemer Venture Partners	Insurance equipped cybersecurity platform for European SMEs	\$17	-
11/17/22	Private AI	BDC Capital, Differential Ventures, Shasta Ventures	Fraud detection management platform for developer privacy	\$8	-
11/17/22	Scoop	Activate Capital Partners, Audacious Ventures	Multi platform tool developer to enable businesses to plan flexible work arrangements	\$8	\$25
11/17/22	Symend	BDC Capital, Inovia Capital, Mistral Venture Partners	Behavior engagement platform that leverages consumer behavior to increase retention	\$40	-
11/16/22	ArmorCode	Ballistic Ventures, Sierra Ventures	Cybersecurity platform designed to simplify application security	\$14	\$63
11/16/22	Freshpaint	Intel Capital, Vibe Capital	No code customer data platform for monitoring site engagement	\$15	-
11/15/22	Bruviti	Marcone Appliance Parts	Predictive analytics for improved customer engagement	\$5	-
11/15/22	Buynomics	Dieter von Holtzbrinck Ventures, Insight Partners, La Famiglia, Seedcamp, Tomahawk.VC	Forecasting platform testing and optimizing prices under realistic conditions	\$13	-
11/15/22	CleverTap	n/a	AI-powered marketing engagement and analytics	\$35	-
11/15/22	Contentstack	Georgian, Illuminate Ventures, Insight Partners	Cloud-based content management powering omnichannel content	\$80	-
11/15/22	EngFlow	Andreessen Horowitz, Firstminute Capital, The Fund, Tiger Global Management	Remote execution platform helping developers	\$18	-
11/15/22	GovInvest	Level Equity	Liability and cost visualization platform assisting governments	\$19	-
11/15/22	MadKudu	Alven Capital Partners, Benhamou Global Ventures, Felicis Ventures, HarbourVest Partners, Notables	Marketing operations platform for well-informed data science decisions	\$17	\$77
11/15/22	MotherDuck	Altimeter Capital Management, Amplify Partners, Andreessen Horowitz, Madrona Venture Group	Data analytics platform offering big data solutions and profit maximization	\$48	-
11/15/22	omni:us	Württembergische & Badische Versicherungs	Insurance claim automation platform for understanding handwritten information	\$12	-
11/15/22	Send	Breega, Mercia Asset Management	Commercial insurance platform assisting clients in business management	\$10	=
11/15/22	ShipHero	n/a	Online logistics platform simplifying inventory management and shipping	\$10	-
11/15/22	Valcre	Avenue Growth Partners, Second Century Ventures	Appraisal platform for commercial real estate	\$13	\$63
11/14/22	Beeldi	Citizen Capital, MAIF Avenir, Starguest Capital China	Asset management platform simplifying technical management of a building	\$8	-
11/14/22	Cloudbrink	Highland Capital Partners, The Fabric	Cloud and IoT infrastructure for cloud application distribution	\$25	
11/14/22	Orfium	Big Pi Ventures	Rights management platform solving royalty collection issues	\$27	\$175
11/14/22	QualSights	n/a	Insights platform generating deeper and more authentic insights from customers	\$8	\$38
11/14/22	Recess	Data Point Capital, Spring Mountain Capital	Experimental marketing platform connecting brands with live events	\$5	-
11/14/22	Red Points	Eight Roads, Iris Capital, Mangrove Capital Partners, Northzone Ventures, Summit Partners	Brand and content protection platform detecting counterfeit goods online	\$20	_
11/13/22	Pelico	83North, ISAI, La Famiglia, Serena Capital	Data management platform helping operationalize teams and achieve outputs	\$19	_
11/11/22	Axiom Cloud	Blue Bear Capital, Frontier Venture Capital, North Bay Angels, Ulu Ventures	Power maintenance platform facilitating sustainable cooling systems management	\$12	_
11/11/22	Recess	Animal Capital, Aperiam Ventures, Data Point Capital, Spring Mountain Capital	Experimental marketing platform connecting brands with live events	\$12	_
11/10/22	Coefficient	Battery Ventures, Foundation Capital, S28 Capital	Data analytics platform allowing business teams to work with real-time data	\$18	\$78
11/10/22	DemandJump	n/a	Customer behavior and attribution platform saving time through automation	\$7	-
11/10/22	Mem	OpenAI Startup Fund	Productivity platform to streamline tasks and note-taking workflows	\$24	\$110
11/10/22	MetaCX	Tech Square Ventures	Business outcome management platform for visibility into customer success	\$13	-
11/10/22	Near	Blue Torch Capital, Greater Pacific Capital	Ambient intelligence platform providing data on people, places and products	\$100	-
11/10/22	Ordergroove	Primus Capital	Cloud-based commerce platform for subscription models and retention rates	\$100	_
11/09/22	Equals	Andreessen Horowitz, BoxGroup, Combine, Craft Ventures, Work Life Ventures	Spreadsheet platform with APIs to any database, versioning and collaboration	\$16	\$76
11/09/22	Keka	WestBridge Capital Partners	HR payroll management platform for leave, attendance and bonuses	\$57	-
11/09/22	Trinity Cyber	n/a	Cybersecurity platform to thwart advanced hacking techniques and threats	\$26	
11/09/22	Greenscreens.ai	Tiger Global Management	AI-based freight platform increasing broker margin contribution	\$5	\$65
11/08/22	Harmonic	Craft Ventures, Floodgate Fund, Pelion Venture Partners, Sozo Ventures	Enterprise platform transforming business activities into actionable insights	\$23	\$243
11/08/22	Tea	n/a	Development toolkit facilitating open-source adoption	\$23 \$16	-
11/08/22	Veriti	Amiti Ventures, Insight Partners, Merlin Ventures, NFX	Unified security posture management platform	\$12	\$39
11/06/22	CloseSimple	Plymouth Growth	Real estate-based platform to improve business communication	\$6	\$16
11/07/22	Exotanium	Cambium Capital Management, Celesta Capital, Eastlink Capital	Cloud resource optimization platform to reduce spending on cloud computing	\$12	\$32
11/07/22	MyTraffic	Alven Capital Partners, AXA Venture Partners	Big data platform for the commercial real estate sector	\$30	\$32



# Software Private Capital Raise Activity: Q4 2022 continued

### (\$ millions)

Announced	Company	Participating Investor(s)	Description	Amount Raised	Post-Valuation
11/07/22	Silverpush	JM Financial, Mirabilis Investment Trust, Seven Hills Capital	Advertising platform offering data-driven technologies to complex client problems	\$12	\$65
11/04/22	Poplar	n/a	Residential real estate platform with instant renter screening and maintenance recommendations	\$12	\$92
11/04/22	Purchasing Platform	n/a	Automated procurement management platform connecting property managers and vendors	\$8	\$50
11/04/22	Strategic Risk Associates	Jam Fintop Capital	Risk intelligence and intuitive performance management platform	\$12	-
11/03/22	Apiiro	General Catalyst, Greylock Partners, Kleiner Perkins	Code risk platform automating visibility and compliance assurance	\$100	-
11/03/22	DataLoop	Alpha Wave Global, Amiti Ventures, F2 Venture Capital, NGP Capital, OurCrowd	Enterprise-grade data platform leveraging AI to cover the entire data preparation cycle	\$33	\$111
11/03/22	Gitpod	Crane Venture Partners, General Catalyst, GTMFund, Pebblebed, Speedinvest, Vertex Ventures US	Open-source developer platform for remote development for businesses and engineers	\$25	-
11/03/22	Lodgify	Aldea Ventures, Bonsai Partners, Nauta Capital, Octopus Ventures	Short-term rental solution that synchronizes property information on vacation rental portals	\$30	\$88
11/03/22	Logiwa	BAM Elevate, LaunchCapital, NewRoad Capital Partners, Prologis Ventures, Valor Equity Partners	Supply chain management platform optimizing warehousing and inventory operations	\$26	\$110
11/03/22	Project44	A.P. Moller Holding, Generation Investment Management, Goldman Sachs Asset Management	Logistics management platform digitizing the shipment life cycle	\$80	\$2,700
11/03/22	Returnalyze	Data Point Capital, Dispatch Ventures	Return optimization platform leveraging existing transaction data to offer business insights	\$5	\$18
11/03/22	SparkPlug	Industry Ventures, Lightbank, TenOneTen Ventures	Performance management platform with POS integrations and automated sales reporting	\$8	-
11/02/22	AiDash	Schneider Electric	AI-based remote monitoring platform facilitating satellite-powered operations and maintenance	\$10	-
11/02/22	Alation	Blackstone, Costanoa Ventures, Riverwood Capital, Sanabil Investments, Thoma Bravo	Enterprise collaborative data platform utilizing business data to optimize decision making	\$148	\$1,748
11/02/22	Alethea Group	Ballistic Ventures	Threat detection and mitigation platform for enterprise clients preventing misinformation	\$10	-
11/02/22	Binary Defense	Invictus Growth Partners	Cybersecurity solutions offering managed detection and response and event management	\$36	-
11/02/22	Carta Healthcare	Asset Management Ventures, CU Healthcare Innovation Fund, Mass General Brigham	AI-based patient flow management platform optimizing operational efficiencies in hospitals	\$20	\$80
11/02/22	DGTAL	n/a	Big data analytics platform that optimizes back-office operations	\$6	-
11/02/22	Orum	Corp Capital, Craft Ventures, Tribe Capital, Unusual Ventures	Enterprise sales automation platform leveraging AI to accelerate calling for sales teams	\$22	\$362
11/02/22	Roam	Crew Capital, IVP	Virtual office interface enabling employees to communicate in one cloud environment	\$30	\$95
11/02/22	Teamstarter	Financière Vector, Matters, Odyssee Venture	Employee engagement platform enabling intra-company participatory financing	\$7	-
11/01/22	Cover Genius	Atlas Merchant Capital, Dawn Capital, G Squared, King River Capital	Insurance distribution platform featuring integrated end-to-end insurance capabilities	\$70	
11/01/22	Fringe	Felton Group, Origin Ventures, Revolution/ROTR, Sovereign Capital Management	Fringe benefits marketplace platform offering personalized benefits to employees	\$17	\$37
11/01/22	Galileo	Battery Ventures, FactoryHQ, FPV Ventures, Walden Catalyst	Data intelligence platform enabling clients to improve efficiencies and mitigate data biases	\$18	\$73
11/01/22	Hourly	CSC UpShot Ventures, Glilot Capital Partners, Vintage Investment Partners	Compensation insurance platform assisting small business owners with full-service payroll	\$32	\$77
11/01/22	MAD	AIRI Capital	AI-based platform offering computer vision modules to facilitate features like object recognition	\$21	\$141
11/01/22	Roots Automation	CRV, Liberty Mutual Strategic Ventures, MissionOG, Permit Ventures, Vestigo Ventures	AI-based platform offering computer vision modules to facilitate reatures the object recognition  AI-enabled process automation platform optimizing manual business operations	\$10	\$36
11/01/22	TouchBistro	Francisco Partners	Point-of-sale solution for restaurant owners and managers	\$109	\$30
11/01/22	Tour24		· · · · · · · · · · · · · · · · · · ·	\$109	-
		29th Street Capital, LAB Ventures, Middleburg	Self-guided property tour application streamlining leasing processes  Automated brand activation and marketing platform	\$20	- \$100
11/01/22	Way	Derive Ventures, MSD Capital, Side Door Ventures, Tiger Global Management	<u>.</u>	\$5	\$22
11/01/22	Xano	Engineering Capital, MHS Capital	No-code development platform for web, mobile and IoT applications		\$22
10/31/22	Bright Machines	Eclipse Ventures	Automated manufacturing optimization platform with AI and machine learning capabilities	\$132	-
10/31/22	Floreo	Autism Impact Fund, Felton Group, Tenfore Holdings, The Disability Opportunity Fund	Training platform for people with autism and other developmental challenges	\$10	-
10/30/22	newtrul	Bessemer Venture Partners, Crowley, Flex Capital, SignalFire	Shipment aggregation platform connecting shippers, brokers and carriers	\$5	-
10/28/22	Kaseya	n/a	IT management and monitoring platform for SMBs	\$178	-
10/27/22	BluSapphire	Baring Private Equity Partners India, Dallas Venture Capital, Merisis Advisors, RPG Ventures	Cybersecurity platform for SMBs in highly regulated industries	\$9	-
10/27/22	Cinchy	Forgepoint Capital, Information Venture Partners, ScaleUP Ventures, Techstars	Data management platform simplifying authorized access to data	\$15	-
10/27/22	CloudPay	Runway Growth Capital, The Olayan Group	End-to-end payroll management platform for multinational organizations	\$50	-
10/27/22	Resilia	Framework Venture Partners, Goldman Sachs Asset Management, Panoramic Ventures	Business technology platform for non-profit organizations	\$35	=
10/27/22	Versa Networks	BlackRock, Silicon Valley Bank	Cloud-integrated network and security platform	\$120	\$875
10/26/22	Decisiv	Morgan Stanley Expansion Capital	Supply relationship management solution for commercial assets	\$15	-
10/26/22	Impact Analytics	The Argentum Group	AI-powered business intelligence and insights platform	\$10	\$86
10/26/22	LatticeFlow	Atlantic Bridge Capital, FPV Ventures, Global Founders Capital, OpenOcean VC	System management platform deploying safe, reliable and trustworthy AI models	\$12	-
10/26/22	SwiftConnect	1414 Ventures, Bridge Investment Group, JLL Spark, Navitas Capital, Nuveen Investments	Property management platform simplifying building access	\$17	-
10/26/22	Toku	Betatron Venture Group, Delivery Hero Ventures, Neptune Invest, OSK Ventures International	Communication solution with SMS application integration and text-to-speech conversion	\$10	-
10/26/22	Trigo	83North, Hetz Ventures, Red Dot Capital Partners, REWE Group, SAP, Temasek Holdings	Automated checkout platform for grocery retail stores	\$100	-
10/26/22	Unito	Bessemer Venture Partners, Caisse de dépôt et placement du Québec	Project management platform synchronizing tasks and conversations	\$20	-
10/26/22	Valence Security	Akamai Technologies, Alumni Ventures, M12, Porsche Ventures, YL Ventures	Security platform managing risks associated with third-party integrations	\$25	-
10/26/22	Workerbase	Almaz Capital, Bayern Kapital, Point Nine Capital, Porsche Ventures	Process execution platform with task management and productivity analysis capabilities	\$10	-
10/25/22	PreVeil	Providence Strategic Growth	Encrypted email and file-sharing platform securing data across multiple devices	\$20	\$100



# Software Private Capital Raise Activity: Q4 2022 continued

### (\$ millions)

Announced	Company	Participating Investor(s)	Description	Amount Raised	Post-Valuation
10/25/22	Probely	Bright Pixel Capital, Caixa Capital, Iberis Capital, Semapa Next, TIIN Capital	Web application security suite for companies building online services	\$8	-
10/25/22	Resonai	Alon Blue Square Israel, Irani Ventures, Meitav Dash Investments, SBI Holdings	Visual search platform transforming commercial buildings into intelligent environments	\$20	-
10/25/22	Shippeo	Battery Ventures, ETF Partners, LFX Venture Partners, NGP Capital, Partech	Supply chain platform for real-time and multimodal transportation visibility	\$40	-
10/25/22	Spyderbat	Benhamou Global Ventures, LiveOak Venture Partners, NTTVC	Cybersecurity solution to integrate and enhance existing workflows	\$10	\$37
10/24/22	Fermyon Technologies	Amplify Partners, Insight Partners	Platform for writing microservices and web applications	\$22	\$87
10/24/22	Merge	Accel, Addition, New Enterprise Associates	Programming and integration tools for HR, payroll, recruiting and accounting platforms	\$55	\$315
10/23/22	Evercam	Calista Direct Investors, Elkstone Partners, Swiss Post Ventures	Construction solution to facilitate speedy completion and improve cost efficiency	\$9	-
10/21/22	Nammu21	Circle Ventures, Citigroup, Galaxy Digital Holdings, Raptor Group	Digitization and analytics platform that deconstructs complex documents in the financial sector	\$16	\$43
10/20/22	Corsa	Roadmap Capital	Network security virtualization platform to scale up network security in high-traffic networks	\$10	-
10/20/22	Skuad	Anthemis Group, BEENEXT Capital Management, Go-Ventures, Mindlance	Tech-enabled talent acquisition platform bridging the gap between talent and opportunities	\$15	-
10/20/22	Tellius	Baird Capital, Grotech Ventures, Sands Capital, Veraz Investments	Decision intelligence platform accelerating data-driven insight and decision-making	\$16	\$66
10/20/22	Voilà!	Azure Capital Partners, Desjardins Capital, IPanache Ventures, Walter Ventures	Scheduling platform driving employee engagement and increasing long-term profit	\$10	-
10/19/22	Shibumi	Guidepost Growth Equity	Strategy execution platform to manage complex and strategic problems	\$30	-
10/19/22	Wiiisdom	Isatis Capital	Business intelligence administration solution creating synergy between IT and Business	\$6	-
10/18/22	Anonos	Ghost Tree Partners	Solution making restricted assets accessible to expand and expedite data-driven initiatives	\$50	-
10/18/22	Bolster	Crosslink Capital, Liberty Global Ventures, Philou Ventures, Thomvest Ventures	AI-based cyber-security technology to detect phishing and fraudulent sites in real time	\$15	\$55
10/18/22	Definitive	n/a	User acquisition platform providing instant insights about project growth	\$15	\$75
10/18/22	Keebo	.406 Ventures, Neotribe Ventures, Pear, True Ventures, Uncorrelated Ventures	Cloud-based data-learning platform boosting the speed of BI dashboards	\$15	\$40
10/18/22	LeadScorz	Acorn Ventures, Keiretsu Forum	Lead management tool suite that validates and scores leads	\$6	\$15
10/18/22	Lumiq	InfoEdge Ventures, Redstart Labs, Season Two Ventures	Self-learning applications and data platforms to build and run analytics	\$5	\$39
10/18/22	Makersite	Hitachi Ventures, Kompas VC, Planet A, TransLink Capital	Data management for product sustainability, cost and compliance	\$18	-
10/18/22	Mobeus	n/a	Digital communication application providing frictionless connectivity	\$12	-
10/18/22	Payflows	Headline, Ribbit Capital	Treasury management platform helping businesses manage finances	\$6	-
10/18/22	Pulpo	Cracks Fund, FEMSA Ventures, Fondo de Fondos, Nazca, Swanlaab Venture Factory	Specialized vehicle management to make decisions and optimize fleet operations	\$8	-
10/18/22	RisingWave Labs	Yungi Partners	Database systems reducing the complexity and cost of building real-time applications	\$36	-
10/18/22	Ten Thousand Coffees	Five Elms Capital	Social platform allowing organizations to connect to their employees	\$56	-
10/18/22	Virtuous	The Arizona Founders Fund	Fundraising platform assisting nonprofits streamline fundraising processes	\$14	\$154
10/17/22	Biller Genie	n/a	Accounting platform tracking invoices and automating accounts receivables	\$5	-
10/17/22	HYCU	Acrew Capital, Atlassian Ventures, Bain Capital Ventures, Cisco Investments, Okta Ventures	Multi-cloud data management platform offering cloud data backup	\$53	-
10/17/22	Plandek	YFM Equity Partners	Information security and data analytics platform for data security and insights	\$5	\$23
10/15/22	Center	n/a	Expense management platform offering real-time data to organizations	\$64	\$564
10/14/22	Citalid	Albingia, Axeleo Capital, Fiblac, Relyens, Seventure Partners	Cybersecurity platform assessing the risks of being attacked by an algorithm	\$12	\$18
10/14/22	Murison	n/a	Virtual reality training platform reinventing professional learning	\$5	-
10/14/22	ThreatQuotient	n/a	Threat intelligence platform empowering security teams to respond to cyber threats	\$6	-
10/13/22	ARTA	10X Capital, AXA Venture Partners, Coelius Capital, Corazon Capital, Mu Ventures, Pari Passu Partners	Logistics management to automate high-value shipping and fulfillment	\$11	\$36
10/13/22	Carvolution	Armada Investment, Die Mobiliar, Redalpine Partners, Ringier Digital	Car subscription platform to offer an alternative to purchasing and leasing	\$17	\$219
10/13/22	Kadence	Crescent Ridge, Forward VC, Kickstart Seed Fund, Shadow Ventures	Platform providing data-driven insights on how employees use workspaces	\$11	-
10/13/22	Katana	42CAP, Atomico, Lightrock, Northzone Ventures	Inventory platform automating workflows for businesses looking to scale	\$35	-
10/13/22	MobileTrain	BNP Paribas Fortis, Concerta, Force Over Mass Capital, Fortino Partners, LRM	Mobile learning platform enabling efficient learning for employees	\$8	\$31
10/13/22	NorthOne	Battery Ventures, Ferst Capital, Next Play Capital, Redpoint Ventures, Wedbush Partners	Banking platform managing finances and integrating financial tools in one place	\$67	-
10/13/22	SecuriThings	Aleph, Cresson Management, Firsttime, Swisscom Ventures, US Venture Partners	Management platform integrating cloud-connected systems to protect data	\$21	\$80
10/13/22	Shadowbox	Baleon Capital	Cloud-based platform securing browsers and connecting multiple applications	\$6	-
10/13/22	Stratio	Adara Ventures, InfraVia Growth	Data management platform helping businesses digital transformations	\$64	\$169
10/13/22	Vectara	BECO, Feld Ventures, Green Sands, GTM Capital, NKM, Page One Ventures, Sparq	AI-powered text search platform	\$20	-
10/12/22	Assiduus	9Unicorns, Pulsar Capital, StrongHer VC, Venture Catalysts	AI-enabled e-commerce accelerator for direct-to-consumer brands	\$15	-
10/12/22	Bud	Outward Venture Capital, SEI Investments, TDR Capital	Open banking application connecting people, banks and service providers	\$80	-
10/12/22	Diagrid	Amplify Partners, Norwest Venture Partners, Quiet Capital	Enterprise platform to simplify, de-risk and navigate distributed systems	\$20	\$75
10/12/22	Immersive Labs	Citi Ventures, Goldman Sachs Asset Management, Insight Partners, Menlo Ventures, Summit Partners	Human cyber readiness platform to manage human cybersecurity capabilities	\$66	-
10/12/22	Ntropy	ComplyAdvantage, January Ventures, Lakestar, MoonPay, QED Investors, Ramp, Twilio Ventures	Data categorization platform to help companies identify fraud	\$11	\$41
10/12/22	Tehtris	AQUITI Gestion, Jolt Capital, Open CNP, Tikehau Ace Capital	Cybersecurity platform protecting organizations from malware	\$43	_



# Software Private Capital Raise Activity: Q4 2022 continued

### (\$ millions)

Announced	Company	Participating Investor(s)	Description	Amount Raised	Post-Valuation
10/12/22	TripActions	Addition, Andreessen Horowitz, Greenoaks Capital, Group 11, Lightspeed Venture Partners	Corporate travel management, expense management and payments platform	\$154	\$9,200
10/12/22	Vanta	Acrew Capital, Craft Ventures, CrowdStrike, Frontline Ventures, LAUNCH Fund, Sequoia Capital	Compliance and security automation platform to keep consumer data safe	\$150	\$1,640
10/11/22	Chronograph	Nasdaq Ventures, Summit Partners, The Carlyle Group	Data management and analytics platform offering portfolio monitoring and diligence	\$20	-
10/11/22	Factorial	Atomico, Creandum, CRV, GIC, Ischyros New York, KFund, Tiger Global Management	HR management for SMBs	\$120	\$1,000
10/11/22	Flueid	Aquiline Capital Partners, Commerce Ventures	Real estate platform streamlining the real estate lifecycle experience	\$20	\$135
10/11/22	ForUsAll	n/a	Cloud-based financial platform advising SMBs on 401(k) plans	\$5	-
10/11/22	Foxglove	Amplify Partners, Eclipse Ventures	Visualization and debugging platform to accelerate robotics development	\$15	\$60
10/11/22	Funnel Leasing	n/a	Real estate marketing solutions to manage inventory and optimize tenant experience	\$16	-
10/11/22	NumberOne AI	B5 Capital, Miramar Digital Ventures	Automated AI and ML platform designed to solve global problems	\$13	-
10/11/22	Quicket Solutions	Glencrest Global, Perfect Balance Investments	Workflow automation platform to streamline payments for the public sector	\$8	\$53
10/11/22	SettleMint	Allusion, Bloccelerate, Fujitsu Ventures, Medici Ventures, Molten Ventures, OTB Ventures	Blockchain solution helping integrate blockchain technologies into applications	\$21	-
10/11/22	Stairwell	Accel, Gradient Ventures, Lux Capital, Section 32, Sequoia Capital	Cybersecurity platform to help security teams detect and respond to cyber attacks	\$45	\$300
10/11/22	Zed	n/a	IDE for high-performance and collaborative developers	\$10	\$40
10/10/22	Connex One	GP Bullhound	Customer engagement platform enabling interactions with an omnichannel engine	\$104	-
10/10/22	Endor Labs	Dell Technologies Capital, Lightspeed Venture Partners, Sierra Ventures	Lifecycle management platform to make engineering a robust process	\$25	-
10/10/22	Meilisearch	CRV, ESOP Trust, Felicis Ventures, Mango Capital, Phoenix Court, Seedcamp	Open-source search engine that integrates with apps, websites and workflow	\$15	-
10/10/22	Stopwatch	n/a	Unified commerce platform offering real-time updates and data analytics	\$12	-
10/10/22	Vozy	Enlaces, Globant Ventures, GoHub Ventures, Plus, Starling Ventures	Voice AI platform transforming the way companies interact with customers	\$5	-
10/09/22	MindProber	Armilar Venture Partners, Iberis Capital	Consumer analytics platform for real-time media testing	\$6	\$15
10/08/22	Enable	HarbourVest Partners, Insight Partners, Lightspeed Venture Partners, Norwest Venture Partners	Enterprise collaboration platform to help manage trading agreements	\$94	\$856
10/07/22	Hwy Haul	BluePointe Ventures, Eileses Capital, True Blue Partners	Marketplace connecting shippers with carriers for freight transportation	\$10	\$53
10/07/22	Onebrief	n/a	Visual strategy platform providing mind mapping for the military	\$15	\$55
10/07/22	Proof	n/a	Business impact analytics platform to help marketing teams optimize costs	\$50	-
10/06/22	Altana	Activate Capital Partners, Amadeus Capital Partners, GV, OMERS Ventures, Prologis Ventures	AI platform offering trade data management services	\$100	\$430
10/06/22	Arctic Wolf	Ischyros New York, Ontario Teachers' Pension Plan, Owl Rock Capital, Viking Global Investors	Cybersecurity platform for keeping valuable business data safe	\$401	-
10/06/22	Clearspeed	King Philanthropies	Voice analytics system for accurately recognizing fraud in conversations	\$27	\$144
10/06/22	CrowdSec	Breega, Supernova Invest	Open-source cybersecurity automation platform to analyze IP addresses	\$14	-
10/06/22	Revelio Labs	Alumni Ventures, Barclays, K20 Fund	Workforce analytics platform to standardize public employment records	\$15	-
10/05/22	IriusRisk	360 Capital, Inveready, Paladin Capital	Automated threat modeling platform for the application design and development process	\$29	-
10/05/22	NetSPI	KKR	Cybersecurity penetration testing platform	\$410	-
10/05/22	WorkSpan	Insight Partners, Mayfield	Business partner management platform for marketing and selling to strategic partners	\$30	-
10/05/22	XOR	Verras Capital	Workforce recruitment platform to automate the recruitment process	\$7	\$40
10/04/22	Breezeway	Catalyst Partnesrs, Morningside Group	Online property management platform for short-term rentals	\$15	\$62
10/04/22	Bunny.net	Capital Genetics	Content Delivery Network to help developers build a faster and more reliable internet	\$6	-
10/04/22	Humaans	Frontline Ventures, Next Play Ventures	Human resource management platform to help optimize employee onboarding	\$15	-
10/04/22	Tines	Accel, CrowdStrike, Felicis Ventures	Security automation and response platform to automate repetitive processes	\$82	\$355
10/04/22	WorkFusion	n/a	Intelligent automation platform providing AI-enabled digital workers	\$9	-
10/04/22	Xembly	Ascend Venture Capital, Lightspeed Venture Partners	HCM platform providing an automated chief of staff for all employees	\$15	\$50
10/03/22	Bobsled	Greycroft	No-code data sharing platform connecting any cloud, platform or region	\$17	\$67
10/03/22	Expel	CapitalG, Cisco Investments, Greycroft	SecOps platform providing managed detection and response, phishing and threat hunting	\$171	\$1,077
10/03/22	Polco	BAT VC, Mercury Fund, Royal Street Ventures	Citizen engagement platform to collect community insights for government leaders	\$14	\$48
10/03/22	Securiti	General Catalyst, Mayfield, Owl Rock Capital	Privacy management platform integrating data security, privacy, governance and compliance	\$75	\$600
10/03/22	SingleStore	Goldman Sachs Growth Equity, Prosperity7	Data and analytics platform delivering a distributed SQL database for data-intensive applications	\$146	-
10/01/22	BlackSwan Technologies	Shefa Capital	AI-based big data analytics platform breaking the barriers of data acquisition and monetization	\$69	\$528



### **People - Industry Expertise - Process Excellence**



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