AUDIT & ASSURANCE | TAX & LEGAL | ADVISORY M&A - SOFTWARE SECTOR UPDATE Q4-2022

January 2023



## Software Outlook 2023: Finally, light at the end of the tunnel?

The software sector experienced a largely difficult and painful year 2022 driven by rising interest rates, increasing concerns about a (global) recession and investors' fear of weaker spending trends into 2023. However, the basis for a constructive investment backdrop is certainly there:

#### Attractive valuation multiples

- Share prices within our software universe experienced a sharp decline over the last year, correcting implied valuations back towards more attractive levels
- Equity research notes that valuations have pulled back -31% in 2022 vs. only -5% retracement of FY2023 sales expectations
- Especially growth stocks such as SaaS demonstrated the worst share price performance within our universe in 2022 (-44.5%)
- Potentially, 2023 will look like a two stage set-up where stage one will contain further estimate revisions after the Q4-22 reporting season while stage two with stabilizing interest rates and better prospects into 2024 should turn investors to focus on high growth/high quality assets in the second half of the year

#### Focus on operating profits & margins

- An uncertain macro climate combined with rising cost of capital led many tech companies to reassess growth plans and reprioritize profitability and cash flows
- Focus on leaner operations and cost control led to a surge in layoffs and slowed headcount growth
- This will support operating margins but won't lead to a massive uplift, i.e. will rather correct outsized sales growth expectations

#### Strong M&A activities

- Vendor consolidation trend will continue into 2023 as customers look to manage their cost base more effectively
- Primarily smaller tech-vendors might be impacted with larger rivals looking for tuck-in acquisitions to complete more integrated solutions
- In Germany, yearly software sector deal count increased from 179 to 205 (+15%) in 2022 with strategic buyers backing 60% of these deals



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# M&A sentiment & KPIs Q4-2022

M&A sentiment software sector – the "big picture"

#### Global Sales growth EBITDA-margin EV/Sales 23E **EV/EBITDA 23E** Subsector 23E 23E 775 in 04-2022 No. of deals SaaS 6.6x 23.8x 19.6% 17.6% 722 in 04-2021 Transaction **€44bn** in 04-2022 SCM 8.7x 30.0x 10.6% 29.1% Volume €177bn in Q4-2021\*\* PLM & 7.7x 22.4x 8.3% 37.4% Ē 4.6x in 2022 EV/Sales (x) Engineering (median-based) 4.2x in 2021 HCM 7.8x 21.4x 17.2% 27.9% Germany ERP 6.7x 22.9x 15.7% 26.3% No. of deals with **51** in O4-2022 German targets 37 in 04-2021 Cyber-5.4x 19.1x 17.4% 21.5% security Private Equity **37%** in 04-2022 involvement 47% global in Q4-2022 Large 5.1x 12.8x 8.7% 39.3% platforms

Implied software sector trading multiples\* & KPIs (median-based)

Sources: Mergermarket, CapitalIQ, BDO analysis

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Note: M&A sentiment transaction volume based on deals with disclosed figures. EV = Enterprise value (median-based) per 13<sup>th</sup> January 2023 \*) Implied multiples in excess of 25x (EV/Sales) or 50x (EV/EBITDA) have been excluded

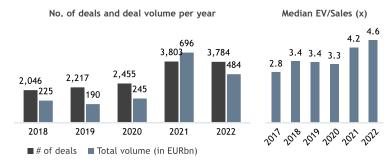
\*\*) Q4-2021 includes acquisitions such as Cerner by Oracle (€26bn); McAffee by Permira (€21bn) and Aspen Technology by Emerson (€9.5bn)



# M&A activity over time

Global software sector deal activity in Q4-2022 was in line with the three year average, while German deal activity remained strong

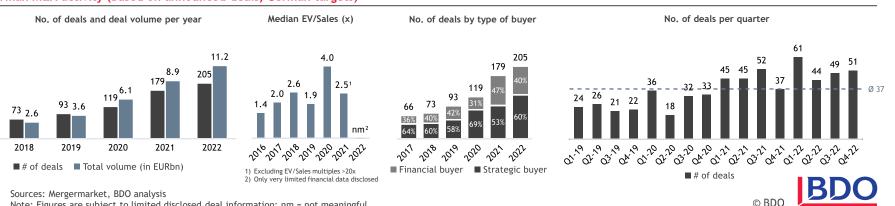
#### Global M&A activity (based on announced deals)







#### German M&A activity (based on announced deals, German targets)

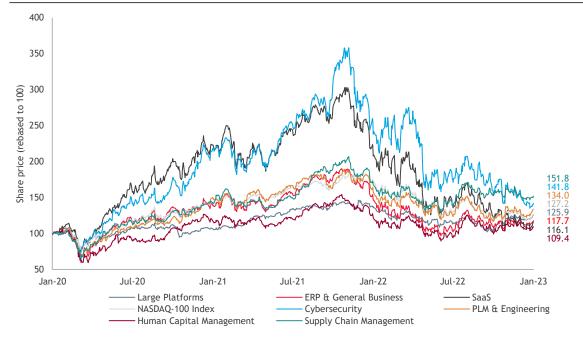


4 Note: Figures are subject to limited disclosed deal information; nm = not meaningful

# Recent software sector share price performance

2022 is characterized by weak share price performance across all software subsegments with SaaS and Cybersecurity being the worst performing segments of our universe – but recent 4W price trends signal a potential trough level

Share price performance over time (by selected software subsector)



Software subsector		Change (%	)
	3-year	1-Year	4-week
Supply Chain Management	<b>51.8</b> %	(9.0%)	0.2%
Cybersecurity	41.8%	(41.4%)	(5.6%)
PLM & Engineering	34.0%	(14.1%)	<b>5.9</b> %
NASDAQ-100 Index	27.2%	(26.1%)	(2.6%)
Large Platforms	25.9%	(7.8%)	5.2%
ERP & General Business	17.7%	(19.5%)	2.5%
SaaS	16.1%	(44.5%)	(0.7%)
Human Capital Management	9.4%	(9.1%)	(0.2%)

Sources: CapitalIQ, Equity Research, BDO analysis Note: Market data as of 13<sup>th</sup> January 2023. Subsector constituents limited to top 10 companies by market capitalization



## Appendix Selected M&A transactions & implied trading multiples



# Selected M&A transactions Q4-2022 (1/3)

Germany

Date	Target	Target activity	Buyer	EV (€m)	EV/Sales(x)	EV/EBITDA(x)
Dec-2022		Technical and compliance consultancy in the field of cyber security for the automotive industry, with a focus on the entire production chain	Sesa VARGROUP	n.a.	n.a.	n.a.
Dec-2022		Provider of cloud-based logistics platforms	🚔 🛞 Trimble.	2,183	n.a.	n.a.
Dec-2022		Developer of transport management and forwarding software		n.a.	n.a.	n.a.
Dec-2022	e GORILLAS	Online groceries ordering and delivery company	💿 getir	1,137	n.a.	n.a.
Dec-2022	evidanza.	Software provider of business intelligence solutions	CSS	n.a.	n.a.	n.a.
Dec-2022	• verso	Provider of software solutions for CSR management and communications		n.a.	n.a.	n.a.
Dec-2022		Developer and seller of explicit simulation solutions to the automotive industry	👙 🔥 🐣	n.a.	n.a.	n.a.
Nov-2022	- <sup>2</sup> artegic	Provider of marketing automation SaaS solutions		n.a.	n.a.	n.a.
Nov-2022	active logistics	Provider of complete IT solutions for logistics companies and the manufacturing industry	proLogistik	n.a.	n.a.	n.a.
Oct-2022		ERP software provider for businesses in manufacturing, retail, distribution, public and laboratories sectors	Elvaston	n.a.	n.a.	n.a.
Oct-2022	🛑 🔍 Green Plan GmbH	Provider of route planning software	EPG Entrer Connected Logistics	n.a.	n.a.	n.a.



Sources: Mergermarket, CapitalIQ, BDO analysis

7 n.a. = not available

# Selected M&A transactions Q4-2022 (2/3)

#### Global

Date	Target	Target activity	Buyer	EV (€m)	EV/Sales(x)	EV/EBITDA(x)
Dec-2022	🁙 🔅 coupa	Provider of cloud-based applications for finance		7,919	n.a.	n.a.
Dec-2022	Mistral	Company engaged in providing ERP software and computer programming services	😑 🔺 aptean	n.a.	n.a.	n.a.
Nov-2022	FieldConnect:	Software company providing mobile field service management software	Cordance.	n.a.	n.a.	n.a.
Nov-2022		Service management software business	👙 📚 ptc	1,409	n.a.	n.a.
Nov-2022	🚔 💰 rewst	Software company which develops a robotic process automation technology for smaller managed services providers	CPENVIEW	n.a.	n.a.	n.a.
Nov-2022	😑 ⊡ Integ <u>rh</u> o	Software company engaged in supplier of payroll software	sdworx	n.a.	n.a.	n.a.
Oct-2022		Supplier of HR and payroll software and outsourcing services	sdworx	n.a.	n.a.	n.a.
Oct-2022	▲ Market CutSmart	Software company engaged with field service management software for small and medium-sized enterprises	🕀 💊 VISMA	n.a.	n.a.	n.a.
Oct-2022	SKILLSURVEY	Provider of cloud-based talent acquisition and assessment products for human capital management professionals	👙 icims	n.a.	n.a.	n.a.
Oct-2022	🗷 🕅 valence	Software-cybersecurity company engaged with SaaS data, supply chain and identity risks through automated policy enforcement	to ther investors	n.a.	n.a.	n.a.
Oct-2022	👙 Finexio	Accounts payable automation software firm	€ S other investors	n.a.	n.a.	n.a.



Sources: Mergermarket, CapitalIQ, BDO analysis

8 n.a. = not available

# Selected M&A transactions Q4-2022 (3/3)

#### Global

Date	Target	Target activity	Buyer	EV (€m)	EV/Sales(x)	EV/EBITDA(x)
Oct-2022	te mage	Software company providing billing, accounting and carrier access billing systems software		n.a.	n.a.	n.a.
Oct-2022	👬 🎽 🏹 Talos 360	Human capital management solutions provider		n.a.	n.a.	n.a.
Oct-2022		First extended workforce system	Beeline <sup>.</sup>	n.a.	n.a.	n.a.
Oct-2022	BYFR•N	Company engaged in providing anti-cheat security solutions		n.a.	n.a.	n.a.
Oct-2022	Factorial	Software company engaged with developing a business and employee management software	atomico° & 5 other investors	1,030	n.a.	n.a.
Oct-2022	👙 workterra	Provider of cloud-based benefits administration and talent management solutions	🖶 🔞 businessolver	n.a.	n.a.	n.a.
Oct-2022	🕑 ТЕМРО	Developer of software suite for time tracking, resource management and budgeting	DIVERSIS CAPITAL	n.a.	n.a.	n.a.
Oct-2022		Provider of accountancy software	🕕 👃 Bright	n.a.	n.a.	n.a.
Oct-2022	() 🖨 tines	Provider of cybersecurity automation solutions	Felicis Ventures & 5 other investors	n.a.	n.a.	n.a.
Oct-2022		Provider of artificial Intelligence based malware detection solutions	👙 🧕 Qualys.	n.a.	n.a.	n.a.
Oct-2022		Provider of payroll tax and human capital management (HCM) information and software solutions for mid-sized businesses	GearBox Capital PARTAENS	n.a.	n.a.	n.a.



Sources: Mergermarket, CapitalIQ, BDO analysis

9 n.a. = not available

### Implied multiples SaaS players (1/2)

	Market cap	EV		EV / Sales			EV / EBITD	1		EV / EBIT			P / E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
SaaS														
Salesforce	136,948	139,468	4.4x	3.9x	3.4x	18.5x	16.4x	15.1x	20.0x	16.6x	13.4x	nm	75.1x	41.5x
ServiceNow	77,316	75,623	9.3x	7.6x	6.1x	28.9x	22.8x	18.8x	35.5x	27.9x	21.6x	nm	nm	84.7x
Shopify	45,727	42,360	6.9x	5.5x	4.2x	nm	nm	nm	nm	nm	64.6x	nm	nm	nm
Snowflake	41,874	38,476	14.2x	10.0x	6.7x	nm	nm	nm	nm	nm	72.9x	nm	nm	nm
Block Inc.	39,740	39,893	2.1x	1.8x	1.6x	33.4x	23.1x	17.8x	nm	nm	50.1x	nm	nm	51.1x
Workday	39,708	37,646	5.7x	4.8x	4.1x	21.4x	17.2x	12.2x	27.1x	21.6x	16.3x	nm	nm	80.9x
Atlassian	34,954	34,740	9.7x	7.7x	5.9x	nm	41.5x	na	60.6x	42.8x	26.8x	nm	nm	nm
Veeva	23,635	20,898	9.5x	8.1x	7.2x	24.5x	20.6x	17.5x	25.4x	21.4x	18.8x	57.8x	45.9x	38.7x
CrowdStrike	21,563	20,016	7.4x	5.7x	4.2x	36.7x	25.6x	na	45.0x	30.9x	21.1x	nm	nm	nm
Datadog	20,684	19,825	9.7x	7.2x	4.9x	50.0x	34.1x	na	55.7x	38.0x	18.1x	nm	nm	45.2x
DiDi	20,638	15,738	0.6x	na	na	na	na	na	na	na	na	na	na	na
Zoom	18,776	14,094	3.3x	3.1x	2.7x	10.4x	9.9x	na	10.8x	10.3x	9.1x	nm	nm	33.1x
Roblox	18,443	17,018	5.7x	5.0x	4.3x	nm	nm	39.0x	nm	nm	nm	nm	nm	nm
Paycom	16,284	16,018	10.3x	8.4x	7.1x	24.9x	20.1x	16.7x	29.8x	24.1x	19.2x	51.5x	39.4x	29.2x
Check Point Software	14,952	13,481	6.0x	5.7x	5.7x	13.3x	12.8x	na	13.5x	12.9x	13.1x	19.8x	19.2x	18.5x
Zscaler	14,303	13,743	8.7x	6.8x	4.9x	nm	36.8x	na	68.5x	47.2x	na	nm	nm	nm
HubSpot	14,175	13,668	7.2x	5.8x	4.7x	nm	42.7x	27.7x	nm	57.2x	31.3x	nm	nm	nm
Splunk	13,436	15,575	4.2x	3.6x	3.1x	23.1x	17.0x	na	29.1x	20.8x	14.9x	nm	nm	61.6x
Palantir	13,382	11,327	5.3x	4.3x	2.8x	23.8x	16.8x	na	26.2x	19.6x	na	nm	nm	30.0x
Cloudflare	13,344	13,280	10.9x	8.2x	5.7x	nm	nm	42.9x	nm	nm	70.0x	nm	nm	nm



### Implied multiples SaaS players (2/2)

	Market cap	EV		EV / Sales			EV / EBITDA	4		EV / EBIT			P/E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
SaaS														
MongoDB	12,650	12,140	8.5x	6.6x	5.0x	nm	nm	43.3x	nm	nm	60.9x	nm	nm	nm
Unity	11,761	11,876	5.9x	4.9x	4.4x	nm	25.2x	17.7x	nm	33.4x	26.5x	nm	nm	nm
DocuSign	10,843	10,715	4.3x	4.0x	3.5x	19.1x	16.6x	14.9x	21.2x	18.7x	15.0x	nm	nm	54.2x
Okta	10,328	10,243	5.2x	4.4x	3.4x	nm	nm	na	nm	nm	43.3x	nm	nm	nm
Bill.com	10,091	9,374	8.8x	6.9x	5.6x	nm	nm	40.2x	nm	nm	48.0x	nm	nm	nm
Paylocity Holding	9,985	9,994	8.7x	7.2x	6.1x	28.4x	22.8x	18.5x	33.5x	27.0x	22.3x	76.8x	59.4x	42.8x
Dynatrace	9,847	9,587	8.1x	6.7x	5.5x	30.2x	25.0x	na	32.7x	26.6x	na	nm	78.9x	50.5x
Ceridian	9,600	10,405	7.8x	6.6x	5.7x	37.8x	28.7x	22.6x	52.7x	37.7x	31.7x	nm	nm	90.3x
Twilio	9,204	6,472	1.6x	1.3x	1.1x	18.9x	13.8x	na	nm	38.4x	15.8x	nm	nm	nm
Dropbox	7,506	8,270	3.7x	3.4x	3.5x	10.0x	9.5x	8.9x	11.9x	11.0x	na	23.7x	22.3x	17.3x
UiPath	7,057	5,564	5.0x	4.2x	3.6x	nm	33.2x	30.5x	nm	52.7x	31.8x	nm	nm	na
Xero Limited	6,859	6,924	7.3x	6.2x	5.2x	33.2x	25.1x	18.0x	nm	56.2x	35.7x	nm	81.1x	44.4x
GitLab	6,220	5,410	10.1x	7.4x	na	nm	nm	na	nm	nm	na	nm	nm	na
Qualtrics	5,782	5,360	3.4x	2.9x	2.4x	36.9x	24.2x	na	60.9x	34.2x	13.0x	nm	nm	na
Confluent	5,403	4,644	6.6x	5.0x	na	nm	nm	na	nm	nm	na	nm	nm	na
HashiCorp	5,084	3,920	7.3x	5.7x	4.3x	nm	nm	na	nm	nm	nm	nm	nm	nm
Sinch	3,942	4,853	1.7x	1.5x	1.3x	14.5x	12.2x	9.8x	17.1x	17.2x	na	93.2x	37.7x	na
AppLovin	3,714	5,878	2.3x	2.0x	2.0x	5.9x	5.1x	4.6x	23.0x	12.2x	7.9x	45.4x	12.3x	8.0x
RingCentral	3,218	4,670	2.2x	1.9x	1.5x	11.7x	9.2x	7.5x	14.0x	11.0x	10.2x	nm	nm	nm
		Median	6.6x	5.6x	4.3x	23.8x	21.7x	17.8x	28.1x	26.6x	21.6x	51.5x	42.7x	43.6x
		Average	6.4x	5.3x	4.3x	24.2x	21.7x	21.2x	32.5x	28.4x	29.1x	52.6x	47.1x	45.7x

#### Source: CapitalIQ

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Note: Financials calendarised to 31<sup>st</sup> December, market data as of 13<sup>th</sup> January 2023, "na" = not available "nm" refers to implied multiples in excess of 25x (EV/Sales), 50x (EV/EBITDA), 75x (EV/EBIT) or 100x (P/E)



## Sales growth rates & operating margins SaaS players (1/2)

	Sa	ales growth	1	EB	SITDA marg	in	I	EBIT margi	in	Net	income m	argin		CAGR 2	3E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	Sales	EBITDA	EBIT	N.I.
SaaS																
Salesforce	11.1%	12.6%	14.5%	23.9%	24.0%	22.8%	22.2%	23.7%	25.7%	3.2%	5.1%	8.1%	13.5%	10.8%	22.2%	80.4%
ServiceNow	21.6%	22.4%	23.9%	32.1%	33.2%	32.5%	26.2%	27.2%	28.4%	5.1%	6.0%	7.4%	23.2%	24.0%	28.3%	47.9%
Shopify	20.6%	24.7%	32.2%	0.9%	5.1%	6.5%	(0.6%)	2.5%	6.5%	(10.5%)	(7.3%)	(1.4%)	28.4%	256.2%	na	(52.4%)
Snowflake	48.4%	41.1%	49.0%	7.6%	10.2%	11.1%	5.2%	7.9%	9.2%	(29.1%)	(20.2%)	2.4%	45.0%	75.4%	93.6%	na
Block Inc.	14 <b>.9</b> %	17.2%	16.5%	6.4%	7.9%	8.9%	(0.9%)	1.2%	3.1%	(1.0%)	1.2%	3.1%	16.8%	37.2%	na	na
Workday	17.4%	17.8%	18.5%	26.5%	28.1%	33.4%	20.9%	22.3%	24.9%	(2.3%)	0.8%	5.3%	18.1%	32.5%	28.9%	na
Atlassian	23.7%	25.8%	29.6%	16.9%	18.6%	na	16.0%	18.0%	22.2%	(8.1%)	(5.5%)	(0.4%)	27.7%	na	50.3%	(73.1%)
Veeva	12.8%	16.2%	13.6%	38.7%	39.4%	40.9%	37.2%	38.0%	38.0%	18.5%	20.1%	20.9%	14.9%	18.3%	16.3%	22.2%
CrowdStrike	34.5%	30.5%	35.0%	20.2%	22.2%	na	16.5%	18.4%	20.0%	(5.0%)	(1.6%)	3.5%	32.7%	na	46.2%	na
Datadog	33.3%	34.9%	45.8%	19.5%	21.1%	na	17.5%	19.0%	27.3%	(3.1%)	0.5%	11.4%	40.3%	na	75.5%	na
DiDi	1.5%	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Zoom	5.8%	5.9%	14.8%	31.9%	31.5%	na	30.6%	30.3%	29.8%	0.5%	1.3%	11.0%	10.3%	na	8.7%	404.9%
Roblox	15.9%	14.8%	16.1%	7.9%	9.5%	11.0%	(34.5%)	(31.7%)	(24.3%)	(34.6%)	(32.7%)	(24.6%)	15.5%	36.3%	(3.1%)	(2.7%)
Paycom	22.9%	21.6%	18.9%	41.3%	42.1%	42.4%	34.5%	35.1%	37.0%	20.3%	21.8%	24.7%	20.2%	21.9%	24.6%	32.7%
Check Point Software Tec.	5.0%	4.1%	1.2%	45.0%	44.7%	na	44.3%	44.4%	43.3%	33.5%	33.1%	33.9%	2.7%	na	1.5%	3.2%
Zscaler	34.9%	27.9%	38.4%	16.3%	18.4%	na	12.7%	14.4%	na	(16.6%)	(13.9%)	(8.1%)	33.1%	na	na	(7.0%)
HubSpot	20.5%	23.8%	23.8%	12.2%	13.6%	16.9%	8.4%	10.2%	15.0%	(7.6%)	(5.1%)	1.8%	23.8%	45.8%	65.1%	na
Splunk	16.8%	18.1%	17.4%	18.3%	21.1%	na	14.5%	17.3%	20.4%	(10.9%)	(8.4%)	4.3%	17.8%	na	39.7%	na
Palantir	21.2%	23.9%	50.8%	22.3%	25.5%	na	20.3%	21.9%	na	(6.6%)	0.4%	11.2%	36.7%	na	na	na
Cloudflare	35.1%	33.5%	43.1%	13.6%	13.5%	13.3%	3.7%	4.9%	8.2%	(16.4%)	(12.6%)	(7.8%)	38.2%	36.8%	104.7%	(4.5%)

12 "na" = not available

## Sales growth rates & operating margins SaaS players (2/2)

	S	ales growth	I	El	BITDA marg	in	I	EBIT margi	n	Net	income m	argin		CAGR 2	23E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	Sales	EBITDA	EBIT	N.I.
SaaS																
MongoDB	26.4%	27.9%	31.6%	4.6%	6.8%	11.6%	3.4%	5.3%	8.3%	(26.0%)	(20.7%)	(5.4%)	29.7%	106.2%	101.3%	(40.8%)
Unity	58.8%	19.2%	13.2%	10.0%	19.6%	24.7%	7.2%	14.8%	16.5%	(31.2%)	(21.9%)	(14.7%)	16.2%	82.4%	76.1%	(20.3%)
DocuSign	8.6%	8.9%	14.7%	22.7%	24.0%	23.2%	20.4%	21.3%	23.1%	(3.5%)	(1.8%)	6.5%	11.8%	13.1%	19.0%	na
Okta	19.6%	18.6%	27.4%	3.5%	7.3%	na	2.1%	5.4%	7.9%	(34.8%)	(27.7%)	(20.4%)	22.9%	na	137.1%	(6.0%)
Bill.com	39.8%	28.6%	23.8%	7.8%	10.5%	13.8%	5.0%	7.2%	11.6%	(27.9%)	(18.8%)	(8.5%)	26.2%	68.0%	91.5%	(30.5%)
Paylocity Holding	26.3%	20.1%	18.3%	30.5%	31.6%	32.9%	25.8%	26.7%	27.3%	11.3%	12.1%	14.2%	19.2%	23.8%	22.6%	33.9%
Dynatrace	19.6%	21.0%	20.2%	26.7%	26.7%	na	24.7%	25.0%	na	6.3%	8.7%	11.3%	20.6%	na	na	61.8%
Ceridian	17.2%	16 <b>.9</b> %	16.0%	20.6%	23.2%	25.4%	14.8%	17.6%	18.1%	0.3%	2.1%	5.9%	16.5%	29.5%	28.9%	437.1%
Twilio	16.7%	18.6%	18.6%	8.4%	9.6%	na	1.4%	3.5%	7.1%	(25.6%)	(23.0%)	(13.1%)	18.6%	na	170.4%	(15.1%)
Dropbox	5.6%	6.3%	(1.3%)	36.5%	36.2%	39.1%	30.8%	31.3%	na	14.0%	14.0%	18.2%	2.4%	6.1%	na	1 <b>6.9</b> %
UiPath	17.9%	18.9%	18.6%	7.7%	12.7%	11.7%	5.7%	8.0%	11.2%	(21.6%)	(16.4%)	na	18.7%	46.6%	66.7%	na
Xero Limited	21.4%	18.0%	17.9%	21.9%	24.6%	29.0%	7.6%	11.0%	14.7%	4.7%	7.5%	11.7%	17.9%	35.8%	64.2%	85.6%
GitLab	41.6%	37.1%	na	(14.6%)	(3.9%)	na	(16.2%)	(7.6%)	na	(39.8%)	(26.3%)	na	na	na	na	na
Qualtrics	16.6%	17.8%	22.2%	9.3%	12.0%	na	5.6%	8.5%	18.3%	(52.8%)	(36.0%)	na	20.0%	na	116.4%	na
Confluent	32.2%	31.9%	na	(18.9%)	(3.9%)	na	(20.8%)	(6.2%)	na	(57.7%)	(38.7%)	na	na	na	na	na
HashiCorp	28.7%	28.4%	31.2%	(25.1%)	(16.1%)	na	(26.3%)	(17.2%)	(7.5%)	(55.5%)	(41.6%)	(28.2%)	29.8%	na	(30.9%)	(7.4%)
Sinch	13.1%	12.9%	18.2%	11.7%	12.4%	13.0%	9.9%	8.8%	na	1.5%	3.2%	na	15.5%	21.6%	na	na
AppLovin	(0.0%)	10.7%	3.9%	38.1%	40.3%	42.4%	9.8%	16.8%	24.9%	3.1%	10.5%	15.4%	7.2%	13.1%	70.9%	137.7%
RingCentral	17.3%	16.6%	20.3%	18.5%	20.1%	20.4%	15.5%	16.8%	15.1%	(12.6%)	(11.8%)	(5.2%)	18.4%	24.4%	17.0%	(24.0%)
Median	19.6%	19.1%	18.7%	17.6%	19.8%	22.8%	11.3%	15.8%	18.1%	(7.1%)	(3.5%)	4.3%	19.0%	32.5%	46.2%	0.3%
Average	21.7%	20.9%	22.7%	16.3%	19.0%	22.9%	11.1%	13.7%	17.1%	(11.0%)	(6.4%)	2.9%	21.4%	46.3%	53.6%	45.0%



## Implied multiples Supply chain management

	Market cap	EV		EV / Sales			EV / EBITDA			EV / EBIT			P/E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
Supplychain & Logistics														
Dassault Systémes	46,801	47,024	7.7x	7.0x	6.3x	20.1x	18.3x	na	22.9x	20.7x	18.8x	42.1x	35.4x	31.1x
Aspen	11,975	11,954	10.5x	9.2x	7.7x	22.0x	18.7x	15.5x	23.1x	20.5x	na	nm	84.6x	46.8x
WiseTech Global	10,825	10,538	19.1x	15.7x	12.8x	35.9x	28.7x	23.2x	42.8x	33.5x	27.1x	60.4x	47.5x	38.6x
Manhatten Associates	7,059	6,899	9.2x	8.2x	7.2x	34.6x	30.3x	24.2x	35.8x	31.1x	na	67.8x	57.5x	41.3x
Descartes	5,564	5,348	10.9x	9.9x	8.5x	24.4x	21.8x	19.1x	37.3x	30.7x	27.5x	53.6x	45.2x	38.1x
SPS Commerce	4,427	4,225	8.7x	7.6x	na	30.0x	25.2x	na	34.8x	29.5x	na	82.7x	67.2x	na
Kinaxis	2,721	2,555	6.6x	5.7x	4.5x	38.9x	30.6x	na	nm	70.7x	31.0x	nm	nm	42.5x
American Software	463	365	3.0x	2.8x	na	18.6x	16.2x	na	21.4x	na	na	45.7x	44.1x	na
Tecsys	280	261	2.4x	2.2x	na	32.5x	17.3x	na	47.7x	na	na	63.7x	na	na
		Median	8.7x	7.6x	7.4x	30.0x	21.8x	21.2x	35.3x	30.7x	27.3x	60.4x	47.5x	39.9x
		Average	8.7x	7.6x	7.8x	28.6x	23.0x	20.5x	33.2x	33.8x	26.1x	59.4x	54.5x	39.7x



### Sales growth rates & operating margins Supply chain management

	S	ales growt	h	EE	SITDA mar	gin		EBIT marg	gin	Net	income m	argin		CAGR	23E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	Sales	EBITDA	EBIT	N.I.
Supplychain & Logistics																
Dassault Systémes	8.6%	9.2%	11.8%	38.2%	38.4%	na	33.5%	34.0%	33.4%	18.2%	19.8%	20.1%	10.5%	na	10.3%	16.3%
Aspen	44.5%	13.5%	20.2%	47.5%	49.4%	49.4%	45.3%	44.9%	na	1.5%	10.9%	16.4%	16.8%	19.0%	na	282.9%
WiseTech Global	22.1%	21.2%	23.3%	53.1%	54 <b>.9</b> %	55.0%	44.5%	47.0%	47.2%	32.4%	34.0%	34.0%	22.2%	24.4%	25.8%	25.2%
Manhatten Associates	8.2%	11.6%	14.1%	26.5%	27.1%	29.7%	25.6%	26.4%	na	13.9%	14.6%	17.9%	12.8%	19.5%	na	28.1%
Descartes	10.6%	11.0%	15.4%	44.9%	45.3%	44.8%	29.4%	32.1%	31.1%	21.2%	22.7%	23.4%	13.2%	13.1%	16.4%	18.7%
SPS Commerce	16.7%	14.5%	na	29.1%	30.2%	na	25.0%	25.8%	na	11.0%	11.9%	na	na	na	na	na
Kinaxis	12.2%	16.3%	26.8%	17.0%	18.6%	na	4.0%	8.1%	14.5%	2.1%	4.0%	11.3%	21.4%	na	130.8%	182.4%
American Software	4.5%	7.6%	na	16.1%	17.2%	na	14.0%	na	na	8.3%	8.0%	na	na	na	na	na
Tecsys	9.3%	11.3%	na	7.4%	12.5%	na	5.1%	na	na	4.1%	na	na	na	na	na	na
Median	10.6%	11.6%	17.8%	29.1%	30.2%	47.1%	25.6%	32.1%	32.2%	11.0%	13.3%	19.0%	15.0%	19.3%	21.1%	26.7%
Average	15.2%	12.9%	18.6%	31.1%	32.6%	44.7%	25.2%	31.2%	31.5%	12.5%	15.7%	20.5%	16.2%	19.0%	45.8%	92.3%



### Implied multiples PLM & Engineering

	Market cap	EV		EV / Sales			EV / EBITDA				EV / EBIT			P / E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E	202	3E	2024E	2025E	2023E	2024E	2025E
PLM & Engineering															
Dassault Systémes	46,801	47,024	7.7x	7.0x	6.3x	20.1x	18.3x	na	22.	9x	20.7x	18.8x	42.1x	35.4x	31.1x
Cadence Design	42,916	42,705	10.9x	9.9x	8.8x	23.5x	20.7x	na	26.	1x	22.2x	na	44.9x	34.8x	28.6x
Autodesk	40,004	41,142	8.2x	7.3x	6.4x	21.7x	19.0x	15.6x	22.	7x	19.6x	16.5x	48.4x	38.0x	26.7x
Hexagon	28,769	32,204	6.1x	5.6x	5.4x	16.4x	14.9x	13.4x	21.	3x	19.2x	18.1x	25.4x	22.6x	21.6x
ANSYS	20,460	20,691	10.2x	9.4x	8.5x	23.0x	21.3x	na	24.	4x	22.2x	18.0x	42.6x	38.5x	30.0x
PTC	14,163	15,335	7.7x	6.9x	na	19.1x	16.9x	na	21.	2x	18.5x	na	40.6x	34.1x	na
Trimble	12,426	13,705	3.8x	3.7x	na	14.5x	13.4x	na	16.	0x	15.1x	na	25.3x	22.7x	na
Bentley Systems	10,880	12,500	11.3x	10.1x	8.9x	32.7x	28.3x	24.4x	35.	1x	29.8x	25.5x	60.5x	49.0x	36.5x
Nemetschek	6,299	6,271	7.3x	6.4x	5.6x	23.2x	19.9x	17.8x	28.	3x	23.6x	19.0x	37.0x	30.5x	24.2x
Altair Engineering	3,687	3,726	6.7x	6.2x	5.6x	36.3x	30.0x	na	40.	0x	33.0x	na	nm	nm	na
		Median	7.7x	7.0x	6.4x	22.4x	19.5x	16.7x	23.	6x	21.4x	18.5x	42.1x	34.8x	28.6x
		Average	8.0x	7.3x	6.9x	23.0x	20.3x	17.8x	25.	8x	22.4x	19.3x	40.8x	34.0x	28.4x



## Sales growth rates & operating margins PLM & Engineering

	Si	ales growth	n	EI	BITDA marg	gin	I	EBIT margi	in	Net	income m	argin		CAGR 2	3E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	Sales	EBITDA	EBIT	N.I.
PLM & Engineering																
Dassault Systémes	8.6%	9.2%	11.8%	38.2%	38.4%	na	33.5%	34.0%	33.4%	18.2%	19.8%	20.1%	10.5%	na	10.3%	16.3%
Cadence Design	10.7%	9.7%	12.8%	46.2%	47.7%	na	41.6%	44.5%	na	24.3%	28.5%	30.8%	11.2%	na	na	25.3%
Autodesk	9.5%	11.9%	14.3%	37.8%	38.6%	41.2%	36.2%	37.4%	38.9%	16.5%	18.8%	23.4%	13.1%	18.0%	17.4%	34.5%
Hexagon	4.2%	7.7%	4.3%	37.0%	37.8%	40.4%	28.4%	29.3%	29.8%	21.3%	22.2%	22.3%	6.0%	10.7%	8.5%	8.4%
ANSYS	7.9%	8.8%	10.7%	44.4%	44.1%	na	42.0%	42.3%	47.2%	23.7%	24.2%	28.0%	9.7%	na	16.3%	19.2%
PTC	8.7%	11.7%	na	40.5%	41.1%	na	36.6%	37.5%	na	17.6%	18.8%	na	na	na	na	na
Trimble	5.5%	2.4%	na	26.3%	27.8%	na	23.8%	24.6%	na	13.6%	14.8%	na	na	na	na	na
Bentley Systems	9.3%	11.5%	13.7%	34.7%	35.9%	36.6%	32.3%	34.0%	35.0%	16.3%	18.0%	21.3%	12.6%	15.7%	17.4%	28.7%
Nemetschek	7.7%	12.7%	14.6%	31.3%	32.3%	31.6%	25.6%	27.3%	29.6%	19.7%	21.2%	23.3%	13.6%	14.1%	22.1%	23.6%
Altair Engineering	7.9%	7.8%	11.2%	18.5%	20.7%	na	16.8%	18.9%	na	(5.5%)	(3.0%)	na	9.5%	na	na	na
Median	8.3%	9.4%	12.3%	37.4%	38.1%	38.5%	32.9%	34.0%	34.2%	17.9%	19.3%	23.3%	10.9%	14.9%	16.8%	23.6%
Average	8.0%	9.3%	11.7%	35.5%	36.4%	37.4%	31.7%	33.0%	35.7%	16.6%	18.3%	24.2%	10.8%	14.6%	15.3%	22.3%



## Implied multiples Human Capital Management

-	Market cap	EV		EV / Sales			EV / EBITD	A			EV / EBIT			P / E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E		2023E	2024E	2025E	 2023E	2024E	2025E
Human Capital Management															
Automatic Data Processing	94,077	96,261	5.6x	5.3x	4.9x	20.2x	18.5x	17.3x		22.4x	20.6x	19.1x	28.8x	26.3x	24.5x
Paychex	40,085	39,727	8.3x	7.9x	7.4x	18.6x	17.2x	15.8x		20.4x	19.0x	17.7x	27.0x	25.4x	23.3x
Workday	39,708	37,646	5.7x	4.8x	4.1x	21.4x	17.2x	12.2x		27.1x	21.6x	16.3x	nm	nm	80.9x
Paycom	16,284	16,018	10.3x	8.4x	7.1x	24.9x	20.1x	16.7x		29.8x	24.1x	19.2x	51.5x	39.4x	29.2x
Paylocity	9,985	9,994	8.7x	7.2x	6.1x	28.4x	22.8x	18.5x		33.5x	27.0x	22.3x	76.8x	59.4x	42.8x
Ceridian	9,600	10,405	7.8x	6.6x	5.7x	37.8x	28.7x	22.6x		52.7x	37.7x	31.7x	nm	nm	90.3x
Benefitfocus	334	538	2.3x	2.2x	2.1x	13.1x	9.6x	9.0x		28.6x	18.4x	17.1x	nm	na	na
						1			_						
		Median	7.8x	6.6x	5.7x	21.4x	18.5x	16.7x		28.6x	21.6x	19.1x	40.1x	32.9x	36.0x
		Average	6.9x	6.1x	5.3x	23.5x	19.1x	16.0x	L	30.6x	24.1x	20.5x	46.0x	37.6x	48.5x



#### Sales growth rates & operating margins Human Capital Management

I		~	,															
	S	ales growt	h	E	BITDA mar	gin		EBIT mar	gin		Net i	income m	argin			CAGR 2	23E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2	023E	2024E	2025E		Sales	EBITDA	EBIT	N.I.
Human Capital Management																		
Automatic Data Processing	7.7%	6.8%	6.4%	27.9%	28.4%	28.6%	25.1%	25.6%	25.9%	19	.1%	19.5%	19.7%		6.6%	8.1%	8.4%	8.5%
Paychex	6.8%	6.0%	6.7%	44.9%	45.6%	46.7%	40.9%	41.4%	41.7%	31	.1%	31.2%	32.0%		6.4%	8.4%	7.4%	7.7%
Workday	17.4%	17.8%	18.5%	26.5%	28.1%	33.4%	20.9%	22.3%	24.9%	(2.	3%)	0.8%	5.3%	1	18.1%	32.5%	28.9%	na
Paycom	22.9%	21.6%	18.9%	41.3%	42.1%	42.4%	34.5%	35.1%	37.0%	20	.3%	21.8%	24.7%	2	20.2%	21.9%	24.6%	32.7%
Paylocity	26.3%	20.1%	18.3%	30.5%	31.6%	32.9%	25.8%	26.7%	27.3%	11	.3%	12.1%	14.2%	1	19.2%	23.8%	22.6%	33.9%
Ceridian	17.2%	16.9%	16.0%	20.6%	23.2%	25.4%	14.8%	17.6%	18.1%	C	.3%	2.1%	5.9%	1	16.5%	29.5%	28.9%	437.1%
Benefitfocus	1.8%	3.0%	5.4%	17.2%	22.9%	23.2%	7.9%	11.9%	12.2%	(6.	1%)	na	na		4.2%	20.9%	29.3%	na
Median	17.2%	16.9%	16.0%	27.9%	28.4%	32.9%	25.1%	25.6%	25.9%	11	.3%	15.8%	17.0%	1	6.5%	21.9%	24.6%	32.7%
Average	14.3%	13.2%	12.9%	29.8%	31.7%	33.2%	24.3%	25.8%	26.7%	10	.5%	14.6%	17.0%	1	13.0%	20.7%	21.5%	104.0%



19 "na" = not available

## Implied multiples ERP & General Business

	Market cap	EV		EV / Sales		1	EV / EBITD	Α			EV / EBIT			P / E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E		2023E	2024E	2025E	2023E	2024E	2025E
ERP & General Business															
Salesforce	136,948	139,468	4.4x	3.9x	3.4x	18.5x	16.4x	15.1x		20.0x	16.6x	13.4x	nm	75.1x	41.5x
Shopify	45,727	42,360	6.9x	5.5x	4.2x	nm	nm	nm		nm	nm	64.6x	nm	nm	nm
Workday	39,708	37,646	5.7x	4.8x	4.1x	21.4x	17.2x	12.2x		27.1x	21.6x	16.3x	nm	nm	80.9x
Constellation	33,043	34,516	4.9x	4.3x	na	18.6x	16.2x	na		31.2x	29.9x	na	82.3x	72.2x	na
Paycom	16,284	16,018	10.3x	8.4x	7.1x	24.9x	20.1x	16.7x		29.8x	24.1x	19.2x	51.5x	39.4x	29.2x
Paylocity	9,985	9,994	8.7x	7.2x	6.1x	28.4x	22.8x	18.5x		33.5x	27.0x	22.3x	76.8x	59.4x	42.8x
Ceridian	9,600	10,405	7.8x	6.6x	5.7x	37.8x	28.7x	22.6x		52.7x	37.7x	31.7x	nm	nm	90.3x
Sage Group	8,912	9,760	3.9x	3.7x	3.4x	16.7x	15.2x	14.3x		19.3x	17.3x	16.0x	26.5x	23.7x	22.1x
Manhattan Associates	7,059	6,899	9.2x	8.2x	7.2x	34.6x	30.3x	24.2x		35.8x	31.1x	na	67.8x	57.5x	41.3x
Descartes Systems	5,564	5,348	10.9x	9.9x	8.5x	24.4x	21.8x	19.1x		37.3x	30.7x	27.5x	53.6x	45.2x	38.1x
Smartsheet	5,142	4,805	5.5x	4.3x	3.6x	nm	nm	22.8x		nm	nm	31.5x	nm	nm	na
Monday.com	4,832	4,122	6.7x	5.1x	3.8x	nm	nm	na		nm	nm	nm	nm	nm	nm
SPS Commerce	4,427	4,225	8.7x	7.6x	na	30.0x	25.2x	na		34.8x	29.5x	na	82.7x	67.2x	na
Workiva	4,351	4,296	7.5x	6.2x	5.3x	nm	nm	na		nm	nm	na	nm	nm	na
Ziff Davis	3,665	4,020	3.0x	2.8x	na	8.2x	7.6x	na		9.7x	na	na	18.3x	15.6x	na
Technology One	2,817	2,726	9.8x	8.7x	7.7x	22.9x	19.7x	17.1x		31.4x	27.1x	23.3x	42.6x	36.6x	31.5x
Enghouse Systems	1,500	1,358	4.4x	na	na	13.3x	na	na		19.1x	na	na	25.6x	na	na
C3.ai	1,289	542	2.0x	1.7x	1.3x	nm	nm	na		nm	nm	38.2x	nm	nm	na
BigCommerce	696	736	2.5x	2.1x	na	nm	nm	na		nm	nm	na	nm	nm	na
		Median	6.7x	5.3x	4.8x	22.9x	19.9x	17.8x	1 [	31.2x	27.1x	23.3x	52.6x	51.3x	41.3x
		Average	6.5x	5.6x	5.1x	23.1x	20.1x	18.3x		29.4x	26.6x	27.6x	52.8x	49.2x	46.4x

#### Source: CapitalIQ

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Note: Financials calendarised to 31<sup>st</sup> December, market data as of 13<sup>th</sup> January 2023, "na" = not available "nm" refers to implied multiples in excess of 25x (EV/Sales), 50x (EV/EBITDA), 75x (EV/EBIT) or 100x (P/E)



### Sales growth rates & operating margins ERP & General Business

	Sa	ales growt	h	EB	ITDA marg	gin	E	BIT marg	in	Net	income m	nargin		CAGR 2	23E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	Sales	EBITDA	EBIT	N.I.
ERP & General Business																
Salesforce	11.1%	12.6%	14.5%	23.9%	24.0%	22.8%	22.2%	23.7%	25.7%	3.3%	5.1%	8.1%	13.5%	10.8%	22.2%	79.5%
Shopify	20.6%	24.7%	32.2%	0.9%	5.1%	6.5%	(0.6%)	2.5%	6.5%	(10.5%)	(7.3%)	(1.4%)	28.4%	256.2%	na	(52.4%)
Workday	17.4%	17.8%	18.5%	26.5%	28.1%	33.4%	20.9%	22.3%	24.9%	(2.3%)	0.8%	5.3%	18.1%	32.5%	28.9%	na
Constellation	15.7%	14.5%	na	26.3%	26.3%	na	15.6%	14.2%	na	5.7%	5.6%	na	na	na	na	na
Paycom	22.9%	21.6%	18.9%	41.3%	42.1%	42.4%	34.5%	35.1%	37.0%	20.3%	21.8%	24.7%	20.2%	21.9%	24.6%	32.7%
Paylocity	26.3%	20.1%	18.3%	30.5%	31.6%	32.9%	25.8%	26.7%	27.3%	11.3%	12.1%	14.2%	19.2%	23.8%	22.6%	33.9%
Ceridian	17.2%	16.9%	16.0%	20.6%	23.2%	25.4%	14.8%	17.6%	18.1%	0.3%	2.1%	<b>5.9</b> %	16.5%	29.5%	28.9%	437.1%
Sage Group	9.8%	7.9%	8.8%	23.5%	24.0%	23.4%	20.4%	21.2%	20.9%	13.6%	14.1%	13.9%	8.4%	8.1%	9.8%	9.6%
Manhattan Associates	8.2%	11.6%	14.1%	26.5%	27.1%	29.7%	25.6%	26.4%	na	13.9%	14.6%	17.9%	12.8%	19.5%	na	28.1%
Descartes Systems	10.6%	11.0%	15.4%	44.9%	45.3%	44.8%	29.4%	32.1%	31.1%	21.2%	22.7%	23.4%	13.2%	13.1%	16.4%	18.7%
Smartsheet	27.2%	26.5%	21.6%	0.5%	3.7%	15.7%	(1.5%)	1.8%	11.4%	(23.7%)	(19.7%)	na	24.0%	600.6%	na	na
Monday.com	29.8%	31.5%	34.3%	(9.5%)	(3.8%)	na	(11.9%)	(5.8%)	(2.0%)	(28.7%)	(21.4%)	(20.0%)	32.9%	na	(45.8%)	11.0%
SPS Commerce	16.7%	14.5%	na	29.1%	30.2%	na	25.0%	25.8%	na	11.0%	11.9%	na	na	na	na	na
Workiva	16.5%	20.5%	16.1%	1.1%	6.8%	na	(0.1%)	5.4%	na	(12.1%)	(11.0%)	na	18.3%	na	na	na
Ziff Davis	3.7%	7.5%	na	36.9%	36.8%	na	31.0%	na	na	15.0%	16.4%	na	na	na	na	na
Technology One	13.3%	12.8%	12.8%	43.0%	44.4%	45.1%	31.3%	32.2%	33.2%	23.8%	24.6%	25.4%	12.8%	15.5%	16.2%	16.3%
Enghouse Systems	4.5%	na	na	32.9%	na	na	23.0%	na	na	18.9%	na	na	na	na	na	na
C3.ai	14.8%	19.6%	27.6%	(20.1%)	(8.0%)	na	(21.6%)	(7.9%)	3.4%	(93.5%)	(71.3%)	na	23.5%	na	na	na
BigCommerce	14.4%	17.8%	na	(5.5%)	0.8%	na	(8.1%)	(0.8%)	na	(22.4%)	(16.3%)	na	na	na	na	na
Median	15.7%	17.3%	17.2%	26.3%	25.2%	29.7%	20.9%	21.2%	22.9%	5.7%	5.4%	13.9%	18.2%	21 <b>.9</b> %	22.2%	23.4%
Average	15.8%	17.2%	19.2%	19.6%	21.5%	29.3%	14.5%	16.0%	19.8%	(1.8%)	0.3%	10.7%	18.7%	93.8%	13.8%	61.5%



## **Implied multiples** Cybersecurity

	Market cap	EV		EV / Sales			EV / EBITD	A		EV / EBIT			P/E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
Cybersecurity														
Vmware	49,125	56,284	4.3x	3.9x	3.4x	11.3x	na	na	15.2x	13.7x	na	32.4x	25.6x	20.8x
Palo Alto Networks	38,807	38,953	5.6x	4.7x	3.9x	23.2x	18.7x	na	28.0x	22.6x	17.7x	nm	nm	53.0x
Fortinet	35,289	34,615	7.0x	5.8x	4.7x	24.1x	20.0x	na	26.5x	21.6x	18.1x	40.9x	33.6x	27.5x
CrowdStrike Holdings	21,563	20,016	7.4x	5.7x	4.2x	36.7x	25.6x	na	45.0x	30.9x	21.1x	nm	nm	nm
Check Point	14,952	13,481	6.0x	5.7x	5.7x	13.3x	12.8x	na	13.5x	12.9x	13.1x	19.8x	19.2x	18.5x
Zscaler	14,303	13,743	8.7x	6.8x	4.9x	nm	36.8x	na	68.5x	47.2x	na	nm	nm	nm
Gen Digital Inc.	13,762	22,106	6.4x	5.8x	5.3x	12.6x	11.8x	na	12.8x	10.7x	10.6x	17.2x	12.0x	10.0x
Splunk	13,436	15,575	4.2x	3.6x	3.1x	23.1x	17.0x	na	29.1x	20.8x	14.9x	nm	nm	61.6x
Cloudflare	13,344	13,280	10.9x	8.2x	5.7x	nm	nm	42.9x	nm	nm	70.0x	nm	nm	nm
Nice	11,541	10,892	4.9x	4.3x	3.7x	14.9x	13.4x	10.9x	16.5x	14.3x	14.0x	32.5x	28.4x	27.7x
DocuSign	10,843	10,715	4.3x	4.0x	3.5x	19.1x	16.6x	14.9x	21.2x	18.7x	15.0x	nm	nm	54.2x
OKTA	10,328	10,243	5.2x	4.4x	3.4x	nm	nm	na	nm	nm	43.3x	nm	nm	nm
Trend Micro	6,045	4,315	2.4x	2.3x	2.2x	9.7x	9.0x	na	14.4x	12.9x	11.8x	27.6x	24.8x	22.8x
CyberArk	4,513	4,161	6.2x	5.0x	4.2x	nm	nm	na	nm	nm	38.4x	nm	nm	nm
Tenable	3,851	3,737	5.0x	4.1x	3.4x	37.5x	25.3x	15.4x	44.0x	30.9x	18.3x	nm	nm	nm
Qualys	3,704	3,385	6.5x	5.7x	5.0x	15.7x	13.8x	na	18.0x	15.7x	na	38.1x	32.3x	na
BlackBerry	2,048	2,071	3.2x	2.6x	na	nm	41.1x	12.5x	nm	nm	na	nm	nm	nm
Rapid7	1,857	2,472	3.4x	2.8x	2.5x	41.3x	21.7x	na	53.9x	33.2x	22.1x	nm	nm	na
		Median	5.4x	4.5x	3.9x	19.1x	17.9x	14.9x	23.9x	19.7x	17.9x	32.4x	25.6x	27.5x
		Average	5.6x	4.7x	4.1x	21.7x	20.3x	19.3x	29.0x	21.9x	23.5x	29.8x	25.1x	32.9x



#### Sales growth rates & operating margins Cybersecurity

	Si	ales growtl	h	EB	ITDA marg	gin	E	BIT marg	in	Net	income m	argin		CAGR 2	3E-25E	
Companies	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	Sales	EBITDA	EBIT	N.I.
Cybersecurity																
Vmware	6.6%	9.6%	13.4%	37.7%	na	na	28.2%	28.6%	na	11.5%	13.3%	14.4%	11.5%	na	na	24.8%
Palo Alto Networks	23.4%	20.4%	19.3%	24.2%	24.9%	na	20.0%	20.7%	22.1%	2.0%	3.4%	7.4%	19.9%	na	26.0%	129.8%
Fortinet	21.1%	19.6%	24.0%	28.9%	29.2%	na	26.4%	27.0%	25.9%	17.4%	17.7%	17.5%	21.8%	na	20.8%	21.9%
CrowdStrike Holdings	34.5%	30.5%	35.0%	20.2%	22.2%	na	16.5%	18.4%	20.0%	(5.0%)	(1.6%)	3.5%	32.7%	na	46.2%	na
Check Point	5.0%	4.1%	1.2%	45.0%	44.7%	na	44.3%	44.4%	43.3%	33.5%	33.1%	33.9%	2.7%	na	1.5%	3.2%
Zscaler	34.9%	27.9%	38.4%	16.3%	18.4%	na	12.7%	14.4%	na	(16.6%)	(13.9%)	(8.1%)	33.1%	na	na	(7.0%)
Gen Digital Inc.	17.9%	10.5%	8.8%	50.8%	49.4%	na	50.1%	54.3%	50.3%	23.3%	30.3%	33.2%	9.6%	na	9.8%	30.8%
Splunk	16.8%	18.1%	17.4%	18.3%	21.1%	na	14.5%	17.3%	20.4%	(10.9%)	(8.4%)	4.3%	17.8%	na	39.7%	na
Cloudflare	35.1%	33.5%	43.1%	13.6%	13.5%	13.3%	3.7%	4.9%	8.2%	(16.4%)	(12.6%)	(7.8%)	38.2%	36.8%	104.7%	(4.5%)
Nice	7.5%	13.4%	17.1%	32.8%	32.2%	33.9%	29.7%	30.0%	26.2%	15.9%	16.1%	14.1%	15.3%	17.0%	8.3%	8.3%
DocuSign	8.6%	8.9%	14.7%	22.7%	24.0%	23.2%	20.4%	21.3%	23.1%	(3.5%)	(1.8%)	6.5%	11.8%	13.1%	19.0%	na
OKTA	19.6%	18.6%	27.4%	3.5%	7.3%	na	2.1%	5.4%	7.9%	(34.8%)	(27.7%)	(20.4%)	22.9%	na	137.1%	(6.0%)
Trend Micro	9.6%	7.2%	5.7%	25.2%	25.3%	na	16.9%	17.6%	18.3%	12.4%	12.9%	13.3%	6.4%	na	10.7%	10.2%
CyberArk	21.8%	23.2%	20.1%	2.7%	9.1%	na	(0.0%)	5.5%	10.9%	(17.6%)	(11.9%)	(7.8%)	21.7%	na	na	(19.0%)
Tenable	20.1%	19.3%	20.4%	13.2%	16.4%	22.3%	11.2%	13.4%	18.8%	(11.2%)	(9.4%)	(3.3%)	19.8%	<b>55.9</b> %	55.1%	(34.7%)
Qualys	15.6%	13.5%	13.1%	41.3%	41.3%	na	36.1%	36.2%	na	18.6%	19.3%	na	13.3%	na	na	na
BlackBerry	3.8%	23.3%	na	(6.8%)	6.3%	na	(14.6%)	(3.0%)	na	(46.4%)	(16.6%)	na	na	na	na	(59.7%)
Rapid7	16.7%	18.9%	12.1%	8.2%	13.0%	na	6.3%	8.5%	11.5%	(13.8%)	(9.5%)	na	15.4%	na	56.2%	na
Median	17.4%	18.8%	17.4%	21.5%	22.2%	22.8%	16.7%	18.0%	20.2%	(4.2%)	(1.7%)	6.5%	17.8%	26.9%	26.0%	3.2%
Average	17.7%	17.8%	19.5%	22.1%	23.4%	23.2%	18.0%	20.3%	21.9%	(2.3%)	1.8%	6.7%	18.5%	30.7%	41.2%	7.5%

23 "na" = not available

## Implied multiples Large Platforms

-	Market cap	EV		EV / Sales			EV / EBITD	A		EV / EBIT			P/E	
Companies	(EURm)	(EURm)	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
Large platforms														
Microsoft	1,648,784	1,620,955	7.7x	6.8x	5.9x	15.9x	13.7x	na	18.6x	16.0x	13.8x	23.1x	19.8x	17.0x
Oracle	222,300	299,977	6.2x	5.8x	5.3x	13.4x	12.2x	na	14.8x	13.4x	11.9x	25.0x	19.7x	18.5x
SAP	125,381	129,220	3.9x	3.6x	3.3x	12.2x	10.7x	na	14.3x	12.5x	10.4x	30.9x	25.1x	19.1x
IBM	121,918	173,760	3.1x	3.0x	2.7x	12.0x	11.4x	na	17.1x	16.4x	na	20.9x	19.1x	na
		Median	5.1x	4.7x	4.3x	12.8x	11.8x	na	16.0x	14.7x	11.9x	24.1x	19.7x	18.5x
		Average	5.2x	4.8x	4.3x	13.4x	12.0x	na	16.2x	14.6x	12.0x	25.0x	20.9x	18.2x



### Sales growth rates & operating margins Large Platforms

-		Si	ales growt	h	EE	BITDA mar	gin		EBIT marg	gin	Ne	t income n	nargin		CAGR	23E-25E	
Companies		2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	20238	2024E	2025E	Sales	EBITDA	EBIT	N.I.
Large platforms																	
Microsoft		10.2%	13.7%	14.9%	48.7%	49.9%	na	41.6%	42.5%	42.9%	34.1%	35.0%	35.4%	14.3%	na	16.1%	16.5%
Oracle		11.3%	7.9%	10.1%	46.5%	47.4%	na	42.2%	43.1%	44.2%	18.5%	21.8%	21.0%	9.0%	na	11.6%	16.3%
SAP		7.2%	8.1%	9.4%	32.1%	33.8%	na	27.3%	29.0%	31.8%	12.3%	14.0%	16.8%	8.7%	na	17.3%	27.2%
IBM		0.5%	5.3%	9.4%	26.0%	26.0%	na	18.2%	18.0%	na	10.4%	10.8%	na	7.3%	na	na	na
	Median	8.7%	8.0%	9.8%	39.3%	40.6%	na	34.4%	35.7%	42.9%	15.4%	17.9%	21.0%	8.9%	na	16.1%	16.5%
	Average	7.3%	8.8%	11.0%	38.3%	39.3%	na	32.3%	33.1%	39.6%	18.8%	20.4%	24.4%	9.9%	na	15.0%	20.0%

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