

Software/Finland, October 24, 2019 Company update

### High expectations for Q4

SSH's Q3 result missed our expectations and the company now needs a stellar Q4 in order to reach its guidance. SSH is progressing in the right direction, but the pace is slow due to limited growth investment capacity. We maintain our estimates and SELL recommendation with TP of 1.10 euros.

#### Result miss puts pressure on nailing Q4 to reach guidance

The Q3 result missed our expectations with sales being 3.6m vs our 5.0m estimate. SSH's prudent cost control led to lower opex than we had anticipated. Despite this, EBIT missed our expectations due to lower sales, with Q3 EBIT being -0.2m vs. 0.7m our estimate. Software fees were 1.3m (2.4m Evli), professional services were 0.1m (0.3m Evli), and recurring revenue was 2.3m (2.3m Evli). In order to reach FY'19 guidance, SSH needs some 7m sales in Q4, which would be an all-time best quarterly result. According to management, sales pipeline for Q4 is strong and they seem confident that the necessary key deals will be closed in Q4.

#### Secures €2M EU Horizon 2020 funding for PrivX program

SSH successfully attained a €2m SME grant from the EU for development and marketing of PrivX over the next 24 months. Based on our discussion with management, we note that PrivX is still in a development phase and the new funding will be instrumental to accelerating PrivX's roadmap, with most of the funding going towards R&D. The funding supports our estimates for the coming years, but we do not make any estimate changes at this point. Management sees critical applications even in sensitive fields, such as banks and financial institutions which are important clients to SSH, eventually transitioning to cloud or private cloud environments, but the transition will be over time and gradual. Therefore, PrivX is adapted for on-premise, with full SaaS version being part of the roadmap.

#### Maintain SELL recommendation with target price of €1.10

Post Q3 result, we have not made any changes to our estimates. Regardless of the profit warning risk, the underlying question in the investment case is still regarding growth. We note that, SSH is making progress, but the speed of the transition is slow due to limited growth investment capacity. We maintain our SELL recommendation and target price of 1.10 euros.



■ BUY □ HOLD ■ SELL

KEY FIGU	RES									
	Sales EURm	EBIT EURm	EBIT %	FCF EURm	EPS EUR	P/E (x)	EV/Sales (x)	EV/EBIT (x)	FCF yield %	DPS EUR
2017	16.2	-1.7	-10.5%	-2.2	-0.08	-21.9	4.1	-39.1	-3.2	0.00
2018	18.3	0.5	2.7%	-2.0	-0.01	-163.0	5.5	202.5	-3.1	0.00
2019E	17.1	0.9	5.4%	-0.8	-0.01	-215.7	3.1	57.5	-1.5	0.00
2020E	19.1	1.2	6.3%	1.7	0.02	91.8	2.7	43.1	3.1	0.00
2021E	21.4	1.5	7.0%	2.1	0.03	46.2	2.3	33.1	4.0	0.00
Market car	o, EURm		54 G	earing 2019E,	0/0		-89.4 CAGR	EPS 2018-2	1, %	0.0
Net debt*	2019E, EURm		-1 Pi	rice/book* 201	9E		26.3 CAGR	sales 2018-	21, %	5.4
Enterprise	value, EURm		53 D	ividend yield 2	2019E, %		0.0 ROE 2	019E, %		-14.5
Total asset	s 2019E, EURn	n	24 Ta	ax rate 2019E,	0/0		36.9 ROCE	2019E, %		6.3
	2019E, EURm	n deht	0 E	quity ratio 201	19E, %		61.9 PEG, F	P/E 19/CAGR		0.0

All the important disclosures can be found on the last pages of this report.



Software/Finland, October 24, 2019 Company update

We maintain our SELL recommendation and target price of 1.10 euros. On our '19-20E estimates, SSH is trading at EV/Sales of 3.1x and 2.7x, which is below the sector and could prompt SSH to become an acquisition target of larger players wanting to enter the space or a consolidation play. However, as a standalone business, we'd like to see stronger growth coming through in the numbers to justify higher valuation. Our target price implies an EV/Sales multiple of 2.2x on our '20E estimate, broadly in line with Nordic software peers.

Table 1: Peer groups

	MCAP		EV/EBIT			EV/SALES			P/E	
Cybersecurity	MEUR	19	20	21	19	20	21	19	20	21
Check Point Software Tech	14585	12,0x	10,8x	9,6x	6,0x	5,5x	4,9 x	17,6x	16,6x	15,1x
F-Secure	434	55,3x	25,4x	16,8x	2,0x	1,8x	1,6x	91,7x	34,4x	23,9x
Palo Alto Networks	18596	29,3x	24,4x	17,6x	5,9x	4,6x	3,6x	40,3x	38,2x	31,2x
Sophos Group	3207	55,2x	46,3x	34,8x	4,9x	4,4x	3,9x	48,4x	42,3x	37,0x
Symantec	12854	11,0x	10,1x	9,3x	3,5x	3,3x	3,1x	13,7x	12,6x	12,1x
Fortinet Inc	11835	22,2x	17,8x	13,9x	5,2x	4,3x	3,4x	34,2x	31,1x	28,1x
Peer Group Average	9935	30,9x	22,5x	17,0x	4,6x	4,0x	3,4x	41,0x	29,2x	24,6x
Peer Group Median	12854	25,8x	21,1x	15,3x	5,0x	4,3x	3,5x	37,2x	32,7x	26,0x
SSH (Evli est.)	54	57,5x	43,1x	33,1x	3,1x	2,7x	2,3x	-215,7x	91,8x	46,2x
SSH prem./disc. to peer median					-38 %	-37 %	-34 %			

SSH prem./disc. to peer median Source FactSet, Evli Research

Sales growth Check Point Software Tech 1677 4 % 50,1 % 50,3 % 50,9 % F-Secure 191 16 % 9 0/n 9 % 3.7 % 7.2 % 9.5% Palo Alto Networks 1962 44 % 19 % 19 % 20.3 % 19.0 % 20.4 % 11.2 % Sophos Group 636 5 % 9 % 9 % 8.8 % 9.4% Symantec 4235 2 % 2 % 0 % 31.6 % 32.8 % 33.2 % Fortinet Inc 23,9 % 1586 20 % 13 % 12 % 23,3 % 24,5 % Peer Group Average 1715 9 % 23,0 % 23,8 % 25,0 % 16 % 9 % Peer Group Median 9 % 9 % 21,8 % 21,5 % 1632 22,5 % SSH (Evli est.) 7,0 %

Source FactSet, Evli Research

	MCAP		EV/EBIT			EV/SALES			P/E	
PAM vendors	MEUR	19	20	21	19	20	21	19	20	21
CyberArk Software	3289	28,8x	23,0x	17,3x	7,3x	5,8x	4,6x	42,2x	37,2x	31,0x
Wallix Group	72			12,9x	2,3x	1,5x	1,0x			30,4x
Peer Group Average	1680	28,8x	23,0x	15,1x	4,8x	3,7x	2,8x	42,2x	37,2x	30,7x
Peer Group Median	1680	28,8x	23,0x	15,1x	4,8x	3,7x	2,8x	42,2x	37,2x	30,7x
SSH (Evli est.)	54	57,5x	43,1x	33,1x	3,1x	2,7x	2,3x	-215,7x	91,8x	46,2x
SSH prem./disc. to peer median					-35 %	-26 %	-18 %			

Source FactSet, Evli Research

	Sales		Sales growth			EBIT-%	
PAM vendors	18	19	20	21	19	20	21
CyberArk Software	304	25 %	19 %	18 %	25,4 %	25,3 %	26,7 %
Wallix Group	13	52 %	55 %	38 %	-26,8 %	-1,4 %	8,1 %
Peer Group Average	158	38 %	37 %	28 %	-0,7 %	12,0 %	17,4 %
Peer Group Median	158	38 %	37 %	28 %	-0,7 %	12,0 %	17,4 %
SSH (Evli est.)	18	-7 %	12 %	12 %	5,4 %	6 %	7 %

Source FactSet, Evli Research

	MCAP		EV/EBIT			EV/SALES			P/E	
Nordic software companies	MEUR	19	20	21	19	20	21	19	20	21
Basware	291		292,2x	35,9x	2,3x	2,2x	2,0x			
Efecte	28				1,8x	1,6x				
Enea	318	14,2x	12,9x	11,2x	3,6x	3,2x	2,9x	18,9x	15,9x	14,9x
Infront	93	25,2x	12,8x	11,1x	2,8x	1,8x	1,6x	19,0x	12,6x	11,1x
Qt Group	345	1439,8x	42,2x		6,1x	4,6x		30504,5x	57,4x	25,6x
Peer Group Average	215	493,1x	90,0x	19,4x	3,3x	2,7x	2,2x	10180,8x	28,7x	17,2x
Peer Group Median	291	25,2x	27,6x	11,2x	2,8x	2,2x	2,0x	19,0x	15,9x	14,9x
SSH (Evli est.)	54	57,5x	43,1x	33,1x	3,1x	2,7x	2,3x	-215,7x	91,8x	46,2x
SSH prem./disc. to peer median					13 %	24 %	17 %			

Source FactSet, Evli Research

	Sales		Sales growth			EBIT-%	
Nordic software companies	18	19	20	21	19	20	21
B asware	141	4 %	8 %	10 %	-9,7 %	0,7 %	5,5 %
Efecte	12	15 %	16 %	18 %	-11,4 %	-6,7 %	-0,5 %
Enea	80	20 %	5 %	7 %	25,1 %	25,0 %	25,7 %
Infront	28	155 %	51 %	4 %	11,0 %	13,8 %	14,6 %
Qt Group	46	21 %	25 %	24 %	0,4 %	10,9 %	20,0 %
Peer Group Average	62	43 %	21 %	12 %	3,1 %	8,7 %	13,1 %
Peer Group Median	46	20 %	16 %	10 %	0,4 %	10,9 %	14,6 %
SSH (Evli est.)	18	-7 %	12 %	12 %	5,4 %	6,3 %	7,0 %

Source FactSet, Evli Research

Software/Finland, October 24, 2019 Company update

INTERIM	FIGL	IRFS

EVLI ESTIMATES, EURm	2018Q1	2018Q2	2018Q3	2018Q4	2018	2019Q1	2019Q2	2019Q3	2019Q4E	2019E	2020E	2021E
Net sales	4.8	3.7	3.4	6.4	18.3	2.7	4.0	3.6	6.8	17.1	19.1	21.4
EBITDA	0.5	0.3	-0.4	1.7	2.1	-0.9	0.7	0.2	2.4	2.4	2.9	3.0
EBITDA margin (%)	10.3	8.0	-11.9	26.5	11.3	-33.3	18.3	5.6	35.3	14.2	15.2	14.1
EBIT	0.1	-0.1	-0.8	1.3	0.5	-1.3	0.4	-0.2	2.0	0.9	1.2	1.5
EBIT margin (%)	2.1	-2.7	-23.5	20.3	2.7	-48.1	10.8	-5.6	29.4	5.4	6.3	7.0
Net financial items	-0.1	0.1	0.0	0.0	0.0	0.1	-0.1	0.2	-0.1	0.1	-0.2	0.0
Pre-tax profit	0.0	0.0	-0.8	1.3	0.5	-1.2	0.3	0.0	1.9	1.0	1.0	1.5
Tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	-0.4	-0.2	-0.3
Tax rate (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	36.9	20.0	20.0
Net profit	-0.2	-0.2	-1.0	1.1	-0.4	-1.4	0.1	-0.2	1.3	-0.2	0.6	1.2
EPS	-0.01	-0.01	-0.03	0.03	-0.01	-0.04	0.00	-0.01	0.03	-0.01	0.02	0.03
EPS adjusted (diluted no. of shares)	-0.01	-0.01	-0.03	0.03	-0.01	-0.04	0.00	-0.01	0.03	-0.01	0.02	0.03
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SALES, EURm												
Software fees	1.7	0.7	1.0	2.1	5.5	0.5	1.7	1.3	4.2	7.7	8.3	10.2
Professional services	1.0	0.9	0.2	2.1	4.2	0.1	0.1	0.1	0.3	0.6	1.6	1.8
Recurring revenue	2.1	2.1	2.2	2.2	8.6	2.1	2.2	2.3	2.3	8.9	9.2	9.4
Total	4.8	3.7	3.4	6.4	18.3	2.7	4.0	3.6	6.8	17.1	19.1	21.4
SALES GROWTH, Y/Y %												
Software fees	183.3	-30.0	42.9	23.5	37.5	-70.6	142.9	25.0	100.0	39.1	8.5	22.9
Professional services	150.0	50.0	-50.0	-16.0	7.7	-90.0	-88.9	-50.0	-85.7	-85.7	166.7	12.5
Recurring revenue	0.0	0.0	10.0	4.8	3.6	0.0	4.8	2.3	4.5	2.9	4.0	2.2
Total	54.8	0.0	9.7	1.6	13.0	-43.7	8.1	5.9	6.3	-6.6	11.7	12.0
EBIT, EURm												
	0.1	-0.1	-0.8	1.3	0.5	-1.3	0.4	-0.2	2.0	0.9	0.0	1.5
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Total	0.1	-0.1	-0.8	1.3	0.5	-1.3	0.4	-0.2	2.0	0.9	1.2	1.5
EBIT margin, %												
Total	2.1	-2.7	-23.5	20.3	2.7	-48.1	10.8	-5.6	29.4	5.4	6.3	7.0

Software/Finland, October 24, 2019 Company update

INCOME STATEMENT, EURm	2014	2015	2016	2017	2018	2019E	2020E	2021E
Sales	16.2	18.9	15.1	16.2	18.3	17.1	19.1	21.4
Sales growth (%)	22.7	16.6	-20.1	7.3	13.0	-6.6	11.7	12.0
EBITDA	1.4	-2.8	-8.9	0.3	2.1	2.4	2.9	3.0
EBITDA margin (%)	8.7	-14.7	-58.8	1.8	11.3	14.2	15.2	14.1
Depreciation	-1.2	-1.6	-1.9	-2.0	-1.6	-1.5	-1.7	-1.5
EBITA	0.2	-4.4	-10.8	-1.7	0.5	0.9	1.2	1.5
Goodwill amortization / writedown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	0.2	-4.4	-10.8	-1.7	0.5	0.9	1.2	1.5
EBIT margin (%)	1.2	-23.3	-71.5	-10.5	2.7	5.4	6.3	7.0
Reported EBIT	0.2	-4.4	-10.8	-1.7	0.5	0.9	1.2	1.5
EBIT margin (reported) (%)	1.2	-23.3	-71.5	-10.5	2.7	5.4	6.3	7.0
Net financials	0.2	0.5	-0.3	-0.5	0.0	0.1	-0.2	0.0
Pre-tax profit	0.4	-3.9	-11.1	-2.2	0.5	1.0	1.0	1.5
Taxes	-0.1	0.0	0.0	0.0	0.0	-0.4	-0.2	-0.3
Minority shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit	0.3	-3.9	-12.0	-3.1	-0.4	-0.2	0.6	1.2
Cash NRIs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-cash NRIs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BALANCE SHEET, EURm								
Assets								
Fixed assets	4	5	5	5	5	6	5	5
Goodwill	0	0	0	0	0	0	0	0
Right of use assets	0	0	0	0	0	0	0	0
Inventory	0	0	0	0	0	0	0	0
Receivables	8	6	9	5	5	5	6	6
Liquid funds	6	11	8	14	14	13	6	6
Total assets	18	22	22	23	24	24	16	17
Liabilities								
Shareholder's equity	8	-1	-4	1	1	2	3	4
Minority interest	0	0	0	0	1	1	1	1
Convertibles	0	12	12	12	12	12	0	0
Lease liabilities	0	0	0	0	0	0	0	0
Deferred taxes	0	0	0	0	0	0	0	0
Interest bearing debt	0	0	0	0	0	0	3	1
Non-interest bearing current liabilities	10	10	14	10	10	9	10	11
Other interest-free debt	0	0	0	0	0	0	0	0
Total liabilities	18	22	22	23	24	24	16	17
CASH FLOW, EURm								-
+ EBITDA	1	-3	-9	0	2	2	3	3
- Net financial items	0	1	0	0	0	0	0	0
- Taxes	0	0	0	0	0	0	0	0
- Increase in Net Working Capital	0	3	0	0	-1	0	0	1
+/- Other	0	0	-1	-1	-1	-1	0	0
= Cash flow from operations	2	0	-10	-1	0	1	3	3
- Capex	-2	-3	-2	-1	-2	-2	-1	-1
- Acquisitions	0	0	0	0	0	0	0	0
+ Divestments	0	0	0	0	0	0	0	0
= Free cash flow	0	-2	-12	-2	-2	-1	2	2
+/- New issues/buybacks	4	-5	9	8	2	1	0	0
- Paid dividend	0	0	0	0	0	0	0	0
+/- Other	-4	12	0	0	0	0	-9	-1
Change in cash	0	5	-3	6	0	0	-8	1
ge cas	9	5	5	J	O	· ·	J	

Software/Finland, October 24, 2019 Company update

KEY FIGURES	2015	2016	2017	2018	2019E	2020E	2021E
M-cap	95	67	68	65	54	54	54
Net debt (excl. convertibles)	-11	-8	-13	-13	-13	-3	-5
Enterprise value	95	71	67	101	53	52	50
Sales	19	15	16	18	17	19	21
EBITDA	-3	-9	0	2	2	3	3
EBIT	-4	-11	-2	1	1	1	2
Pre-tax	-4	-11	-2	1	1	1	1
Earnings	-4	-12	-3	0	0	1	1
Equity book value (excl. minorities)	-1	-4	1	1	2	3	4
Valuation multiples							
EV/sales	5.1	4.7	4.1	5.5	3.1	2.7	2.3
EV/EBITDA	-34.3	-8.0	229.5	48.8	22.0	17.9	16.5
EV/EBITA	-21.7	-6.6	-39.1	202.5	57.5	43.1	33.1
EV/EBIT	-21.7	-6.6	-39.1	202.5	57.5	43.1	33.1
EV/OCF	317.0	-7.2	-99.3	1,851.1	55.5	18.7	15.4
EV/FCFF	-34.0	-6.0	-40.1	-50.1	-61.0	28.2	22.8
P/FCFE	-41.6	-5.5	-31.5	-32.2	-67.8	32.0	25.2
P/E	-24.1	-5.6	-21.9	-163.0	-215.7	91.8	46.2
P/B	-160.6	-17.6	75.6	46.6	26.3	20.5	14.2
Target EV/EBITDA	0.0	0.0	0.0	0.0	17.4	14.0	12.7
Target EV/EBIT	0.0	0.0	0.0	0.0	45.4	33.8	25.6
Target EV/FCF	0.0	0.0	0.0	0.0	-53.0	24.0	17.9
Target P/B	0.0	0.0	0.0	0.0	20.8	16.2	11.2
Target P/E	0.0	0.0	0.0	0.0	-170.7	72.7	36.6
Per share measures	0.0	0.0	0.0	0.0	770.7	, 2.,	00.0
Number of shares	31,370	34,561	38,441	38,802	38,802	38,802	38,802
Number of shares (diluted)	31,370	34,561	38,441	38,802	38,802	38,802	38,802
EPS	-0.13	-0.35	-0.08	-0.01	-0.01	0.02	0.03
Operating cash flow per share	0.01	-0.28	-0.02	0.00	0.02	0.07	0.08
Free cash flow per share	-0.07	-0.35	-0.06	-0.05	-0.02	0.07	0.06
Book value per share	-0.02	-0.11	0.02	0.04	0.05	0.07	0.10
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dividend payout ratio, %	0.0	0.00	0.00	0.00	0.0	0.0	0.0
Dividend yield, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FCF yield, %	-2.4	-18.2	-3.2	-3.1	-1.5	3.1	4.0
Efficiency measures	-2.4	-10.2	-5.2	-3.1	-1.5	5.1	7.0
ROE	0.0	0.0	0.0	-34.8	-14.5	25.1	36.2
ROCE	-45.7	-110.1	-16.1	3.6	6.3	11.4	24.8
Financial ratios	-+3.7	-110.1	-10.1	3.0	0.3	11.4	24.0
Inventories as % of sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Receivables as % of sales	29.3	56.6	29.6	29.6	29.6	29.6	29.6
Non-interest bearing liabilities as % of sales	29.3 54.7	90.1	63.6	29.6 53.6	29.6 53.6	53.6	53.6
NWC/sales, %	-25.5	-33.5	-34.0	-23.9	-23.9	-23.9	-23.9
Operative CAPEX/sales, %	13.7	15.8	9.2	11.3	10.3	5.6	5.1
CAPEX/sales (incl. acquisitions), %	13.7	15.8	9.2	11.3	10.3	5.6	5.1
FCFF/EBITDA	1.0	1.3	-5.7	-1.0	-0.4	0.6	0.7
Net debt/EBITDA, book-weighted	4.1	0.9	-46.6	-6.3	-5.5	-1.0	-1.7
Debt/equity, market-weighted	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Equity ratio, book-weighted	66.6	62.7	55.6	58.4	61.9	20.9	26.5
Gearing, %	-99.3	-95.6	-104.7	-92.8	-89.4	-86.3	-110.9

### **EVLI EQUITY RESEARCH**

# SSH COMMUNICATIONS SECURITY

Software/Finland, October 24, 2019 Company update

COMPANY DESCRIPTION: SSH Communications Security Corp (NASDAQ OMX Nordic: SSH1V) is the leading provider of enterprise cybersecurity solutions for securing access to servers and the cloud.

INVESTMENT CASE:

OWNERSHIP STRUCTURE	SHARES	EURm	0/0
Ylonen Tatu	14,508,473	20.167	37.4%
Clausal Computing Oy	3,808,650	5.294	9.8%
Mikkonen Juha Taneli	2,100,000	2.919	5.4%
Elo Mutual Pension Insurance Company	1,500,000	2.085	3.9%
Gaselli Capital Oy	1,200,000	1.668	3.1%
Ilmarinen Mutual Pension Insurance Company	1,165,300	1.620	3.0%
Syrjolo Timo Kalevi	835,011	1.161	2.2%
Varma Mutual Pension Insurance Company	755,300	1.050	1.9%
Taaleritehdas Mikro Markka Fund	623,000	0.866	1.6%
AC Invest Oy	400,000	0.556	1.0%
Ten largest	26,895,734	37.385	69%
Residual	11,906,266	16.550	31%
Total	38,802,000	53.935	100%

EARNINGS CALENDAR	
OTHER EVENTS	

COMPANY MISCELLANEOUS
-----------------------

CEO: Kaisa Olkkonen CFO: Niklas Nordstrom

Kornetintie 3, FIN-00380 Helsinki Tel: +358 20 500 7000

Software/Finland, October 24, 2019 Company update

### **DEFINITIONS**

P/E	EPS		
176	LI J		
Price per share  Earnings per share	Profit before extraord. items and taxes- income taxes + minority interest  Number of shares		
P/BV	DPS		
Price per share  Shareholders' equity + taxed provisions per share	Dividend for the financial period per share		
Market cap	OCF (Operating cash flow)		
Price per share * Number of shares	EBITDA – Net financial items – Taxes – Increase in working capital – Cash NRIs ± Other adjustments		
EV (Enterprise value)	FCF (Free cash flow)		
Market cap + net debt + minority interest at market value – share of associated companies at market value	Operating cash flow – operative CAPEX – acquisitions + divestments		
EV/Sales	FCF yield, %		
Enterprise value Sales	Free cash flow  Market cap		
EV/EBITDA	Operative CAPEX/sales		
Enterprise value Earnings before interest, tax, depreciation and amortization	Capital expenditure – divestments – acquisitions Sales		
EV/EBIT	Net working capital		
Enterprise value Operating profit	Current assets – current liabilities		
Net debt	Capital employed/Share		
Interest bearing debt – financial assets	Total assets – non-interest bearing debt  Number of shares		
Total assets	Gearing		
Balance sheet total	Net debt Equity		
Div yield, %	Debt/Equity, %		
Dividend per share Price per share	Interest bearing debt Shareholders' equity + minority interest + taxed provisions		
Payout ratio, %	Equity ratio, %		
Total dividends  Earnings before extraordinary items and taxes – income taxes + minority interest	Shareholders' equity + minority interest + taxed provisions  Total assets – interest-free loans		
ROCE, %	CAGR, %		
Profit before extraordinary items + interest expenses+ other financial costs  Balance sheet total – non-interest bearing debt (average)	Cumulative annual growth rate = Average growth per year		
ROE, %			
Profit before extraordinary items and taxes – income taxes  Shareholder's equity + minority interest + taxed provisions (average)			

Software/Finland, October 24, 2019 Company update

#### Important Disclosures

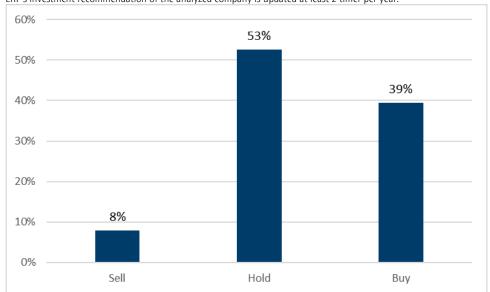
Evli Research Partners Plc ("ERP") uses 12-month target prices. Target prices are defined by utilizing analytical techniques based on financial theory including (but not limited to) discounted cash flow analysis and comparative valuation. The selection of valuation methods depends on different circumstances. Target prices may be altered on the basis of new information coming to light in the underlying company or changes in interest rates, changes in foreign exchange rates, other securities prices or market indices or outlook for the aforementioned factors or other factors that may change the conditions of financial markets. Recommendations and changes by analysts are available at <u>Analysts' recommendations and ratings revisions</u>.

Investment recommendations are defined as follows:

Target price compared to share price Recommendation

< -10 % SELL -10 - (+10) % HOLD > 10 % BUY

ERP's investment recommendation of the analyzed company is updated at least 2 timer per year.



The graph above shows the distribution of ERP's recommendations of companies under coverage in 1st of February 2019. If recommendation is not given, it is not mentioned here.

#### Name(s) of the analyst(s): Forslund

This research report has been prepared by Evli Research Partners Plc ("ERP" or "Evli Research"). ERP is a subsidiary of Evli Bank Plc. Production of the investment recommendation has been concluded on 24.102019, 9:00. This report has been published on 24.102019, 9:00.

None of the analysts contributing to this report, persons under their guardianship or corporations under their control have a position in the shares of the company or related securities.

The date and time for any price of financial instruments mentioned in the recommendation refer to the previous trading day's closing price(s) unless otherwise stated in the report.

Each analyst responsible for the content of this report assures that the expressed views accurately reflect the personal views of each analyst on the covered companies and securities. Each analyst assures that (s)he has not been, nor are or will be, receiving direct or indirect compensation related to the specific recommendations or views contained in this report.

Companies in the Evli Group, affiliates or staff of companies in the Evli Group, may perform services for, solicit business from, hold long or short positions in, or otherwise be interested in the investments (including derivatives) of any company mentioned in the publication or report.

Neither ERP nor any company within the Evli Group have managed or co-managed a public offering of the company's securities during the last 12 months prior to, received compensation for investment banking services from the company during the last 12 months prior to the publication of the research report.

ERP has signed an agreement with the issuer of the financial instruments mentioned in the recommendation, which includes production of research reports. This assignment has a limited economic and financial impact on ERP and/or EVIi. Under the assignment ERP performs services including, but not limited to, arranging investor meetings or –events, investor relations communication advisory and production of research material.

ERP or another company within the Evli Group does not have an agreement with the company to perform market making or liquidity providing services.

For the prevention and avoidance of conflicts of interests with respect to this report, there is an information barrier (Chinese wall) between Investment

#### **EVLI EQUITY RESEARCH**

### SSH COMMUNICATIONS SECURITY

Software/Finland, October 24, 2019 Company update

Research and Corporate Finance units concerning unpublished investment banking services to the company. The remuneration of the analyst(s) is not tied directly or indirectly to investment banking transactions or other services performed by Evli Bank Plc or any company within Evli Group.

This report has not been disclosed to the company prior to its dissemination.

This report is provided and intended for informational purposes only and may not be used or considered under any circumstances as an offer to sell or buy any securities or as advice to trade any securities.

This report is based on sources ERP considers to be correct and reliable. The sources include information providers Reuters and Bloomberg, stock-exchange releases from the companies and other company news, Statistics Finland and articles in newspapers and magazines. However, ERP does not guarantee the materialization, correctness, accuracy or completeness of the information, opinions, estimates or forecasts expressed or implied in the report. In addition, circumstantial changes may have an influence on opinions and estimates presented in this report. The opinions and estimates presented are valid at the moment of their publication and they can be changed without a separate announcement. Neither ERP nor any company within the Evli Group are responsible for amending, correcting or updating any information, opinions or estimates contained in this report. Neither ERP nor any company within the Evli Group will compensate any direct or consequential loss caused by or derived from the use of the information represented in this publication.

All information published in this report is for the original recipient's private and internal use only. ERP reserves all rights to the report. No part of this publication may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature, without the written permission of ERP.

This report or its copy may not be published or distributed in Australia, Canada, Hong Kong, Japan, New Zealand, Singapore or South Africa. The publication or distribution of this report in certain other jurisdictions may also be restricted by law. Persons into whose possession this report comes are required to inform themselves about and to observe any such restrictions.

Evli Bank Plc is not registered as a broker-dealer with the U. S. Securities and Exchange Commission ("SEC"), and it and its analysts are not subject to SEC rules on securities analysts' certification as to the currency of their views reflected in the research report. Evli Bank is not a member of the Financial Industry Regulatory Authority ("FINRA"). It and its securities analysts are not subject to FINRA's rules on Communications with the Public and Research Analysts and Research Reports and the attendant requirements for fairness, balance and disclosure of potential conflicts of interest. This research report is only being offered in U.S. by Auerbach Grayson & Company, LLC (Auerbach Grayson) to Major U.S. Institutional Investors and is not available to, and should not be used by, any U.S. person or entity that is not a Major U.S. Institutional Investor. Auerbach Grayson is a broker-dealer registered with the U.S. Securities and Exchange Commission and is a member of the FINRA. U.S. entities seeking more information about any of the issuers or securities discussed in this report should contact Auerbach Grayson. The securities of non-U.S. issuers may not be registered with or subject to SEC reporting and other requirements.

ERP is not a supervised entity but its parent company Evli Bank Plc is supervised by the Finnish Financial Supervision Authority.

### **EVLI EQUITY RESEARCH**

## SSH COMMUNICATIONS SECURITY

Software/Finland, October 24, 2019 Company update

## Contact information SALES, TRADING AND RESEARCH

Equity Sales		Trading		ETFs and Derivatives	
Ari Laine Lauri Ahokanto Niclas Henelius	+358 9 4766 9115 +358 9 4766 9117 +358 9 4766 9116	Lauri Vehkaluoto (Head) Pasi Väisänen Antti Kässi Miika Ronkanen	+358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120	Joachim Dannberg Kimmo Lilja	+358 9 4766 9123 +358 9 4766 9130
Structured Investments		Equity Research			
Heikki Savijoki Aki Lakkisto	+358 9 4766 9726 +358 9 4766 9123	Jonas Forslund Joonas Ilvonen Jerker Salokivi Anna-Liisa Rissanen	+358 9 4766 9314 +358 44 430 9071 +358 9 4766 9149 +358 40 157 9919		
Evli Investment Solutions					
Johannes Asuja Markku Reinikainen	+358 9 4766 9205 +358 9 4766 9669				



EVLI BANK PLC
Aleksanterinkatu 19 A
P.O. Box 1081
FIN-00101 Helsinki, FINLAND
Phone +358 9 476 690
Fax +358 9 634 382
Internet www.evli.com
E-mail firstname.lastname@evli.com

EVLI BANK PLC, STOCKHOLMSFILIAL Regeringsgatan 67 P.O. Box 16354 SE-103 26 Stockholm Sverige stockholm@evli.com Tel +46 (0)8 407 8000 Fax +46 (0)8 407 8001