

Software/Finland, February 7, 2019 Preview

Expecting a solid Q4

roughly EUR 1.5m in revenue in Q4.

SSH will report Q4 earnings next week on Tuesday, the 12th of February. We expect a solid Q4 result driven by patent license agreement and UKM license deal. Our focus in the Q4 report will be on strategy execution and actions to further accelerate SSH's growth in 2019. Our HOLD rating and target price of EUR 1.80 remain intact ahead of Q4.

Expecting a solid Q4 result driven by patent and UKM deals SSH announced in the end of last year that it had entered into a patent license agreement with a leading provider of patent risk management solutions. SSH has received a one-time payment of approximately EUR 1.75m which will be recognized in Q418. In addition, SSH previously announced a UKM license deal with a major global retail company, which is expected to contribute

Raising estimates for Q418, estimates for 2019 unchanged

We raise our Q4 estimates to take into account the EUR 1.75m patent license agreement. We now expect Q4 net sales to be EUR 7.2m (prev. 5.4m) and Q4 EBIT to be EUR 1.8m (prev. 0.3m). Our estimates for 2019 and onwards remain intact. We expect FY2018E net sales to be EUR 19.1m (vs. 16.2m 2017) and EBIT to be EUR 1.0m (vs. -1.8m 2017).

HOLD rating and target price of 1.80 euros maintained

Our focus in the Q4 call will be on strategy execution and actions to further accelerate SSH's growth in 2019. We're also keen on hearing an update on PrivX sales development, as SSH announced several partnerships regarding PrivX during the end of last year. We do not expect SSH to give any revenue or earnings guidance for 2019 (guidance ceased in 2017). We maintain our HOLD rating and target price of EUR 1.80 ahead of Q4.



■ BUY □ HOLD ■ SEL

KEY FIGU	IRES										
	Sales EURm	EBIT EURm	EBIT %	Ptx profit EURm	EPS EUR	P/E (x)	EV/Sales (x)	P/CF (x)	EV/EBIT (x)	DPS EUR	
2016	15	-11	-71.5%	-11	-0.35	-5.6	4.7	-7.7	-6.6	0.00	
2017	16	-2	-10.5%	-2	-0.08	-21.9	4.1	93.2	-39.1	0.00	
2018E	19	1	5.1%	1	0.00	-2,005.6	3.5	20.0	69.3	0.00	
2019E	20	0	-0.6%	-1	-0.04	-49.2	3.4	44.5	-535.1	0.00	
2020E	23	0	1.2%	0	0.00	-471.5	2.9	26.8	245.4	0.00	
Market ca	o, EURm		70 E	BV per share 201	8E, EUR		0.0 CAGR	EPS 2017-2	20, %	-63.7	
Net debt*	2018E, EURm		-3 F	Price/book* 2018	BE		55.5 CAGR sales 2017-20, %				
Enterprise	value, EURm		67 E	Dividend yield 20	018E, %		0.0 ROE 2018E, %				
Total asset	s 2018E, EURn	n	25 T	ax rate 2018E, o	/o		0.0 ROCE 2018E, %				
Goodwill 2	2018E, EURm		0 E	guity* ratio 201	8E. %		5.0 PEG, P/E 18/CAGR				

*EUR 12m hybrid included in debt

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

	2015	2016	2017	Q1/18A	Q2/18A	Q3/18A	Q4/18E	2018E	2019E	2020E	2021E
Net sales	18.9	15.1	16.2	4.8	3.7	3.4	7.2	19.1	20.0	23.1	27.1
				4.0	3.7	3.4	1.2				
growth %	16%	-20%	7%					18%	5%	16%	17%
Cost of goods sold	-6.5	-1.9	-1.4	-0.4	-0.2	-0.1	-0.6	-1.3	-1.6	-1.8	-2.2
of net sales%	34%	13%	9%	8%	5%	3%	8%	7%	8%	8%	8%
Gross profit	12.4	13.2	14.8	4.4	3.5	3.3	6.6	17.8	18.4	21.3	25.0
Gross margin %	66%	87%	91%	92%	95%	97%	92%	93%	92%	92%	92%
Sales and marketing costs	-10.0	-12.0	-8.9	-2.3	-2.1	-2.3	-2.7	-9.4	-10.2	-11.4	-12.7
of net sales%	53%	79%	55%	48%	57%	68%	38%	49%	51%	49%	47%
R&D costs	-5.1	-9.4	-5.6	-1.3	-1.1	-1.2	-1.4	-5.0	-6.0	-7.2	-8.2
of net sales%	27%	62%	35%	27%	30%	35%	20%	26%	30%	31%	30%
Administrative costs	-1.6	-2.5	-2.1	-0.7	-0.3	-0.6	-0.7	-2.3	-2.3	-2.4	-2.4
of net sales%	9%	17%	13%	15%	8%	18%	10%	12%	12%	10%	9%
Operating expenses	-16.7	-23.9	-16.6	-4.3	-3.5	-4.1	-4.8	-16.7	-18.5	-21.0	-23.3
of net sales%	89%	158%	102%	90%	95%	121%	67%	88%	93%	91%	86%
EBIT	-4.4	-10.7	-1.8	0.1	-0.1	-0.8	1.8	1.0	-0.1	0.3	1.7
EBIT margin %	-23%	-71%	-11%	2%	-3%	-24%	25%	5%	-1%	1%	6%

VALUATION RESULTS	BASE CASE DETAILS	VALUATION ASSUMPTIONS	ASSUMPTIONS FOR WACC	
Current share price	1.82 PV of Free Cash Flow	25 Long-term growth, %	3.0 Risk-free interest rate, %	2.25
DCF share value	1.87 PV of Horizon value	45 WACC, %	11.0 Market risk premium, %	5.8
Share price potential, %	2.7 Unconsolidated equity	0 Spread, %	0.5 Debt risk premium, %	2.8
Maximum value	2.0 Marketable securities	15 Minimum WACC, %	10.5 Equity beta coefficient	1.38
Minimum value	1.7 Debt - dividend	-12 Maximum WACC, %	11.5 Target debt ratio, %	15
Horizon value, %	64.7 Value of stock	72 Nr of shares, Mn	38.6 Effective tax rate, %	20

DCF valuation, EURm	2017	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	Horizon
Net sales	16	19	20	23	27	32	37	43	49	55	57	58
Sales growth, %	7.3	17.6	4.8	15.8	<i>17.3</i>	18.0	16.0	15.0	15.0	12.0	3.0	3.0
Operating income (EBIT)	-2	1	0	0	2	3	6	6	7	8	8	9
EBIT margin, %	-10.5	5.1	-0.6	1.2	6.1	10.0	15.0	15.0	15.0	15.0	15.0	15.0
+ Depreciation+amort.	2	2	1	1	1	2	2	2	3	3	4	
- Income taxes	0	0	0	0	0	0	0	0	0	0	0	
- Change in NWC	0	1	0	1	1	2	2	2	2	2	1	
NWC / Sales, %	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	
+ Change in other liabs	0	0	0	0	0	0	0	0	0	0	0	
- Capital Expenditure	-1	-1	-1	-2	-2	-3	-3	-4	-4	-4	-4	-4
Investments / Sales, %	9.2	5.9	<i>5.3</i>	8.3	8.5	8.6	8.4	8.3	8.3	7.9	6.6	6.6
- Other items	-1	-1	-1	0	0	0	0	0	0	0	0	
= Unlevered Free CF (FCF)	-2	1	0	0	2	4	6	7	8	9	9	115
= Discounted FCF (DFCF)		2	0	0	2	3	4	4	4	4	4	45
= DFCF min WACC		2	0	0	2	3	4	4	4	4	4	51
= DFCF max WACC		2	0	0	2	3	4	4	4	4	3	41

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INTERIM FIGURES

EVLI ESTIMATES, EURm	2017Q1	2017Q2	2017Q3	2017Q4	2017	2018Q1	2018Q2	2018Q3	2018Q4E	2018E	2019E	2020E
Net sales	3	4	3	6	16	5	4	3	7	19	20	23
EBITDA	-1	0	0	2	0	0	0	0	2	3	1	2
EBITDA margin (%)	-39.2	-3.1	-10.2	30.7	1.8	10.3	8.0	-11.9	30.2	13.3	6.3	6.7
EBIT	-2	-1	-1	1	-2	0	0	-1	2	1	0	0
EBIT margin (%)	-54.8	-16.2	-25.8	22.2	-10.5	2.1	-2.7	-23.5	24.7	5.1	-0.6	1.2
Net financial items	0	0	0	0	0	0	0	0	0	0	0	0
Pre-tax profit	-2	-1	-1	1	-2	0	0	-1	2	1	-1	0
Tax	0	0	0	0	0	0	0	0	0	0	0	0
Tax rate (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit	-2	-1	-1	1	-3	0	0	-1	1	0	-1	0
EPS	-0.05	-0.03	-0.03	0.03	-0.08	-0.01	-0.01	-0.03	0.04	0.00	-0.04	0.00
EPS adjusted (diluted no. of shares)	-0.05	-0.03	-0.03	0.03	-0.08	-0.01	-0.01	-0.03	0.04	0.00	-0.04	0.00
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	1	1	2	4	2	1	1	3	6	9	11
Professional services	0	1	0	3	4	1	1	0	2	4	2	2
Recurring revenue	2	2	2	2	8	2	2	2	2	9	9	10
Total	3	4	3	6	16	5	4	3	7	19	20	23
SALES GROWTH, Y/Y %												
Software fees	-14.3	-65.5	-41.7	30.8	-34.4	183.3	-30.0	42.9	70.6	57.5	36.1	33.3
Professional services	300.0	0.0	0.0	316.7	254.5	150.0	50.0	-50.0	-22.0	3.8	-45.7	-9.1
Recurring revenue	16.7	10.5	0.0	-4.5	5.1	0.0	0.0	10.0	9.5	4.8	5.7	5.4
Total	19.2	-22.9	-13.9	<i>53.7</i>	7.3	54.8	0.0	9.7	13.5	17.6	4.8	15.8
EBIT, EURm												
	-2	-1	-1	1	-2	0	0	-1	2	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Total	-2	-1	-1	1	-2	0	0	-1	2	1	0	0
EBIT margin, %												
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		68,290.0
T. (4.7	0.5.	00.7	40-	a :			a : =		31,440.0	
Total	-54.8	-16.2	-25.8	22.2	-10.5	2.1	-2.7	-23.5	24.7	5.1	-0.6	1.2

INCOME STATEMENT, EURm	2013	2014	2015	2016	2017	2018E	2019E	2020E
Sales	13	16	19	15	16	19	20	23
Sales growth (%)	10.9	22.7	16.6	-20.1	7.3	17.6	4.8	15.8
Costs	-12	-15	-22	-24	-16	-17	-19	-22
Reported EBITDA	1	1	-3	-9	0	3	1	2
Extraordinary items in EBITDA	0	0	0	0	0	0	0	0
EBITDA margin (%)	7.4	8.7	-14.7	-58.8	1.8	13.3	6.3	6.7
Depreciation	-1	-1	-2	-2	-2	-2	-1	-1
EBITA	0	0	-4	-11	-2	1	0	0
Goodwill amortization / writedown	0	0	0	0	0	0	0	0
Reported EBIT	0	0	-4	-11	-2	1	0	0
EBIT margin (%)	1.5	1.2	-23.3	-71.5	-10.5	5.1	-0.6	1.2
Net financials	0	0	1	0	0	0	0	0
Pre-tax profit	0	0	-4	-11	-2	1	-1	0
Extraordinary items	0	0	0	0	0	0	0	0
Taxes	0	0	0	0	0	0	0	0
Minority shares	0	0	0	0	0	0	0	0
Net profit	0	0	-4	-12	-3	0	-1	0
BALANCE SHEET, EURm			<u>-</u>					
Assets								
Fixed assets	3	4	5	5	5	4	4	5
% of sales	26	25	<i>26</i>	36	30	23	21	21
Goodwill	0	0	0	0	0	0	0	0
% of sales	0	0	0	0	0	0	0	0
	0	0			0		0	0
Inventory % of sales			0	0		0		
	0	0	0	0	0	0	0	0
Receivables	4	8	6	9	5	6	6	7
% of sales	32	46	29	<i>57</i>	30	30	<i>30</i>	30
Liquid funds	6	6	11	8	14	15	15	7
% of sales	44	38	60	52	83	80	<i>75</i>	30
Total assets Liabilities	13	18	22	22	23	25	25	19
Equity	3	8	-1	-4	1	1	0	0
% of sales	26	48	-3	-25	6	7	1	0
Deferred taxes	0	0	0	0	0	0	0	0
% of sales	0	0	0	0	0	0	0	0
Interest bearing debt*	4	0	12	12	12	12	12	4
% of sales	30	0	64	<i>79</i>	74	63	60	16
Non-interest bearing current liabilities	4	10	10	14	10	12	13	15
% of sales	29	60	55	90	64	64	64	64
Other interest free debt	2	0	0	0	0	0	0	0
% of sales	17	0	0	0	0	0	0	0
Total liabilities	13	18	22	22	23	25	25	19
CASH FLOW, EURm								
+ EBITDA	1	1	-3	-9	0	3	1	2
- Net financial items	0	0	1	0	0	0	0	0
- Taxes	0	0	0	0	0	0	0	0
- Increase in Net Working Capital	-1	0	3	0	0	1	0	1
+/- Other	0	0	0	-1	-1	-1	-1	0
= Cash flow from operations	0	2	0	-10	-1	3	0	2
- Capex	-2	-2	-3	-2	-1	-1	-1	-2
- Acquisitions	0	0	0	0	0	0	0	0
+ Divestments	0	0	0	0	0	0	0	0
= Net cash flow	-2	0	-2	-12	-2	1	-1	0
+/- Change in interest-bearing debt	4	-4	12	0	0	0	0	-8
+/- New issues/buybacks	-3	4	-5	9	8	0	0	0
- Paid dividend	0	0	0	0	0	0	0	0
+/- Change in loan receivables	0	0	0	0	0	0	0	0
Change in cash	-1	0	5	-3	6	2	0	-8
Change III Casii	-1	U	υ	-3	Ü	2	U	-0

^{*}EUR 12m hybrid included in debt

M-cap 78 95 67 68 70 70 Net debt* -6 1 4 -1 -3 -3 Enterprise value 72 95 71 67 67 67 Sales 16 19 15 16 19 20 BBITA 1 -3 -9 0 3 1 EBITA 0 -4 -11 -2 1 0 Pre-tax 0 -4 -11 -2 1 -1 Earnings 0 -4 -11 -2 1 -1 Book value 8 -1 -4 1 1 0 -1 EV/sales 4.4 5.1 4.7 4.1 3.5 3.4 -2 2 1 0 0 -4 -1 4 1 3.5 3.4 -2 -2 -2 -3 1 -4 1 4 3	70 -3 67 23 2 0 0 0 0 0 0 2.9 43.2 245.4 245.4 25.6 49.5
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EV/EBITA 358.2 -21.7 -6.6 -39.1 69.3 -535.1 EV/Departing cash flow 38.9 -422.7 -8.2 91.2 19.1 42.7 EV/cash earnings 46.3 -41.3 -7.8 -316.9 27.4 78.0 P/E 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/E excl. goodwill 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 -1,983.6 -48.7	245.4 245.4 25.6 49.5 -471.5
EV/EBITA 358.2 -21.7 -6.6 -39.1 69.3 -535.1 EV/Departing cash flow 38.9 -422.7 -8.2 91.2 19.1 42.7 EV/cash earnings 46.3 -41.3 -7.8 -316.9 27.4 78.0 P/E 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/E excl. goodwill 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 -1,983.6 -48.7	245.4 245.4 25.6 49.5 -471.5
EV/EBIT 358.2 -21.7 -6.6 -39.1 69.3 -535.1 EV/operating cash flow 38.9 -422.7 -8.2 91.2 19.1 42.7 EV/cash earnings 46.3 -41.3 -7.8 -316.9 27.4 78.0 P/E 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	245.4 25.6 49.5 -471.5
EV/operating cash flow 38.9 -422.7 -8.2 91.2 19.1 42.7 EV/cash earnings 46.3 -41.3 -7.8 -316.9 27.4 78.0 P/E 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/E excl. goodwill 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	25.6 49.5 -471.5
EV/cash earnings 46.3 -41.3 -7.8 -316.9 27.4 78.0 P/E 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/E excl. goodwill 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	49.5 -471.5
P/E 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/E excl. goodwill 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EBIT 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	
P/E excl. goodwill 235.6 -24.1 -5.6 -21.9 -2,005.6 -49.2 P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	
P/B* 9.9 -160.6 -17.6 75.6 55.5 293.4 P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	-471.5
P/sales 4.8 5.0 4.4 4.2 3.7 3.5 P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EB/T 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	776.9
P/CF 42.2 -419.7 -7.7 93.2 20.0 44.5 Target EV/EBIT 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -48.7	3.0
Target EV/EBIT 0.0 0.0 0.0 0.0 68.5 -529.0 Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	26.8
Target P/E 0.0 0.0 0.0 0.0 -1,983.6 -48.7	242.5
	-466.3
	768.4
Per share measures	
Number of shares 30,974 31,370 34,561 38,441 38,570 38,570	38,570
Number of shares (diluted) 30,974 31,370 34,561 38,441 38,570 38,570	38,570
EPS 0.01 -0.13 -0.35 -0.08 0.00 -0.04	0.00
EPS excl. goodwill 0.01 -0.13 -0.35 -0.08 0.00 -0.04	0.00
Cash EPS 0.05 -0.07 -0.27 -0.01 0.06 0.02	0.04
Operating cash flow per share 0.06 -0.01 -0.25 0.02 0.09 0.04	0.07
Capital employed per share 0.06 0.00 0.01 -0.02 -0.05 -0.07	-0.08
Book value per share 0.25 -0.02 -0.11 0.02 0.03 0.01	0.00
Book value excl. goodwill 0.25 -0.02 -0.11 0.02 0.03 0.01	0.00
Dividend per share 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00
Dividend payout ratio, % 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0
Dividend yield, % 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0
Efficiency measures	
ROE 5.8 0.0 0.0 0.0 -3.2 -189.6	-90.3
ROCE 2.6 -45.7 -110.1 -16.1 7.4 -1.0	3.4
Financial ratios	
Capex/sales, % 11.2 13.7 15.8 9.2 5.9 5.3	8.3
Capex/depreciation excl. goodwill,% 149.6 159.2 124.5 74.9 70.9 76.7	150.8
Capex/depreciation excl. goodwill,% 149.6 159.2 124.5 74.9 70.9 76.7 Net debt/EBITDA, book-weighted -4.3 -0.2 -0.5 -5.2 -1.3 -2.3	150.8 -2.0
Net debt/EBITDA, book-weighted -4.3 -0.2 -0.5 -5.2 -1.3 -2.3 Debt/equity, market-weighted 0.0 0.1 0.2 0.2 0.2 0.2 0.2	-2.0
Net debt/EBITDA, book-weighted -4.3 -0.2 -0.5 -5.2 -1.3 -2.3 Debt/equity, market-weighted 0.0 0.1 0.2 0.2 0.2 0.2 0.2	-2.0 0.1
Net debt/EBITDA, book-weighted -4.3 -0.2 -0.5 -5.2 -1.3 -2.3 Debt/equity, market-weighted 0.0 0.1 0.2 0.2 0.2 0.2 Equity* ratio, book-weighted 62.9 -3.4 -29.1 3.9 5.0 1.0	-2.0 0.1 0.5
Net debt/EBITDA, book-weighted -4.3 -0.2 -0.5 -5.2 -1.3 -2.3 Debt/equity, market-weighted 0.0 0.1 0.2 0.2 0.2 0.2 Equity* ratio, book-weighted 62.9 -3.4 -29.1 3.9 5.0 1.0 Gearing* -0.78 -1.14 -1.09 -1.67 -2.60 -12.13	-2.0 0.1 0.5 -35.12

^{*}EUR 12m hybrid included in debt

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SSH COMMUNICATIONS SECURITY

Software/Finland, February 7, 2019 Preview

COMPANY DESCRIPTION: SH 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	26.405	37.6%
Clausal Computing Oy	3,808,650	6.932	9.9%
Mikkonen Juha Taneli	2,100,000	3.822	5.4%
Elo Mutual Pension Insurance Company	1,500,000	2.730	3.9%
Gaselli Capital Oy	1,200,000	2.184	3.1%
Ilmarinen Mutual Pension Insurance Company	1,165,300	2.121	3.0%
Syrj⊐l⊐ Timo Kalevi	835,011	1.520	2.2%
Varma Mutual Pension Insurance Company	755,300	1.375	2.0%
Taaleritehdas Mikro Markka Fund	623,000	1.134	1.6%
AC Invest Oy	400,000	0.728	1.0%
Ten largest	26,895,734	48.950	70%
Residual	11,674,399	21.247	30%
Total	38,570,133	70.198	100%

EARNINGS CALENDAR			
OTHER EVENTS			

COMPANY MISCELLANEOUS

CEO: Kaisa Olkkonen CFO: Niklas Nordstrom IR: Kornetintie 3, FIN-00380 Helsinki Tel: +358 20 500 7000

Software/Finland, February 7, 2019 Preview

DEFINITIONS

D/F	FDC
P/E	EPS
Price per share	Profit before extraordinary items and taxes
Earnings per share	– income taxes + minority interest
	Number of shares
P/Sales	DDC
·	DPS Dividend for the financial period per share
Market cap	Dividend for the infancial period per share
Sales	
P/BV	CEPS
Price per share	Gross cash flow from operations
Shareholders' equity + taxed provisions per share	Number of shares
Shareholdes equity it discussions per share	realiser of shares
P/CF	EV/Share
Price per share	Enterprise value
Operating cash flow per share	Number of shares
There might be a series	Traineer or Shares
EV (Enterprise value)	Sales/Share
Market cap + net debt + minority interest at market value	Sales
 share of associated companies at market value 	Number of shares
,	
Net debt	EBITDA/Share
Interest bearing debt – financial assets	Earnings before interest, tax, depreciation and amortisation
	Number of shares
EV/Sales	EBIT/Share
Enterprise value	<u>Operating profit</u>
Sales	Number of shares
T//FDITDA	ΓΛΓΙ/Chave
EV/EBITDA Enterprise value	EAFI/Share Pretax profit
Earnings before interest, tax, depreciation and amortisation	Number of shares
carnings before interest, tax, depreciation and amortisation	Number of Shares
EV/EBIT	Capital employed/Share
Enterprise value	Totalassets – non interest bearingdebt
Operating profit	Number of shares
1 31	
Div yield, %	Total assets
Dividend per share	Balancesheet total
Price per share	
Payout ratio, %	Interest coverage (x)
Total dividends	Operatingprofit
$Earnings before \ extraordinary \ items \ and \ taxes-income \ taxes+minority interest$	Financialitems
N. J. J.C.	
Net cash/Share	Asset turnover (x)
Financial assets — interest bearing debt	Turnover
Number of shares	Balancesheet total(average)
DOA 0/4	Dobt/Equity, 06
ROA, % Operatingprofit + financial income + extraordinary items	Debt/Equity, %
Balancesheet total – interest free short term debt	Interest bearing debt
	Shareholders' equity + minority interest + taxed provisions
 long term advances received and accounts payable (average) 	
ROCE, %	Fauity ratio 06
•	Equity ratio, %
Profit before extraordinary items + interest expenses + other financial costs	Shareholders' equity + minority interest + taxed provisions
Balancesheet total — noninterest bearing debt (average)	Total assets – interest free loans
ROE, %	CAGR, %
Profit before extraordinaryitems and taxes – income taxes	Cumulative annual growth rate = Average growth per year
Shareholders' equity + minority interest + taxed provisions (average)	2.
Snarcholders equity + minority interest + taxed provisions (average)	

Software/Finland, February 7, 2019
Preview

Important Disclosures

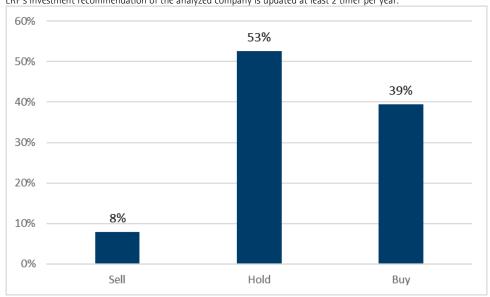
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Investment recommendations are defined as follows:

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

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