



Ribbon Communications

Fourth Quarter and Full Year 2019 Results

February 19, 2020

Cautionary Note Regarding Forward-Looking Statements

This presentation contains “forward-looking statements” within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, which are subject to a number of risks and uncertainties. All statements other than statements of historical facts contained in this presentation, including without limitation statements regarding our outlook for the Company in the sections “Ribbon’s Strategic Direction” and “Business Outlook,” the future results of operations and financial position, opportunities for the Company, business strategy, strategic position, plans and objectives of management for future operations and plans for future product development and manufacturing, are forward-looking statements. Without limiting the foregoing, the words “believes”, “estimates”, “expects”, “expectations”, “intends”, “may”, “plans”, “projects” and other similar language, whether in the negative or affirmative, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. Our actual results may differ materially from those contemplated in these forward-looking statements due to various risks, uncertainties and other important factors, including failure to consummate the proposed transaction with ECI; failure to make or take any filing or other action required to consummate the proposed transaction with ECI in a timely manner or at all; failure to obtain applicable regulatory approval or satisfy other closing conditions in a timely manner or otherwise in connection with the proposed transaction with ECI; failure to satisfy other closing conditions to the proposed transaction with ECI; failure to obtain debt financing to fund the cash consideration of the merger; risks that the new businesses will not be integrated successfully or that the combined companies will not realize estimated cost savings; failure to realize anticipated benefits of the proposed transaction with ECI; potential litigation relating to the proposed transaction and disruptions from the proposed transaction that could harm Ribbon’s or ECI’s business; our ability to recruit and retain key personnel; reductions in customer spending; a slowdown in customer payments and changes in customer requirements, including the timing of customer purchasing decisions and our recognition of revenues; the potential impact of the consummation of the proposed transaction on relationships with third parties, including customers, employees and competitors; conditions in the credit markets, credit risks and risks related to the terms of our credit agreement; risks associated with assumptions the parties make in connection with the parties’ critical accounting estimates and legal proceedings; the parties’ international operations, which are subject to the risks of currency fluctuations and foreign exchange controls; ability to attract new customers and retain existing customers in the manner anticipated; reliance on and integration of information technology systems; changes in legislation or governmental regulations affecting the companies; international, national or local economic, social, health or political conditions that could adversely affect the companies or our customers; our successful integration activities with respect to our acquisitions; our ability to realize benefits from other mergers and acquisitions; the effects of disruption from acquisitions, making it more difficult to maintain relationships with employees, customers, business partners or government entities; unpredictable fluctuations in quarterly revenue and business from our existing customers; failure to compete successfully against telecommunications equipment and networking companies; failure to grow our customer base or generate recurring business from existing customers; consolidation in the telecommunications industry; difficulties supporting our strategic focus on channel sales; difficulties retaining and expanding our customer base; difficulties leveraging market opportunities; the impact of restructuring and cost-containment activities; litigation; actions taken by significant stockholders; difficulties providing solutions that meet the needs of customers; market acceptance of our products and services; rapid technological and market change; our ability to protect our intellectual property rights and obtain necessary licenses; our ability to maintain partner, reseller, distribution and vendor support and supply relationships; our negotiation position relative to our large customers; the limited supply of certain components of our products; the potential for defects in our products; higher risks in international operations and markets; the impact of increased competition; increases in tariffs, trade restrictions or taxes on our products; currency fluctuations; data privacy and cyber security risks; changes in the market price of our common stock; and/or failure or circumvention of our controls and procedures. The foregoing list is not exhaustive.

Cautionary Note Regarding Forward-Looking Statements (continued)

All of our forward-looking statements involve known and unknown risks, uncertainties (some of which are significant or beyond our control) and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements express or implied by the forward-looking statements and such assumptions could cause actual results to differ materially from our historical experience and our present expectations or projections. Unlisted factors may present significant additional obstacles to the realization of forward-looking statements. Therefore, we caution you against relying on any of these forward-looking statements. Important factors that could cause actual results to differ materially from these forward-looking statements are discussed in Part I, Item 1A “Risk Factors” and Part II, Item 7A “Quantitative and Qualitative Disclosures About Market Risk” in Ribbon’s most recent Annual Report on Form 10-K/A filed with the SEC and Part I, Item 2 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and Part II, Item 1A “Risk Factors” in Ribbon Communications’ most recent Quarterly Report on Form 10-Q filed with the SEC. Any forward-looking statements represent Ribbon’s views only as of the date on which such statement is made and should not be relied upon as representing Ribbon’s views as of any subsequent date. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. While Ribbon Communications may elect to update forward-looking statements at some point, Ribbon Communications specifically disclaims any obligation to do so, except as may be required by law.

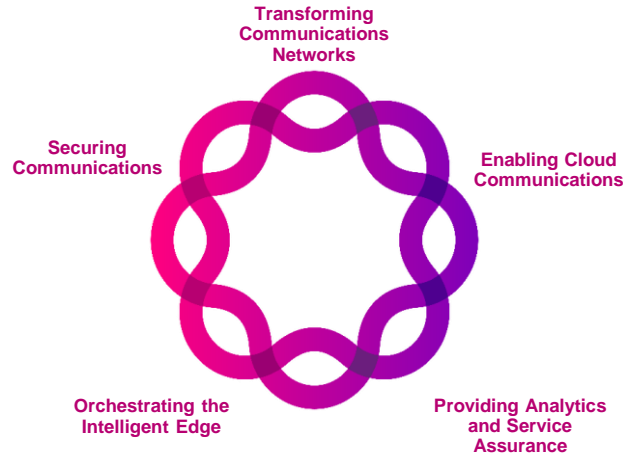
In addition to the U.S. GAAP financials, this presentation includes certain non-GAAP financial measures. The non-GAAP measures have limitations as analytical tools and you should not consider them in isolation or as a substitute for the most directly comparable financial measures prepared in accordance with U.S. GAAP. There are a number of limitations related to the use of these non-GAAP financial measures versus their nearest GAAP equivalents. Ribbon Communications urges you to review the reconciliation of Ribbon’s non-GAAP financial measures to the most directly comparable GAAP financial measures set forth in the Appendix, and not to rely on any single financial measure to evaluate Ribbon Communications’ business.

Company Introduction



Introduction to Ribbon

- Ribbon is a **global leader in secure real-time communications**, providing software and cloud network solutions to communications service providers and enterprises
- Serving 1,000+ customers located in over 100 countries, including many leading telecommunications service providers and enterprises



Key Statistics

1,000+
Customers ⁽¹⁾

2,209
Global Employees ⁽¹⁾

100+
Countries Sold Into ⁽¹⁾

#1
Media Gateways ⁽²⁾

#2
Session Border
Controllers ⁽²⁾

#3
VoIP Switching ⁽²⁾

#3
Voice Application
Servers ⁽²⁾

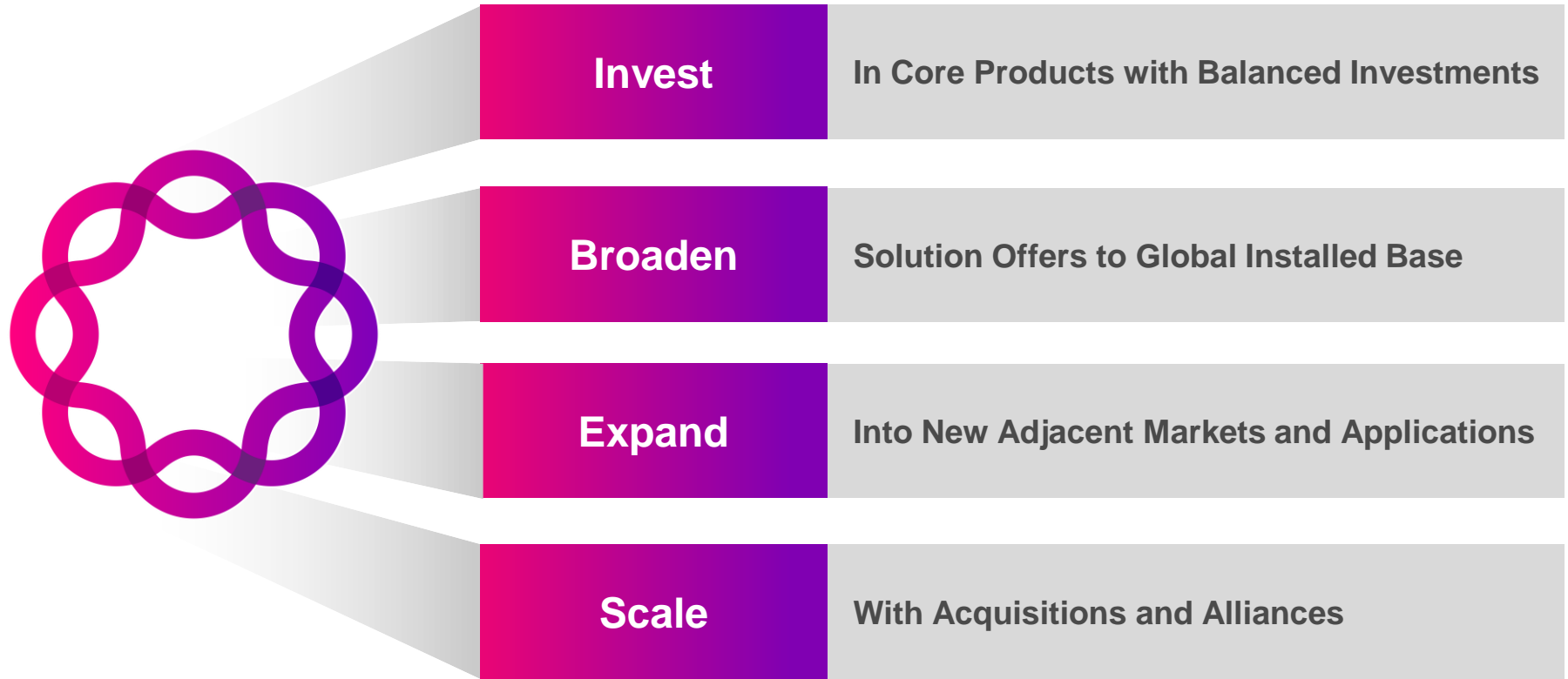
47%
Adjusted EBITDA ⁽³⁾
CAGR over 2013-2019

(1) As of FYE 2019.

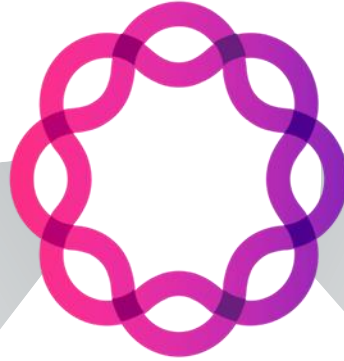
(2) Leadership Ranking Source: IHS Research Q3'19; market share data for past 12 months (see Appendix section "TAM and Market Share References").

(3) CAGR reflective of externally reported EBITDA.

Ribbon's Strategic Direction



Where You Will Find Ribbon



**The World's
Leading Tier One
Service Providers and
Independent Software
Vendors**



**The Largest Banks,
Airlines, Retailers
and Manufacturers
across the Globe**



**More than 350
U.S. Department
of Defense Locations**



2019 Results



4Q19 and 2019 Highlights



Growing Software and Enterprise Sales

Revenue from pure software products grew 23%¹

Enterprise revenue grew to 29% of product revenue, up 6 ppts⁴



Accelerating Gross Margin

Record quarterly Non-GAAP Gross Margin^{2,3} of 68% in 4Q19, up 4 ppts⁴

FY19 Non-GAAP Gross Margin³ of 63%, up 2 ppts¹



Improving Profitability Margin

Record Adjusted EBITDA Margin^{2,3} of 27% in 4Q19, up 10 ppts⁴

Adjusted EBITDA³ of \$86M in FY19, 39% increase, up 5 ppts¹



Cash Flow and Balance Sheet

Operating Cash Flow of \$56M in FY19, up \$66M¹

Unlevered Free Cash Flow of \$49M in FY19

De-leveraging of \$23M in FY19¹

¹Twelve months ended December 31, 2019 compared with corresponding period in 2018.

²Since the launch of Ribbon in October 2017.

³Please see the basis of presentation and the non-GAAP reconciliation in the appendix.

⁴Three months ended December 31, 2019 as compared with the corresponding period in 2018.

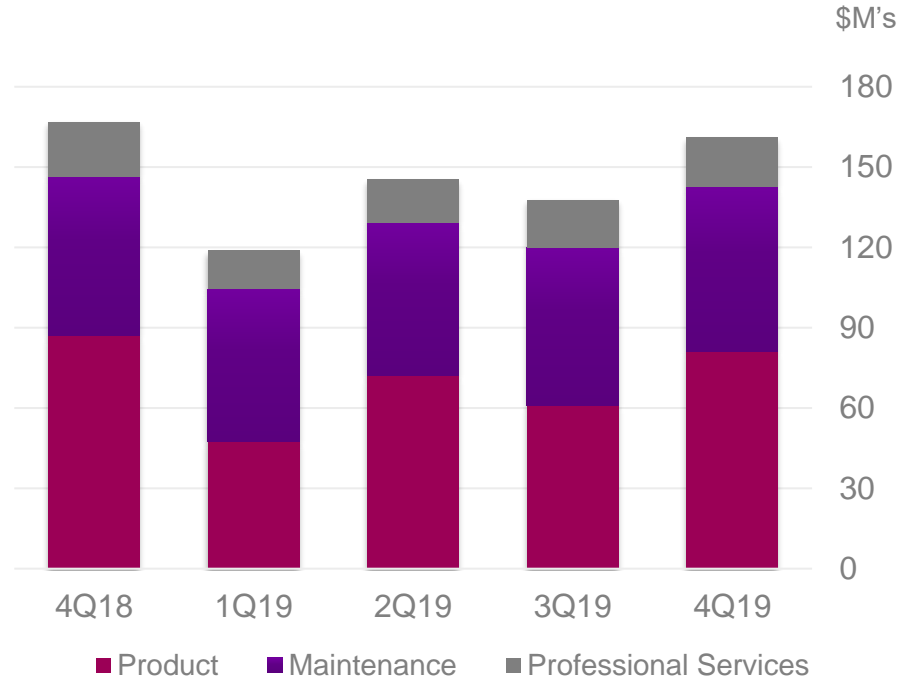
Fourth Quarter and Full Year 2019 Financial Results

	4Q18	4Q19	FY18	FY19
Revenue	\$169 million	\$161 million	\$588 million	\$563 million
Non-GAAP Gross Margin¹	64%	68%	61%	63%
Non-GAAP Operating Margin¹	16%	25%	9%	13%
Non-GAAP Diluted EPS¹	\$0.22	\$0.27	\$0.37	\$0.47
Non-GAAP Adjusted EBITDA¹	\$29 million	\$43 million	\$62 million	\$86 million

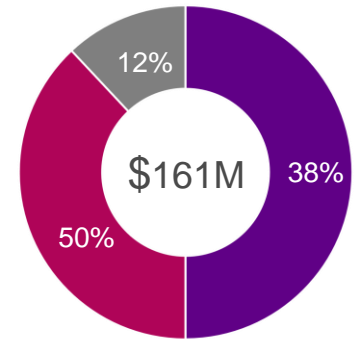
¹Please see the basis of presentation and the non-GAAP reconciliation in the appendix.

Revenue Components

Pure software revenue in 4Q19 accounted for 51% of product revenue as compared to 35% in 4Q18



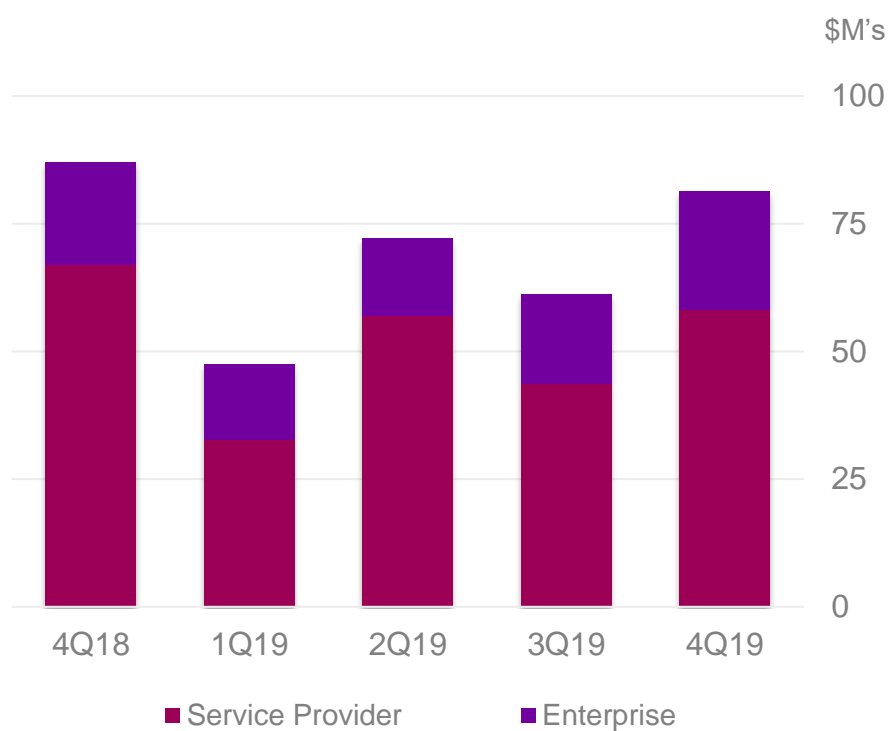
4Q19 Total Revenue



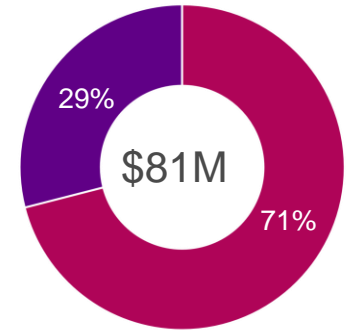
Product Revenue by Market

Enterprise revenue in 4Q19 accounted for 29% of total product revenue as compared to 23% in 4Q18

Enterprise revenue grew sequentially 33% in 4Q19



4Q19 Product Revenue



Ribbon Condensed Statements of Operations

USD Millions except percentages and EPS	1Q18	2Q18	3Q18	4Q18	FY18	1Q19	2Q19	3Q19	4Q19	FY19
GAAP FINANCIAL MEASURES										
Product Revenue	52	63	77	87	279	47	72	61	81	262
Service Revenue	70	74	75	80	299	71	73	77	80	301
Total Revenue	121	137	152	167	578	119	145	138	161	563
Gross Profit	55	75	82	96	308	57	81	79	101	317
<i>Gross Margin %</i>	46%	55%	54%	57%	53%	48%	55%	57%	63%	56%
Research and development	39	36	34	36	145	36	35	34	36	141
Selling, general and administrative	48	46	47	54	194	49	41	38	44	172
Impairment of goodwill	-	-	-	-	-	-	-	-	164	164
Acquisition, Integration and Restructuring	11	10	8	5	34	8	11	4	6	29
Total Operating Expenses	98	92	90	95	374	93	88	76	250	507
Income/(Loss) from Operations	(42)	(17)	(8)	1	(65)	(36)	(7)	3	(149)	(189)
<i>Operating Margin %</i>	-35%	-12%	-5%	1%	-11%	-30%	-5%	2%	-92%	-34%
Net Income/(Loss)	(45)	(20)	(10)	(2)	(77)	(31)	49	2	(150)	(130)
Diluted EPS	(\$0.44)	(\$0.20)	(\$0.10)	(\$0.02)	(\$0.74)	(\$0.29)	\$0.45	\$0.01	(\$1.36)	(\$1.19)
Diluted Shares	102	102	105	107	104	108	111	111	110	110
Cash Flow from Operating Activities	3	(26)	(1)	14	(10)	20	10	(6)	33	56
NON-GAAP FINANCIAL MEASURES										
Adjusted EBITDA	(8)	16	25	29	62	(3)	22	23	43	86
Unlevered Free Cash Flow	2	(27)	(2)	14	(13)	17	8	(8)	32	49

Please see the basis of presentation and the non-GAAP reconciliations in the appendix.

Ribbon Condensed Balance Sheets

USD Millions	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19
ASSETS								
Cash and Investments ¹	85	55	43	51	46	51	40	45
Accounts Receivable, Net	126	136	151	188	135	155	163	193
Inventory, Net	21	19	22	23	19	17	14	15
Property Plant Equipment, Net	24	24	26	27	28	28	27	29
Goodwill and Intangibles	568	556	646	635	640	627	615	438
Other Assets	38	37	37	34	78	98	98	95
Total Assets	861	828	924	957	946	977	957	815
LIABILITIES AND EQUITY								
Revolving Credit Facility	20	20	58	55	57	35	34	8
Liabilities	116	112	154	165	160	153	141	155
Deferred Revenue	117	105	98	123	125	112	102	121
Debt	23	23	24	24	25	50	49	48
Stockholders' Equity	585	567	590	590	579	627	631	483
Total Liabilities and Equity	861	828	924	957	946	977	957	815

¹Includes cash, cash equivalents and short- and long-term investments.

Please see the basis of presentation in the appendix.

Ribbon Condensed Statements of Cash Flows

USD Millions	1Q18	2Q18	3Q18	4Q18	FY18	1Q19	2Q19	3Q19	4Q19	FY19
Cash from Operations	3	(26)	(1)	14	(10)	20	10	(6)	33	56
Purchases of PP&E	(2)	(2)	(2)	(2)	(8)	(4)	(2)	(2)	(2)	(11)
Stock Repurchase	-	-	-	-	-	-	(5)	-	-	(5)
Business Acquisitions	-	-	(46)	-	(46)	(22)	-	-	-	(22)
Borrowings, net	-	-	38	(3)	35	2	3	(2)	(27)	(23)
Other	-	(1)	(1)	(1)	(4)	(1)	-	-	0	(1)
Net Change	2	(30)	(12)	8	(32)	(5)	5	(11)	4	(6)
Cash¹ Beginning of Period	83	85	55	43	83	51	46	51	40	51
Cash¹ End of Period	85	55	43	51	51	46	51	40	45	45

Please see the basis of presentation in the appendix.

1) Includes cash, cash equivalents and short- and long-term investments.

Ribbon Revenue Key Statistics

USD Millions except for percentages	1Q18	2Q18	3Q18	4Q18	FY18	1Q19	2Q19	3Q19	4Q19	FY19
GAAP Revenue										
Product	52	63	77	87	279	47	72	61	81	262
Service	70	74	75	80	299	71	73	77	80	301
Total Revenue	121	137	152	167	578	119	145	138	161	563
% of Total GAAP Revenue:										
GAAP Revenue Mix										
Product	43%	46%	51%	52%	48%	40%	50%	44%	50%	47%
Services	57%	54%	49%	48%	52%	60%	50%	56%	50%	53%
GAAP Revenue by Geography										
Domestic	47%	61%	61%	62%	58%	58%	58%	64%	62%	61%
International	53%	39%	39%	38%	42%	42%	42%	36%	38%	39%
GAAP Revenue by Channel										
Direct	84%	88%	66%	69%	75%	60%	60%	65%	69%	64%
Indirect	16%	12%	34%	31%	25%	40%	40%	35%	31%	36%
10% Total Revenue Customers	Verizon	Verizon	Verizon AT&T	Verizon	Verizon	Verizon AT&T	Verizon	Verizon AT&T	Verizon AT&T	Verizon AT&T
GAAP Product Revenue By Market										
Enterprise	14%	11%	31%	23%	21%	31%	21%	29%	29%	27%
Service Providers	86%	89%	69%	77%	79%	69%	79%	71%	71%	73%

Please see the basis of presentation in the appendix.

Business Outlook



Business Outlook

Full Year 2020 Adjusted EBITDA¹

The Company expects full year 2020 Adjusted EBITDA to be approximately \$90 million to \$95 million, excluding the pending acquisition of ECI Telecom Group Ltd.

- 1) Ribbon has not provided a reconciliation of Adjusted EBITDA or Adjusted EBITDA margin for the year ending December 31, 2020, as it is unable to project without unreasonable efforts the comparable GAAP net income (loss) figure, which includes interest expense, net; income tax provision; depreciation; amortization of intangible assets; stock-based compensation; settlement expense; certain litigation costs; acquisition- and integration-related expense; restructuring and related expense; and other income (expense), net.

APPENDIX



TAM and Market Share References

1. TAM & Market Share IHS Markit, Service Provider VoIP and IMS Equipment and Subscribers, (Quarterly) [TAM] (SS, SP-SBC, MGW, VAS) August 23, 2018, Edition: Q2-2018 (for the quarter ended 30 June 2018) [Market Share] (SP-SBC, MGW, VAS) May 22, 2019, Q3-2019 (for the quarter ended 30 September 2019)
2. TAM & Market Share (E-SBC): IHS Markit, Enterprise SBCs and VoIP Gateways, (Quarterly) [TAM] (E-SBC) September 5, 2018, Edition: Q2-2018 (for the quarter ended 31 June 2018) [Market Share] (E-SBC) November 15, 2019, Edition: Q3-2019 (for the quarter ended 30 September 2019)
3. TAM (UCaaS): IHS Markit, VoIP and Unified Communication Services and Subscribers, (Annually) Published April 13, 2018, Edition: 2018 (for the year ended 31 December 2017)
4. TAM (PBX): IHS Markit Enterprise Unified Communications and Voice Equipment, (Quarterly) Published May 31, 2018, Edition Q1-2018 (for quarter ended 31 March 2018)
5. TAM (STP): Exact Ventures, STP Signaling Forecast Edition April 2018
6. TAM (CPaaS): IDC, Worldwide Voice and Text Messaging Communications Platform-as-a-Service Forecast, 2018–2022, Published May 2018, (#US43805418)
7. TAM (Security): Gartner, Forecast: Enterprise Application Software, Worldwide, 2016-2022, Q1-2018 Update, Published March 28, 2018, (G00353888),
8. TAM (Security): Gartner, Forecast: Information Security, Worldwide, 2015-2021, Q4-2017 Update, Published March 28, 2018, (G00350860)
9. TAM (VMC-Client): Juniper Research, MOBILE VOICE Market Sizing & Forecasts 2017-2021, Published March 2017
10. TAM (VMC-Client): Statista, Global smartphone shipments forecast from 2010 to 2021 (in million units), Online query October 20, 2017
11. TAM (SD-WAN): Frost & Sullivan, Forecast: Analysis of the Software-Defined WAN Market, 2017, Global, 2017-2022, Q1-2018 Update, Published October 2017 (BCS 11-5)

Basis of Presentation

Totals may not sum due to rounding.

For all 2018 periods presented, the Company increases its non-GAAP Adjusted EBITDA and other relevant non-GAAP measures for the 2018 adoption effect of the new revenue standard. Effective January 1, 2019 and for each subsequent period presented thereafter, the Company no longer increases non-GAAP Adjusted EBITDA and other relevant non-GAAP measures to account for the 2019 effect of its adoption in 2018 of the new revenue standard.

During 2019, the Company eliminated its prior practice of increasing non-GAAP Adjusted EBITDA and other relevant non-GAAP measures to account for revenue lost that would otherwise have been earned if not for the application of purchase accounting. Accordingly all periods presented have been conformed to the current presentation.

Discussion of Non-GAAP Financial Measures

Discussion of Non-GAAP Financial Measures

Ribbon Communications' management uses several different financial measures, both GAAP and non-GAAP, in analyzing and assessing the overall performance of the business, making operating decisions, planning and forecasting future periods, and determining payments under compensation programs. Our annual financial plan is prepared both on a GAAP and non-GAAP basis, and the non-GAAP annual financial plan is approved by our board of directors. Budgeting and forecasting for revenue and expenses are conducted on a non-GAAP basis and actual results on a non-GAAP basis are assessed against the annual financial plan. We consider the use of non-GAAP financial measures helpful in assessing the core performance of our continuing operations and when planning and forecasting future periods. By continuing operations, we mean the ongoing results of the business adjusted for certain expenses and credits, including, but not limited to, stock-based compensation; amortization of intangible assets; acquisition-related facilities adjustments; certain litigation costs; impairment of goodwill; settlement expense; cancelled debt offering costs; acquisition- and integration-related expense; restructuring and related expense; the gain on the settlement of litigation; the gain on the reduction to deferred purchase consideration; the tax effect of these adjustments; and the income tax benefit arising from purchase accounting. Effective for the first quarter of 2019 and for subsequent reporting periods, we no longer adjust for the impact of the adoption of the new revenue standard in 2018. While our management uses non-GAAP financial measures as a tool to enhance their understanding of certain aspects of our financial performance, our management does not consider these measures to be a substitute for, or superior to, GAAP measures. In addition, our presentations of these measures may not be comparable to similarly titled measures used by other companies. These non-GAAP financial measures should not be considered alternatives for, or in isolation from, the financial information prepared and presented in accordance with GAAP.

Investors are cautioned that there are material limitations associated with the use of non-GAAP financial measures as an analytical tool. In particular, many of the adjustments to our financial measures reflect the exclusion of items that are recurring and will be reflected in our financial results for the foreseeable future.

Discussion of Non-GAAP Financial Measures (continued)

Impact of New Revenue Standard

For periods prior to the first quarter of 2019, we adjusted our non-GAAP financial measures for eliminated revenue resulting from our adoption of the new revenue recognition standard in 2018 and related cost of revenue. Effective for the first quarter of 2019 and for subsequent reporting periods, we no longer adjust our non-GAAP financial measures for the 2018 revenue standard adoption.

Stock-Based Compensation

Stock-based compensation expense is different from other forms of compensation, as it is a non-cash expense. For example, a cash salary generally has a fixed and unvarying cash cost. In contrast, the expense associated with an equity-based award is generally unrelated to the amount of cash ultimately received by an employee, and the cost to us is based on a stock-based compensation valuation methodology, subjective assumptions and the variety of award types, all of which may vary over time. We evaluate performance without these measures because stock-based compensation expense is influenced by the Company's stock price and other factors, such as volatility and interest rates that are beyond our control. The expense related to stock-based awards is generally not controllable in the short-term and can vary significantly based on the timing, size and nature of awards granted. As such, we do not include such charges in our operating plans, and we believe that presenting non-GAAP operating results that exclude stock-based compensation provides investors with visibility and insight into our management's method of analysis and the Company's core operating performance. It is reasonable to expect that stock-based compensation will continue in future periods.

Amortization of Intangible Assets

We exclude the amortization of acquired intangible assets from non-GAAP expense and income measures. These amortization amounts are inconsistent in frequency and amount and are significantly impacted by the timing and size of acquisitions. Although we exclude amortization of acquired intangible assets from our non-GAAP expenses, we believe that it is important for investors to understand that intangible assets contribute to revenue generation. We believe that excluding non-cash amortization of intangible assets facilitates the comparison of our financial results to our historical operating results and to other companies in our industry as if the acquired intangible assets had been developed internally rather than acquired. Amortization of intangible assets that relate to past acquisitions will recur in future periods until such intangible assets have been fully amortized.

Discussion of Non-GAAP Financial Measures (continued)

Acquisition-Related Facilities Adjustments

GAAP accounting requires that the deferred rent liability of an acquired company be written off as part of purchase accounting and that a combined company's rent expense on a straight-line basis begin as of the acquisition date. As a result, we recorded more rent expense than would have been recognized but for the purchase accounting treatment of GENBAND's assumed deferred rent liability. We included this adjustment, which related to the acquisition of GENBAND, through the fourth quarter of 2018, to allow for more complete comparisons to the financial results of our historical operations and the financial results of peer companies.

Litigation Costs

We were involved in litigation with a certain competitor with whom we reached a settlement in the second quarter of 2019, under which the competitor agreed to pay us an aggregate amount of \$63 million (see also "Gain on Litigation Settlement" below). In connection with this litigation, we incurred litigation costs beginning in the fourth quarter of 2017. These costs are included as a component of general and administrative expense. In the third quarter of 2019, we received \$1.5 million of insurance proceeds in connection with this litigation, which reduced the expense reported in both the third quarter of and full year 2019. In addition, we are currently the plaintiff in litigation with a former business partner of GENBAND regarding amounts loaned to this former business partner that were never repaid. During the fourth quarter of 2019, we incurred \$1.7 million of legal costs in connection with this litigation. We believe that such costs are not part of our core business or ongoing operations. Accordingly, we believe that excluding the litigation costs related to these specific legal matters facilitates the comparison of our financial results to our historical operating results and to other companies in our industry.

Annual Goodwill Evaluation

We performed our annual testing for impairment of goodwill in the fourth quarter of 2019. We operate as a single operating segment with one reporting unit and consequently we evaluate goodwill for impairment based on an evaluation of the fair value of the Company as a whole. Upon completion of the goodwill impairment test, we determined that it was necessary to reduce our goodwill carrying amount and recorded a non-cash impairment charge in the fourth quarter of 2019. We believe that such non-cash costs are not part of our core business or ongoing operations. Accordingly, we believe that excluding the goodwill impairment charges facilitates the comparison of our financial results to our historical operating results and to other companies in our industry.

Discussion of Non-GAAP Financial Measures (continued)

Settlement Expense

In the first quarter of 2018, we recorded \$1.7 million of expense related to settlements, comprised of \$1.4 million for the settlement of litigation in connection with our acquisition of Taqua LLC and \$0.3 million of patent litigation settlement expense. These amounts are included as components of general and administrative expense. We believe that such settlement costs are not part of our core business or ongoing operations, are unplanned and generally not within our control. Accordingly, we believe that excluding these costs facilitates the comparison of our financial results to our historical operating results and other companies in our industry.

Cancelled Debt Offering Costs

In the fourth quarter of 2018, we announced that we intended to offer, subject to market conditions and other factors, \$150 million aggregate principal amount of convertible senior notes due 2023 in a private offering to qualified institutional buyers. Subsequent to the announcement, we determined the then-current market conditions were not conducive for an offering on terms that would be in the best interests of our stockholders. In connection with this offering, we incurred \$1 million of expense. We do not consider these debt offering costs to be related to the continuing operations of the Company. We believe that excluding these cancelled debt offering costs facilitates the comparison of our financial results to our historical operating results and to other companies in our industry.

Acquisition- and Integration-Related Expense

We consider certain acquisition- and integration-related costs to be unrelated to the organic continuing operations of our acquired businesses and the Company, and such costs are generally not relevant to assessing or estimating the long-term performance of the acquired assets. In addition, the size, complexity and/or volume of an acquisition, which often drive the magnitude of acquisition- and integration-related costs, may not be indicative of future acquisition- and integration-related costs. By excluding these acquisition- and integration-related costs from our non-GAAP measures, we believe that our management is better able to evaluate our ability to utilize our existing assets and estimate the long-term value that the acquired assets will generate for us. We exclude certain acquisition- and integration-related costs to allow more accurate comparisons of our financial results to our historical operations and the financial results of less acquisitive peer companies. In addition, we believe that providing supplemental non-GAAP measures that exclude these items allows management and investors to consider the ongoing operations of the business both with and without such expenses.

Discussion of Non-GAAP Financial Measures (continued)

Restructuring and Related Expense

We have recorded restructuring and related expense to streamline operations and reduce operating costs by closing and consolidating certain facilities and reducing our worldwide workforce. We review our restructuring accruals and facilities requirements regularly and record adjustments to these estimates as required. We believe that excluding restructuring and related expense facilitates the comparison of our financial results to our historical operating results and to other companies in our industry, as there are no future revenue streams or other benefits associated with these costs.

Gain on Litigation Settlement

We were involved in litigation with a certain competitor with whom we reached a settlement in the second quarter of 2019, under which such competitor agreed to pay us an aggregate amount of \$63 million (see “Litigation Costs” above). This gain is included as a component of other income (expense), net. We believe that such gains are not part of our core business or ongoing operations. Accordingly, we believe that excluding the gain on litigation settlement related to this specific legal matter facilitates the comparison of our financial results to our historical results and to other companies in our industry.

Reduction to Deferred Purchase Consideration

We recorded \$8.1 million in other income (expense), net, in the first quarter of 2019 related to the reduction of cash deferred purchase consideration for Edgewater. We believe that such reductions to cash deferred purchase consideration are not part of our core business or ongoing operations, as they relate to specific acquisitive transactions. Accordingly, we believe that excluding such reductions related to acquisition transactions facilitates the comparison of our financial results to our historical results and to other companies in our industry.

Discussion of Non-GAAP Financial Measures (continued)

Tax Effect of Non-GAAP Adjustments

Beginning with the second quarter of 2019, non-GAAP income tax expense is presented based on an estimated tax rate applied against forecasted annual non-GAAP income. The non-GAAP income tax expense assumes no available net operating losses or any valuation allowances as a result of reporting significant cumulative non-GAAP income over the past several years. Due to the methodology applied to our estimated annual tax rate, our estimated tax rate on non-GAAP income will differ from our GAAP tax rate and from our actual tax liabilities.

Tax Benefit Arising from Purchase Accounting

In 2018, we assessed our ability to use our tax benefits and determined that it was more likely than not that some of these benefits will be recognized. As a result, we reduced our deferred tax asset valuation allowance, resulting in an income tax benefit of \$0.7 million and a reduction to our income tax provision in 2018. We believe that such a benefit is not part of our core business or ongoing operations, as it was the result of an acquisition and was unrelated to our revenue-producing activities. Accordingly, we believe that excluding the benefit arising from this adjustment to our income tax provision facilitates the comparison of our financial results to our historical results and to other companies in our industry.

Discussion of Non-GAAP Financial Measures (continued)

Adjusted EBITDA

We use Adjusted EBITDA as a supplemental measure to review and assess our performance. We calculate Adjusted EBITDA by excluding from net income (loss): interest income (expense), net; income tax provision; depreciation; and amortization of intangible assets. In addition, we exclude from net income (loss): historical adjustments to revenue and cost of revenue related to our adoption of the new revenue standard (for periods prior to the first quarter of 2019); stock-based compensation expense; acquisition-related facilities adjustments; certain litigation costs; impairment of goodwill; settlement expense; cancelled debt offering costs; acquisition- and integration-related expense; restructuring and related expense; and other income (expense), net. In general, we add back the expenses that we consider to be non-cash and/or not part of our ongoing operations. Adjusted EBITDA is a non-GAAP financial measure that is used by our investing community for comparative and valuation purposes. We disclose this metric to support and facilitate our dialogue with research analysts and investors. Other companies may calculate Adjusted EBITDA differently than we do, limiting its usefulness as a comparative measure.

Unlevered Free Cash Flow

We use Unlevered Free Cash Flow to measure the cash we generate or utilize from operations and to maintain our capital assets. We calculate Unlevered Free Cash Flow as net cash provided by (used in) operating activities excluding interest expense, less capital expenditures. We disclose this metric to support and facilitate our dialogue with research analysts and investors, as we believe Unlevered Free Cash Flow is representative of cash that is available for working capital, investments and financing deleveraging. Accordingly, we believe that Unlevered Free Cash Flow provides useful information to investors in understanding and evaluating our liquidity in the same manner as management. Other companies may calculate Unlevered Free Cash Flow differently than we do, limiting its usefulness as a comparative measure.

We believe that providing non-GAAP information to investors, in addition to the GAAP presentation, will allow investors to view the financial results in the way our management views them. We further believe that providing this information helps investors to better understand our core financial and operating performance and evaluate the efficacy of the methodology and information used by our management to evaluate and measure such performance.

Annual and Quarterly GAAP to Non-GAAP Reconciliation

\$000's	Q118	Q218	Q318	Q418	FY18	Q119	Q219	Q319	Q419	FY19
GAAP Gross margin - total	45.6%	54.7%	53.9%	57.3%	53.4%	47.6%	55.5%	57.3%	62.7%	56.3%
Adjustment for new revenue standard**	1.2%	0.8%	0.5%	0.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%
Adjustment to cost of revenue for new revenue standard**	-0.1%	0.0%	0.0%	0.0%	*	0.0%	0.0%	0.0%	0.0%	0.0%
Stock-based compensation	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Amortization of intangible assets	7.8%	6.7%	6.9%	5.7%	6.5%	8.1%	6.9%	6.9%	5.1%	6.7%
Acquisition-related facilities adjustment	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Non-GAAP Gross margin - total***	54.8%	62.4%	61.5%	63.6%	60.9%	55.8%	62.5%	64.3%	67.9%	63.1%

* Less than 0.1% impact on gross margin.

** Effective Q1 2019, the Company no longer adjusts for the impact of the adoption in 2018 of the new revenue standard.

*** Non-cash amounts benefitting Non-GAAP Gross margin - total for revenue lost from purchase accounting of 2.2, 1.1, 1.0, 0.9 and 1.2 percentage points for the first, second, third and fourth quarters of and year ended December 31, 2018, respectively, and 1.0 percentage point for the three months ended March 31, 2019 have been removed to conform prior periods with the current period presentation.

Annual and Quarterly GAAP to Non-GAAP Reconciliation (continued)

\$000s	Q118	Q218	Q318	Q418	FY18	Q119	Q219	Q319	Q419	FY19
GAAP Operating expenses	\$ 97,656	\$ 91,747	\$ 89,800	\$ 94,537	\$ 373,740	\$ 92,817	\$ 87,769	\$ 76,191	\$ 249,767	\$ 506,544
Stock-based compensation	(2,641)	(1,995)	(2,430)	(3,547)	(10,613)	(4,033)	(1,357)	(2,335)	(4,322)	(12,047)
Amortization of intangible assets	(2,717)	(2,694)	(2,855)	(2,481)	(10,747)	(2,277)	(2,555)	(2,738)	(4,082)	(11,652)
Acquisition-related facilities adjustment	(143)	(171)	(171)	(172)	(657)	-	-	-	-	-
Litigation costs	(673)	(1,901)	(3,147)	(1,961)	(7,682)	(6,186)	(1,315)	1,534	(1,767)	(7,734)
Impairment of goodwill	-	-	-	-	-	-	-	-	(164,300)	(164,300)
Settlement expense	(1,730)	-	-	-	(1,730)	-	-	-	-	-
Cancelled debt offering costs	-	-	-	(1,003)	(1,003)	-	-	-	-	-
Acquisition- and integration-related expense	(4,412)	(4,280)	(5,570)	(2,689)	(16,951)	(3,199)	(1,965)	(1,697)	(6,092)	(12,953)
Restructuring and related expense	(6,668)	(6,097)	(2,397)	(1,853)	(17,015)	(4,932)	(9,144)	(2,372)	49	(16,399)
Non-GAAP Operating expenses	\$ 78,672	\$ 74,609	\$ 73,230	\$ 80,831	\$ 307,342	\$ 72,190	\$ 71,433	\$ 68,583	\$ 69,253	\$ 281,459
Income (loss) from operations as a percentage of revenue ("Operating margin")										
GAAP Operating margin	-35.0%	-12.1%	-5.0%	0.7%	-11.3%	-30.5%	-4.9%	2.0%	-92.4%	-33.6%
Adjustment to revenue for new revenue standard**	3.2%	2.3%	1.6%	1.1%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Adjustment to cost of revenue for new revenue standard**	-0.1%	0.0%	0.0%	0.0%	*	0.0%	0.0%	0.0%	0.0%	0.0%
Stock-based compensation	2.3%	1.5%	1.6%	2.2%	1.9%	3.5%	1.1%	1.8%	2.8%	2.2%
Amortization of intangible assets	9.9%	8.5%	8.7%	7.1%	8.5%	10.1%	8.6%	8.9%	7.7%	8.7%
Acquisition-related facilities adjustment	0.2%	0.2%	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Litigation costs	0.5%	1.4%	2.0%	1.2%	1.3%	5.2%	0.9%	-1.1%	1.1%	1.4%
Impairment of goodwill	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	101.9%	29.2%
Settlement expense	1.4%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Cancelled debt offering costs	0.0%	0.0%	0.0%	0.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Acquisition- and integration-related expense	3.6%	3.1%	3.6%	1.6%	2.9%	2.7%	1.4%	1.2%	3.8%	2.3%
Restructuring and related expense	5.4%	4.3%	1.5%	1.1%	2.9%	4.1%	6.3%	1.7%	*	2.9%
Non-GAAP Operating margin	-8.6%	9.2%	14.2%	15.7%	8.6%	-4.9%	13.4%	14.5%	24.9%	13.1%

* Less than 0.1% impact on Operating margin

** Effective Q1 2019, the Company no longer adjusts for the impact of the adoption in 2018 of the new revenue standard.

*** Non-cash amounts benefiting Non-GAAP Operating margin for revenue lost from purchase accounting of 7.5, 2.7, 2.2, 2.2 and 3.3 percentage points for the first, second, third and fourth quarters of and year ended December 31, 2018, respectively, and 2.4 percentage points for the three months ended March 31, 2019 have been removed to conform prior periods with the current period presentation.

Annual and Quarterly GAAP to Non-GAAP Reconciliation (continued)

\$000s	Q118	Q218	Q318	Q418	FY18	Q119	Q219	Q319	Q419	FY19
GAAP Diluted earnings per share or (loss) per share	\$ (0.44)	\$ (0.20)	\$ (0.10)	\$ (0.02)	\$ (0.74)	\$ (0.29)	\$ 0.45	\$ 0.01	\$ (1.36)	\$ (1.19)
Adjustment to revenue for new revenue standard**	0.03	0.03	0.02	0.02	0.10	-	-	-	-	-
Adjustment to cost of revenue for new revenue standard**	*	-	-	-	*	-	-	-	-	-
Stock-based compensation	0.03	0.02	0.02	0.03	0.11	0.04	0.01	0.02	0.04	0.11
Amortization of intangible assets	0.11	0.12	0.14	0.11	0.48	0.11	0.12	0.11	0.10	0.46
Acquisition-related facilities adjustment	*	*	*	*	0.01	-	-	-	-	-
Litigation costs	0.01	0.02	0.03	0.02	0.07	0.06	0.01	(0.01)	0.02	0.07
Impairment of goodwill	-	-	-	-	-	-	-	-	1.49	1.49
Settlement expense	0.02	-	-	-	0.02	-	-	-	-	-
Cancelled debt offering costs	-	-	-	0.01	0.01	-	-	-	-	-
Acquisition- and integration-related expense	0.04	0.04	0.06	0.03	0.16	0.03	0.02	0.02	0.06	0.12
Restructuring and related expense	0.07	0.06	0.02	0.02	0.16	0.05	0.08	0.02	*	0.15
Gain on litigation settlement	-	-	-	-	-	-	(0.57)	-	-	(0.57)
Reduction to deferred purchase consideration	-	-	-	-	-	(0.08)	-	-	-	(0.07)
Tax effect of non-GAAP adjustments	-	-	-	-	-	-	0.02	(0.04)	(0.08)	(0.10)
Tax benefits arising from purchase accounting	-	-	(0.01)	*	(0.01)	-	-	-	-	-
Non-GAAP Diluted earnings per share or (loss) per share***	\$ (0.13)	\$ 0.09	\$ 0.18	\$ 0.22	\$ 0.37	\$ (0.08)	\$ 0.14	\$ 0.13	\$ 0.27	\$ 0.47

* Less than \$0.01 impact on earnings (loss) per share.

** Effective Q1 2019, the Company no longer adjusts for the impact of the adoption in 2018 of the new revenue standard.

*** Non-cash amounts benefitting Non-GAAP Diluted earnings per share or (loss) per share for revenue lost from purchase accounting of \$0.09, \$0.05, \$0.03, \$0.04 and \$0.21 for the first, second, third and fourth quarters of and year ended December 31, 2018, respectively, and \$0.03 for the three months ended March 31, 2019 have been removed to conform prior periods with the current period presentation.

Annual and Quarterly GAAP to Non-GAAP Reconciliation (continued)

\$000's	Q118	Q218	Q318	Q418	FY18	Q119	Q219	Q319	Q419	FY19
Adjusted EBITDA										
GAAP Net income (loss)	\$ (44,904)	\$ (19,922)	\$ (10,158)	\$ (1,826)	\$ (76,810)	\$ (30,832)	\$ 49,470	\$ 1,650	\$ (150,363)	\$ (130,075)
Interest (income) expense, net	599	735	1,420	1,476	4,230	1,364	1,262	726	525	3,877
Income tax provision (benefit)	2,170	499	(82)	813	3,400	1,014	5,033	(197)	1,332	7,182
Depreciation	2,507	2,811	2,952	2,930	11,200	2,921	2,970	2,933	3,125	11,949
Amortization of intangible assets	12,309	11,964	13,448	12,002	49,723	11,922	12,647	12,260	12,396	49,225
Adjustment to revenue for new revenue standard*	3,015	2,949	2,178	1,903	10,045	-	-	-	-	-
Adjustment to cost of revenue for new revenue standard*	(110)	-	-	-	(110)	-	-	-	-	-
Stock-based compensation	2,824	2,081	2,516	3,651	11,072	4,139	1,530	2,485	4,447	12,601
Acquisition-related facilities adjustment	211	252	251	252	966	-	-	-	-	-
Litigation costs	673	1,901	3,147	1,961	7,682	6,186	1,315	(1,534)	1,767	7,734
Impairment of goodwill	-	-	-	-	-	-	-	-	164,300	164,300
Settlement expense	1,730	-	-	-	1,730	-	-	-	-	-
Cancelled debt offering costs	-	-	-	1,003	1,003	-	-	-	-	-
Acquisition- and integration-related expense	4,412	4,280	5,570	2,689	16,951	3,199	1,965	1,697	6,092	12,953
Restructuring and related expense	6,668	6,097	2,397	1,853	17,015	4,932	9,144	2,372	(49)	16,399
Other (income) expense, net	(248)	2,052	1,254	714	3,772	(7,774)	(62,861)	507	(316)	(70,444)
Non-GAAP Adjusted EBITDA**	\$ (8,144)	\$ 15,699	\$ 24,893	\$ 29,421	\$ 61,869	\$ (2,929)	\$ 22,475	\$ 22,899	\$ 43,256	\$ 85,701

* Effective Q1 2019, the Company no longer adjusts for the impact of the adoption in 2018 of the new revenue standard.

** Non-cash amounts benefiting Adjusted EBITDA for revenue lost from purchase accounting of \$9.1 million, \$4.3 million, \$4.1 million, \$4.6 million and \$22.1 million for the first, second, third and fourth quarters of and year ended December 31, 2018, respectively, and \$2.8 million for the three months ended March 31, 2019 have been removed to conform prior periods with the current period presentation.

Annual and Quarterly GAAP to Non-GAAP Reconciliation (continued)

\$000's	Q118	Q218	Q318	Q418	FY18	Q119	Q219	Q319	Q419	FY19
Adjusted EBITDA as a percentage of revenue ("Adjusted EBITDA margin")										
GAAP Net income (loss) as a percentage of revenue	-37.1%	-14.5%	-6.7%	-1.1%	-13.3%	-25.9%	34.0%	1.2%	-93.3%	-23.1%
Interest expense (income), net	0.5%	0.5%	0.9%	0.9%	0.7%	1.1%	0.9%	0.5%	0.3%	0.7%
Income tax provision (benefit)	1.7%	0.4%	-0.1%	0.5%	0.6%	0.9%	3.5%	-0.1%	0.8%	1.3%
Depreciation	2.0%	2.0%	1.9%	1.7%	1.9%	2.5%	2.0%	2.1%	1.9%	2.1%
Amortization of intangible assets	9.9%	8.6%	8.7%	7.0%	8.6%	9.9%	8.6%	8.9%	7.7%	8.7%
Adjustment to revenue for new revenue standard**	3.2%	2.2%	1.7%	1.2%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Adjustment to cost of revenue for new revenue standard**	*	0.0%	0.0%	0.0%	*	0.0%	0.0%	0.0%	0.0%	0.0%
Stock-based compensation	2.3%	1.5%	1.6%	2.2%	1.9%	3.5%	1.1%	1.8%	2.8%	2.2%
Acquisition-related facilities adjustment	0.2%	0.2%	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Litigation costs	0.5%	1.4%	2.0%	1.2%	1.3%	5.2%	0.9%	-1.1%	1.1%	1.4%
Impairment of goodwill	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	101.9%	29.2%
Settlement expense	1.4%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Cancelled debt offering costs	0.0%	0.0%	0.0%	0.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
Acquisition- and integration-related expense	3.6%	3.1%	3.6%	1.6%	2.9%	2.7%	1.4%	1.2%	3.8%	2.3%
Restructuring and related expense	5.4%	4.3%	1.5%	1.1%	2.9%	4.1%	6.3%	1.7%	*	2.9%
Other (income) expense, net	-0.2%	1.5%	0.8%	0.4%	0.6%	-6.5%	-43.2%	0.4%	-0.2%	-12.5%
Non-GAAP Adjusted EBITDA margin***	-6.6%	11.2%	16.1%	17.4%	10.5%	-2.5%	15.5%	16.6%	26.8%	15.2%

* Less than 0.1% impact on Adjusted EBITDA as a percentage of revenue.

** Effective Q1 2019, the Company no longer adjusts for the impact of the adoption in 2018 of the new revenue standard.

*** Non-cash amounts benefiting Adjusted EBITDA for revenue lost from purchase accounting of 7.3, 2.6, 2.1, 2.2 and 3.2 percentage points for the first, second, third and fourth quarters of and year ended December 31, 2018, respectively, and 2.4 percentage points for the three months ended March 31, 2019 have been removed to conform prior periods with the current period presentation.

Annual and Quarterly GAAP to Non-GAAP Reconciliation (continued)

\$000's	Q118	Q218	Q318	Q418	FY18	Q119	Q219	Q319	Q419	FY19
Unlevered Free Cash Flow										
GAAP Net cash provided by (used in) operating activities	\$ 3,392	\$ (26,083)	\$ (850)	\$ 13,946	\$ (9,595)	\$ 19,579	\$ 9,540	\$ (6,488)	\$ 33,054	\$ 55,685
Interest expense	692	825	1,487	1,512	4,516	1,395	1,273	997	785	4,450
Purchases of property and equipment	(1,827)	(1,665)	(2,458)	(1,957)	(7,907)	(3,766)	(2,387)	(2,441)	(2,230)	(10,824)
Non-GAAP Unlevered free cash flow	<u>\$ 2,257</u>	<u>\$ (26,923)</u>	<u>\$ (1,821)</u>	<u>\$ 13,501</u>	<u>\$ (12,986)</u>	<u>\$ 17,208</u>	<u>\$ 8,426</u>	<u>\$ (7,932)</u>	<u>\$ 31,609</u>	<u>\$ 49,311</u>