

## **Ciena Corporation**

Q3 fiscal 2019 Investor Presentation

Quarterly Period ended July 31, 2019

September 5, 2019

### Forward-looking statements and non-GAAP measures

Information in this presentation and related comments of presenters contain a number of forward-looking statements. These statements are based on current expectations, forecasts, assumptions and other information available to the Company as of the date hereof. Forward-looking statements include Ciena's long-term financial targets, prospective financial results, return of capital plans, business strategies, expectations about its addressable markets and market share, and business outlook for future periods, as well as statements regarding Ciena's expectations, beliefs, intentions or strategies regarding the future. Often, these can be identified by forward-looking words such as "target" "anticipate," "believe," "could," "estimate," "expect," "intend," "may," "should," "will," "plan," "predict," "potential," "project, "continue," and "would" or similar words.

Ciena's actual results, performance or events may differ materially from these forward-looking statements made or implied due to a number of risks and uncertainties relating to Ciena's business, including: the effect of broader economic and market conditions on our customers and their business; our ability to execute our business and growth strategies; changes in network spending or network strategy by our customers; seasonality and the timing and size of customer orders, including our ability to recognize revenue relating to such sales; the level of competitive pressure we encounter; the product, customer and geographic mix of sales within the period; supply chain disruptions and the level of success relating to efforts to optimize Ciena's operations; changes in foreign currency exchange rates affecting revenue and operating expense; the impact of the Tax Cuts and Jobs Act; changes in tax or trade regulations, including the imposition of tariffs and duties; and the other risk factors disclosed in Ciena's periodic reports filed with the Securities and Exchange Commission (SEC) including Ciena's Quarterly Report on Form 10-Q to be filed with the SEC and Ciena's Annual Report on Form 10-K filed with the SEC on December 21, 2018.

All information, statements, and projections in this presentation and the related earnings call speak only as of the date of this presentation and related earnings call. Ciena assumes no obligation to update any forward-looking or other information included in this presentation or related earnings calls, whether as a result of new information, future events or otherwise.

In addition, this presentation includes historical, and may include prospective, non-GAAP measures of Ciena's gross margin, operating expense, operating profit, EBITDA, net income, and net income per share. These measures are not intended to be a substitute for financial information presented in accordance with GAAP. A reconciliation of non-GAAP measures used in this presentation to Ciena's GAAP results for the relevant period can be found in the Appendix to this presentation. Additional information can also be found in our press release filed this morning and in our reports on Form 10-Q filed with the Securities and Exchange Commission.

With respect to Ciena's expectations under "Business Outlook", Ciena is not able to provide a quantitative reconciliation of the adjusted (non-GAAP) gross margin and adjusted (non-GAAP) operating expense guidance measures to the corresponding gross profit and gross profit percentage, and operating expense GAAP measures without unreasonable efforts. Ciena cannot provide meaningful estimates of the non-recurring charges and credits excluded from these non-GAAP measures due to the forward-looking nature of these estimates and their inherent variability and uncertainty. For the same reasons, Ciena is unable to address the probable significance of the unavailable information.



### Q3 fiscal 2019 key highlights

#### **Achieving balanced growth**

- Non-telco represented 41% of total revenue
- Direct web-scale contributed over 26% of total revenue
- EMEA revenue up 39% YoY
- NA revenue up 24% YoY, with telco and web-scale growth

#### **Driving the pace of innovation**

- TTM Adjusted R&D\* investment was \$527.0 million
- WaveLogic Ai has 128 total customers with 16 new wins in Q3
- Waveserver has 142 customers with 8 new wins in Q3

#### **Delivering shareholder value**

- Repurchased approximately 1.1 million shares of common stock for an aggregate price of \$45.4 million
- Adjusted EPS\* growth of 48% YoY
- Adjusted EBITDA\* growth of 31% YoY



<sup>\*</sup> A reconciliation of these non-GAAP measures to our GAAP results is included in the appendix to this presentation.

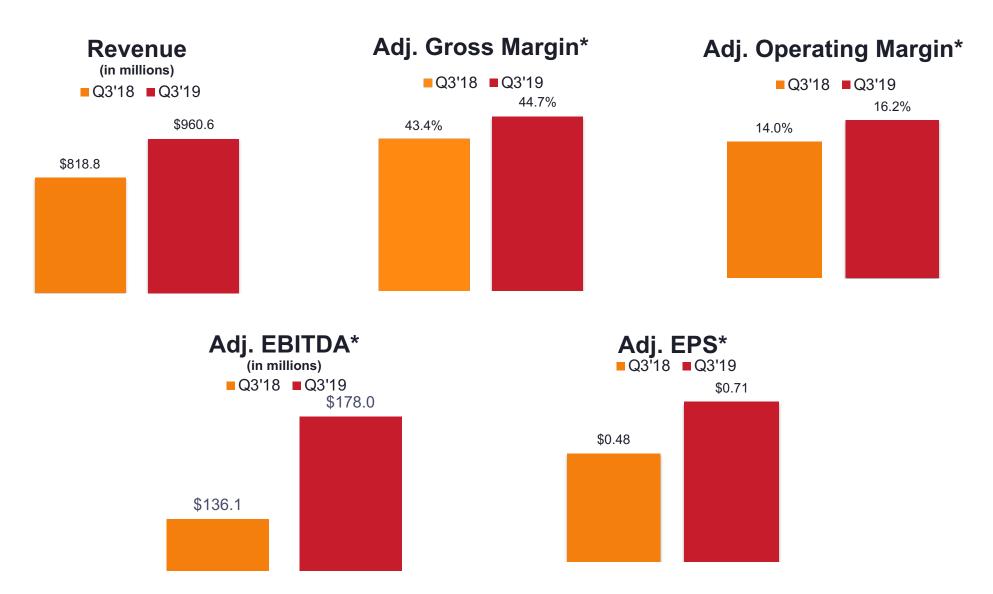
## Q3 fiscal 2019 financial highlights

Revenue	\$960.6 million
Adjusted Gross Margin*	44.7%
Adjusted Operating Margin*	16.2%
Adjusted EBITDA*	\$178.0 million
Adjusted EPS*	\$0.71



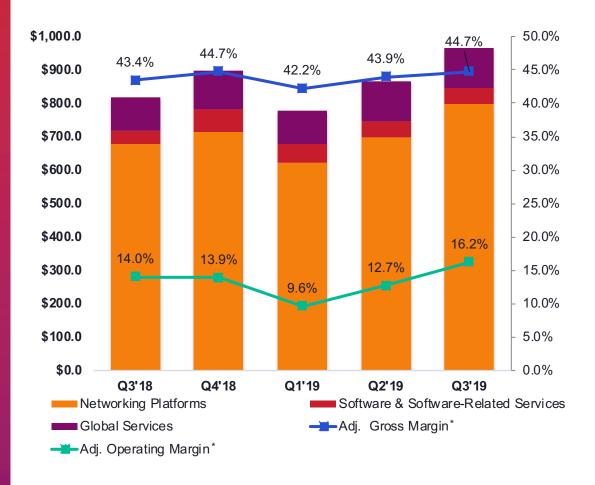
<sup>\*</sup> A reconciliation of these non-GAAP measures to our GAAP results is included in the appendix to this presentation.

### Q3 fiscal 2019 comparisons (year-over-year)





## Revenue by segment (Amounts in millions)



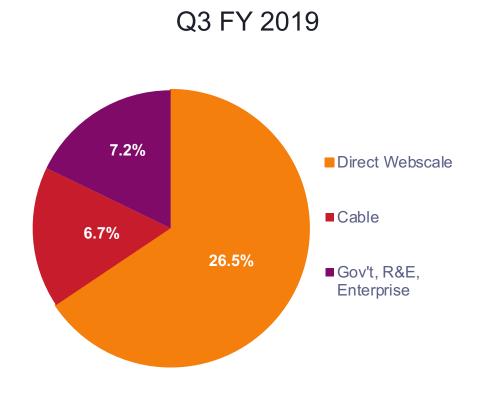
	Q3 FY	<sup>'</sup> 2019	Q3 FY	<sup>7</sup> 2018
	Revenue	%**	Revenue	%**
Networking Platforms				
Converged Packet Optical	\$724.3	75.4	\$592.8	72.4
Packet Networking	71.8	7.5	84.6	10.4
Total Networking Platforms	796.1	82.9	677.4	82.8
Software & Software-Related Services				
Platform Software and Services	37.3	3.9	36.8	4.5
Blue Planet Automation Software and Services	10.5	1.1	4.4	0.5
Total Software & Software-				
Related Services	47.8	5.0	41.2	5.0
Global Services				
Maintenance Support and Training	65.9	6.9	60.9	7.4
Installation and Deployment	39.8	4.1	31.3	3.8
Consulting and Network Design	11.0	1.1	8.0	1.0
Total Global Services	116.7	12.1	100.2	12.2
Total	\$960.6	100.0%	\$818.8	100.0%

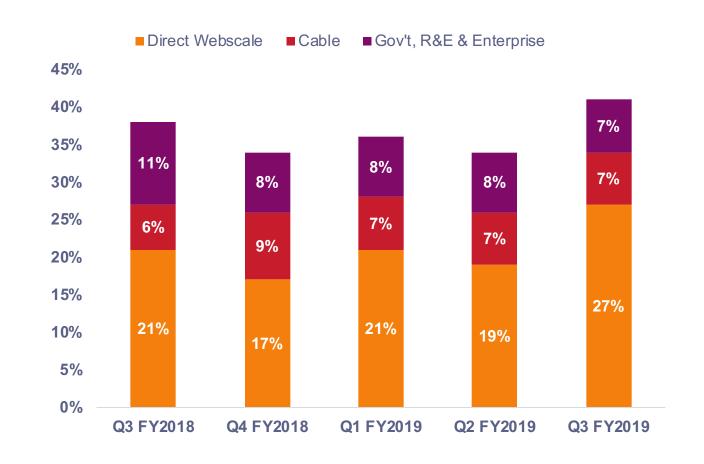
<sup>\*</sup> A reconciliation of these non-GAAP measures to our GAAP results is included in the appendix to this presentation.



<sup>\*\*</sup> Denotes % of total revenue

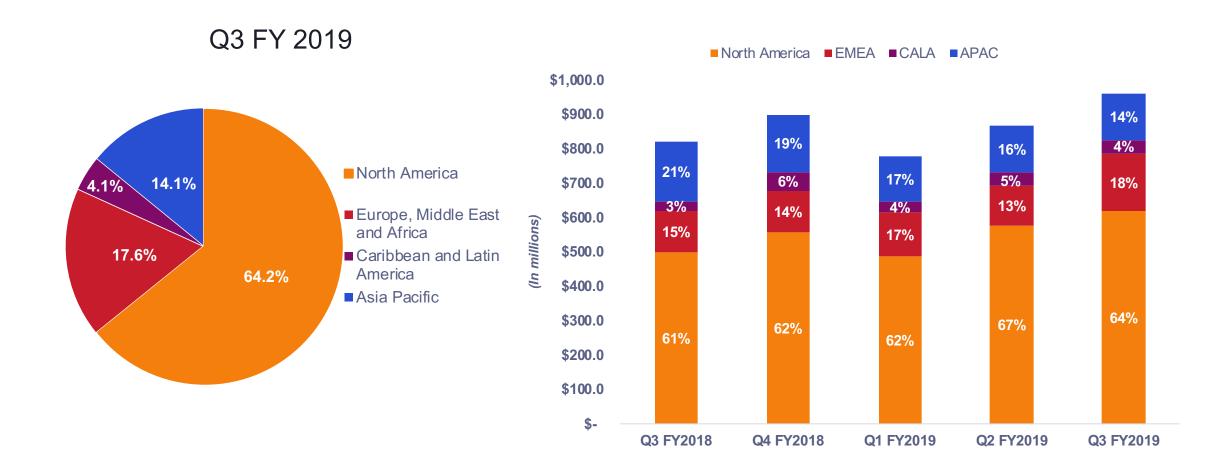
## Continued strength derived from non-telco revenue\*







### Revenue by geographic region



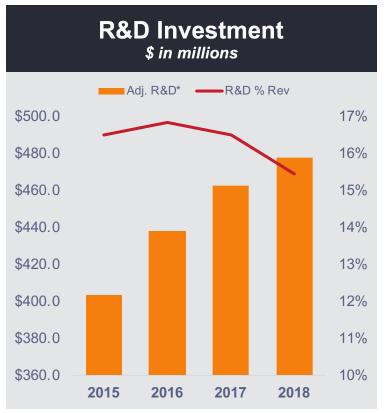


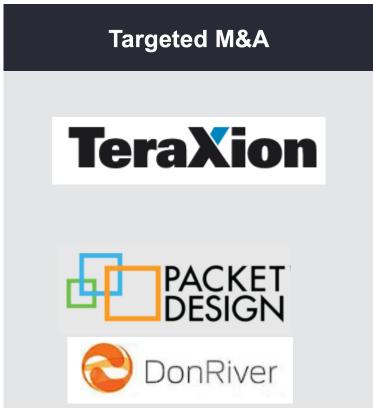
## Q3 fiscal 2019 balance sheet and operating metrics

Cash and Investments	\$842.9 million
Cash Flow From Operations	\$83.1million
DSO	82 Days
Inventory Turns	5.1
Leverage	1.4x
Net Cash	\$80.0



### Returning value to shareholders through strong capital allocation priorities



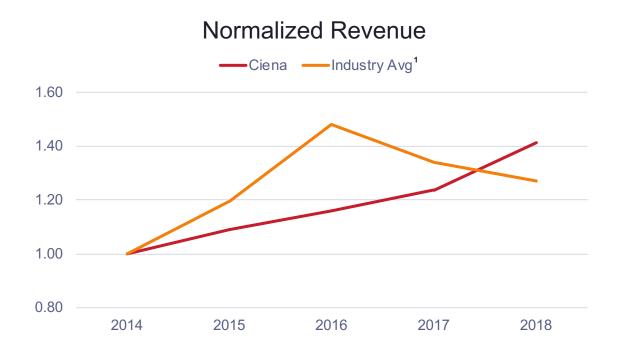


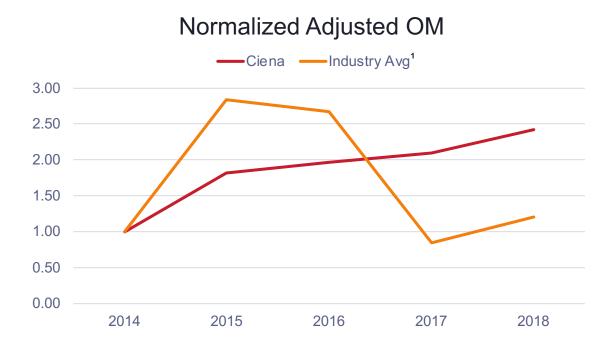




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### Delivering consistent and differentiated financial performance



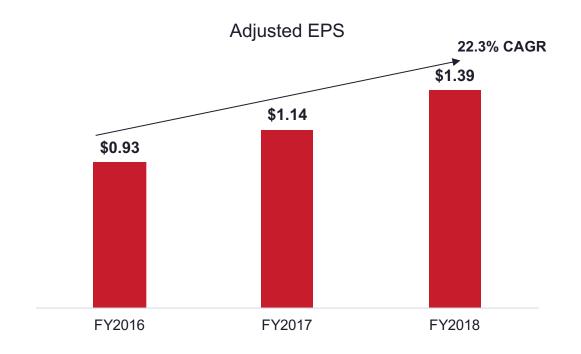


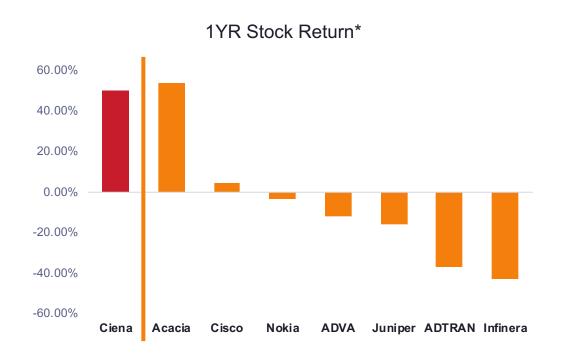
\*Industry Average: ACIA, ADTN, ADVA, CSCO, INFN¹, JNPR and NOKIA IP Networks segment

1. INFN Q4 2018 revenue and adjusted OM exclude Coriant; Coriant adjusted OM is based on the assumption that Coriant had flat GM% and fixed OPEX in 2018



## Delivering profitability and total shareholder return







<sup>\*1</sup> year represents 8/22/18-8/22/19

# **Business outlook and long-term targets**



## Our extraordinary fiscal 2019 performance is driven by a combination of strategic execution and favorable dynamics

#### **Industry dynamics**

- Favorable competitive dynamics
  - Subscale vendors struggle financially and with innovation
  - Larger competitors face competing investment priorities
- Web-scale spending has outpaced the overall market
- Spending by some service provider customers recovers from lower levels

#### "Flight to quality"

- Customer trust in Ciena and strong relationships
  - Web-scale providers pursue quality products and a strong roadmap
  - Service providers seek strong, long-term partners
- Tier 1 service provider wins at a higher rate

#### **Continued strategic execution**

- WaveLogic Ai continues to outperform alternative products and WaveLogic 5e launch timing leads the market
- Complementary solutions that continue to meet customer requirements including Blue Planet Software Automation & Services and Packet Networking
- Diversification as a result of broad based geographies, market verticals and customers

All the above is resulting in intensified share gains



#### **Business Outlook<sup>1</sup>**

Q4'19						
Revenue	\$945M to \$975M					
Adjusted Gross Margin	42%-43%					
Adjusted Operating Expense	Approximately \$275M					



<sup>1</sup> Projections or outlook with respect to future operating results are only as of September 5, 2019, the date presented on the related earnings call. Actual results may differ materially from these forward looking statements. Ciena assumes no obligation to update this information, whether as a result of new information, future events or otherwise.

## Long-term financial targets<sup>1</sup> Execution of our strategy will drive top-line growth, profitability and cash generation

#### Revenue

Approximately 6% to 8% annual growth over the next three years

#### Adj. operating margin

15% for fiscal 2020; expect to achieve at least 15% in fiscal 2021

#### Adj. EPS

Over 20% annual growth per year over the next three years

#### Free cash flow

Approximately 60-70% of adjusted operating income in each of the next three years

1 Projections or outlook with respect to future operating results are only as of December 13, 2018, the date presented on the related earnings call. Actual results may differ materially from these forward looking statements. Ciena assumes no obligation to update this information, whether as a result of new information, future events or otherwise.



### **Long-term financial targets\***

Three-year annual revenue growth targets							
Optical Systems	Approximately 4-6%						
Attached Services	Approximately 4-6%						
Packet Networking	Approximately 8-10%						
Blue Planet	Approximately \$100M-\$120M <sup>1</sup>						



<sup>\*</sup>Projections or outlook with respect to future operating results are only as of December 13, 2018, the date presented on the related earnings call. Actual results may differ materially from these forward looking statements. Ciena assumes no obligation to update this information, whether as a result of new information, future events or otherwise.

<sup>&</sup>lt;sup>1</sup>Projection indicates annual target for Ciena's Blue Planet Automation software and services business in fiscal 2021

## Q3 fiscal 2019 appendix



## Gross Profit Reconciliation (Amounts in thousands)

	Q3 FY 2019	Q2 FY 2019	Q1 FY 2019	Q4 FY 2018	Q3 FY 2018
GAAP gross profit	\$424,352	\$374,677	\$323,341	\$398,075	\$351,543
Share-based compensation-products	781	702	637	705	783
Share-based compensation-services	783	907	770	651	618
Amortization of intangible assets	3,303	3,303	3,418	2,957	2,534
Total adjustments related to gross profit	4,867	4,912	4,825	4,313	3,935
Adjusted (non-GAAP) gross profit	\$429,219	\$379,589	\$328,166	\$402,388	\$355,478
Adjusted (non-GAAP) gross margin	44.7%	43.9%	42.2%	44.7%	43.4%

## Operating Expense Reconciliation (Amounts in thousands)

	Q3 FY 2019	Q2 FY 2019	Q1 FY 2019	Q4 FY 2018	Q3 FY 2018
GAAP operating expense	\$299,051	\$294,357	\$275,398	\$302,205	\$266,269
Share-based compensation-research and development	3,560	4,083	3,391	3,385	3,082
Share-based compensation-sales and marketing	4,192	4,346	3,785	3,741	3,417
Share-based compensation-general and administrative	5,813	5,491	5,112	5,588	4,538
Amortization of intangible assets	5,529	5,529	5,528	4,654	3,837
Significant asset impairments and restructuring costs	5,355	4,068	2,273	1,460	6,359
Acquisition and integration costs, excluding share-based compensation	1,362	1,135	1,608	3,778	1,333
Legal settlement	-	-	137	1,929	2,753
Total adjustments related to operating expense	\$25,811	\$24,652	\$21,834	\$24,535	\$25,319
Adjusted (non-GAAP) operating expense	\$273,240	\$269,705	\$253,564	\$277,670	\$240,950

## Income from Operations Reconciliation (Amounts in thousands)

	Q3 FY 2019	Q2 FY 2019	Q1 FY 2019	Q4 FY 2018	Q3 FY 2018
GAAP income from operations	\$125,301	\$80,320	\$47,943	\$95,870	\$85,274
Total adjustments related to gross profit	4,867	4,912	4,825	4,313	3,935
Total adjustments related to operating expense	25,811	24,652	21,834	24,535	25,319
Total adjustments related to income from operations	30,678	29,564	26,659	28,848	29,254
Adjusted (non-GAAP) income from operations	\$155,979	\$109,884	\$74,602	\$124,718	\$114,528
Adjusted (non-GAAP) operating margin	16.2%	12.7%	9.6%	13.9%	14.0%

## Net Income Reconciliation (Amounts in thousands)

	Q3 FY 2019	Q2 FY 2019	Q1 FY 2019	Q4 FY 2018	Q3 FY 2018
GAAP net income	\$86,749	\$52,738	\$33,616	\$63,977	\$50,840
Exclude GAAP provision (benefit) for income taxes	30,198	17,867	9,139	(10,224)	19,280
Income before income taxes	116,947	70,605	42,755	53,753	70,120
Total adjustments related to income from operations	30,678	29,564	26,659	28,848	29,254
Loss on extinguishment and modification of debt	-	-	-	13,887	-
Non-cash interest expense	-	-	-	727	793
Change in fair value of debt conversion liability	-	-	-	12,070	<u>-</u>
Adjusted income before income taxes	147,625	100,169	69,414	109,285	100,167
Non-GAAP tax provision on adjusted income before income taxes	35,282	23,940	16,590	28,272	25,913
Adjusted (non-GAAP) net income	\$112,343	\$76,229	\$52,824	\$81,013	\$74,254
Weighted average basic common shares outstanding	155,488	156,170	156,314	143,659	143,400
Weighted average dilutive potential common shares outstanding <sup>1</sup>	157,455	158,289	158,174	157,745	159,998

#### Net Income per Common Share

	Q3 FY	Q3 FY 2019		Q2 FY 2019		Q1 FY 2019		Q4 FY 2018		<b>7 2018</b>
GAAP diluted net income per common share	\$	0.55	\$	0.33	\$	0.21	\$	0.34	\$	0.34
Adjusted (Non-GAAP) diluted net income per common share	\$	0.71	\$	0.48	\$	0.33	\$	0.53	\$	0.48

<sup>1.</sup> Weighted average dilutive potential common shares outstanding used in calculating adjusted (non-GAAP) diluted net income per common share for the third quarter of fiscal 2019 includes 2.0 million shares underlying certain stock options and stock unit awards.



## Earnings Before Interest, Tax, Depreciation and Amortization (EBITDA) (Amounts in thousands)

Earnings Before Interest, Tax, Depreciation and Amortization (EBITDA)	Q3 I	FY 2019	Q2 FY 2019		Q2 FY 2019 Q1 FY 2019		Q4 FY 2018		Q3 FY 2018	
Net income (GAAP)	\$	86,749	\$	52,738	\$	33,616	\$	63,977	\$	50,840
Add: Interest expense		9,404		9,471		9,441		14,873		13,611
Less: Interest and other income (loss), net		1,050		(244)		4,253		(13,357)		(1,543)
Add: Loss on extinguishment and modification of debt		-		-		-		(13,887)		-
Add: Provision (benefit) for income taxes		30,198		17,867		9,139		(10,224)		19,280
Add: Depreciation of equipment, building, furniture and fixtures, and amortization of leasehold improvements		22,076		21,482		21,513		21,110		21,704
Add: Amortization of intangible assets		8,832		8,832		8,947		7,611		6,371
EBITDA	\$	156,209	\$	110,634	\$	78,403	\$	124,591	\$	113,349
Add: Share-based compensation cost		15,084		15,607		13,755		14,076		12,337
Add: Significant asset impairments and restructuring costs		5,355		4,068		2,273		1,460		6,359
Add: Acquisition and integration costs		1,362		1,135		1,608		3,778		1,333
Add: Legal settlement		-		-		137		1,929		2,753
Adjusted EBITDA	\$	178,010	\$	131,444	\$	96,176	\$	145,834	\$	136,131



## **Thank You**