



Ciena Corporation

Earnings Presentation

Period ended May 1, 2021

June 3, 2021

Forward-looking statements and non-GAAP measures

Information in this presentation and related comments of presenters contain a number of forward-looking statements that involve risks and uncertainties. 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 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 successfully our business and growth strategies; the duration and severity of the COVID-19 pandemic and its impact on macroeconomic conditions, economic activity, demand for our technology solutions, short- and long-term changes in customer or end user needs, continuity of supply chain, our business operations, liquidity and financial results; 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; factors beyond our control such as natural disasters, acts of war or terrorism, and public health emergencies, including the COVID-19 pandemic; the impact of the Tax Cuts and Jobs Act; changes in tax or trade regulations, including the imposition of tariffs, duties or efforts to withdraw from or materially modify international trade agreements; changes in estimates of prospective income tax rates and any adjustments to Ciena's provisional estimates whether related to further guidance, analysis or otherwise; and the other risk factors disclosed in Ciena's periodic reports filed with the Securities and Exchange Commission (SEC) including Ciena's Annual Report on Form 10-K filed with the SEC on December 18, 2020 and Ciena's Quarterly Report on Form 10-Q for the second quarter of fiscal 2021 to be filed with the SEC.

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 Forms 10-K and 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, operating expense, operating margin and earnings per share 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.

COVID-19 response

Safety and community

- Prioritizing health of employees and following CDC guidance for employers
- The vast majority of our employees are working remotely
- Instituted pandemic employee benefits
- Enhanced our corporate charitable matching program for employee donations and volunteering

Result: Our employees have excelled through their continued focus, strength and kindness

Business continuity

- Supply chain design and business continuity planning has enabled us to continue to support customers and mitigate disruption
- Significant IT investment in digital platforms and virtual collaboration tools has enabled a seamless transition to remote working

Result: We are well positioned to manage through the current set of challenges presented by COVID-19

Financial strength

- We have a strong balance sheet and have demonstrated solid cash flow generation over time
- In light of our confidence around cash generation, we reinstated our share repurchase plan starting in the first quarter of 2021

Result: Our financial strength provides long-term resiliency and differentiated flexibility to support our business

As COVID-19 challenges vary around the world, we remain vigilant and committed to our customers and employees

Q2 FY 2021 results

Q2 FY 2021 key achievements

We are driving the pace of innovation	We have a durable business and financial model	We are committed to our people and communities
<ul style="list-style-type: none">• WaveLogic™ 5 Extreme (WL5e) added 16 new wins, bringing our total number of revenue customers to 95• Blue Planet has roughly 200 total customers for our automation software and services portfolio• Roughly a dozen wins in our Routing and Switching portfolio including global Tier 1 service providers, MSOs and enterprises	<ul style="list-style-type: none">• Despite headwinds from COVID-19 our profitability has remained strong<ul style="list-style-type: none">• Adj. operating margin* was 15.8%• Our balance sheet represents a competitive advantage<ul style="list-style-type: none">• Ended the quarter with over \$1.4B in cash and investments• Leverage remains below our target level	<ul style="list-style-type: none">• Launched Digital Inclusion Commitment initiative with a goal to provide opportunities for 100,000 underserved students in our global communities• Announced innovative programs with customers to promote our digital inclusion mission• Supporting our employees through empowering programs, a focus on well-being and commitment to diversity, inclusion and belonging

In this challenging period we continued to drive the pace of innovation and demonstrate resilience while focusing on kindness to others

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

Market context



Several mega trends and the innovations that will enable them

Cloud



Data Center



IoT & Connected Objects



Fiber Deep
(Cable/MSO)



Mobility & 5G



Living a Hybrid Life



Market leadership



#1 GLOBALLY

- DATA CENTER INTERCONNECT
- DATA CENTER INTERCONNECT FOR ICP/CNPs
- PURPOSE-BUILT/COMPACT MODULAR DCI
- OPTICAL NETWORKING FOR ICP/CNPs
- OPTICAL NETWORK HARDWARE VENDOR SCORECARD
- OPTICAL EQUIPMENT VENDOR LEADERSHIP SP SURVEY
- SLTE WDM

#1 N. AMERICA

- TOTAL OPTICAL NETWORKING
- DATA CENTER INTERCONNECT
- PURPOSE-BUILT/COMPACT MODULAR DCI
- TOTAL WDM
- LH WDM
- METRO WDM
- SLTE WDM
- ACCESS SWITCHING

#2 GLOBALLY

- TOTAL OPTICAL NETWORKING
- TOTAL WDM
- LH WDM
- ACCESS SWITCHING

Optical Networking Report, 1Q21
Data Center Interconnect Market Share Report, 1Q21
Optical Network HW Vendor Scorecard, Jun 2020
Optical Equipment Vendor Leadership Global Service Provider Survey, Dec 2019
Service Provider Routers & Switches Report, 1Q21

#1 GLOBALLY

- PURPOSE-BUILT/COMPACT MODULAR DCI
- CLOUD & COLO

#1 N. AMERICA

- TOTAL OPTICAL NETWORKING
- PURPOSE-BUILT/COMPACT MODULAR DCI
- TOTAL WDM
- LH WDM
- METRO WDM
- SLTE WDM

#2 GLOBALLY

- TOTAL OPTICAL NETWORKING
- TOTAL WDM
- SLTE WDM

Optical Transport Hardware Report, 1Q21
Transport Customer Markets Report, 4Q20
Transport Applications Report, 4Q20

#1 GLOBALLY

- DATA CENTER INTERCONNECT
- INTERNET CONTENT PROVIDER CUSTOMERS
- PURPOSE-BUILT/COMPACT MODULAR DCI

#1 N. AMERICA

- TOTAL OPTICAL NETWORKING
- DATA CENTER INTERCONNECT
- OPTICAL PACKET
- TOTAL WDM
- LH WDM
- METRO WDM

#2 GLOBALLY

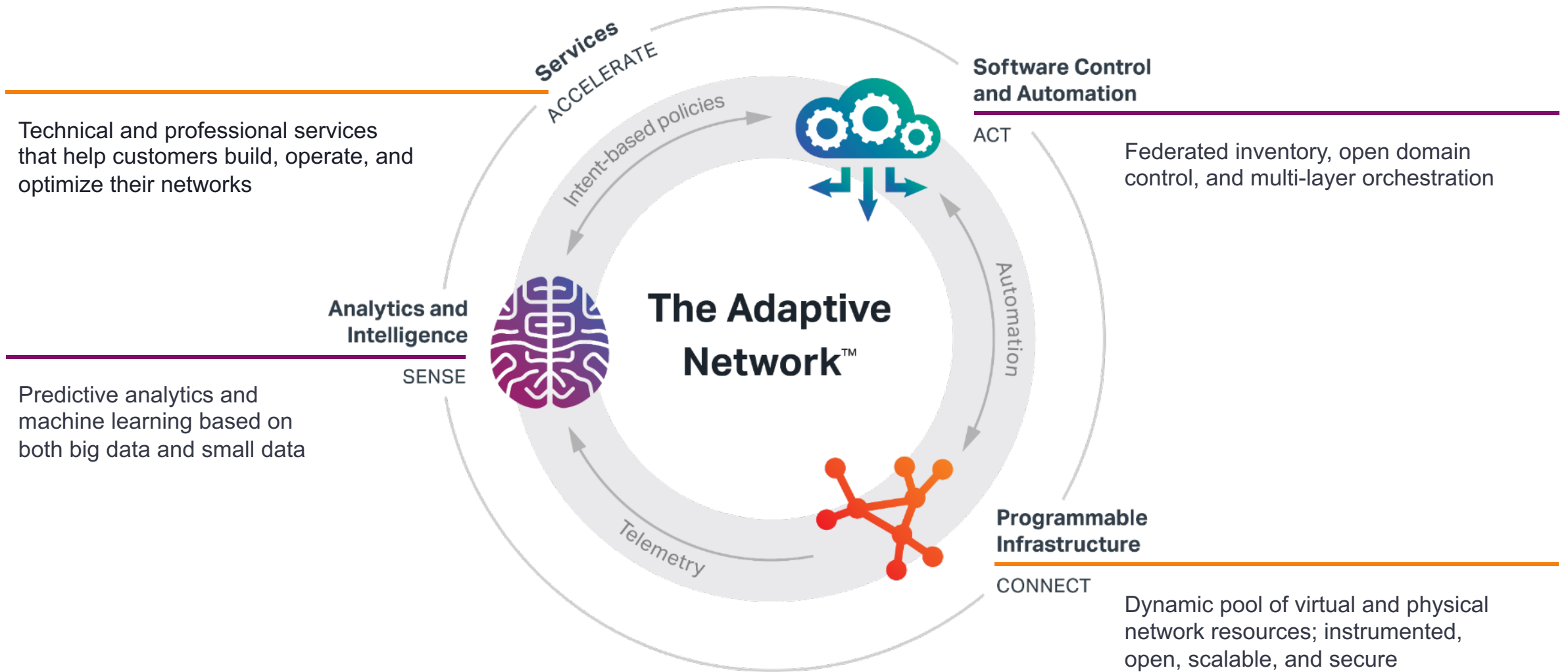
- TOTAL OPTICAL NETWORKING
- OPTICAL PACKET
- TOTAL WDM
- LH WDM
- METRO WDM
- CABLE MSO CUSTOMERS

Optical Transport Report, 1Q21

Ciena's Adaptive Network™ vision and portfolio

Our vision for a new network end-state

How it works



Our portfolio

Enabling the Adaptive Network™



SOFTWARE CONTROL AND AUTOMATION

Blue Planet® multi-domain orchestration, federated inventory, and service order management solutions support the broadest range of closed-loop automation use cases across multi-layer, multi-vendor networks.

Ciena's Manage, Control and Plan (MCP) domain controller provides intelligent, data-driven software-defined programmability to lifecycle operations of Ciena networks.



ANALYTICS AND INTELLIGENCE

Ciena and Blue Planet® Unified Assurance and Analytics: Open suite of software products that unifies multi-layer, multi-domain assurance, with AI-powered analytics to provide strategic insights to transform and simplify business, IT, and network operations.

MCP Advanced Apps: Applications designed to enhance operations and simplify user experience for optimization of multi-layer network performance, featuring Liquid Spectrum™ for increased optical network capacity and service availability, and Adaptive IP™ Apps for advanced real-time visualization and analysis of IP networks.



PROGRAMMABLE INFRASTRUCTURE

Converged Packet-Optical Networking: Software-programmable platforms, featuring Ciena's award-winning WaveLogic™ Photonics with optional agnostic packet/OTN switching, designed to maximize scale, flexibility, and open networking. Optimizes network performance across applications from metro to submarine, and is the dominant portfolio used globally for Data Center Interconnect.

Routing and Switching: Purpose-built routing, switching, and x86 VNF hosting platforms—using a common Service-Aware Operating System (SAOS)—provide the building blocks for low-touch, high-velocity IP, Segment Routing, Ethernet, MPLS, and 10G PON in access to metro networks.

CIENA SERVICES

A consultative approach to build, operate, and continually improve customers' networks to accelerate their unique journey to the Adaptive Network.

We bring experienced technical personnel, best practices, and processes—along with the most effective tools for handling network complexities to work alongside customers every step of the way.

Q2 FY 2021 results

Q2 FY 2021 key highlights

Achieving balanced growth

- Non-telco represented 43% of total revenue
 - Direct web-scale increased Works., representing 24% of total revenue
- EMEA revenue increased 10% YoY, representing nearly 19% of total revenue
- Blue Planet revenue increased 60% YoY, reaching \$24M - a record

Driving the pace of innovation

- GAAP R&D investment was approximately 13% of total revenue
- 648 100G+ total customers, which includes 17 new wins on WaveLogic Ai and 16 new wins on WaveLogic 5 Extreme
- WL5e has now shipped to 95 customers, all of whom are actively deploying the technology in their networks

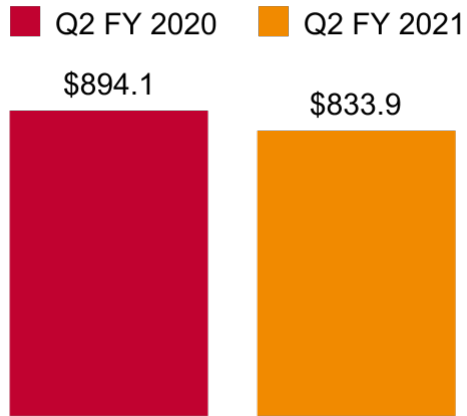
Prioritizing long term shareholder value

- Total shareholder return three year CAGR of 31%*
- Adjusted gross margin improved by 230bps YoY
- Repurchased approximately 483,500 shares as part of our equity repurchase program

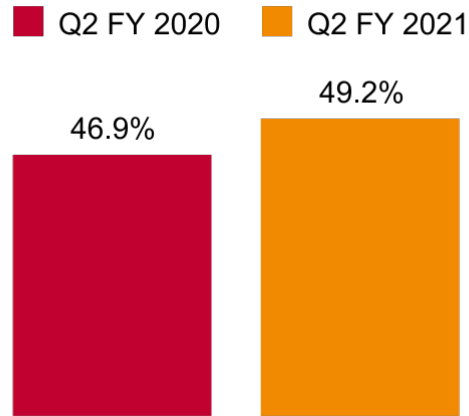
* 6/1/2018 to 5/31/2021, S&P Capital IQ

Q2 FY 2021 comparisons (year-over-year)

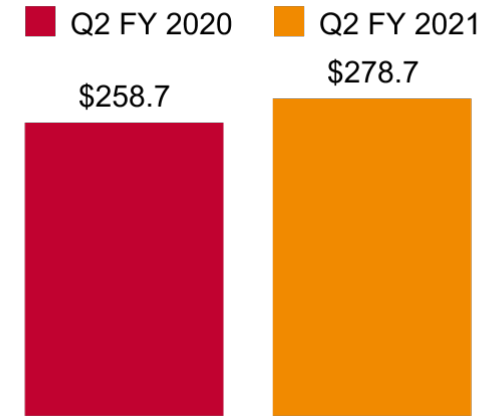
Revenue (in millions)



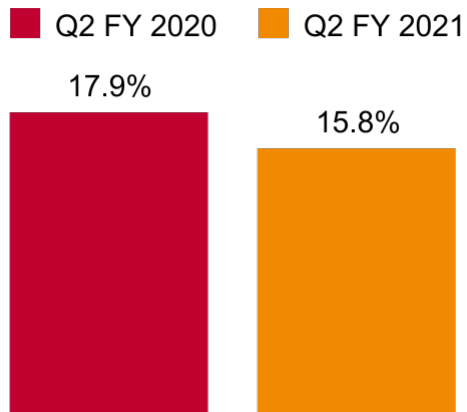
Adj. Gross Margin*



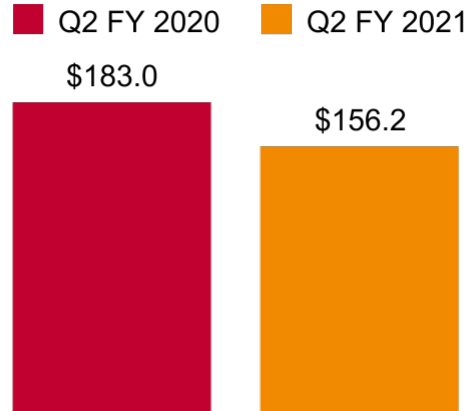
Adj. OpEx* (in millions)



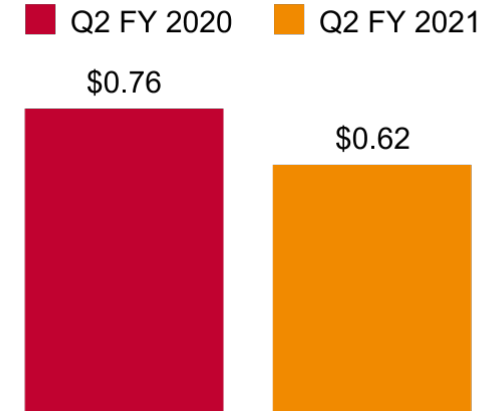
Adj. Operating Margin*



Adj. EBITDA* (in millions)



Adj. EPS*



Q2 FY 2021 comparative operating metrics

	Q2 FY 2021	Q2 FY 2020
Cash and Investments	\$1.4B	\$988.5M
Cash Flow from Operations	\$225M	\$91M
DSO	86	79
Inventory Turns	3.4	5.0
Gross Leverage	1.1x	1.4x
Net Cash (Debt)	\$696M	\$(235)M

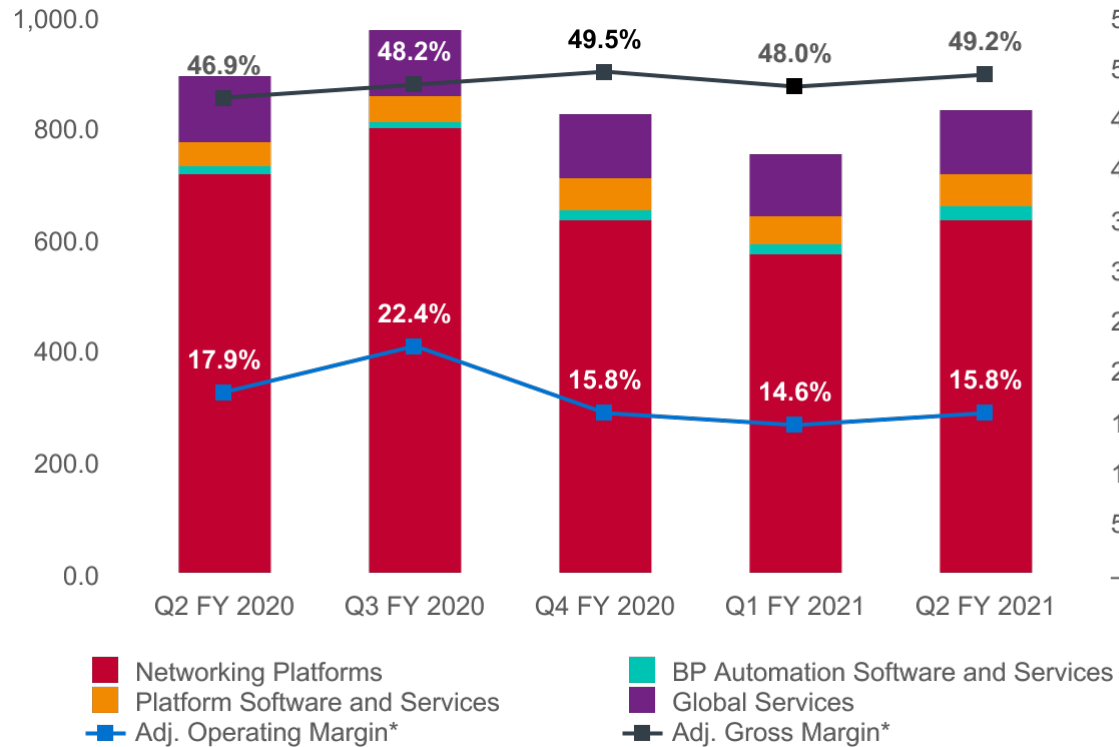
Q2 FY 2021 comparative financial highlights

	Q2 FY 2021	Q2 FY 2020
Revenue	\$833.9M	\$894.1M
Adjusted Gross Margin*	49.2%	46.9%
Adjusted Operating Expense*	\$278.7M 33.4% / total revenue	\$258.7M 28.9% / total revenue
Adjusted Operating Margin*	15.8%	17.9%
Adjusted EBITDA*	\$156.2M	\$183.0M
Adjusted EPS*	\$0.62	\$0.76

* A reconciliation of these non-GAAP measures to our GAAP results is included in the press release for the relative period.

Revenue by segment

(Amounts in millions)



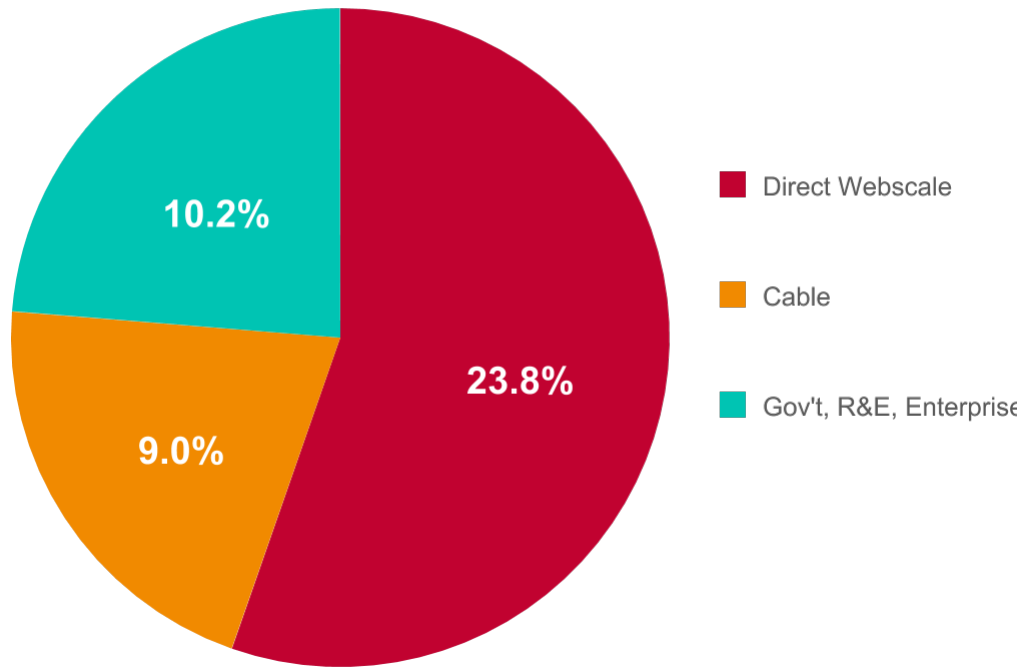
	Q2 FY 2021		Q2 FY 2020	
	Revenue	%**	Revenue	%**
Networking Platforms				
Converged Packet Optical	573.7	68.8	654.3	73.2
Routing and Switching	63.6	7.6	64.2	7.2
Total Networking Platforms	637.3	76.4	718.5	80.4
Platform Software and Services	56.7	6.8	45.0	5.0
Blue Planet Automation Software and Services	23.9	2.9	15.0	1.7
Global Services				
Maintenance Support and Training	70.4	8.4	71.5	8.0
Installation and Deployment	38.0	4.6	34.2	3.8
Consulting and Network Design	7.6	0.9	9.9	1.1
Total Global Services	116.0	13.9	115.6	12.9
Total	\$833.9	100.0 %	\$894.1	100.0 %

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

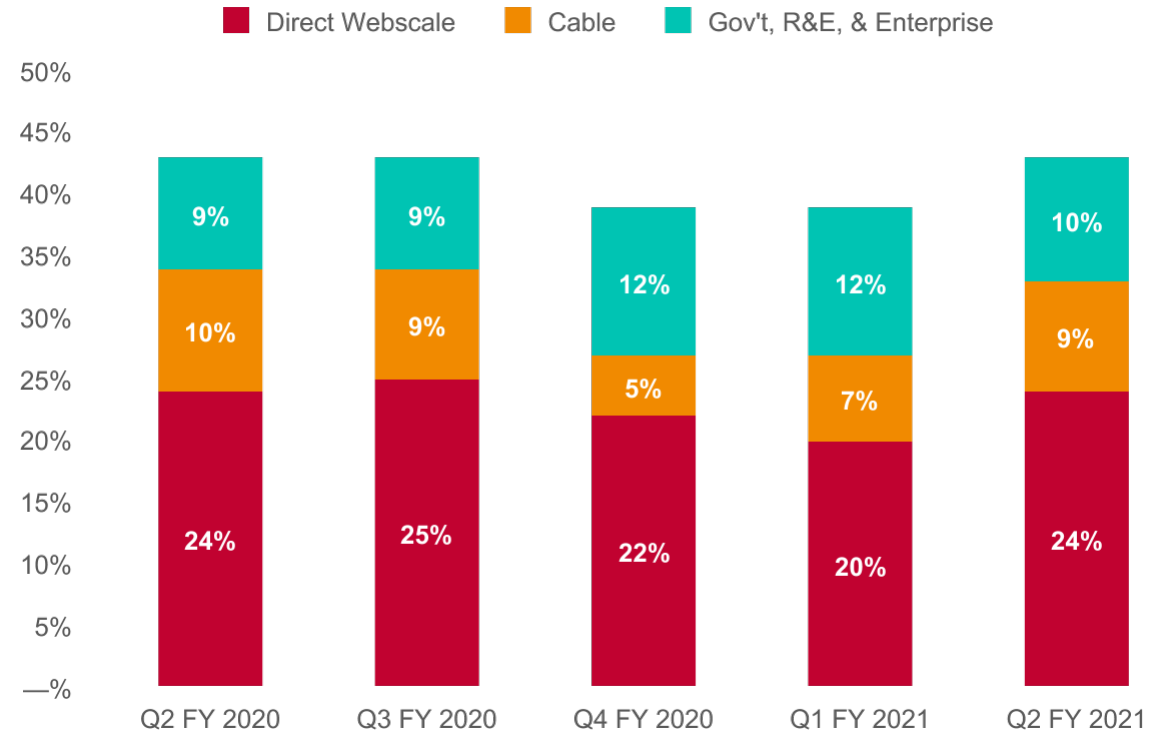
** Denotes % of total revenue

Continued revenue strength derived from non-telco customers*

Q2 FY 2021

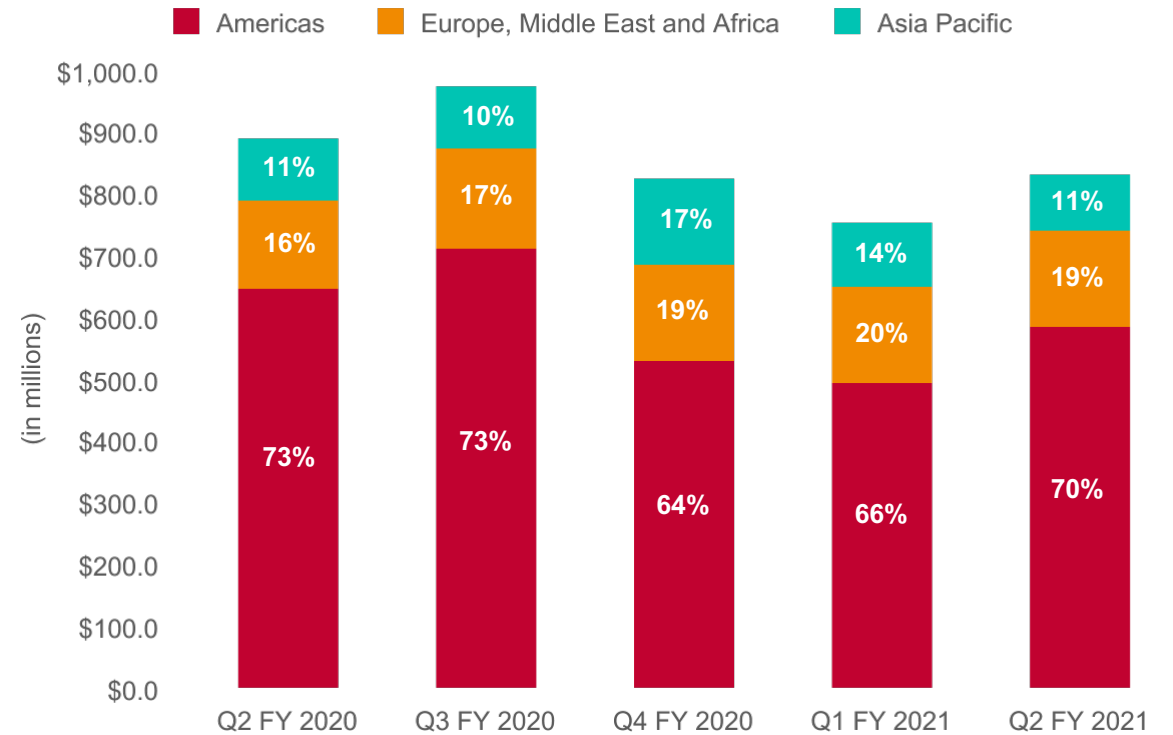
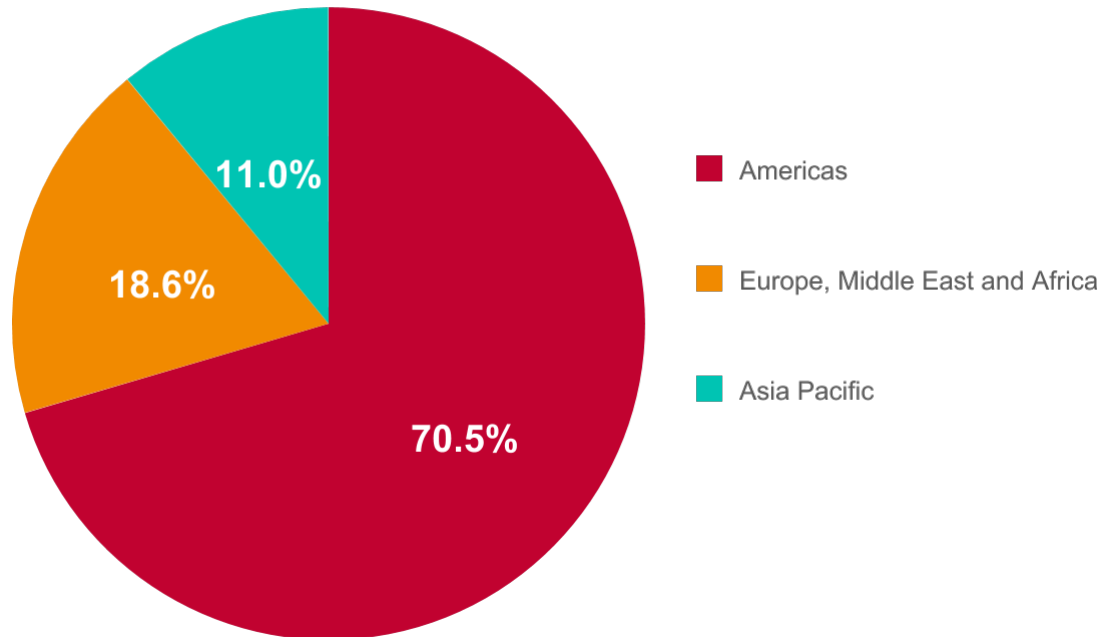


*represents 43.0% of total revenue in Q2 FY 2021



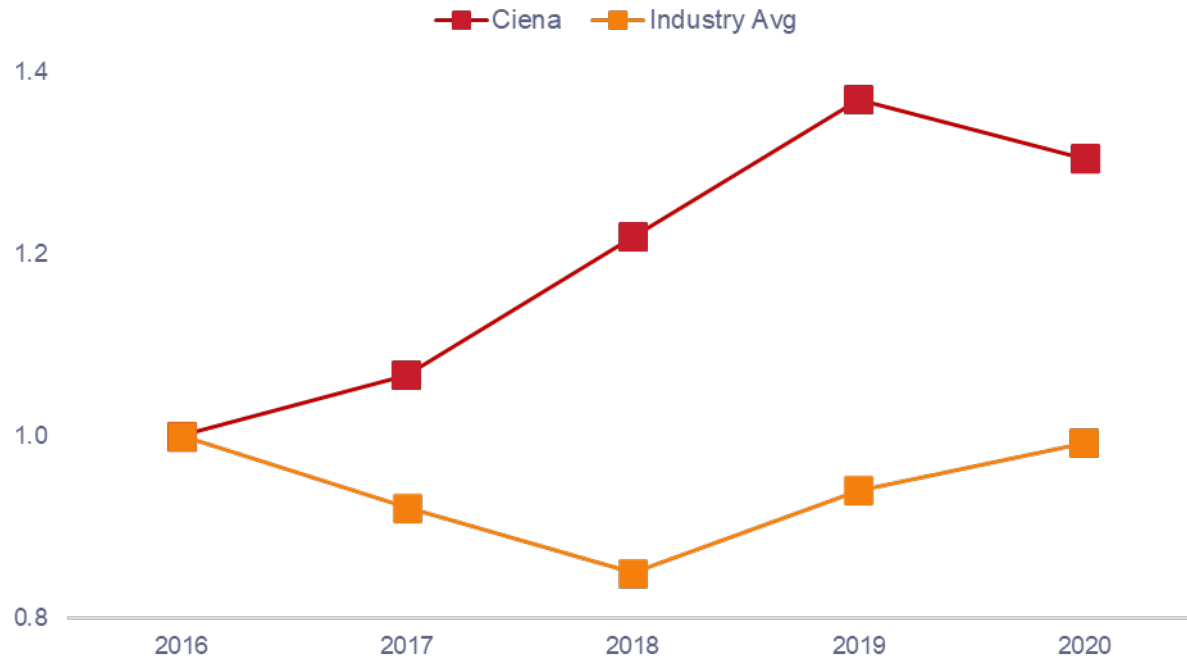
Revenue by geographic region

Q2 FY 2021

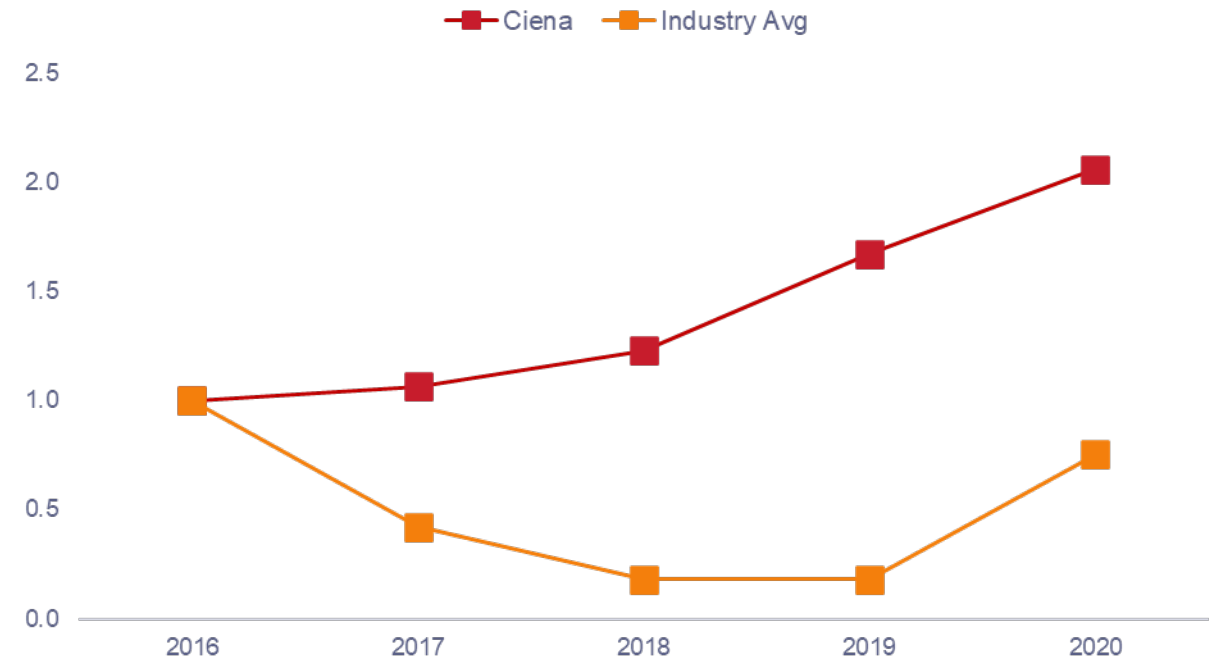


Delivering consistent financial performance

Normalized Revenue



Normalized Adjusted OM



Source: Company filings
 Industry Average: ACIA, ADTN, ADVA, CSCO, INFN^a, JNPR and NOKIA Networks segment

a. INFN represents INFN+Coriant from the time the acquisition closed

Business outlook



Economic considerations in our 2021 outlook

Revenue Assumptions

- Industry and economic conditions improve as we move through the year, enabling strong second half performance
- Spend from service providers globally returns to pre-pandemic levels with a more balanced approach on edge and access
- Customers rebalance spend, prioritizing new architectures and deployments, which enables us to monetize our design wins

Profitability Assumptions

- Mix will have a short-term positive effect on gross margin, and is extending into the second half
- While we now expect higher gross margin for the year, as revenue begins to reflect a more typical mix of existing and new business, gross margin begins to moderate
- Strategic investments in our people and portfolio drive operating expense to pre-pandemic levels

Business Assumptions

- In the face of an asymmetric recovery from the pandemic, we are a resilient business with diversification and distinct competitive advantages
- Despite COVID-19, we continue to drive profitability and have capacity for continued innovation investment
- Longer-term fundamental demand drivers—including increasing network traffic, demand for bandwidth and adoption of cloud architectures – remain strong

While COVID-19 is improving in certain geographies, challenges remain in others

Business Outlook¹

Q3' 21

Revenue \$950M to \$980M

Adjusted Gross Margin 46% to 47%

Adjusted Operating Expense \$285M to \$290M

FY 2021

Revenue Growth 0% to 3%

Adjusted Gross Margin 46% to 47% for 2H

Adjusted Operating Expense \$280M to \$285M average per quarter for Q2 through Q4

Adjusted Operating Margin 16% to 17%

¹ Projections or outlook with respect to future operating results are only as of June 3, 2021, 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.

Q2 FY 2021 appendix

Gross Profit Reconciliation (Amounts in thousands)

	Q2 FY 2021	Q1 FY 2021	Q4 FY 2020	Q3 FY 2020	Q2 FY 2020
GAAP gross profit	\$412,419	\$357,891	\$404,349	\$464,681	\$413,326
Share-based compensation-products	498	953	724	960	827
Share-based compensation-services	1,421	1,205	968	1,007	1,036
Emergency Wage Subsidy - Product	(4,189)	—	—	—	—
Emergency Wage Subsidy - Services	(2,620)	—	—	—	—
Amortization of intangible assets	2,856	3,732	3,732	3,834	3,835
Total adjustments related to gross profit	(2,034)	5,890	5,424	5,801	5,698
Adjusted (non-GAAP) gross profit	\$410,385	\$363,781	\$409,773	\$470,482	\$419,024
Adjusted (non-GAAP) gross profit percentage	49.2 %	48.0 %	49.5 %	48.2 %	46.9 %

Operating Expense Reconciliation (Amounts in thousands)

	Q2 FY 2021	Q1 FY 2021	Q4 FY 2020	Q3 FY 2020	Q2 FY 2020
GAAP operating expense	\$278,790	\$282,096	\$310,866	\$276,645	\$285,838
Share-based compensation-research and development	5,844	4,794	4,030	4,286	4,822
Share-based compensation-sales and marketing	6,610	5,816	5,137	5,180	5,264
Share-based compensation-general and administrative	6,743	6,358	5,982	5,940	5,975
Emergency Wage Subsidy-research and development	(28,923)	—	—	—	—
Emergency Wage Subsidy-sales and marketing	(2,551)	—	—	—	—
Emergency Wage Subsidy-general and administrative	(2,161)	—	—	—	—
Amortization of intangible assets	6,019	5,910	5,851	5,840	5,839
Significant asset impairments and restructuring costs	8,209	5,867	7,854	6,515	3,811
Acquisition and integration costs (recoveries)	294	307	3,127	(2,329)	1,414
Total adjustments related to operating expense	84	29,052	31,981	25,432	27,125
Adjusted (non-GAAP) operating expense	\$278,706	\$253,044	\$278,885	\$251,213	\$258,713

Income from Operations Reconciliation (Amounts in thousands)

	Q2 FY 2021	Q1 FY 2021	Q4 FY 2020	Q3 FY 2020	Q2 FY 2020
GAAP income from operations	\$133,629	\$75,795	\$93,483	\$188,036	\$127,488
Total adjustments related to gross profit	(2,034)	5,890	5,424	5,801	5,698
Total adjustments related to operating expense	84	29,052	31,981	25,432	27,125
Total adjustments related to income from operations	(1,950)	34,942	37,405	31,233	32,823
Adjusted (non-GAAP) income from operations	\$131,679	\$110,737	\$130,888	\$219,269	\$160,311
Adjusted (non-GAAP) operating margin percentage	15.8 %	14.6 %	15.8 %	22.4 %	17.9 %

Net Income Reconciliation (Amounts in thousands)

	Q2 FY 2021	Q1 FY 2021	Q4 FY 2020	Q3 FY 2020	Q2 FY 2020
GAAP net income	\$103,117	\$55,348	\$65,041	\$142,267	\$91,655
Exclude GAAP provision for income taxes	21,453	11,966	20,798	38,750	25,308
Income before income taxes	124,570	67,314	85,839	181,017	116,963
Total adjustments related to income from operations	(1,950)	34,942	37,405	31,233	32,823
Unrealized (gain) loss on equity investment	165	—	(2,681)	—	—
Adjusted income before income taxes	122,785	102,256	120,563	212,250	149,786
Non-GAAP tax provision on adjusted income before income taxes	25,171	20,962	26,042	45,846	32,354
Adjusted (non-GAAP) net income	\$97,614	\$81,294	\$94,521	\$166,404	\$117,432
Weighted average basic common shares outstanding	155,331	155,174	154,706	154,184	153,858
Weighted average diluted potential common shares outstanding ⁽¹⁾	156,876	156,583	156,563	156,318	155,141

Net Income per Common Share

	Q2 FY 2021	Q1 FY 2021	Q4 FY 2020	Q3 FY 2020	Q2 FY 2020
GAAP diluted net income per potential common share	\$ 0.66	\$ 0.35	\$ 0.42	\$ 0.91	\$ 0.59
Adjusted (non-GAAP) diluted net income per potential common share	\$ 0.62	\$ 0.52	\$ 0.60	\$ 1.06	\$ 0.76

1. Weighted average diluted potential common shares outstanding used in calculating Adjusted (non-GAAP) diluted net income per potential common share for the second quarter of fiscal 2021 includes 1.5 million shares underlying certain stock option and stock unit awards.

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

Earnings Before Interest, Tax, Depreciation and Amortization (EBITDA)	Q2 FY 2021	Q1 FY 2021	Q4 FY 2020	Q3 FY 2020	Q2 FY 2020
Net income (GAAP)	\$103,117	\$55,348	\$65,041	\$142,267	\$91,655
Add: Interest expense	7,785	7,360	7,395	7,251	7,860
Add: Interest and other (income) loss, net	1,274	1,121	249	(232)	2,665
Add: Provision for income taxes	21,453	11,966	20,798	38,750	25,308
Add: Depreciation of equipment, building, furniture and fixtures, and amortization of leasehold improvements	24,107	23,188	23,538	21,989	22,599
Add: Amortization of intangible assets	8,875	9,642	9,584	9,674	9,674
EBITDA	\$166,611	\$108,625	\$126,605	\$219,699	\$159,761
Less: Canadian Emergency Wage Subsidy	40,444	—	—	—	—
Add: Share-based compensation cost	21,535	18,964	16,920	17,259	17,977
Add: Significant asset impairments and restructuring costs	8,209	5,867	7,854	6,515	3,811
Add: Acquisition and integration costs (recoveries)	294	307	3,127	(2,329)	1,414
Adjusted EBITDA	\$156,205	\$133,763	\$154,506	\$241,144	\$182,963



Thank You