

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

(Mark One)

☒ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2022

or

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number 001-34501

JUNIPER NETWORKS, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

77-0422528

(I.R.S. Employer Identification No.)

1133 Innovation Way

Sunnyvale, California

(Address of principal executive offices)

94089

(Zip code)

(408) 745-2000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol	Name of each exchange on which registered
Common Stock, par value \$0.00001 per share	JNPR	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☒ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filings requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. ☒

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements. ☐

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b). ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ☐ No ☒

The aggregate market value of voting common stock held by non-affiliates of the registrant was approximately \$9,011,000,000 as of June 30, 2022, the last business day of the registrant's most recently completed second fiscal quarter (based on the closing sales price for the common stock on the New York Stock Exchange on such date).

As of February 8, 2023, there were 323,959,789 shares of the registrant's common stock outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

As noted herein, the information called for by Part III is incorporated by reference to specified portions of the registrant's definitive proxy statement to be filed in conjunction with the registrant's 2023 Annual Meeting of Stockholders, which is expected to be filed not later than 120 days after the registrant's fiscal year ended December 31, 2022.

Juniper Networks, Inc.
Form 10-K

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Forward-Looking Statements

This Annual Report on Form 10-K, which we refer to as the Report, including “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 regarding future events and the future results of Juniper Networks, Inc., which we refer to as “Juniper Networks,” “Juniper,” “we,” “us,” or the “Company,” that are based on our current expectations, estimates, forecasts, and projections about our business, our results of operations, the industry in which we operate, our economic and market outlook, and the beliefs and assumptions of our management. All statements other than statement of historical facts are statements that could be deemed to be forward-looking statements. Words such as “expects,” “anticipates,” “targets,” “goals,” “projects,” “will,” “would,” “could,” “intends,” “plans,” “believes,” “seeks,” “estimates,” variations of such words, and similar expressions are intended to identify such forward-looking statements. Forward-looking statements by their nature address matters that are, to different degrees, uncertain, and these forward-looking statements are only predictions and are subject to risks, uncertainties, and assumptions that are difficult to predict, including the duration, extent, and continuing impact of the COVID-19 pandemic and component shortages, including the ongoing global semiconductor shortage, and our ability to successfully manage the demand, supply, and operational challenges associated with the ongoing COVID-19 pandemic and component shortages, including the global semiconductor shortage, general economic and political conditions globally or regionally. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. Factors that might cause or contribute to such differences include, but are not limited to, those discussed in this Report under the section entitled “Risk Factors” in Item 1A of Part I and elsewhere, and in other reports we file with the U.S. Securities and Exchange Commission, or the SEC. In addition, many of the foregoing risks and uncertainties are, and could be, exacerbated by any worsening of the global business and economic environment. While forward-looking statements are based on reasonable expectations of our management at the time that they are made, you should not rely on them. We undertake no obligation to revise or update publicly any forward-looking statements for any reason, except as required by applicable law.

PART I

ITEM 1. Business

Overview

Juniper Networks designs, develops, and sells products and services for high-performance networks to enable customers to build scalable, reliable, secure, and cost-effective networks for their businesses, while achieving agility and improved operating efficiency through automation. Our high-performance network and service offerings include routing, switching, Wi-Fi, network security, artificial intelligence ("AI") or AI-enabled enterprise networking operations ("AIOps"), and software-defined networking ("SDN") technologies. In addition to our products, we offer our customers a variety of services, including maintenance and support, professional services, Software-as-a-Service ("SaaS"), and education and training programs. We sell our solutions in more than 150 countries in three geographic regions: Americas; Europe, Middle East, and Africa, which we refer to as EMEA; and Asia Pacific, which we refer to as APAC.

Our products and services address high-performance network requirements for our customers within our verticals: Cloud, Service Provider, and Enterprise who view the network as critical to their success. We believe our silicon, systems, and software represent innovations that transform the economics and experience of networking, helping our customers achieve superior performance, greater choice, and flexibility, while reducing overall total cost of ownership.

Further, we have been expanding our software business by introducing new software solutions to our product and service portfolios that simplify the operation of networks, and allow our customers across our key verticals flexibility in consumption and deployment. Our acquisition of Mist Systems, Inc. ("Mist") in 2019 accelerated our ability to execute this belief in cloud-managed AI or AIOps through a combination of cloud-based intelligence, enterprise-grade access points, and EX series switches. Machine learning technology simplifies wireless and wired operations and delivers a more agile cloud services platform. In 2020, we acquired 128 Technology, Inc. ("128 Technology") and Netrounds AB ("Netrounds"). Our Session Smart Router ("SSR") portfolio acquired from 128 Technology extended the value of Mist's secure AI engine and cloud management capabilities from client to cloud. Our acquisition of Netrounds enables service and cloud providers to rapidly deliver software-defined network services with end-to-end service quality. In 2021, we acquired Apstra, Inc. ("Apstra"), an intent-based networking solution that leverages closed-loop automation and assurance along with multivendor support, to provide a complete fabric management solution, and acquired WiteSand, a provider of cloud-native zero trust Network Access Control ("NAC") solutions, to accelerate our ongoing efforts to deliver next-generation NAC solutions. Also, we announced an IP licensing arrangement with Netsia, Inc. ("Netsia"), giving us exclusive rights to their RAN Intelligent Controller ("RIC") source

code and patents, and expanded our existing team of Open RAN ("O-RAN") and 5G with key subject matter experts from Netsia.

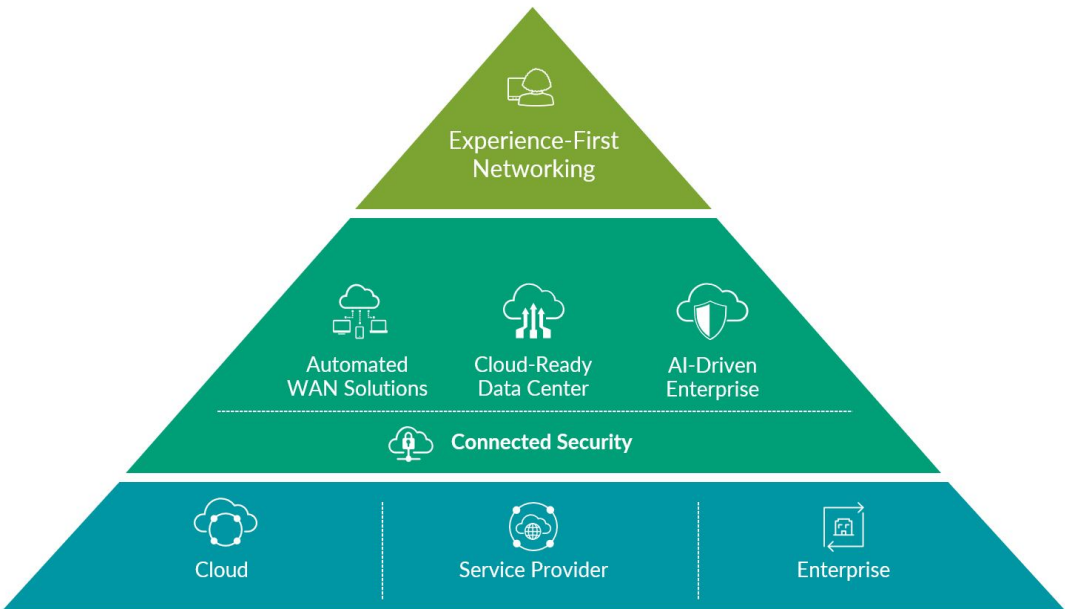
Our corporate headquarters are located in Sunnyvale, California. Our website address is www.juniper.net.

Strategy

We deliver highly scalable, reliable, secure, and cost-effective networks, while transforming the network's agility, efficiency, and value through automation. Our research and development efforts are focused on the following strategic priorities:

- Seize the cloud transition to gain share across our three customer verticals: Cloud, Service Provider, and Enterprise
- Differentiate with innovation in networking, security, and software orchestration
- Leverage automation and AI to deliver simplicity of operations for our customers

We believe the networking needs for our customers in our Cloud, Service Provider, and Enterprise verticals are converging as these customers recognize the need for high-performance networks and are adopting cloud architectures for their infrastructure and service delivery, such as large public and private data centers and service provider edge data centers, for improved agility and greater levels of operating efficiency. We believe this industry trend presents an opportunity for us, and we have focused our strategy on maximizing user and IT experiences with secure client-to-cloud automation, insight, and AI-driven actions that we call Experience-First Networking. We have focused our strategy on providing customer solutions for the following use cases and verticals.



Cloud-Ready Data Center

We are focused on continuing to power public and private cloud data centers with high-performance infrastructure. These data centers are the core of cloud transformation by enabling service delivery in a hybrid cloud environment, which is a combination of public cloud, private cloud, and SaaS delivery. We are a recognized leader in data center networking innovation in both software and hardware solutions. Our Junos Operating System, or Junos OS, application-specific integrated circuits, or ASIC, technology, and management and automation software investments across routing, switching, and network security technologies will continue to be key elements to maintaining our technology leadership and transforming the economics and experience of our public and private cloud customers. Additionally, we continue to add new capabilities and licensing models to our Apstra solution, which enables our customers to minimize the time and costs associated with deploying and managing complex data center networks.

Our Service Provider customers are investing in the build-out of high-performance networks and distributed cloud environments to enable high-speed and low-latency applications. We are committed to supporting them to rearchitect their infrastructure to enable next-generation mobile network build-outs, or 5G, Internet of Things, or IoT, and service delivery close to their end users.

Automated Wide Area Networking Solutions

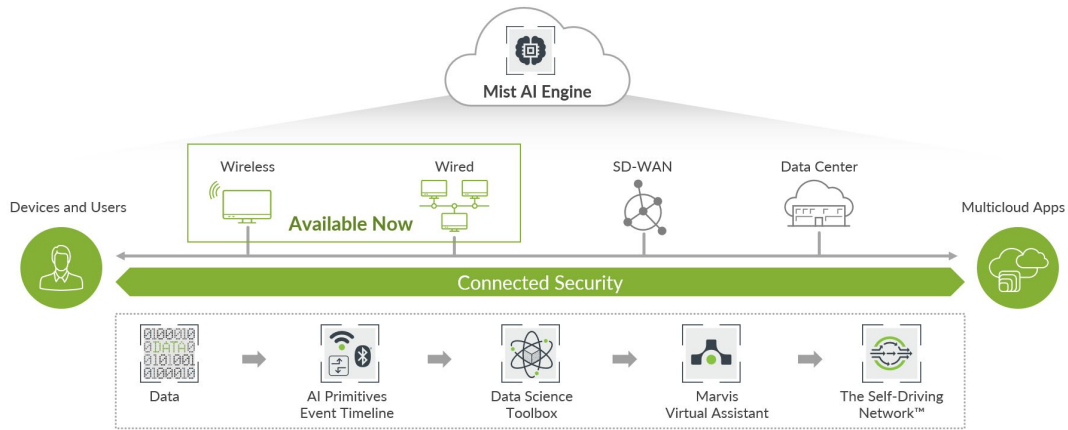
In developing our solutions, we strive to design and build best-in-class products and solutions for core, edge, and metro networking infrastructure to securely connect users and devices to the cloud and each other. Cloud providers, service providers and enterprises have deployed our product offerings in their wide area networks, or WAN, such as our highly efficient Internet Protocol, or IP, transport PTX product, which can cost-effectively manage incredible capacity from their end users to the data centers from which they deliver value to those users. We also offer a robust portfolio of SDN-enabled MX series routing platforms that provide system capacity, density, security, and performance with investment protection. MX series routers play at the heart of the digital transformation service providers, cloud providers, and Enterprises are undergoing. Our SDN Controller for the WAN, Paragon Pathfinder (formerly NorthStar), enables granular visibility and control of IP/Multiprotocol Label Switching, or IP/MPLS, flows for large networks. Our acquisition of Netrounds enhanced our automated WAN solutions with innovative testing and service assurance capabilities for fixed and mobile networks. Paragon Active Assurance (formerly Netrounds) strengthened and complemented our existing capabilities, such as Paragon Insights (formerly Healthbot), Paragon Pathfinder, and Paragon Planner. Leveraging the Netrounds acquisition, we developed the Juniper Paragon Automation, a modular portfolio of cloud-native software applications that deliver closed-loop automation in the most demanding 5G and multicloud environments. In 2022, we announced our Cloud Metro vision, strategy, and portfolio, which is a new category of solutions for service providers optimized for metro transformation and sustainable business growth. Juniper's Cloud Metro solution includes high-performance networking systems, powered by AI-enabled, cloud-delivered automation specifically designed to build next generation infrastructure.

We are committed to continued investment in cost-effective and high-performance IP transport platforms and automation software, which form the basis of these high-performance networks.

AI-Driven Enterprise

Enterprises are consuming more value-as-a-service, where value is delivered in the form of cloud-based software and services driven by AI. We have introduced cloud management and security products, enabling enterprises to securely consume cloud infrastructure and services. We believe the transition to AIOps and SaaS presents an opportunity for us to come to market with innovative network and security solutions for our Enterprise customers, which facilitate their transition to cloud architecture and operational experience. Our Mist AI uses a combination of artificial intelligence, machine learning, and data science techniques to optimize user experiences and simplify operations across the wireless access, wired access, and SD-WAN domains. Machine learning technology simplifies wireless and wired operations and delivers a more agile cloud services platform. Also, our SSR portfolio acquired from 128 Technology extended the value of Mist's secure AI-engine and cloud management capabilities from client to cloud. Session Smart is the third generation of Software Defined-Wide Area Network ("SD-WAN"), which delivers unique technology that materially reduces WAN overhead, minimizes network latency, and replaces outdated and cumbersome network policies with flexible and real-time actions that are tied to real business and user needs. Gartner recognized Juniper as a Visionary in the 2022 Magic Quadrant™ SD-WAN category and a leader in the 2022 Magic Quadrant™ for Indoor Location Services, Global. Also, Juniper was recognized as a Gartner Magic Quadrant™ Leader for Enterprise Wired and Wireless LAN Infrastructure in 2022, for the third year in a row.

We believe our understanding of high-performance networking technology, cloud architecture, and our strategy, positions us to capitalize on the industry transition to more automated, cost-efficient, scalable networks.



Customer Verticals

We sell our high-performance network products and service offerings through direct sales; distributors; value-added resellers, or VARs; and original equipment manufacturers, or OEMs, to end-users in the following verticals: Cloud, Service Provider, and Enterprise.

Further, we believe our solutions benefit our customers by:

- Reducing capital and operational costs by running multiple services over the same network using our secure, high-density, highly automated, and highly reliable platforms;
- Creating new or additional revenue opportunities by enabling new services to be offered to new market segments, which includes existing customers and new customers, based on our product capabilities;
- Increasing customer satisfaction, while lowering costs, by optimizing the experience of network operators and their users via automation, AI-enabled troubleshooting and support, and cloud management;
- Providing increased asset longevity and higher return on investment as our customers' networks can scale to higher throughput based on the capabilities of our platforms;
- Offering network security across every environment—from the data center to campus and branch environments to assist in the protection and recovery of services and applications; and
- Offering operational improvements that enable cost reductions, including lower administrative, training, customer care, and labor costs.

The following is an overview of the trends affecting the market in which we operate by each of our customer verticals. We believe the networking needs for each of our customers will eventually result in cloud-based network architectures for improved agility and greater levels of operating efficiency.

Cloud

Our Cloud vertical includes companies that are heavily reliant on the cloud for their business model's success. Customers in the Cloud vertical can include cloud service providers, such as the largest public cloud providers, which we refer to as hyperscalers, and Tier-2 cloud providers, which we refer to as cloud majors, as well as enterprises that provide SaaS, infrastructure-as-a-service, or platform-as-a-service.

Cloud providers continue to grow as more organizations take advantage of public infrastructure to run their businesses. As their businesses grow, we expect they will continue to invest in their networks, which dictate the quality and experience of the products and the services they deliver to their end customers. Further, as cloud providers adopt new technologies, including the 400-gigabit Ethernet, or 400GbE, and in anticipation of the future adoption of 800-gigabit Ethernet, or 800GbE, and beyond,

we believe this should present further opportunities for us across our portfolio as our cloud customers value high-performance, highly compact, power-efficient infrastructures, which we support and continue to develop.

In addition, SaaS continues to be an important factor for cloud providers as their customers, such as enterprises, prefer to procure and consume product and service offerings via SaaS models. As a result, we believe that SaaS providers will invest in high-performance infrastructure because the quality of experience has proven just as important competitively as software features and functions. Lastly, as a result of regulations and the need for lower latency and high-performance networking, cloud providers have been transitioning to regional network build-outs or distributed cloud environments to address the increasing demand for services, data privacy, data protection, and consumer rights.

As Cloud customers are pushing the envelope in networking, our focus on collaboration combined with networking innovation around automation has made us a strategic partner with these customers, helping them develop high-performance and lower total cost of ownership networking solutions to support their business.

Service Provider

Our Service Provider vertical includes wireline and wireless carriers and cable operators, and we support most of the major carrier and operator networks in the world with our high-performance network infrastructure offerings. In recent years, we have seen increased convergence of these different types of customers through acquisitions, mergers, and partnerships.

Service Provider customers recognize the need for high-performance networks and leveraging the cloud to reduce costs from their network operations. This is dictating a change in business models and their underlying infrastructure, which we believe requires investment in the build-out of high-performance networks and the transformation of existing legacy infrastructure to distributed cloud environments in order to satisfy the growth in mobile traffic and video as a result of the increase in mobile device usage including smartphones, tablets, and connected devices of various kinds.

We expect that Network Function Virtualization and SDN will be critical elements to enable our Service Provider customers the flexibility to support enhanced mobile video and dynamic new service deployments. We are engaging with these customers to transition their operations to next-generation cloud operations as the need for a highly efficient infrastructure to handle large amounts of data along with low latency, or minimal delay, plays into the need to have a high performance, scalable infrastructure in combination with the automation and flexibility required to drive down operational costs and rapid provision applications. We consistently deliver leading technologies that transform the economics and experience of networking while significantly improving customer economics by lowering the capital expenditures required to build networks and the operating expenses required to manage and maintain them.

In addition to reducing operating costs, service providers are seeking to create new or additional revenue opportunities to support their evolving business models. These customers are deploying 5G, which we expect will continue to roll out over the next few years, and IoT, which we believe will give rise to new services like connected cars, smart cities, robotic manufacturing, and agricultural transformation. 5G and IoT require a highly distributed cloud data center architecture from which services are delivered to the end users and will involve a great degree of analytics and embedded security. We expect this trend will present further opportunities for Juniper with our focus on delivering a strong portfolio of network virtualization and software-based orchestration solutions, which position us to deliver on the automation and agility requirements of service providers.

Enterprise

Our high-performance network infrastructure offerings are designed to meet the performance, reliability, and security requirements of the world's most demanding enterprises. We offer enterprise solutions and services for data centers as well as branch and campus applications. Our Enterprise vertical includes enterprises not included in the Cloud vertical. They are industries with high performance, high agility requirements, including retail companies, healthcare institutions, financial services; national, federal, state, and local governments; as well as research and educational institutions. We believe that our Enterprise customers are able to deploy our solutions as a powerful component in delivering the advanced network capabilities needed for their leading-edge applications.

Businesses are adopting cloud-based applications and services to avoid infrastructure cost and complexity, increase IT agility, and accelerate digital transformation. We believe that as our Enterprise customers continue to transition their workloads to the cloud, they continue to seek greater flexibility in how they consume networking and security services, such as pay-per-use models. Additionally, Enterprises are deploying AI-driven architectures, which require end-to-end solutions for managing.

orchestrating, and securing distributed cloud resources as a single pool of resources. Also, we are increasingly seeing a convergence of networking and security, such as Secure Access Service Edge ("SASE"), resulting in security becoming an embedded capability in every solution that we offer to our customers.

High-performance enterprises require IP networks that are global, distributed, and always available. We are innovating in key technology areas to meet the needs of our Enterprise customers whether they plan to move to a public cloud architecture or hybrid cloud architecture (which is a mix of public and private cloud, as well as a growing number of SaaS applications).

No single customer accounted for 10% or more of our net revenues for the years ended December 31, 2022, 2021, and 2020.

Products, Services, and Technology

Early in our history, we developed, marketed, and sold the first commercially available purpose-built IP backbone router optimized for the specific high-performance requirements of telecom and cable operators. As the need for core bandwidth continued to increase, the need for service-rich platforms at the edge of the network was created.

We have systematically focused on how we innovate in silicon, systems, and software (including our Junos OS and virtual network functions, or VNF) such as firewall, network orchestration, and automation to provide a range of hardware and software solutions in high-performance, secure networking.

Further, our intent is to expand our software business by introducing new software solutions to our product and services portfolios that simplify the operation of networks, and provide flexibility in consumption and deployment to our customers across our key verticals. Our software offerings include subscriptions, SaaS, and term or time-based perpetual licenses. We believe our software and related services revenues as a percentage of total revenues will increase over time as we introduce new software solutions designed to better monetize the value of software functionality in our offerings.

Significant Product Development Projects and Solutions

In 2022, we continued to execute on our product and service solution strategy and announced several new innovations, including new AI-driven switches and enhanced AIOps capabilities for simpler wired and wireless deployments and optimized client-to-cloud user experiences. In addition, we announced two new 6 GHz access points that leverage Mist AI to maximize Wi-Fi performance and capacity and a new IoT Assurance service that streamlines and scales the onboarding and securing of IoT devices without NAC.

We also announced our Cloud Metro vision, strategy, and portfolio, which is a new category of solutions for service providers optimized for metro transformation and sustainable business growth. Juniper's Cloud Metro solution includes high-performance networking systems, powered by AI-enabled, cloud-delivered automation specifically designed to build next generation infrastructure. New solutions include Paragon Automation as a Service, AI-Enabled Device Onboarding-as-a-Service, ACX7000 Family, Juniper Paragon Active Assurance, Zero Trust Security, and Juniper Networks 400G ZR/ZR+ optics.

Further, we announced our continuing investment in the SASE market with the introduction of Juniper Secure Edge, a cloud-delivered Security Service Edge ("SSE") service that enables users to work from anywhere securely and performantly. Juniper Secure Edge gives customers the ability to deliver a unified and consistent user experience for their mobile or remote workforce as they transition from on premises locations to remote locations. We also announced the expansion of our SASE offering with the addition of Cloud Access Security Broker ("CASB") and advanced Data Loss Prevention ("DLP") capabilities to the Juniper Secure Edge solution. When combined with Juniper's unique SD-WAN solution driven by Mist AI, Juniper is one of the first in the market to offer a full-stack SASE solution with visibility into both the edge and the data center.

Moreover, we announced a collaboration with Rakuten Symphony where Juniper RIC will be embedded as the exclusive RIC in Rakuten Symworld™ marketplace. Juniper's open and interoperable RIC platform brings new levels of service agility, automation, and operational efficiency to mobile networks by enabling a strong ecosystem of applications on top of the platform.

The following is an overview of our principal product families and service offerings in 2022:

Routing Products

- *ACX Series:* Our ACX Series Universal Access Routers cost-effectively address current operator challenges to rapidly deploy new high-bandwidth services. We believe that the ACX Series is well positioned to address the

growing metro Ethernet and mobile backhaul needs of our customers, as we expect 5G mobile network build-outs to continue to roll out over the next few years. The platforms deliver the necessary scale and performance needed to support multi-generation wireless technologies.

- *MX Series*: Our MX Series is a family of high-performance, SDN-ready, Ethernet routers that function as a Universal Edge platform with high system capacity, density, and performance. The MX Series platforms utilize our custom silicon and provide carrier-class performance, scale, and reliability to support large-scale Ethernet deployments. We also offer the vMX, a virtual version of the MX router, which is a fully featured MX Series 3D Universal Edge Router optimized to run as software on x86 servers.
- *PTX Series*: Our PTX Series Packet Transport Routers deliver high throughput at a low cost per bit, optimized for the service provider core as well as the scale-out architectures of cloud providers. The PTX Series is built on our custom silicon and utilizes a forwarding architecture that is focused on optimizing IP/MPLS, and Ethernet. This ensures high density and scalability, high availability, and network simplification.
- *Paragon Pathfinder*: Our wide-area network SDN controller automates the creation of traffic-engineering paths across the network, increasing network utilization, and enabling a customized programmable networking experience.
- *Session Smart Routers*: Our SSR enables agile, secure, and resilient WAN connectivity with breakthrough economics and simplicity. SSR routers transcend inherent inefficiencies and cost constraints of conventional networking products and legacy SD-WAN solutions, delivering a flexible, application-aware network fabric that meets stringent enterprise performance, security, and availability requirements.

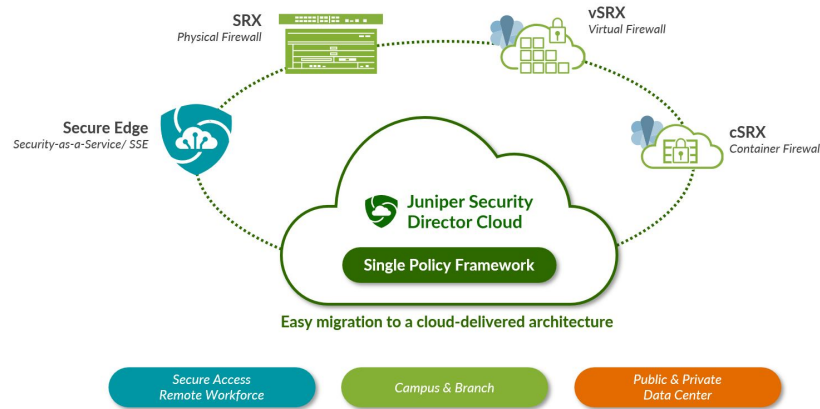
Switching Products

- *EX Series*: Our EX Series Ethernet switches address the access, aggregation, and core layer switching requirements of micro branch, branch office, and campus environments, providing a foundation for the fast, secure, and reliable delivery of applications able to support strategic business processes.
- *QFX Series*: Our QFX Series of core, spine, and top-of-rack data center switches offer a revolutionary approach to switching that is designed to deliver dramatic improvements in data center performance, operating costs, and business agility for enterprises, high-performance computing networks, and cloud providers.
- *Juniper Access Points*: Our access points provide Wi-Fi access and performance, which is automatically optimized through reinforcement learning algorithms. Our access points also have a dynamic virtual Bluetooth low energy element antenna array for accurate and scalable location services.

Security Products

- *SRX Series Services Gateways for the Data Center and Network Backbone*: Our mid-range, high-end and virtual SRX Series platforms provide high-performance, scalability, and service integration, which are ideally suited for medium to large enterprise, data centers and large campus environments, where scalability, high performance, and concurrent services, are essential. Our high-end SRX5800 platform is suited for service provider, large enterprise, and public sector networks. The upgrade to our high-end SRX firewall offering with our Services Process Card 3, or SPC3, with our Advanced Security Acceleration line card enhances the SRX5800 to deliver power for demanding use cases, including high-end data centers, IoT, and 5G.
- *Branch SRX, Security Policy, and Management*: The Branch SRX family provides an integrated firewall and next-generation firewall, or NGFW, capabilities. Security Director is a network security management product that offers efficient, highly scalable, and comprehensive network security policy management. These solutions are designed to enable organizations to securely, reliably, and economically deliver powerful new services and applications to all locations and users with superior service quality.
- *Virtual Firewall*: Our vSRX Firewall delivers all of the features of our physical firewalls, including NGFW functionality, advanced security, and automated lifecycle management capabilities. The vSRX provides scalable, secure protection across private, public, and hybrid clouds. We also offer the cSRX, which has been designed and optimized for container and cloud environments.

- **Advanced Malware Protection:** Our Advanced Threat Prevention ("ATP") portfolio consists of Sky ATP, a cloud-based service and Juniper ATP, or JATP, a premises-based solution. These products are designed to use both static and dynamic analysis with machine learning to find unknown threat signatures (zero-day attacks).
- **Juniper Security Director Cloud:** Juniper Security Director Cloud is a cloud-based SaaS portal that bridges existing security deployments with future SASE deployments. It enables managing on-premises, cloud-based security and cloud-delivered security – all within one user interface.
- **Juniper Secure Edge:** Juniper Secure Edge delivers a suite of SSE services, including Firewall as a Service, Secure Web Gateway, CASB, DLP, and ATP. It empowers organizations to secure their workforce wherever they are – on-premises or at a remote location. Users have fast, reliable, and secure access to the applications and resources they need, ensuring great user experiences. Juniper Secure Edge is managed by Security Director Cloud, and it enables IT security teams to gain seamless visibility across the entire network from the client to the workload. Customers leverage their existing investments and transition to the cloud at a pace that is best for their business.



Services

In addition to our products, we offer maintenance and support, professional, SaaS, and educational services, making it easier for service providers, enterprises, cloud providers, and partners to optimize the operation of their networks. We utilize a multi-tiered support model to deliver services that leverage the capabilities of our own direct resources, channel partners, and other third-party organizations with a focus on personalized, proactive, and predictive experience. This experience is further enhanced with the capabilities from our recently launched Juniper Support Insights ("JSI"), a platform to cloud connect all Juniper devices and enable AI applications to provide our enhanced support services.

As of December 31, 2022, we employed 2,017 people in our worldwide customer service and support organization. We believe that a broad range of services is essential to the successful customer deployment and ongoing support of our products, and we employ remote technical support engineers, on-site resident engineers, spare parts planning and logistics staff, professional services consultants, and educators with proven network experience to provide those services.

We also extensively utilize our channel partners in the delivery of support, professional, and educational services to ensure these services can be locally delivered in an optimized way around the world.

Platform Software

In addition to our major product families and services, our software portfolio has been a key technology element in our goal to be a leader in high-performance networking.

Our Junos Platform enables our customers to expand network software into the application space, deploy software clients to control delivery, and accelerate the pace of innovation with an ecosystem of developers. At the heart of the Junos Platform is Junos Evolved. We believe Junos Evolved is fundamentally differentiated from other network operating systems not only in its design, but also in its development capabilities. The advantages of Junos Evolved include the following:

- A modular operating system with common base of code and a single, consistent implementation for each control plane feature;
- A highly disciplined and firmly scheduled development process;
- A common modular software architecture that scales across all Junos-based platforms;
- A central database, which is used by not only Junos native applications, but also external applications using application programming interfaces, or APIs; and
- A fully distributed general-purpose software infrastructure that leverages all the compute resources on the network element.

Junos Evolved is designed to improve the availability, performance, and security of business applications running across the network. Junos Evolved helps to automate network operations by providing a single consistent implementation of features across the network in a single release train that seeks to minimize the complexity, cost, and risk associated with implementing network features and upgrades.

Orchestration and Monitoring Software

As many of our customers continue moving to programmable and automated network operations, managing, orchestrating, and securing that complex journey can be a challenge. Network automation is the process of automating the configuration, management, testing, deployment, and operations of physical and virtual devices within a network. We believe the keys to achieving success with network and security automation include the following:

- Architecting networking systems with strong APIs, analytics, and autonomous control; and
- Automating operations to become more reliable in the context of IT systems, teams, processes, and network operation and security operation workflows.

We are committed to providing solutions to help our customers to optimize their programmable and automated networking operations with the following offerings:

- *Contrail Networking*: Our Contrail Networking offers an open-source, standards-based platform for SDN. This platform enables our customers to securely deploy workloads in any environment. It offers continuous overlay connectivity to any workload, and can run on any compute technologies from traditional bare-metal servers, and virtual machines, to containers.
- *Wired, Wireless, and WAN Assurance driven by Mist AI*: We provide visibility all the way down to the individual client, application and session to optimize individual user experiences from client to cloud. With customizable service levels that span the LAN, WLAN, and WAN, our solutions enable our customers to set and measure key metrics and proactively assure optimal user experiences on an ongoing basis. In addition, automated workflows are combined with event correlation, predictive analytics, and proactive self-driving operations to simplify IT operations and minimize end-to-end network troubleshooting costs.
- *Marvis Virtual Network Assistant driven by Mist AI*: Our Marvis Virtual Network Assistant identifies the root cause of issues across the information technology, or IT, domains and automatically resolves many issues proactively. It recommends actions for those connected systems outside the Mist domain, while offering a real-time network health dashboard that reports issues from configuration to troubleshooting. Marvis has unique Natural Language Processing capabilities with a conversational interface so IT staff can get accurate answers to normal English language queries.
- *Juniper Paragon Automation*: Juniper Paragon Automation is a modular portfolio of cloud-native software applications that deliver closed-loop automation in the most demanding 5G and multicloud environments. These solutions translate business intent into real-world performance across the lifecycle of a network and services. They eliminate manual tasks and processes, empowering operations teams to work more quickly, efficiently, and accurately. Also, they protect customers and business by measuring real service quality on the data plane, assuring that users have a consistent, high-quality experience throughout the life of their service.

- *Juniper Apstra*: Juniper Apstra enables our customers to automate the entire network lifecycle in a single system, easing the adoption of network automation. Juniper Apstra ties the architect's design to everyday operations with a single source of truth, continuous validation, and powerful analytics and root cause identification. It raises efficiency and results by providing visibility and insights, incident management, change management, compliance and audit, and maintenance and updates.

Research and Development

We have assembled a team of skilled engineers with extensive experience in the fields of high-end computing, network system design, ASIC design, security, routing protocols, software applications and platforms, and embedded operating systems. As of December 31, 2022, we employed 4,279 people in our worldwide research and development, or R&D, organization.

We believe that strong product development capabilities are essential to our strategy of enhancing our core technology, developing additional applications, integrating that technology, and maintaining the competitiveness and innovation of our product and service offerings. In our products, we are leveraging our software, ASIC and systems technology, developing additional network interfaces targeted to our customers' applications, and continuing to develop technology to support the build-out of secure high-performance networks and cloud environments. We continue to expand the functionality of our products to improve performance, reliability and scalability, and provide an enhanced user interface.

Our R&D process is driven by our corporate strategy and the availability of new technology, market demand, and customer feedback. We have invested significant time and resources in creating a structured process for all product development projects. Following an assessment of market demand, our R&D team develops a full set of comprehensive functional product specifications based on inputs from the product management and sales organizations. This process is designed to provide a framework for defining and addressing the steps, tasks, and activities required to bring product concepts and development projects to market.

Sales and Marketing

As of December 31, 2022, we employed 3,332 people in our worldwide sales and marketing organization. These sales and marketing employees operate in different locations around the world in support of our customers.

Our sales organization, with its structure of sales professionals, business development teams, systems engineers, marketing teams, channel teams, and an operational infrastructure team, is based on both vertical markets and geographic regions.

Our sales teams operate in their respective regions and generally either engage customers directly or manage customer opportunities through our distribution and reseller relationships as described below.

We sell to a number of cloud and service provider customers directly. Otherwise, we sell to all of our key customer verticals primarily through distributors and resellers.

Direct Sales Structure

The terms and conditions of direct sales arrangements are governed either by customer purchase orders along with acknowledgment of our standard order terms, or by direct master purchase agreements. The direct master purchase agreements with these customers set forth only general terms of sale and generally do not require customers to purchase specified quantities of our products. We directly receive and process customer purchase orders.

Channel Sales Structure

A critical part of our sales and marketing efforts are our channel partners through which we conduct the majority of our sales. We utilize various channel partners, including, but not limited to the following:

- A global network of strategic distributor relationships, as well as region-specific or country-specific distributors who in turn sell to local VARs who sell to end-user customers. Our distribution channel partners resell routing, switching, and security products, software and services, which are purchased by all of our key customer verticals. These distributors tend to focus on particular regions or countries. For example, we have substantial distribution relationships with Ingram Micro in the Americas and Hitachi in Japan. Our agreements with these distributors are

generally non-exclusive, limited by region, and provide product and service discounts and other ordinary terms of sale. These agreements do not require our distributors to purchase specified quantities of our products or services. Further, most of our distributors sell our competitors' products and services, and some sell their own competing products and services.

- VARs and direct value-added resellers, including our strategic worldwide alliance partners referenced below, resell our products to end-users around the world. These channel partners either buy our products and services through distributors, or directly from us, and have expertise in designing, selling, implementing, and supporting complex networking solutions in their respective markets. Our agreements with these channel partners are generally non-exclusive, limited by region, and provide product and service discounts and other ordinary terms of sale. These agreements do not require these channel partners to purchase specified quantities of our products or services. Increasingly, our cloud and service provider customers also resell our products or services to their customers or purchase our products or services for the purpose of providing managed or cloud-based services to their customers.
- Strategic worldwide reseller relationships with established Juniper alliances, comprised of Nippon Telegraph and Telephone Corporation; Ericsson Telecom A.B.; International Business Machines, or IBM; NEC Corporation; Fujitsu Limited; and Atos SE. These companies each offer services and products that complement our own product and service offerings and act as a reseller, and in some instances as an integration partner for our products. Our arrangements with these partners allow them to resell our products and services on a non-exclusive and generally global basis, provide for product and service discounts, and specify other general terms of sale. These agreements do not require these partners to purchase specified quantities of our products or services.

Manufacturing and Operations

As of December 31, 2022, we employed 372 people in supply chain operations who manage our relationships with our contract manufacturers, original design manufacturers, component suppliers, warehousing and logistics service providers.

Our manufacturing is primarily conducted through contract manufacturers and original design manufacturers in China, Malaysia, Mexico, and Taiwan. As of December 31, 2022, we utilized Celestica Incorporated, Flex Ltd., Accton Technology Corporation, Foxconn Technology Group and Alpha Networks Inc. for the majority of our manufacturing activity. Our contract manufacturers and original design manufacturers are responsible for all phases of manufacturing from prototypes to full production, including activities such as material procurement, surface mount assembly, final assembly, test, control, shipment to our customers, and repairs. Together with our contract manufacturers and original design manufacturers, we design, specify, and monitor the tests that are required to ensure that our products meet internal and external quality standards. We believe that these arrangements provide us with the following benefits:

- We can quickly ramp up and deliver products to customers with turnkey manufacturing;
- We operate with a minimum amount of dedicated space and employees for manufacturing operations; and
- We can reduce our costs by reducing what would normally be fixed overhead expenses.

Our contract manufacturers and original design manufacturers build our products based on our rolling product demand forecasts. Our contract manufacturing partners procure the majority of the components used in our products. Once the components necessary to assemble the products in our forecast are procured, our manufacturing partners assemble and test the products according to agreed-upon specifications. Products are then shipped to our distributors, resellers, or end-customers. To address supply-chain challenges, including increases in component and logistics costs related to the COVID-19 pandemic and global component shortages, we are taking specific additional procurement actions, including strategic purchases of raw materials and components for the production of finished goods. As a result, we may incur additional holding costs and obsolescence charges, particularly resulting from uncertainties in future product demand. Title to the finished goods is generally transferred from the contract manufacturers to us when the products leave the contract manufacturer's or original design manufacturer's location. Customers take title to the products upon delivery at a specified destination. If the product or components remain unused or the products remain unsold for a specified period, we may incur carrying charges or charges for excess or obsolete materials.

Our contracts with our contract manufacturers and original design manufacturers set forth a framework within which the contract manufacturer and original design manufacturer, as applicable, may accept purchase orders from us. These contracts do not represent long-term commitments.

Some of our custom components, such as ASICs and communication integrated circuits, are manufactured primarily by sole or limited sources, each of which is responsible for all aspects of production using our proprietary designs. To ensure the security and integrity of Juniper products during manufacture, assembly and distribution, we have implemented a supply chain risk management framework as part of our overall Brand Integrity Management System. This framework encompasses all aspects of the supply chain as well as enhanced elements specific to security issues applicable to Juniper products and our customers.

By working collaboratively with our suppliers and as members of coalitions such as the Responsible Business Alliance ("RBA"), Responsible Minerals Initiative, and the CDP Supply Chain program, we endeavor to promote socially and environmentally responsible business practices beyond our company and throughout our worldwide supply chain. To this end, we have adopted a business partner code of conduct and promote compliance with such code of conduct to our suppliers. Our business partner code of conduct expresses support for and is aligned with the Ten Principles of the United Nations Global Compact and the RBA Code of Conduct. The RBA, a coalition of electronics, retail, auto and toy companies, provides guidelines and resources to drive performance and compliance with critical corporate social responsibility policies. Its goals are to promote ethical business practices, to ensure that working conditions in the electronic industry supply chain are safe, that workers are treated with respect and dignity, and that manufacturing processes are environmentally responsible. By using standard audit and assessment protocols and tools, we measure and monitor manufacturing partners' top direct material suppliers', and select indirect suppliers' compliance to the codes of conduct and applicable environmental, health and safety, labor and ethics legal requirements. This includes use of the RBA Code of Conduct risk assessments and onsite audits; CDP climate change and water requests; and conflict minerals surveys. Our Corporate Social Responsibility Report, which details our supply chain efforts, and Business Partner Code of Conduct are available on our website.

Backlog

Our sales are made primarily pursuant to purchase orders under master sales agreements either with our distributors, resellers, or end-customers. At any given time, we have a backlog of orders for products that have not shipped. Because certain orders are cancellable or delivery schedules may be changed, we believe that our backlog at any given date may not be a reliable indicator of future operating results. The COVID-19 pandemic resulted in unprecedented industry-wide supply constraints, and the pandemic continues to play a role with ongoing delays to the global logistics environment. As a result, we have experienced a shortage of component parts and logistics timing issues since 2021, which has resulted in significantly higher levels of our product backlog. We expect these challenging supply chain conditions to modestly improve through the course of 2023. We anticipate backlog to remain at elevated levels and to decline as supply improves.

As of December 31, 2022 and December 31, 2021, our total product backlog was approximately \$2,019 million and \$1,833 million, respectively. Our product backlog consists of confirmed orders for products expected to be shipped to our distributors, resellers, or end-customers within the subsequent twelve months for 2021 and 2022, which extended period primarily reflects the ongoing impact of supply chain constraints. Backlog excludes certain future revenue adjustments for items such as product revenue deferrals, sales return reserves, service revenue allocations, and early payment discounts.

For further discussion on the risks and uncertainties related to backlog, see the section entitled "Risk Factors" in Item 1A of Part I of this Report.

Seasonality

We, as do many companies in our industry, experience seasonal fluctuations in customer spending patterns. Historically, we have experienced stronger customer demand in the fourth quarter and weaker demand in the first quarter of the fiscal year. This historical pattern should not be considered a reliable indicator of our future net revenues or financial performance. The ongoing global component shortage and extended lead times and their impacts on our ability to ship products to our customers in a timely manner may disrupt our typical seasonal trends.

Competition

We compete in the network infrastructure markets. These markets are characterized by rapid change, converging technologies, and a migration to solutions that combine high performance networking with cloud technologies. In the network infrastructure business, Cisco Systems, Inc., or Cisco, has historically been the dominant player. Our principal competitors also include Arista Networks, Inc.; Dell Technologies; Hewlett Packard Enterprise Co., or HPE; Huawei Technologies Co., Ltd., or Huawei; Fortinet, Inc.; and Nokia Corporation, or Nokia.

Many of our current and potential competitors, such as Cisco, Nokia, HPE, and Huawei, among others, have broader portfolios which enable them to bundle their networking products with other networking and information technology products in a manner

that may discourage customers from purchasing our products. Many of our current and potential competitors have greater name recognition, marketing budgets, and more extensive customer bases that they may leverage to compete more effectively. Increased competition could result in price reductions, fewer customer orders, reduced gross margins, and loss of market share, negatively affecting our operating results.

In addition, there are a number of other competitors in the security network infrastructure space, including Cisco, Huawei, Nokia, Palo Alto Networks, Inc., Check Point Software Technologies, Ltd., Fortinet, Inc., Zscaler, Inc., Netskope, Inc., and Forcepoint LLC, among others, who tend to be focused specifically on security solutions and, therefore, may be considered specialized compared to our broader product line.

We expect that over time, large companies with significant resources, technical expertise, market experience, customer relationships, and broad product lines, such as Cisco, Nokia, and Huawei, will introduce new products designed to compete more effectively in the market. There are also several other companies that aim to build products with greater capabilities to compete with our products. Further, there has been significant consolidation in the networking industry, with smaller companies being acquired by larger, established suppliers of network infrastructure products. We believe this trend is likely to continue, which may increase the competitive pressure faced by us due to their increased size and breadth of their product portfolios.

In addition to established competitors, a number of public and private companies have announced plans for new products to address the same needs that our products address. We believe that our ability to compete depends upon our ability to demonstrate that our products are superior and cost effective in meeting the needs of our current and potential customers.

As a result, we expect to face increased competition in the future from larger companies with significantly more resources than we have and also from emerging companies that are developing new technologies. Although we believe that our technology and the purpose-built features of our products make them unique and will enable us to compete effectively with these companies, there can be no assurance that new products, enhancements, or business strategies will achieve widespread market acceptance.

Material Government Regulations

Our business activities are worldwide and subject us to various federal, state, local, and foreign laws in the countries in which we operate, and our products and services are subject to laws and regulations affecting the sale of our products. To date, costs and accruals incurred to comply with these governmental regulations have not been material to our capital expenditures, results of operations, and competitive position. Although there is no assurance that existing or future governmental laws and regulations applicable to our operations, products, or services will not have a material adverse effect on our capital expenditures, results of operations, and competitive position, we do not currently anticipate material expenditures for government regulations. Nonetheless, as discussed below, we believe that environmental and global trade regulations could potentially have a material impact on our business.

Environment

We are committed to maintaining compliance with all environmental laws applicable to our operations, products, and services and to reducing our environmental impact across our business and supply chain. Our operations and many of our products are subject to various federal, state, local, and foreign regulations that have been adopted with respect to the environment, such as the EU's Waste Electrical and Electronic Equipment Directive; Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment; Registration, Evaluation, Authorization, and Restriction of Chemicals; and the U.S.'s Toxic Substances Control Act.

Juniper's greatest impact on the environment is through our products and services. We focus on circular economy principles, including designing products with sustainability in mind to make them more efficient, reliable, and long-lasting. We also select manufacturers, suppliers, and business partners who share our values and commitment to environmental sustainability. Our products are built for flexibility, interoperability, and scalability, which we believe contribute to long-term customer value. The modular design of our products allows for efficient servicing such as dismantling and repairing. The Juniper Certified Pre-Owned Program allows our customers to extend the life of their existing Juniper network. Our product design also encourages customers to recycle various parts at the end of the product life-cycle. We also consider other opportunities to minimize resource impacts and improve efficiencies over a product's life cycle. For example, the Juniper Certified Pre-Owned program offers a broad range of refurbished high-performance network solutions from Juniper's current line and end-of-production hardware portfolios with available Juniper-backed warranty and support services. This program helps reduce e-waste in landfills and reduces carbon emissions.

We also voluntarily participate in the annual CDP climate change and water security disclosures and encourage our manufacturing partners and select direct material suppliers to do the same. Additionally, we are a signatory supporter of the United Nations Global Compact and a member of the RBA, and have adopted and promote the adoption by our suppliers of the RBA Code of Conduct, as discussed above in the section entitled *Manufacturing and Operations*. We continue to invest in the infrastructure and systems required to execute on, monitor, and drive environmental improvements in our global operations and within our supply chain.

Global Trade

As a global company, the import and export of our products and services are subject to laws and regulations including international treaties, U.S. export controls and sanctions laws, customs regulations, and local trade rules around the world. The scope, nature, and severity of such controls varies widely across different countries and may change frequently over time. Such laws, rules, and regulations may delay the introduction of some of our products or impact our competitiveness through restricting our ability to do business in certain places or with certain entities and individuals, or by requiring us to comply with domestic preference programs, laws concerning transfer and disclosure of sensitive or controlled technology or source code, unique technical standards, localization mandates, and duplicative in-country testing and inspection requirements. In particular, the U.S. and other governments have imposed restrictions on the import and export of, among other things, certain telecommunications products and components, particularly those that contain or use encryption technology. Most of our products are telecommunications products and contain or use encryption technology and, consequently, are subject to restrictions. The consequences of any failure to comply with domestic and foreign trade regulations could limit our ability to conduct business globally. We continue to support open trade policies that recognize the importance of integrated cross-border supply chains that are expected to continue to contribute to the growth of the global economy and measures that standardize compliance for manufacturers to ensure that products comply with safety and security requirements.

For additional information concerning regulatory compliance and a discussion of the risks associated with governmental regulations that may materially impact us, see the section entitled “Risk Factors” in Item 1A of Part I of this Report.

Intellectual Property

Our success and ability to compete are substantially dependent upon our internally developed technology and expertise, as well as our ability to obtain and protect necessary intellectual property rights. While we rely on patent, copyright, trade secret, and trademark law, as well as confidentiality agreements, to protect our technology, we also believe that factors such as the technological and creative skills of our personnel, new product developments, frequent product enhancements, and reliable product maintenance are essential to establishing and maintaining a technology leadership position. There can be no assurance that others will not develop technologies that are similar or superior to our technology.

Patents

As of December 31, 2022, we had over 5,300 patents worldwide and numerous patent applications are pending. Patents generally have a term of twenty years from filing. As our patent portfolio has been built over time, the remaining terms on the individual patents vary. We cannot be certain that patents will be issued on the patent applications that we have filed, that we will be able to obtain the necessary intellectual property rights, or that other parties will not contest our intellectual property rights.

Licenses

In addition, we integrate licensed third-party technology into certain of our products and, from time to time, we need to renegotiate these licenses or license additional technology from third parties to develop new products or product enhancements or to facilitate new business models. There can be no assurance that third-party licenses will be available or continue to be available to us on commercially reasonable terms or at all. Our inability to maintain or re-license any third-party licenses required in our products or our inability to obtain third-party licenses necessary to develop new products and product enhancements could require us to obtain substitute technology of lower quality or performance standards or at a greater cost, any of which could harm our business, financial condition, and results of operations.

Trademarks

JUNIPER NETWORKS, JUNIPER, the Juniper Networks logo, JUNOS, RUNNING JUNOS, and other trademarks are registered trademarks of Juniper Networks, Inc. and/or its affiliates in the United States and other countries. Other names may be trademarks of their respective owners.

Human Capital Resources

We believe our success in delivering high-performance networks in the digital transformation era relies on our culture, values, and the creativity and commitment of our people. As of December 31, 2022, we had 10,901 full-time employees, of whom approximately 44%, 43%, and 13% resided in the Americas, APAC, and EMEA, respectively. We invest in our people. We strive to maintain healthy, safe, and secure working conditions - a workplace where our employees are treated with respect and dignity. Our vision is to create an inclusive, diverse, and authentic community that inspires collaboration, integrity, engagement, and innovation. We are striving to create a world-class employee experience, one that offers opportunity for personal and professional growth, and enables work-life flexibility that aligns with the core values embodied in the Juniper Way.

Our Values : The Juniper Way

Our mission is to power connections and empower change – to be a responsible global citizen and influence meaningful differences in the world around us. We believe that powering connections will bring us closer together while empowering us all to solve some of the world's greatest challenges of health and well-being, sustainability, and equity.

To deliver our mission to power connections and empower change, we rely on a committed and consistent practice that we call the Juniper Way. More than a set of shared values, the Juniper Way reflects the company's commitment to inspire Juniper employees to do their best work. This foundation is embodied in three values – Be Bold, Build Trust, and Deliver Excellence - along with a set of refined behaviors for each.

Inclusion and Diversity

As a company, we are committed to innovation and diversity of employees with many backgrounds, experiences, and identities. We believe that inclusion and diversity are competitive assets that drive positive change to our company and communities. At our core, we believe excellence depends on seeking out diverse ideas and fostering a culture where all employees belong. We aim to lead with vision and empathy, promoting understanding and awareness across our workforce, and we are committed to improving inclusivity by being engaged and accountable at the highest level of leadership.

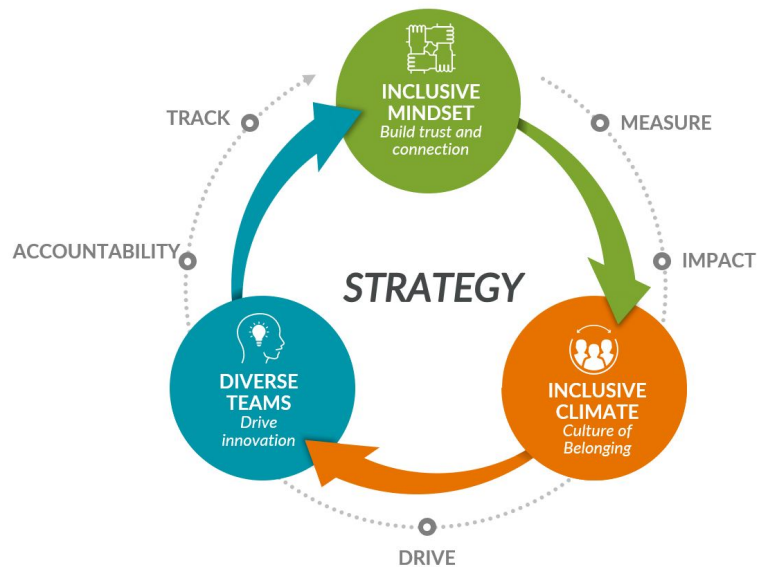
DIVERSITY, EQUITY AND INCLUSION INITIATIVES

Strengthening inclusive practices

- Employee experience
- Communications
- Learning and development
- Pay equity and total rewards
- Sponsorships and partnerships

Fostering diverse teams

- Inclusive hiring and advancement
- Employee engagement and retention
- Analytics and accountability



We monitor our progress against our inclusion and diversity strategy of diversifying our talent base, creating an environment where all employees feel included and valued, and driving accountability across the organization. In 2022, we continued to make progress in our inclusion and diversity efforts. Our global Women's Sponsorship and Leadership Development Programs, which aim to empower the next generation of women leaders, continued in 2022, providing our female employees with opportunities for development, visibility, and growth. We also continued our global Inclusion and Diversity Ambassadors program to extend the reach of our inclusion and diversity efforts throughout Juniper, add new perspectives to the corporate team, and uplift the voices of employees. Finally, we launched our first Affinity Groups, employee-led groups that emphasize

the connection among employees from similar backgrounds and their allies, and which provide professional development, sense of belonging, and career connections.

Employee Engagement and Development

We use a framework called Talent Matters to encourage an open and interactive culture between employees and their managers, where individual needs are recognized and met, and company goals are supported. Our professional development approach includes reviewing and assessing our management teams as well as facilitating personal employee development and growth. For employees, growth goals are tied to our corporate objectives and key results to ensure that employees are progressing and are supported by management teams. In 2022, we continued our People Manager Network to provide global consistency in how managers lead teams and support employees, including a specific focus on leading during the COVID-19 pandemic and return to office. With this program, managers are empowered and provided with the training and resources to scale employee career growth and provide their teams with the necessary tools to facilitate that growth. Managers are encouraged to schedule Conversation Days with their direct reports to identify opportunities for the company to better support employees and set goals for professional and personal growth.

To ensure our employees' personal and professional growth, we continue to provide training courses focused on building personal capabilities as well as skill development. In response to employee feedback, we maintain LinkedIn Learning for all employees, offering online courses on business, technology, and creative skills. Additionally, each year, Juniper employees receive role-specific trainings, which include topics such as human rights, environmental performance, compliance with the Juniper Worldwide Code of Business Conduct, engineering, information security, and other compliance and industry-specific subjects.

We consistently work to improve the employee experience by addressing feedback collected through the annual Juniper Voice Survey and topic-specific surveys, including employee benefits and total rewards packages and Juniper's response to the COVID-19 pandemic.

Employee Retention, Benefits, and Wellness

We continue to prioritize our commitment to retaining and attracting a diverse workforce with the skills needed to deliver Experience-First Networking. We aim to provide benefits and programs that are holistic, flexible, and inclusive. We are committed to pay equity and benefits innovation. From offering childcare and working mother support, to expanding medical coverage for infertility and gender-affirming procedures, to foster and adoptive parent assistance, we have provided benefit offerings that are intended to be as inclusive and diverse as our employees' needs.

Our community engagement program empowers employees to participate authentically, so they can make an impact where it matters most to them. We offer five paid working days per year for employees to give back to their communities and engage with causes of their choice. In 2022, we held our first Global Week of Giving, encouraging employees to volunteer with a project curated by Juniper or with an organization in their own communities.

The health, safety, and well-being of our employees are vital to Juniper's success. In 2022, we reopened our facilities world-wide for office-based employees in a new office/hybrid collaboration model. We are taking precautions to ensure employees have a smooth and safe transition, including training and resources to navigate the changes and communicating in-office COVID-19 protocols for our employees' health and safety. We continued to offer global programs to support our employees working remotely, including COVID-19 crisis leave, Employee Assistance Program, remote ergonomic support, and TaskHuman. Employees have unlimited access to the TaskHuman platform, a virtual wellness coaching application, which covers hundreds of wellness topics from yoga and nutrition to financial guidance.

Information about our Executive Officers and Key Employees

The following sets forth certain information regarding our executive officers and key employees as of the filing of this Report:

Name	Age	Position
Rami Rahim	52	Chief Executive Officer and Director
Manoj Leelanivas	53	Executive Vice President, Chief Operating Officer
Robert Mobassaly	44	Senior Vice President, General Counsel and Secretary
Kenneth B. Miller	51	Executive Vice President, Chief Financial Officer
Thomas A. Austin	55	Group Vice President, Chief Accounting Officer
Christopher Kaddaras	52	Executive Vice President, Chief Revenue Officer

RAMI RAHIM joined Juniper in January 1997 and became Chief Executive Officer of Juniper and a member of the Board of Directors in November 2014. From March 2014 until he became Chief Executive Officer, Mr. Rahim served as Executive Vice President and General Manager of Juniper Development and Innovation. His responsibilities included driving strategy, development and business growth for routing, switching, security, silicon technology, and the Junos operating system. Previously, Mr. Rahim served Juniper in a number of roles, including Executive Vice President, Platform Systems Division, Senior Vice President and General Manager, Edge and Aggregation Business Unit, or EABU, and Vice President, Product Management for EABU. Prior to that, Mr. Rahim spent the majority of his time at Juniper in the development organization where he helped with the architecture, design and implementation of many Juniper core, edge, and carrier Ethernet products. Mr. Rahim holds a bachelor of science degree in Electrical Engineering from the University of Toronto and a master of science degree in Electrical Engineering from Stanford University.

MANOJ LEELANIVAS joined Juniper in March 2018 and has served as Executive Vice President, Chief Operating Officer since June 2021. From March 2018 to May 2021, he served as Executive Vice President, Chief Product Officer. In this role, Mr. Leelanivas leads all aspects of product strategy and direction for Juniper and helps to align products with our go-to-market strategies and execution, including marketing operations. From June 2013 to September 2017, Mr. Leelanivas was President and Chief Executive Officer of Cyphort, an innovator in scale-out security analytics technology, which was acquired by Juniper in September 2017. From March 1999 to May 2013, he held several key product management positions at Juniper, including Executive Vice President of Advanced Technologies Sales for data center. Mr. Leelanivas holds a bachelor of technology in Computer Engineering from the National Institute of Technology Karnataka, a master of science degree in Computer Science from the University of Kentucky, and is a graduate of the Stanford University Executive Business Program.

ROBERT MOBASSALY joined Juniper in February 2012 and has served as Senior Vice President, General Counsel since July 2021. From July 2016 to July 2021, he served as Vice President, Deputy General Counsel, where he was responsible for managing a team focused on legal functions, including those associated with Juniper's corporate securities, mergers and acquisitions, corporate governance, stockholder administration, and insurance matters. From May 2015 to July 2016, Mr. Mobassaly served as Associate General Counsel, Senior Director and previously served as Assistant General Counsel, Director. Prior to joining Juniper, Mr. Mobassaly was in private practice. He holds a bachelor's degree from the University of California, Berkeley, and a J.D. from the University of Pennsylvania Law School.

KENNETH B. MILLER joined Juniper in June 1999 and has served as our Executive Vice President, Chief Financial Officer since February 2016. Mr. Miller served as our interim Chief Accounting Officer while the Company continued to search for a full-time Chief Accounting Officer from February 2019 to September 2019. From April 2014 to February 2016, Mr. Miller served as our Senior Vice President, Finance, where he was responsible for the finance organization across the Company, as well as our treasury, tax and global business services functions. Previously, Mr. Miller served as our Vice President, Go-To-Market Finance, Vice President, Platform Systems Division, Vice President, SLT Business Group Controller and in other positions in our Finance and Accounting organizations. Mr. Miller holds a bachelor of science degree in Accounting from Santa Clara University.

THOMAS A. AUSTIN joined Juniper in September 2019 and has served as our Group Vice President and Chief Accounting Officer since July 2022. From September 2019 to June 2022, he served as Vice President, Corporate Controller and Chief Accounting Officer. From September 2016 until July 2019, Mr. Austin served as the Vice President of Corporate Finance at Dell Technologies, Inc., a multinational information technology company. From September 2008 until its acquisition by Dell Technologies in September 2016, Mr. Austin served as the Vice President of Corporate Finance at EMC Corporation, a multinational information technology company. From January 2001 through July 2008, Mr. Austin served as the Chief Financial Officer and Treasurer at Arbor Networks, Inc., a network security company. Prior to joining Arbor Networks, Mr.

Austin served as a controller for several companies. He began his career in public accounting at PricewaterhouseCoopers, a registered public accounting firm. Mr. Austin holds a bachelor of science degree in Public Accountancy from Providence College and an MBA from Babson College. Mr. Austin is also an adjunct professor of Finance at Providence College School of Business.

CHRISTOPHER KADDARAS joined Juniper as our Executive Vice President, Chief Revenue Officer in October 2022. From December 2021 to June 2022, he served as Chief Revenue Officer at Transmit Security, a cybersecurity and identity and access management company. Previously, Mr. Kaddaras was employed by Nutanix, a cloud computing company, including serving as Executive Vice President, Chief Revenue Officer, responsible for worldwide sales, from December 2019 to December 2021, Senior Vice President, General Manager of the Americas from January 2019 to December 2019 and Senior Vice President, General Manager of EMEA Sales from September 2016 to January 2019. Prior to that, he spent 16 years at EMC Corporation, a multinational information technology company, where he held various positions, including Vice President of Commercial Sales EMEA and Vice President of Sales Engineering across EMEA. He holds a bachelor of science in Management from Plymouth State University.

Available Information

We file our annual reports on Form 10-K, quarterly reports on Form 10-Q, and current reports on Form 8-K with the SEC electronically. The SEC maintains a website that contains reports, proxy and information statements, and other information regarding issuers, including Juniper Networks, that file electronically with the SEC. The address of that website is <https://www.sec.gov>.

You may obtain a free copy of our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports on our website at <http://www.juniper.net> or by sending an e-mail message to Juniper Networks Investor Relations at investorrelations@juniper.net. Such reports and other information are available on our website as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC. Our Corporate Governance Standards, the charters of our Audit Committee, Compensation Committee, and Nominating and Corporate Governance Committee, as well as our Worldwide Code of Business Conduct are also available on our website. Information on our website is not, and will not be deemed, a part of this Report or incorporated into any other filings the Company makes with the SEC.

Investors and others should note that we announce material financial and operational information to our investors using our Investor Relations website (<http://investor.juniper.net>), press releases, SEC filings and public conference calls and webcasts. We also use the Twitter account @JuniperNetworks and the Company's blogs as a means of disclosing information about the Company and for complying with our disclosure obligations under Regulation FD. The social media channels that we use as a means of disclosing information described above may be updated from time to time as listed on our Investor Relations website.

ITEM 1A. Risk Factors

Factors That May Affect Future Results

We operate in rapidly changing economic and technological environments that present numerous risks, many of which are driven by factors that we cannot control or predict. Some of these risks are highlighted in the following discussion, and in Management's Discussion and Analysis of Financial Condition and Results of Operations and Quantitative and Qualitative Disclosures About Market Risk. Investors should carefully consider all relevant risks before investing in our securities. The occurrence of any of these risks or additional risks and uncertainties not presently known to us or that we currently believe to be immaterial could materially and adversely affect our business, financial condition, operating results, and stock price.

RISKS RELATED TO OUR BUSINESS STRATEGY AND INDUSTRY

Our quarterly results are unpredictable and subject to substantial fluctuations; as a result, we may fail to meet the expectations of securities analysts and investors. Our revenues and operating results may vary significantly from quarter-to-quarter due to a number of factors, many of which are outside of our control. If our quarterly financial results or our predictions of future financial results fail to meet the expectations of securities analysts and investors, the trading price of our securities could be negatively affected. Our operating results for prior periods may not be effective predictors of our future performance.

Factors associated with our industry, the operation of our business, and the markets for our products and services that may cause our quarterly results to fluctuate, include, but are not limited to:

- unpredictable ordering patterns and limited visibility into our customers' spending plans and associated revenue;
- changes in our customer mix, the mix of products and services sold, and the geographies in which our products and services are sold;
- changes in the demand for our products and services, including seasonal fluctuations in customer spending;
- changing market and economic conditions, including rising interest rates, recessionary cycles, and inflationary pressures, that could make our solutions more expensive or could increase our costs for materials, supplies, and services;
- ability to fulfill orders received in a timely manner due to disruptions and shortages in our global supply chain;
- increased advance ordering by customers of our products due to industry-wide supply chain concerns and our increased lead times;
- price and product competition;
- ineffective legal protection of our intellectual property rights in certain countries;
- how well we execute on our strategy and business model;
- financial stability of our customers, including the solvency of private sector customers;
- authority for customers to purchase goods and services;
- executive orders, tariffs, governmental sanctions, changes in laws or regulations and accounting rules, or interpretations thereof;
- regional economic and political conditions, which may be aggravated by unanticipated global events; and
- disruptions in our business operations or target markets caused by, among other things, terrorism or other intentional acts, armed conflicts (such as the ongoing conflict between Russia and Ukraine as well as governmental sanctions imposed in response), cyberwarfare, an escalation of political tensions, outbreaks of disease, such as pandemics, earthquakes, floods, fires, or other natural disasters, including catastrophic events, and other unanticipated extraordinary externalities, including extreme weather conditions due to climate change that increase both the frequency and severity of natural disasters and may cause derivative disruptions such as impacts to our physical infrastructure or those of our customers, manufacturers, and suppliers.

We believe that quarter-to-quarter comparisons of operating results are not necessarily a good indication of what our future performance will be. In some prior periods, our operating results have been below our guidance, our long-term financial model or the expectations of securities analysts or investors. This may happen again, and the price of our common stock may decline. In addition, our failure to pay quarterly dividends to our stockholders or the failure to meet our commitments to return capital to our stockholders could have a material adverse effect on our stock price.

We expect our gross margins and operating margins to vary over time. Our product and service gross margins are expected to vary, and may be adversely affected in the future by numerous factors, including, but not limited to, customer, vertical, product and geographic mix shifts, an increase or decrease in our software sales or services we provide, increased price competition in one or more of the markets in which we compete, modifications to our pricing strategy to gain footprint in markets or with customers, currency fluctuations that impact our costs or the cost of our products and services to our customers, inflation, increases in material, labor, logistics, warranty costs, or inventory carrying costs, excess product component or obsolescence

charges from our contract manufacturers, issues with manufacturing or component availability, issues relating to the distribution of our products and provision of our services, quality or efficiencies, increased costs due to changes in component pricing or charges incurred due to inaccurately forecasting product demand, warranty related issues, the impact of tariffs, or our introduction of new products and enhancements, or entry into new markets with different pricing and cost structures. We have seen, and may continue to see, our gross margins negatively impacted by continued increases in component costs and inflationary pressures. Failure to sustain or improve our gross margins reduces our profitability and may have a material adverse effect on our business and stock price.

We derive a material portion of our revenues from a limited number of our customers, and our customers compete in industries that continue to experience consolidation. A material portion of our net revenues, across each customer vertical, depends on sales to a limited number of customers. The concentration of our customer base increases risks related to the financial condition of our customers, and the deterioration in financial condition of a single customer or the failure of a single customer to perform its obligations could have a material adverse effect on our results of operations and cash flow. If any such customers change their business requirements or focus, vendor selection, project prioritization, or purchasing behavior, or are parties to consolidation transactions, they may delay, suspend, reduce or cancel their purchases of our products or services and our business, financial condition, and results of operations may be adversely affected. In addition, major customers may also seek more favorable pricing, payment, intellectual property-related, or other commercial terms that are less favorable to us, which may have a negative impact on our business, cash flow, revenue, and gross margins.

If we are unable to compete effectively, our business and financial results could be harmed. The markets that we serve are rapidly evolving and highly competitive and include several well-established companies. We also compete with other public and private companies that are developing technologies that compete with our products. In addition, actual or speculated consolidation among competitors, or the acquisition by, or of, our partners and/or resellers by competitors can increase the competitive pressures faced by us as customers may delay spending decisions or not purchase our products at all. Our partners and resellers generally sell competing products on a non-exclusive basis and consolidation could delay spending or require us to increase discounts to compete, which could also adversely affect our business. Several of our competitors have substantially greater resources and can offer a wider range of products and services for the overall network equipment market than we do. Other competitors have become more integrated, including through consolidation and vertical integration, and offer a broader range of products and services, which could make their solutions more attractive to our customers. Many of our competitors also sell networking products as bundled solutions with other IT products. If we are unable to compete effectively against existing or future competitors, we could experience a loss in market share and a reduction in revenues and/or be required to reduce prices, which could reduce our gross margins and materially and adversely affect our business, financial condition, and results of operations.

Fluctuating economic conditions make it difficult to predict revenues and gross margin for a particular period and a shortfall in revenues or increase in costs of production may harm our operating results. Our revenues and gross margin depend significantly on general economic conditions and the demand for products in the markets in which we compete. Economic weakness or uncertainty, customer financial difficulties, and constrained spending on network expansion and enterprise infrastructure have in the past resulted in, and may in the future result in, decreased revenues and earnings. Such factors could make it difficult to accurately forecast revenues and operating results and could negatively affect our ability to provide accurate forecasts to our contract manufacturers, manage our contract manufacturer relationships and other expenses and to make decisions about future investments. In addition, economic instability or uncertainty, inflationary pressures, continued turmoil in the geopolitical environment in many parts of the world and other events beyond our control, such as the COVID-19 pandemic and the ongoing conflict between Russia and Ukraine, have, and may continue to, put pressure on economic conditions, including global and regional financial markets, which has led and could lead, to reduced demand for our products, delays or reductions in network expansions or infrastructure projects, and/or higher costs of production. Future or continued economic weakness, failure of our customers and markets to recover from such weakness, customer financial difficulties, increases in costs of production, and reductions in spending on network maintenance and expansion could result in price concessions in certain markets or have a material adverse effect on demand for our products and consequently on our business, financial condition, and results of operations.

Our business operations have been impacted by the ongoing COVID-19 pandemic, and the impact on our future results of operations and financial performance remains uncertain. We continue to monitor and evaluate the impact of the COVID-19 pandemic on our business operations on a regional, national, and global basis. In 2022, we reopened our facilities world-wide for office-based employees in a new office/hybrid collaboration model. If the ongoing COVID-19 pandemic, corresponding governmental regulations, or our return to the office process have a substantial impact on the health, attendance or productivity of our employees, partners, or customers, our results of operations and overall financial performance may be adversely impacted.

For example, the COVID-19 pandemic has caused us to experience supply constraints due to both constrained manufacturing capacity as well as shortages of component parts as our component vendors have experienced manufacturing challenges. We

continue to experience extended lead-times to our customers and increased logistics and elevated component costs, which has negatively impacted our ability to recognize revenue and decreased our gross margins for these periods, and may impact our ability to convert backlog into revenue. Our backlog may not be a reliable indicator of future operating results because a customer may place orders early in an effort to secure supply when needed and then cancel an order without significant penalty. Further, customer behaviors have started to change as a result of global macroeconomic factors, and we may not continue to experience a continuation of such demand. Challenges to our supply chain due to the impact of the pandemic remain dynamic, including ongoing shortages of component parts, and we continue to experience increased logistics costs due to air travel and transport restrictions that limit the availability of flights on which we are able to ship products. Additionally, cost increases and extended shipping times for ocean transit have increased our dependence on higher-cost air freight.

The ultimate impact from the COVID-19 pandemic on our business depends on future developments that cannot be accurately forecasted at this time, such as the transmission rate and geographic spread of the disease and its variants, and the impact of these and other factors on our employees, customers, partners, and vendors. If we are not able to respond to and manage the impact of such events effectively and if the macroeconomic conditions of the general economy or the industries in which we operate worsen from present levels, our business, operating results, financial condition and cash flows could continue to be adversely affected.

Our success depends upon our ability to effectively plan and manage our resources and scale and restructure our business. Our ability to successfully offer our products and services and execute on our growth strategy in a rapidly evolving market requires an effective planning, forecasting, and management process to enable us to effectively scale and adjust our business and business models in a cost-effective manner. From time to time, we have increased investment in our business by increasing headcount, acquiring companies, and increasing our investment in research and development, sales and marketing, and other parts of our business. Conversely, in the last few years, we have initiated restructuring plans to realign our workforce as a result of organizational and leadership changes, which resulted in restructuring charges. Our ability to achieve the anticipated cost savings and other benefits from these initiatives is subject to many estimates and assumptions, which are subject to uncertainties. If our estimates and assumptions are incorrect, if we are unsuccessful at implementing changes, if we cannot evolve and scale our business and operations effectively, or if other unforeseen events occur, our business, financial condition and results of operations could be adversely affected.

Our acquisitions or divestitures of businesses could disrupt our business and harm our financial condition and stock price, and equity issued as consideration for acquisitions may dilute the ownership of our stockholders. We have made, and may continue to make, acquisitions to enhance our business and invest significant resources to integrate the businesses we acquire. The success of each acquisition depends in part on our ability to realize the business opportunities and manage numerous risks, including, but not limited to: problems combining the purchased operations, technologies or products, unanticipated costs, higher operating expenses, liabilities, litigation, diversion of management's time and attention, adverse effects on existing business relationships with suppliers and customers, risks associated with entering markets in which we have no or limited prior experience, and where competitors in such markets have stronger market positions, initial dependence on unfamiliar supply chains, failure of our due diligence processes to identify significant problems, liabilities or other challenges of an acquired company or technology, and the potential loss of key employees, customers, distributors, vendors, and other business partners of the companies we acquire.

Acquisitions of high-technology companies are inherently risky and subject to many factors outside of our control. There can be no assurance that our previous or future acquisitions will be successful or that we will be able to successfully integrate any businesses, products, technologies, or personnel that we might acquire or that the transaction will advance our business strategy. Further, we may not realize anticipated revenues or other benefits associated with our acquisitions. In addition, we have divested, and may in the future divest, businesses, product lines, or assets. These initiatives may also require significant separation activities that could result in the diversion of management's time and attention, loss of employees, substantial separation costs, and accounting charges for asset impairments. No assurance can be given that any acquisitions or divestitures will not materially adversely affect our business, operating results, or financial condition.

In connection with certain acquisitions, we may agree to issue common stock, or assume equity awards, that dilute the ownership of our current stockholders; use a substantial portion of our cash resources; assume liabilities (both known and unknown); incur tax expenses; record goodwill and amortizable intangible assets as well as restructuring and other related expenses. We may incur additional acquisition-related debt, which could increase our leverage and potentially negatively affect our credit ratings resulting in more restrictive borrowing terms or increased borrowing costs, thereby limiting our ability to borrow. Any of the foregoing, and other factors, could harm our ability to achieve anticipated levels of profitability or other financial benefits from our acquired or divested businesses, product lines or assets or to realize other anticipated benefits of divestitures or acquisitions.

Long sales and implementation cycles for our products and customer urgency related to ship dates to fill large orders may cause our revenues and operating results to vary significantly from quarter-to-quarter. We experience lengthy sales cycles

because our customers' decisions to purchase certain of our products, particularly new products, involve a significant commitment of their resources and a lengthy evaluation and product qualification process. Customers design and implement large network deployments following lengthy procurement processes, which may impact expected future orders. Following a purchase, customers may also deploy our products slowly and deliberately. Customers with large networks often expand their networks in large increments on a periodic basis and place large orders on an irregular basis. These sales and implementation cycles, as well as our expectation that customers will place large orders with urgent ship dates, may cause our revenues and operating results to vary significantly from quarter-to-quarter.

Our ability to recognize revenue in a particular period is contingent on the timing of product orders and deliveries and/or our sales of certain software, subscriptions, and professional support and maintenance services. In some of our businesses, our quarterly sales have periodically reflected a pattern in which a disproportionate percentage of each quarter's total sales occurs towards the end of the quarter. Further, we build certain products only when orders are received. Since the volume of orders received late in any given fiscal quarter remains unpredictable, if orders for custom products are received late in any quarter, we may not be able to recognize revenue for these orders in the same period or meet our expected quarterly revenues. Similarly, if we were to take actions or events occur, which encourage customers to place orders or accept deliveries earlier than anticipated or our customers were to continue to accelerate ordering of our products in response to global supply constraints, extended lead times or other market pressures, our ability to meet our expected revenues in future quarters could be adversely affected. We also determine our operating expenses based on our anticipated revenues and technology roadmap and a high percentage of our expenses are fixed in the short and medium term. Any failure or delay in generating or recognizing revenue could cause significant variations in our operating results and operating margin from quarter-to-quarter.

In addition, services revenue, including SaaS revenue, accounts for a significant portion of our revenue, comprising 33%, 35%, and 36% of total revenue in 2022, 2021, and 2020, respectively. We expect our sales of new or renewal professional services, support, maintenance, and SaaS contracts to fluctuate due to end-customers' level of satisfaction with our products and services, the prices of our products and services or those offered by our competitors, and reductions in our end-customers' spending levels. We recognize professional services when delivered, and we recognize support, maintenance, and SaaS revenue periodically over the term of the relevant service period.

Further, we recognize certain software revenues periodically over the term of the relevant use or subscription periods and as a result, the related software and support and maintenance revenue we report each fiscal quarter is derived from the recognition of deferred revenue from contracts entered into during previous fiscal quarters. Any fluctuation in such new or renewed contracts in any one fiscal quarter may not be fully or immediately reflected in revenue and could negatively affect our revenue in future fiscal quarters.

RISKS RELATED TO OUR TECHNOLOGY AND BUSINESS OPERATIONS

If the demand for network and IP systems does not continue to grow, our business, financial condition, and results of operations could be adversely affected. A substantial portion of our business and revenues depends on the growth of secure IP infrastructure as well as customers that depend on the continued growth of IP services to deploy our products in their networks and IP infrastructures. As a result of changes in the economy, capital spending, or the building of network capacity in excess of demand (all of which have, in the past, particularly affected telecommunications service providers), spending on IP infrastructure can vary, which could have a material adverse effect on our business, financial condition, and results of operations. In addition, a number of our existing customers are evaluating the build-out of their next generation networks. During the decision-making period when our customers are determining the design of those networks and the selection of the software and equipment they will use in those networks, such customers may greatly reduce or suspend their spending on secure IP infrastructure. Any reduction or suspension of spending on IP infrastructure is difficult to predict, and may be due to events beyond our control. This, in turn, can make it more difficult to accurately predict revenues from customers, can cause fluctuations in the level of spending by customers and, even where our products are ultimately selected, can have a material adverse effect on our business, financial condition, and results of operations.

If we do not anticipate technological shifts, market needs and opportunities, we may not be able to compete effectively and our ability to generate revenues will suffer. If we are unable to anticipate future technological shifts, market needs, requirements or opportunities, or fail to develop and introduce new products, product enhancements or business strategies to meet those requirements or opportunities in a timely manner or at all, it could cause us to lose customers, substantially decrease or delay market acceptance and sales of our products and services, and significantly harm our business, financial condition, and results of operations. In addition, if we invest in developing products for a market that does not develop, it could significantly harm our business, financial condition, and results of operations. Even if we are able to anticipate, develop, and commercially introduce new products, enhancements or business strategies, there can be no assurance that such products, enhancements or business strategies will achieve market acceptance.

Our strategy to expand our software business could adversely affect our competitive position. The success of our strategy to expand our software business is subject to a number of risks and uncertainties, including, but not limited to:

- the additional development efforts and costs required to create new software products and to make our products compatible with multiple technologies;
- the possibility that our software products may not achieve widespread customer adoption;
- the possibility that our strategy could erode our revenue and gross margins;
- the impact on our financial results of longer periods of revenue recognition for certain types of software products and changes in tax treatment associated with software sales;
- the additional costs associated with both domestic and international regulatory compliance, data protection, privacy and security laws, industry data security standards, and changes we need to make to our distribution chain in connection with increased software sales;
- the ability of our disaggregated hardware and software products to operate independently and/or to integrate with current and future third-party products; and
- issues with third-party technologies used with our software products, which may be attributed to us.

If any of our software products or business strategies do not gain market acceptance or meet our expectations for growth, our ability to meet future financial targets may be adversely affected and our competitive position and our business and financial results could be harmed.

If our products do not interoperate with our customers' networks, installations will be delayed or cancelled and could harm our business. Our products are designed to interface with our customers' existing networks, each of which have different specifications and utilize multiple protocol standards and products from other vendors. Many of our customers' networks contain multiple generations of products that have been added over time as these networks have grown and evolved. Our products must interoperate with many or all of the products within these networks as well as future products to meet our customers' requirements. If we find errors in the existing software or defects in the hardware used in our customers' networks, we may need to modify our software or hardware to fix or overcome these errors so that our products will interoperate and scale with the existing software and hardware, which could be costly and could negatively affect our business, financial condition, and results of operations. In addition, if our products do not interoperate with those of our customers' networks, demand for our products could be adversely affected or orders for our products could be canceled. This could hurt our operating results, damage our reputation, and seriously harm our business and prospects.

Our products incorporate and rely upon licensed third-party technology. We integrate licensed third-party technology into certain of our products. From time to time, we may be required to renegotiate our current third-party licenses or license additional technology from third parties to develop new products or product enhancements or to facilitate new business models. Third-party licenses may not be available or continue to be available to us on commercially reasonable terms and some of our agreements with our licensors may be terminated for convenience by them. In addition, we cannot be certain that our licensors are not infringing on the intellectual property rights of third parties or that our licensors have sufficient rights to the licensed intellectual property in all jurisdictions in which we may sell our products. Third-party technology we incorporate into our products that is deemed to infringe on the intellectual property of others may result, and in some cases has resulted, in limitations on our ability to source technology from those third parties, restrictions on our ability to sell products that incorporate the infringing technology, increased exposure to liability that we will be held responsible for incorporating the infringing technology in our products, and increased costs involved in removing that technology from our products or developing substitute technology. Our inability to comply with, maintain or re-license any third-party licenses required in our products or our inability to obtain third-party licenses necessary to develop new products and product enhancements, could require us to develop substitute technology or obtain substitute technology of lower quality or performance standards or at a greater cost, any of which could delay or prevent product shipment and harm our business and results of operations.

We may face difficulties enforcing our proprietary rights, which could adversely affect our ability to compete. We rely on a combination of patents, copyrights, trademarks, trade secret laws, and contractual restrictions on disclosure of confidential and proprietary information, to protect our proprietary rights. There can be no assurance that any of our patent applications will result in issued patents with the scope of the claims we seek or that any of our patents or other proprietary rights will not be challenged, invalidated, infringed, or circumvented or that our rights will, in fact, provide competitive advantages to us or protect our technology. Further, we cannot be certain that we were the first to make the inventions claimed in our pending patent applications or that we were the first to file for patent protection, which could prevent our patent applications from issuing as patents or invalidate our patents following issuance, which in turn may prevent us from incorporating our inventions into our products. If we cannot protect our intellectual property rights, we could incur costly product redesign efforts, discontinue certain product offerings, and experience other competitive harm.

Unauthorized parties may also attempt to copy aspects of our products or obtain and use our proprietary information. We generally enter into confidentiality or license agreements with our employees, consultants, vendors, and customers, and generally limit access to and distribution of our proprietary information. However, we cannot ensure that we have entered into confidentiality or license agreements with all parties who may have or have had access to our confidential information or that these agreements will not be breached. We cannot guarantee that any of the measures we have taken will prevent misappropriation of our technology. We are also vulnerable to third parties who illegally distribute or sell counterfeit, stolen, or unfit versions of our products, which has happened in the past and could happen in the future, and could have a negative impact on our reputation and business.

In addition, the laws of some foreign countries may not protect our proprietary rights to the same extent as do the laws of the U.S. If we are unable to protect our proprietary rights, we may be at a competitive disadvantage to others who need not incur the substantial expense, time, and effort required to create innovative products that have enabled our success.

We depend on contract manufacturers and original design manufacturers as well as single-source and limited source suppliers, including for key components such as semiconductors. Our operations depend on our ability to anticipate our needs for components, products and services, as well as the ability of our manufacturers, original design manufacturers, and suppliers to deliver sufficient quantities of quality components, products and services at reasonable prices and in time for us to meet critical schedules for the delivery of our own products and services. Given the wide variety of solutions that we offer, the large and diverse distribution of our manufacturers and suppliers, and the long lead times required to manufacture, assemble and deliver certain products, problems could arise in production, planning and inventory management that could seriously harm our business. For example, there is currently a worldwide shortage of key components, such as semiconductor products, that has caused us to experience increased prices and extended lead times. The shortage of semiconductors has caused a significant disruption to our production schedule and may give rise to a substantial adverse effect on our financial condition or results of operations. Any delay in our ability to produce and deliver our products could cause our customers to purchase alternative products from our competitors. In addition, our ongoing efforts to optimize the efficiency of our supply chain could cause supply disruptions and be more expensive, time-consuming and resource-intensive than expected. Other manufacturing and supply problems that we could face are described below.

- ***Manufacturing Issues.*** We may experience supply shortfalls or delays in shipping products to our customers if our manufacturers experience delays, disruptions, or quality control problems in their manufacturing operations, or if we have to change or add manufacturers or contract manufacturing locations. Although we have contracts with our manufacturers that include terms to protect us in the event of an early termination, we may not have adequate time to transition all of our manufacturing needs to an alternative manufacturer under comparable commercial terms. We have experienced in the past and may experience in the future an increase in the expected time required to manufacture our products or ship products. Moreover, a significant portion of our manufacturing is performed in foreign countries and is therefore subject to risks associated with doing business outside of the U.S., including import restrictions, export restrictions, government sanctions, disruptions to our supply chain, cyberattacks, cyberwarfare, pandemics, regional climate-related events, or regional conflicts.
- ***Single-Source Suppliers.*** We rely on single or limited sources for many of our components due to technology, availability, price, quality, scale or customization needs. Any supplier of such components could discontinue components used in our products, which may cause us to either discontinue certain products or incur additional costs to redesign our products that incorporate discontinued components. In addition, there has been consolidation among certain suppliers of our components. Consolidation among suppliers can result in the reduction of the number of independent suppliers of components available to us, which could negatively impact our ability to access certain component parts or the prices we have to pay for such parts and may impact our gross margins.
- ***Supply Chain Disruption.*** Any disruptions to our supply chain, significant increase in component costs or logistics, or shortages of critical components, could decrease our sales, earnings, and liquidity or otherwise adversely affect our business and result in increased costs. Such a disruption could occur as a result of any number of events, including, but not limited to: an extended closure of or any slowdown at our suppliers' plants or shipping delays, market shortages due to the surge in demand from other purchasers for critical components, increases in prices, including fuel prices and increases in prices due to inflation, the imposition of regulations, quotas or embargoes or tariffs on components or our products themselves, labor stoppages, transportation delays, including due to labor strikes, or failures affecting the supply chain and shipment of materials and finished goods, third-party interference in the integrity of the products sourced through the supply chain, cyberattacks, the unavailability of raw materials, severe weather conditions, adverse effects of climate change, natural disasters, geopolitical developments, war or terrorism and disruptions in utilities and other services. In addition, the development, licensing, or acquisition of new products in the future may increase the complexity of supply

chain management. Failure to effectively manage the supply of components and products would adversely affect our business.

- **Component Supply Forecast.** We provide demand forecasts for our products to our manufacturers, who order components and plan capacity based on these forecasts. If we overestimate our requirements, our manufacturers may assess charges, or we may have liabilities for excess inventory or raw materials, each of which could negatively affect our gross margins. If we underestimate our requirements, our contract manufacturers may have inadequate time, materials, and/or components required to produce our products. This could increase costs or delay or interrupt manufacturing of our products, resulting in delays in shipments and deferral or loss of revenues and could negatively impact customer satisfaction. Any future spike in growth in our business, in the use of certain components we share in common with other companies, in IT spending, or in the economy in general, is likely to create greater short-term pressure on us and our suppliers to accurately forecast overall component demand and to establish optimal component inventories. If shortages or delays persist, we may not be able to secure enough components at reasonable prices or of acceptable quality to build and deliver products in a timely manner, and our revenues, gross margins and customer relationships could suffer.
- **Alternative Sources of Supply.** The development of alternate sources for components is time-consuming, difficult, and costly. In the event of a component shortage, supply interruption or significant price increase from these suppliers (such as with the current worldwide shortage of semiconductor products or due to the impact of the war between Ukraine and Russia), we may not be able to locate alternative sources in a timely manner. In addition, certain raw materials used in our industry's extended supply chain come from Ukraine or Russia, such as neon, palladium, cobalt, and others. Poor relations between the U.S. and Russia, sanctions by the U.S., EU, and other countries against Russia, the response by Russia and other countries to these sanctions, and any escalation of political tensions or economic instability in the region could have an adverse impact on us and our suppliers. Further, our suppliers may have staff, operations, materials or equipment located in Ukraine or Russia, which could impact our supply chain or services being provided to us. If we are unable to buy these components in quantities sufficient to meet our requirements on a timely basis, we will not be able to deliver products and services to our customers, which would seriously affect present and future sales, and would, in turn, adversely affect our business, financial condition, and results of operations.
- **COVID-19 Impact.** Delays in production or in product deliveries due to the COVID-19 pandemic have adversely affected and may continue to adversely affect our business, financial condition, and results of operations. For example, we have experienced supply constraints due to both constrained manufacturing capacity, as well as component parts shortages as our component vendors were also facing supply constraints, and increased logistics costs due to air travel and transport restrictions that limited the availability of flights on which we ship our products. Additionally, cost increases and extended shipping times for ocean transit have increased our dependence on higher-cost air freight. These challenges have resulted in extended lead-times to our customers and have had a negative impact on our ability to recognize associated revenue and has resulted in and may continue to result in an increase in accelerated ordering for certain of our products. We continue to work with government authorities and implement safety measures to help ensure that we are able to continue manufacturing and distributing our products during the ongoing COVID-19 pandemic; however, we could still experience an unforeseen disruption to our supply chain that could impact our operations.

We face significant risks to our business and operations due to political and economic tensions between China and Taiwan. We have significant business operations in Taiwan, and some of our manufacturing partners and suppliers have facilities in Taiwan. As a result, our operations and our supply chain could be materially and negatively impacted by adverse changes in China-Taiwan relations, which have become increasingly frayed in recent years. Accordingly, further deterioration in military, political and economic relations between China and Taiwan, as well as the ongoing geopolitical and economic uncertainty between the U.S. and China, the unknown impact of current and future U.S. and Chinese trade regulations and other geopolitical risks with respect to China and Taiwan, may cause disruptions in the markets and industries we serve, including decreased demand from customers for products using our solutions, our supply chain, or other disruptions which may, directly or indirectly, materially harm our business, financial condition, results of operations, and the market price of our stock.

System security risks, data protection breaches, and cyberattacks could compromise our and our customers' proprietary information, disrupt our internal operations and harm public perception of our products. In the ordinary course of business, we store sensitive data, including intellectual property, personal data, our proprietary business information and that of our employees, contractors, customers, suppliers, vendors, and other business partners on our networks. In addition, we store sensitive data through cloud-based services that may be hosted by third parties and in data center infrastructure maintained by third parties. Secure maintenance of this information is critical to our operations and business strategy. We have been, and expect to be, subject to cyberattacks, and may be subject to ransomware and distributed denial-of-service attacks, spearfishing attacks and other attempted intrusions on our networks and systems by a wide range of actors, including, but not limited to, nation states, criminal enterprises, terrorist organizations, and other organizations or individuals, as well as errors, wrongful

conduct or malfeasance by employees and third-party service providers (collectively, “malicious parties”). We expect our third-party vendors to be subject to similar cyberattacks, ransomware and distributed denial-of-service attacks, spearfishing attacks and other attempted intrusions. The increasing occurrence of high-profile data breaches and ransomware attacks in addition to geopolitical unrest, provides evidence of an environment increasingly hostile to information security.

Despite our security measures, and those of our third-party vendors, our information systems, infrastructure, and data have experienced security incidents and breaches and may be subject to or vulnerable to breaches or attacks, including ransomware and distributed denial-of-service attacks. If any breach or attack compromises our networks or those of our vendors, creates system disruptions or slowdowns, or exploits security vulnerabilities or critical security defects of our products and services, the information stored on our networks or the networks of our customers, suppliers or business partners could be accessed and modified, publicly disclosed, lost, destroyed or stolen, and we may be subject to claims for contractual, tort, or equitable liability and suffer reputational and financial harm. In addition, malicious parties may compromise our software, including the open-source software used in our products, or our manufacturing supply chain to embed malicious hardware, components, and software that are designed to defeat or circumvent encryption and other cybersecurity measures to interfere with the operation of our networks, expose us or our products to cyberattacks, or gain unauthorized access to our or our customers’ systems and information. If such actions are successful, they could diminish customer trust in our products, harm our business reputation, and adversely affect our business and financial condition.

Because techniques used by malicious parties to access or sabotage networks are sophisticated, change frequently, and generally are not recognized until after they are used, we may be unable to anticipate or immediately detect these techniques or the vulnerabilities they have caused or other potential vulnerabilities or security defects. Further, when vulnerabilities are discovered, we evaluate the risk, prioritize our responses, apply patches or take other remediation actions and notify customers, business partners, and suppliers, as appropriate. Exploitation of vulnerabilities and critical security defects, prioritization errors in remediating vulnerabilities or security defects, failure of third-party providers to remedy vulnerabilities or security defects, or customers not deploying security releases or deciding not to upgrade products, services or solutions, could, in each case, result in claims of liability against us, damage our reputation or otherwise harm our business.

All of this requires significant resources and attention from management and our employees, and the economic costs to us to eliminate or alleviate these issues could be significant and may be difficult to anticipate or measure. The market perception of the effectiveness of our products and our overall reputation could also be harmed as a result of any actual or perceived breach of security that occurs in our network or in the network of a customer of our products, regardless of whether the breach is attributable to our products, the systems of other vendors and/or to actions of malicious parties. This could impede our sales, manufacturing, distribution or other critical functions, which could have an adverse impact on our financial results.

Additionally, we could be subject to measures that regulate the security of the types of products we sell. Such regulations may result in increased costs and delays in product releases and changes in features to achieve compliance, which may impact customer demand for our products, and result in regulatory investigations, potential fines, and litigation in connection with a compliance concern, security breach or related issue, and potential liability to third parties arising from such breaches. Further, in response to actual or anticipated cybersecurity regulations or contractual security requirements negotiated with our customers, we may need to make changes to existing policies, processes, and supplier relationships that could impact product offerings, release schedules and service response times, which could adversely affect the demand for and sales of our products and services. We maintain product liability insurance, but there is no guarantee that such insurance will be available or adequate to protect against all such claims. If our business liability insurance coverage is inadequate, or future coverage is unavailable on acceptable terms or at all, our financial condition and results of operations could be harmed.

Disruption in our distribution channels could seriously harm our future revenue and financial condition and increase our costs and expenses. The majority of our revenues are derived through value-added resellers and distributors, most of which also sell our competitors’ products, and some of which sell their own competing products. The loss of or reduction in sales to our resellers or distributors could materially reduce our revenues. Our competitors may in some cases be effective in leveraging their market share positions or in providing incentives to current or potential resellers and distributors to favor their products or to prevent or reduce sales of our products. If we are unable to develop and maintain relationships with our partners, develop new relationships with value-added resellers and distributors in new markets, expand the number of distributors and resellers in existing markets, manage, train or motivate existing value-added resellers and distributors effectively, or if these partners are not successful in their sales efforts, sales of our products may decrease, and our business, financial condition, and results of operations would suffer. We recognize a portion of our revenues at the time we sell products to our distributors. If these sales are made based on inaccurate or untimely information, the amount or timing of our revenues could be adversely impacted. Further, our distributors may increase orders during periods of product shortages, cancel orders if their inventory is too high, or delay orders in anticipation of new products. They also may adjust their orders in response to the supply of our products and the products of our competitors that are available to them, and in response to seasonal fluctuations in end-user demand.

To develop and expand our distribution channel, we continue to offer attractive channel programs to potential partners and have previously entered into OEM agreements with partners to rebrand and resell our products as part of their product portfolios. These relationships require processes and procedures that may be costly or challenging to implement, maintain, and manage. Our failure to successfully manage and develop our distribution channel could adversely affect our ability to generate revenues from the sale of our products. We also depend on our global channel partners to comply with applicable legal and regulatory requirements. Any failure by our partners to comply with these requirements, could have a material adverse effect on our business, operating results, and financial condition.

We rely on the performance of our business systems and third-party systems and processes. Some of our business processes depend upon our IT systems, the IT systems and processes of third parties, and the interfaces between the two, as well as hosted SaaS applications from third parties. For example, we receive a broad range of information technology services, such as applications, including support, development and maintenance; infrastructure management and support, including for server storage and network devices; and end user support. Some of these services are provided to us through cloud providers, third party providers, and off-site facilities that may be vulnerable to damage or interruption, including performance problems from earthquakes, hurricanes, floods, fires, power loss, telecommunications failures, equipment failures, adverse events caused by operator error, cybersecurity attacks, pandemics, and similar events. In addition, because we lease, rather than own, off-site data center facilities, we cannot be assured that we will be able to expand our data center infrastructure to meet user demand in a timely manner, or on favorable financial terms. If we have issues receiving and processing data, this may delay our ability to provide products and services to our customers and business partners and damage our business. We also rely upon the performance of the systems and processes of our contract manufacturers to build and ship our products. If those systems and processes experience interruption or delay, the manufacture and shipment of our products in a timely manner may be impaired. Since IT is critical to our operations, in addition to the risks outlined above, problems with any of the third parties we rely on for our IT systems and services, could result in liabilities to our customers and business partners, lower revenue and unexecuted efficiencies, and impact our results of operations and our stock price. We could also face significant additional costs or business disruption if our arrangements with these third parties are terminated or impaired and we cannot find alternative services or support on commercially reasonable terms or on a timely basis or if we are unable to hire new employees in order to provide these services in-house.

Our ability to develop, market, and sell products could be harmed if we are unable to retain or hire key personnel or if our existing personnel are harmed by COVID-19. Our future success and ability to maintain a technology leadership position depends upon our ability to recruit and retain key management, engineering, technical, sales, marketing, and support personnel, as well as our ability to maintain the health of our personnel. The supply of highly qualified individuals with technological and creative skills, in particular engineers, in specialized areas with the expertise to develop new products and enhancements for our current products, and provide reliable product maintenance, as well as the number of salespeople with industry expertise, is limited. Competition for people with the specialized technical skills we require is significant and may cause us to incur increased compensation expenses to attract and retain employees with the skills to support our business needs. None of our officers or key employees is bound by an employment agreement for any specific term. If we fail to attract new personnel or retain and motivate our current personnel, the development and introduction of new products could be delayed, our ability to market, sell, or support our products could be impaired, and our business, results of operations and future growth prospects could suffer.

A number of our team members are foreign nationals who rely on visas and entry permits in order to legally work in the U.S. and other countries. In recent years, the U.S. has increased the level of scrutiny in granting H-1B, L-1, and other business visas. Compliance with new and unexpected U.S. immigration and labor laws could also require us to incur additional unexpected labor costs and expenses or could restrain our ability to retain and attract skilled professionals. Additionally, circumstances related to or in response to pandemics, such as the COVID-19 pandemic, may interfere with our ability to hire or retain personnel. Any of these restrictions could have a material adverse effect on our business, results of operations and financial conditions.

Our business could be negatively impacted by ESG matters and/or our reporting of such matters. There is an increasing focus from U.S. and foreign government agencies, certain investors, customers, consumers, employees, and other stakeholders concerning environmental, social, and governance (“ESG”) matters. We may communicate certain initiatives and goals, regarding environmental matters, diversity, responsible sourcing and social investments and other corporate social responsibility and ESG matters, in our Corporate Social Responsibility Report, on our website, in our SEC filings, and elsewhere. These initiatives and goals could be difficult and expensive to implement, and we could be criticized for the accuracy, adequacy, or completeness of the disclosure of our ESG initiatives. We could fail, or be perceived to fail, in our achievement of these initiatives and goals as a result of rapidly evolving ESG definitions, rules, and regulations, including the SEC's proposed rules related to emissions disclosures and other ESG matters, such as internal planning issues and factors that are beyond our control, including those involving third parties. In addition, we could be criticized for the scope or nature of such initiatives or goals, or for any revisions to these goals. Our reputation or other aspects of our business could be negatively impacted by all such matters, with potential material adverse effects.

LEGAL, REGULATORY, AND COMPLIANCE RISKS

We are a party to lawsuits, investigations, and other disputes. We have been named a party to litigation involving a broad range of matters, including commercial transactions, employment matters, patent infringement, copyrights, trademarks, and other rights to technologies and related standards that are relevant to our products, as well as governmental claims, and securities laws, and we may be named in additional litigation and/or governmental claims. For example, certain U.S. governmental agencies previously conducted investigations into possible violations by us of the U.S. Foreign Corrupt Practices Act, or the FCPA, which ultimately resulted in the Company entering into a settlement with the SEC that involved, among other things, the Company making a payment of \$11.8 million in August 2019. Future claims or initiated litigation may include claims against us or our manufacturers, suppliers, partners, or customers. Future claims asserted and/or litigation may be initiated by third parties, including whistleblowers, and may relate to infringement of proprietary rights, issues arising under the False Claims Act, compliance with securities laws, or other matters. The expense of initiating and defending, and in some cases settling, such litigation and investigations may be costly, and may cause us to suffer reputational harm, divert management's attention from day-to-day operations of our business, and may require us to implement certain remedial measures that could disrupt our business, operations, results of operations, financial condition, or cash flows. In addition, if we fail to comply with the terms of any settlement agreement, we could face more substantial penalties. An unfavorable resolution of one or more of these matters could have a material adverse effect on our business, results of operations, financial condition, or cash flows.

Further, increased patent litigation brought by non-practicing entities may result, and in some cases has resulted, in our customers requesting or requiring us to absorb a portion of the costs of such litigation or providing broader indemnification for litigation, each of which could increase our expenses and negatively affect our business, financial condition, and results of operations. Regardless of the merit of these claims, they may require us to develop alternative technologies, enter into license agreements, or cease engaging in certain activities or offering certain products or services. Furthermore, even arguably unmeritorious claims may be settled at significant costs to us because of the potential for high awards of damages or injunctive relief.

If any infringement or other intellectual property claim made against us or anyone we are required to indemnify is successful and we are required to pay significant monetary awards or damages to settle litigation, enter into royalty or licensing arrangements, or we fail to develop non-infringing technology and we incorporate infringing technology in our products, our business, financial condition, and results of operations could be materially and adversely affected.

Non-standard contract terms with telecommunications, cable, and cloud service provider companies, and other large customers, including large enterprise customers, could have an adverse effect on our business or impact the amount of revenues to be recognized. Telecommunications, cable, and cloud service provider companies, and other large companies, including large enterprise customers, generally have greater purchasing power than smaller entities and often request and receive more favorable terms from suppliers. As one such supplier, we may be required to agree to such terms and conditions, which may include terms that affect the amount or timing of our ability to recognize revenue, increase our costs, and have an adverse effect on our business, financial condition, and results of operations. Consolidation among such large customers can further increase their buying power and ability to require onerous terms from us.

Regulations of our industry or of our customers could harm our operating results and future prospects. We are subject to laws, regulations, and policies affecting the sale of our products in a number of areas. For example, some governments have regulations prohibiting customers (both government and commercial) from purchasing products that do not meet country-specific safety, conformance, or security certification criteria or in-country test requirements. Other regulations that may negatively impact our business include local content or local manufacturing requirements most commonly applicable for government, state-owned enterprise, or regulated industry procurements. These types of regulations are in effect or under consideration in several jurisdictions where we do business.

The SEC requires us, as a public company that uses certain raw materials considered to be “conflict minerals” in our products, to report publicly on the extent to which “conflict minerals” are in our supply chain. As a provider of hardware end-products, we are several steps removed from the mining, smelting, or refining of any conflict minerals. Accordingly, our ability to determine with certainty the origin and chain of custody of these raw materials is limited. Our relationships with customers, suppliers, and investors could suffer if we are unable to describe our products as “conflict-free.” We may also face increased costs in complying with conflict minerals disclosure requirements.

Environmental laws and regulations relevant to electronic equipment manufacturing or operations, including laws and regulations governing the hazardous material content of our products and the collection of and recycling of electrical and electronic equipment, may adversely impact our business and financial condition. In particular, we face increasing complexity in our product design and procurement operations as we adjust to new and future requirements relating to the chemical and material composition of our products, their safe use, the energy consumption associated with those products, climate change

laws, and regulations and product take-back legislation, which could require us to cease selling non-compliant products and to reengineer our products to use compliant components, which could result in additional costs to us, disrupt our operations, and result in an adverse impact on our operating results. If we were to violate or become liable under environmental laws or if our products become non-compliant with environmental laws, our customers may refuse to purchase our products and we could incur substantial costs or face other sanctions, which may include restrictions on our products entering certain jurisdictions. The amount and timing of costs to comply with environmental laws are difficult to predict.

In addition, as a contractor and subcontractor to the U.S. government, we are subject to federal regulations pertaining to our IT systems that require compliance with certain security and privacy controls. Failure to comply with these requirements could result in a loss of federal government business, subject us to claims or other remedies for non-compliance, or negatively impact our business, financial condition, and results of operations.

Further, some government customers have implemented and could continue to implement procurement policies that impact our profitability. Procurement policies favoring more non-commercial purchases, different pricing, or evaluation criteria or government contract negotiation offers based upon the customer's view of what our pricing should be, could affect the margins on such contracts or make it more difficult to compete on certain types of programs. Moreover, the failure to comply with government contracting provisions could result in penalties or the ineligibility to compete for future contracts. Government customers are continually evaluating their contract pricing and financing practices, and we have no assurance regarding what changes will be proposed, if any, and their impact on our financial position, cash flows, or results of operations.

Moreover, our commercial customers in the telecommunications industry may be subject to regulations and our business and financial condition could be adversely affected by changes in such regulations affecting our customers. Further, we could be affected by new laws or regulations on access to or commerce on IP networks in jurisdictions where we market our solutions. Regulations governing the range of services and business models that can be offered by service providers or cloud provider companies could adversely affect those customers' needs for products. Also, many jurisdictions have or are evaluating regulations relating to cybersecurity, supply chain integrity, privacy and data protection, any of which can affect the market and requirements for networking and security equipment. Additionally, certain countries where our customers operate may require that our products sold in that country be made locally or made in particular geographies, or satisfy local regulations for critical infrastructure projects, either of which could impact our ability to compete in those markets and may also negatively impact our margins due to the costs incurred to comply with these requirements.

The adoption and implementation of additional regulations could reduce demand for our products, increase the cost of building and selling our products, result in product inventory write-offs, impact our ability to ship products into affected areas and recognize revenue in a timely manner, require us to spend significant time and expense to comply with, and subject us to fines and civil or criminal sanctions or claims if we were to violate or become liable under such regulations. Any of these impacts could have a material adverse effect on our business, financial condition, and results of operations.

Governmental regulations, economic sanctions and other legal restrictions that affect international trade or affect movement and disposition of our products and component parts could negatively affect our revenues and operating results. The U.S. and other governments have imposed restrictions on the import and export of, among other things, certain telecommunications products and components, particularly those that contain or use encryption technology. Most of our products are telecommunications products that contain or use encryption technology and, consequently, are subject to restrictions. The scope, nature, and severity of such controls vary widely across different countries and may change frequently over time. In many cases, these government restrictions require a license prior to importing or exporting a good. Such licensing requirements can introduce delays into our operations as we or our channel partners must apply for the license and wait for government officials to process it or perform pre-shipment inspections; it is possible that lengthy delays will lead to the cancellation of orders by customers. Moreover, if we, our suppliers, or our channel partners fail to obtain necessary licenses prior to importing or exporting covered goods, we can be subject to government sanctions, including monetary penalties, conditions, and restrictions. Such license requirements, and any fines or other sanctions imposed for their violation could negatively affect our revenues and operating results.

In addition, the U.S. and other governments have especially broad sanctions and embargoes prohibiting provision of goods or services to certain countries, territories, sanctioned governments, businesses, and individuals. We have implemented systems to detect and prevent sales into restricted countries or to prohibited entities or individuals, but there can be no assurance that our third party, downstream resellers, and distributors will abide by these restrictions or have processes in place to ensure compliance.

Certain governments also impose special local content, certification, testing, source code review, escrow, and governmental recovery of private encryption keys, or other cybersecurity feature requirements to protect network equipment and software procured by or for the government. Similar requirements also may be imposed in procurements by state owned entities or even private companies forming part of "critical network infrastructure" or supporting sensitive industries.

In recent years, U.S. government officials have had concerns with the security of products and services from certain telecommunications and video providers based in China, Russia, and other regions. As a result, the U.S. government has imposed bans on the use of certain Chinese-origin and Russian-origin components or systems either in items sold to the U.S. government or in the internal networks of government contractors and subcontractors (even if those networks are not used for government-related projects). U.S. regulations also permit the U.S. government to investigate and possibly mandate the unwinding of commercial transactions between U.S. companies and foreign suppliers. This introduces uncertainty into our supply chain, our imports of end products and our overall operational planning.

In May 2021, the U.S. President issued an executive order on cybersecurity that signals the U.S. government's interest in developing standards and guidelines pertaining to Information and Communication Technology supply chains, government network capabilities and requirements, and cyber threat and vulnerability remediation. Any or all of these standards and guidelines could impact how we develop hardware and software, what features our products have, and our role in helping the U.S. government respond to cyber threats and vulnerabilities.

In response to Russia's invasion of Ukraine in February 2022, the U.S. and certain allies have imposed sanctions against the Russian government and other entities, which led to our suspension of operations in Russia, Belarus, and in the Donetsk, Luhansk, and Crimea regions of Ukraine. Accordingly, we are not able to sell or deliver our products or provide ongoing support services to our customers in Russia, Belarus, and in the Donetsk, Luhansk, and Crimea regions of Ukraine. The response by Russia and other countries to these sanctions could lead to an escalation of political tensions, economic instability in the area, and cyberwarfare. These actions, as well as the effect of such actions on macroeconomic conditions, could have an adverse impact on our business and operations.

Our actual or perceived failure to adequately protect personal data could adversely affect our business, financial condition, and results of operations. A wide variety of provincial, state, national, foreign, and international laws and regulations apply to the collection, use, retention, protection, disclosure, transfer, and other processing of personal data. These privacy and data protection-related laws and regulations are evolving, extensive, and complex. Compliance with these laws and regulations can be costly and can delay or impede the development and offering of new products and services. In addition, the interpretation and application of privacy and data protection-related laws in some cases is uncertain, and our legal and regulatory obligations are subject to frequent changes, including the potential for various regulator or other governmental bodies to enact new or additional laws or regulations, to issue rulings that invalidate prior laws or regulations, or to increase penalties. Moreover, there are a number of other legislative proposals worldwide, including in the U.S. at both the federal and state level, that could impose additional and potentially conflicting obligations in areas affecting our business. Examples of recent and anticipated developments that have impacted or could impact our business include the following:

- The EU General Data Protection Regulation ("GDPR") imposes stringent data protection requirements and provides significant penalties for noncompliance. As GDPR enforcement evolves, we may find it necessary to make further changes to our handling of personal data of residents of the European Economic Area ("EEA"). The regulatory environment applicable to the handling of EEA residents' personal data, and our actions in addressing such environment, may cause us to assume additional liabilities or incur additional costs and could result in our business, operating results, and financial condition being harmed. In addition, we and our customers may face a risk of enforcement actions by data protection authorities in the EEA relating to personal data transfers to us and by us from the EEA. Any such enforcement actions could result in substantial costs and diversion of resources, distract management and technical personnel, and negatively affect our business, operating results, and financial condition.
- Data protection legislation is also becoming increasingly common in the U.S. at both the federal and state level. State laws that are being enacted may require us to modify our data processing practices and policies, adapt our goods and services, and incur substantial costs and expenses to comply. Some state laws impose civil penalties on violators and authorize private rights of action, both of which might lead to an increase in the frequency and cost associated with data breach litigation.
- The Federal Trade Commission and many state attorneys general are interpreting federal and state consumer protection laws to impose standards for the online collection, use, dissemination, and security of data.
- We may be or become subject to data localization laws mandating that data collected in a foreign country be processed and stored within that country.
- Both U.S. federal and state, and non-U.S. governments are considering laws and regulations governing artificial intelligence ("AI") and machine learning tools that leverage commercial and consumer data, such as the EU's draft Artificial Intelligence Act. If finalized, these laws may impact some of our products and services, which may cause us to incur costs and expenses in order to comply.

- Among other emerging global privacy laws, India has released its draft Digital Personal Data Protection Bill 2022. Given our significant employee and operational presence in India, passage of the bill may cause us to incur increased costs in order to implement new processes necessary to comply with the new regulation.

Our actual or perceived failure to comply with applicable laws and regulations or other obligations to which we may be subject relating to personal data, or to protect personal data from unauthorized access, use, or other processing, could result in enforcement actions and regulatory investigations against us, claims for damages by customers and other affected individuals, fines, damage to our reputation, and loss of goodwill, any of which could have a material adverse effect on our operations, financial performance, and business. Further, evolving and changing definitions of personal data and personal information, within the EU, the U.S., U.K., and elsewhere, including the classification of IP addresses, machine identification information, location data, and other information, may limit or inhibit our ability to operate or expand our business, including limiting business relationships and partnerships that may involve the sharing or uses of data, and may require significant costs, resources, and efforts in order to comply.

FINANCIAL RISKS

Our financial condition and results of operations could suffer if there is an impairment of goodwill or purchased intangible assets. As of December 31, 2022, our goodwill was \$3,734.4 million, and our purchased intangible assets were \$160.5 million. We are required to test intangible assets with indefinite lives, including goodwill, annually or, in certain instances, more frequently, and may be required to record impairment charges, which would reduce any earnings or increase any loss for the period in which the impairment was determined to have occurred. Our goodwill impairment analysis is sensitive to changes in key assumptions used in our analysis. If the assumptions used in our analysis are not realized, it is possible that an impairment charge may need to be recorded in the future. We cannot accurately predict the amount and timing of any impairment of goodwill or other intangible assets. However, any such impairment would have an adverse effect on our results of operations.

Changes in effective tax rates, the adoption of new U.S. or international tax legislation, or adverse outcomes resulting from examination of our income or other tax returns could adversely affect our results. Our future effective tax rates and the amount of our taxable income could be subject to volatility or adversely affected by the following: earnings being lower than anticipated in countries where we have lower statutory rates and higher than anticipated earnings in countries where we have higher statutory rates; changes in the valuation of our deferred tax assets and liabilities; changes in the research and development (“R&D”) tax laws applicable to us; transfer pricing adjustments related to certain acquisitions, including the license of acquired intangibles under our intercompany R&D cost sharing arrangement; costs related to intercompany restructuring; tax effects of share-based compensation; challenges to our methodologies for valuing developed technology or intercompany arrangements; limitations on the deductibility of net interest expense; or changes in tax laws, regulations, accounting principles, or interpretations thereof. Our future effective tax rate may be impacted by judicial decisions, changes in interpretation of regulations, as well as additional legislation and guidance.

Proposals to reform U.S. and foreign tax laws could significantly impact how U.S. multinational corporations are taxed on foreign earnings and could increase the U.S. corporate tax rate. Although we cannot predict whether or in what form these proposals may become law, several of the proposals considered, if enacted into law, could have an adverse impact on our effective tax rate, income tax expense, and cash flows. In August 2022, the U.S. enacted both the Inflation Reduction Act (“IRA”) and the CHIPS and Science Act into law. The former includes a corporate alternative minimum tax and an excise tax on stock buybacks. While we are awaiting further guidance from the U.S. Treasury, we have assessed preliminary guidance and do not expect either the IRA or the CHIPS and Science Act to have a material impact. Further, the Organisation for Economic Co-operation and Development (the “OECD”), an international association of 38 countries, including the U.S., has issued guidelines that change long-standing tax principles. The OECD guidelines may introduce tax uncertainty as countries amend their tax laws to adopt certain parts of the guidelines. Some countries have enacted, and others have proposed, taxes based on gross receipts applicable to digital services, regardless of profitability. Substantially all member countries of the OECD/G20 Inclusive Framework agreed to certain tax principles, including a global minimum tax of 15%. In December 2022, the EU reached unanimous agreement, in principle, to implement the global minimum tax. EU members will be required to institute local laws in 2023, which are intended to be effective for tax years beginning after 2023. Additional changes to global tax laws are likely to occur, and such changes may adversely affect our tax liability.

In addition, we are generally subject to the continuous examination of our income tax returns by the Internal Revenue Service, and other tax authorities. We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes, but the determination of our worldwide provision for income taxes and other tax liabilities requires significant judgment by management, and there are transactions where the ultimate tax determination is uncertain. Although we believe that our estimates are reasonable, the ultimate tax outcome may differ from the amounts recorded in our consolidated financial statements and may materially affect our financial results in the period or periods for which such determination is made.

We are subject to risks arising from our international operations, which may adversely affect our business, financial condition, and results of operations.

We derive a substantial portion of our revenues from our international operations, and we plan to continue expanding our business in international markets. We conduct significant sales and customer support operations directly and indirectly through our distributors and value-added resellers in countries throughout the world and depend on the operations of our contract manufacturers and suppliers that are located outside of the U.S. In addition, a portion of our R&D and our general and administrative operations are conducted outside the U.S. As a result of our international operations, we are affected by economic, business, regulatory, social, and political conditions in foreign countries, including the following:

- changes in general IT spending;
- global macroeconomic conditions, including recessionary cycles;
- the impact of the ongoing COVID-19 pandemic, and any other adverse public health developments, epidemic disease or other pandemic in the countries in which we operate or where our customers are located;
- the imposition of government controls, inclusive of critical infrastructure protection;
- changes in trade controls, economic sanctions, or other international trade regulations, which may affect our ability to import or export our products to or from various countries;
- laws that restrict sales of products that are developed, manufactured, or incorporate components or assemblies sourced from certain countries or suppliers to specific customers and industry segments, or for particular uses;
- varying and potentially conflicting laws and regulations, changes in laws and interpretation of laws, misappropriation of intellectual property and reduced intellectual property protection;
- political uncertainty, including demonstrations, that could have an impact on product delivery;
- impact of geopolitical tensions, challenges, and uncertainties as a result of armed conflicts and resulting sanctions imposed by the U.S. and other countries against governmental or other entities, that may lead to disruption, instability, and volatility in global and regional financial markets, as well as higher inflation, increases in prices of commodities, and disruptions to supply chains;
- increased tensions among the U.S., the North Atlantic Treaty Organization, and Russia that could increase the threat of armed conflict, cyberwarfare and economic instability and could disrupt or delay operations or resources in Ukraine or Russia, disrupt or delay communication with such resources or the flow of funds to support operations, or otherwise render our resources unavailable;
- fluctuations in local economies, including inflationary conditions that could make our solutions more expensive or could increase our costs of doing business in certain countries;
- fluctuations in currency exchange rates (see Quantitative and Qualitative Disclosures about Market Risk for more information);
- tax policies, treaties, or laws that could have an unfavorable business impact;
- the negotiation and implementation of free trade agreements between the U.S. and other nations;
- data privacy rules and other regulations that affect cross border data flow; and
- theft or unauthorized use or publication of our intellectual property and other confidential business information.

Any or all of these factors has or could have an adverse impact on our business, financial condition, and results of operations.

Moreover, local laws and customs in many countries differ significantly from or conflict with those in the U.S. or in other countries in which we operate. In many foreign countries, it is common for others to engage in business practices that are prohibited by our internal policies and procedures or U.S. regulations. Certain countries (such as Russia, China, and EU member nations with regard to Iran trade) prohibit individuals and companies resident in or operating within their borders to comply with foreign sanctions imposed on such countries themselves or on third countries. There can be no assurance that our employees, contractors, channel partners, and agents will not take actions in violation of our policies and procedures, which are designed to help ensure compliance with U.S. and foreign laws and policies. Violations of laws or key control policies by our employees, contractors, channel partners, or agents could result in termination of our relationship, financial reporting problems, fines, and/or penalties for us, or prohibition on the importation or exportation of our products and could have a material adverse effect on our business, financial condition, and results of operations.

There are risks associated with our outstanding and future indebtedness. As of December 31, 2022, we had \$1,700.0 million in aggregate principal amount of outstanding senior notes, which we refer to collectively as the “Notes”. In April 2019, we entered into a credit agreement (the “Credit Agreement”) with certain institutional lenders that provides for a five-year \$500.0 million unsecured revolving credit facility.

We may not be able to generate sufficient cash flow to enable us to satisfy our expenses, make anticipated capital expenditures or service our indebtedness, including the Notes. Our ability to pay our expenses, satisfy our debt obligations, refinance our debt obligations and fund planned capital expenditures is dependent upon our future performance and other factors discussed in this section. However, there can be no assurance that we will be able to manage any of these risks successfully.

The indenture that governs the Notes contains various covenants that limit our ability and the ability of our subsidiaries to, among other things: incur liens, incur sale and leaseback transactions, and consolidate or merge with or into, or sell substantially all of our assets to another person. Further, the Credit Agreement contains two financial covenants along with customary affirmative and negative covenants that include the following:

- maintenance of a leverage ratio no greater than 3.0x (provided that if a material acquisition has been consummated, we are permitted to maintain a leverage ratio no greater than 3.5x for up to four quarters) and an interest coverage ratio no less than 3.0x; and
- covenants that limit or restrict the ability of the Company and its subsidiaries to, among other things, grant liens, merge or consolidate, dispose of all or substantially all of its assets, change their accounting or reporting policies, change their business and incur subsidiary indebtedness, in each case subject to customary exceptions for a credit facility of this size and type.

As a result of these covenants, we are limited in the manner in which we can conduct our business, and we may be unable to engage in favorable business activities or finance future operations or capital needs. Accordingly, these restrictions may limit our ability to successfully operate our business. In addition, under applicable U.S. tax laws and regulations, there are limitations on the deductibility of net business interest expenses. As a result, if our taxable income were to decline, we may not be able to fully deduct our net interest expense, which could have a material impact on our business.

Further, we receive debt ratings from the major credit rating agencies in the U.S. Factors that influence our credit ratings include financial strength as well as transparency with rating agencies and timeliness of financial reporting. There can be no assurance that we will be able to maintain our credit ratings and failure to do so could adversely affect our cost of funds and related margins, liquidity, competitive position and access to capital markets.

Our investments are subject to risks, which may cause losses and affect the liquidity of these investments. We have substantial investments in asset-backed and mortgage-backed securities, certificates of deposit, commercial paper, corporate debt securities, foreign government debt securities, money market funds, mutual funds, time deposits, U.S. government agency securities, and U.S. government securities. We also have investments in privately-held companies. Certain of our investments are subject to general credit, liquidity, market, sovereign debt, and interest rate risks. Our future investment income may fall short of expectations due to changes in interest rates or if the decline in fair value related to creditworthiness of our publicly traded debt investments is judged to be material. In addition, should financial market conditions worsen in the future, investments in some financial instruments may be subject to risks arising from market liquidity and credit concerns, which could have a material adverse effect on our liquidity, financial condition, and results of operations.

GENERAL RISK FACTORS

Failing to adequately evolve our financial and managerial control and reporting systems and processes, or any weaknesses in our internal controls may adversely affect investor perception, and our stock price. We will need to continue to improve our financial and managerial control and our reporting systems and procedures to manage and grow our business effectively in the future. We are required to assess the effectiveness of our internal control over financial reporting annually and to disclose in our filing if such controls were unable to provide assurance that a material error would be prevented or detected in a timely manner. If in the future, our internal controls over financial reporting are determined to not be effective, resulting in a material weakness, investor perceptions regarding the reliability of our financial statements may be adversely affected, which could cause a decline in the market price of our stock and otherwise negatively affect our liquidity and financial condition.

Our amended and restated bylaws provide that the Court of Chancery of the State of Delaware will be the sole and exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum. The exclusive forum provisions in our bylaws may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our current or former directors, officers, or other employees, which may discourage such lawsuits against us and our current or former directors, officers, and other employees. Alternatively, if a court were to find the exclusive forum provisions contained in our bylaws to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could have a material and adverse impact on our business.

ITEM 1B. Unresolved Staff Comments

Not applicable.

ITEM 2. *Properties*

Our corporate headquarters is located at an owned site in Sunnyvale, California. As of December 31, 2022, we leased space (including offices and other facilities) in locations throughout the United States and in various places outside the United States. We believe that our current offices and other facilities are in good condition and appropriately support our current business needs.

ITEM 3. *Legal Proceedings*

The information set forth under the heading “Legal Proceedings” in Note 15, *Commitments and Contingencies*, in Notes to Consolidated Financial Statements in Item 8 of Part II of this Report, is incorporated herein by reference.

ITEM 4. *Mine Safety Disclosures*

Not applicable.

PART II

ITEM 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information

Our common stock is traded on the New York Stock Exchange, or NYSE, under the symbol JNPR.

Stockholders

As of February 8, 2023, there were 540 stockholders of record of our common stock, and we believe a substantially greater number of beneficial owners hold shares through brokers, banks, or other nominees.

Dividends

The declaration and amount of any future cash dividends are at the discretion of the Board of Directors and will depend on our financial performance, economic outlook, and any other relevant considerations.

Purchases of Equity Securities by the Issuer and Affiliated Purchasers

The following table provides stock repurchase activity during the three months ended December 31, 2022 (in millions, except per share amounts):

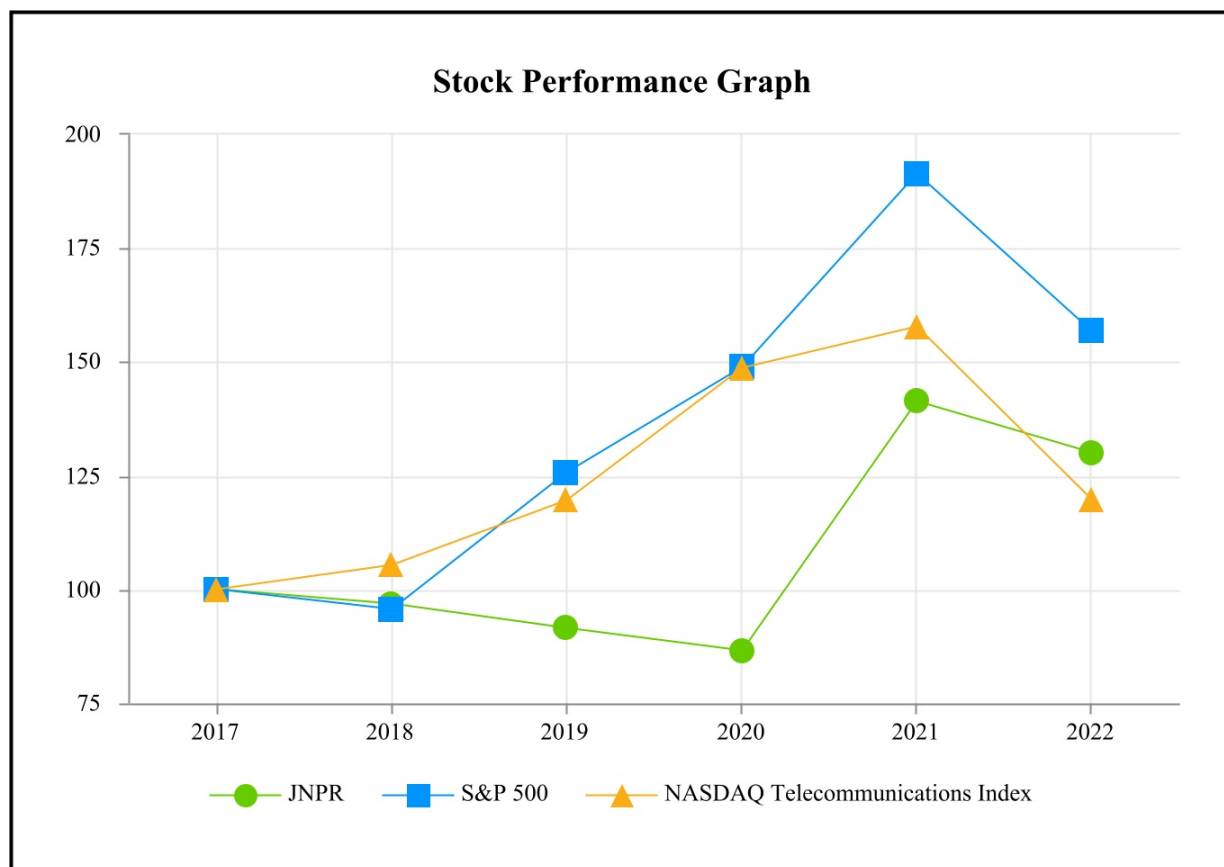
Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ^(*)	Maximum Dollar Value of Shares that May Still Be Purchased Under the Plans or Programs ^(*)
October 1 - October 31, 2022	—	\$ —	—	\$ 679.5
November 1 - November 30, 2022	2.9	\$ 30.00	2.9	\$ 592.0
December 1 - December 31, 2022	—	\$ —	—	\$ 592.0
Total	<u>2.9</u>		<u>2.9</u>	

^(*) Shares were repurchased during the periods set forth in the table above under our stock repurchase program, which had been approved by the Board and authorized us to purchase an aggregate of up to \$3.0 billion of our common stock. Future share repurchases under our capital return plan will be subject to a review of the circumstances in place at that time and will be made from time to time in private transactions or open market purchases as permitted by securities laws and other legal requirements. This program may be discontinued at any time. See Note 10, *Equity*, in Notes to Consolidated Financial Statements in Item 8 of Part II of this Report for further discussion of our share repurchase program.

Company Stock Performance

The information contained in this Company Stock Performance section shall not be deemed to be incorporated by reference into other U.S. Securities and Exchange Commission, or SEC, filings; nor deemed to be soliciting material or filed with the Commission or subject to Regulation 14A or 14C or subject to Section 18 of the Exchange Act. The comparisons in the performance graph below are based upon historical data and are not indicative of, or intended to forecast, future performance of our common stock.

The performance graph below shows the cumulative total stockholder return over a five-year period assuming the investment of \$100 on December 31, 2017, in each of Juniper Networks' common stock, the Standard & Poor's 500 Stock Index ("S&P 500"), and the NASDAQ Telecommunications Index. Total stockholder return assumes reinvestment of all dividends.



	As of December 31,					
	2017	2018	2019	2020	2021	2022
JNPR	\$ 100.00	\$ 96.94	\$ 91.49	\$ 86.56	\$ 141.42	\$ 129.99
S&P 500	\$ 100.00	\$ 95.61	\$ 125.70	\$ 148.81	\$ 191.48	\$ 156.77
NASDAQ Telecommunications Index	\$ 100.00	\$ 105.27	\$ 119.63	\$ 148.58	\$ 157.71	\$ 119.73

ITEM 6. [Reserved]

ITEM 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations*

The following discussion should be read with the Business section in Item 1 of Part I and the Consolidated Financial Statements and the related notes in Item 8 of Part II of this Report. We intend the discussion of our financial condition and results of operations to provide information that will assist the reader in understanding our Consolidated Financial Statements, the changes in certain key items in those financial statements from year to year, and the primary factors that accounted for those changes, as well as how certain accounting estimates affect our Consolidated Financial Statements. To aid in understanding our operating results for the periods covered by this Report, we have provided an executive overview, which includes a financial results and key performance metrics overview and a discussion of material events and uncertainties known to management such as the COVID-19 pandemic and global component shortage. These sections should be read in conjunction with the more detailed discussion and analysis of our consolidated financial condition and results of operations in this Item 7, our “Risk Factors” section included in Item 1A of Part I, and our Consolidated Financial Statements and notes thereto included in Item 8 of Part II of this Report.

Executive Overview

Financial Results and Key Performance Metrics Overview

The following table provides an overview of our financial results and key financial metrics (in millions, except per share amounts, percentages, and days sales outstanding, or DSO):

	As of and for the Years Ended December 31,			
	2022	2021	\$ Change	% Change
Net revenues	\$ 5,301.2	\$ 4,735.4	\$ 565.8	12 %
Gross margin	\$ 2,958.3	\$ 2,740.1	\$ 218.2	8 %
Percentage of net revenues	55.8 %	57.9 %		
Operating income	\$ 519.1	\$ 387.5	\$ 131.6	34 %
Percentage of net revenues	9.8 %	8.2 %		
Net income	\$ 471.0	\$ 252.7	\$ 218.3	86 %
Percentage of net revenues	8.9 %	5.3 %		
Net income per share				
Basic	\$ 1.46	\$ 0.78	\$ 0.68	87 %
Diluted	\$ 1.43	\$ 0.76	\$ 0.67	88 %
Operating cash flows	\$ 97.6	\$ 689.7	\$ (592.1)	(86)%
Stock repurchase plan activity	\$ 299.7	\$ 433.3	\$ (133.6)	(31)%
Cash dividends declared per common stock	\$ 0.84	\$ 0.80	\$ 0.04	5 %
DSO ⁽¹⁾	76	69	7	10 %
Deferred revenue:				
Deferred product revenue	\$ 108.8	\$ 129.1	\$ (20.3)	(16)%
Deferred service revenue	1,554.3	1,284.5	269.8	21 %
Total	\$ 1,663.1	\$ 1,413.6	\$ 249.5	18 %
Deferred revenue from customer solutions ⁽²⁾	\$ 632.8	\$ 442.1	\$ 190.7	43 %
Deferred revenue from hardware maintenance and professional services	1,030.3	971.5	58.8	6 %
Total	\$ 1,663.1	\$ 1,413.6	\$ 249.5	18 %

⁽¹⁾ DSO is for the fourth quarter ended December 31, 2022, and 2021.

⁽²⁾ Includes deferred revenue from hardware solutions, software licenses, software support and maintenance and SaaS offerings sold in our Automated WAN Solutions, Cloud-Ready Data Center, and AI-Driven Enterprise customer solution categories.

- *Net Revenues:* Net revenues increased during 2022 compared to 2021 across all of our verticals, customer solutions, and geographies. Service net revenues increased primarily due to strong sales of software subscriptions.
- *Gross Margin:* Gross margin as a percentage of net revenues decreased during 2022 compared to 2021. Product gross margin decreased primarily due to incremental component costs due to supply chain constraints and product mix, partially offset by higher software revenue and pricing actions. The decrease in product gross margin was partially offset by the increase in service gross margin, which was primarily due to higher revenue and lower service delivery costs.
- *Operating Margin:* Operating income as a percentage of net revenues increased primarily due to higher revenue, partially offset by the drivers described in the gross margin discussion above and higher personnel-related expenses driven by an increase in headcount.

- *Operating Cash Flows:* Net cash provided by operations decreased primarily due to higher supplier payments for inventory and contract manufacturer deposits in order to address significant industry-wide supply constraints. As of December 31, 2022, our inventory balance was \$642.9 million, an increase of \$358.7 million from the prior year, and our contract manufacturer deposit balance was \$434.7 million, an increase of \$210.9 million from the prior year. We also had approximately \$140 million in tax payments attributed to the capitalization and amortization requirements for R&D expenditures pursuant to the Tax Act. The increase in payments was partially offset by higher collections from increased invoicing activity.
- *Capital Return:* We continue to return capital to our stockholders. During 2022, we repurchased a total of 9.2 million shares of our common stock in the open market at an average price of \$32.32 per share for an aggregate purchase price of \$299.7 million. During 2022, we paid quarterly dividends of \$0.21 per share, for an aggregate amount of \$270.4 million.
- *DSO:* DSO is calculated as the ratio of ending accounts receivable, net of allowances, divided by average daily net revenues for the preceding 90 days. DSO increased, primarily driven by higher overall invoicing, partially offset by higher revenue.
- *Deferred Revenue:* Total deferred revenue increased, primarily driven by an increase in deferrals of SaaS and software license subscriptions.

Global Component Shortage and COVID-19 Pandemic Update

We continue to monitor and evaluate the impact of the COVID-19 pandemic on our business operations on a regional, national, and global basis. In 2022, we reopened our facilities world-wide for office-based employees in a new office/hybrid collaboration model. We do not expect the pandemic to have a substantial net impact on our consolidated operating results or our liquidity position.

We have a global supply chain, which is primarily composed of manufacturing partners and component suppliers. Global supply chain constraints in the wake of the COVID-19 pandemic have resulted in disruption to our production schedule due to both constrained manufacturing capacity as well as component parts shortages as our component vendors were also facing manufacturing challenges. These challenges resulted in extended lead times of certain products to our customers, increased logistics costs, and impacted the volume of products we were able to deliver, which negatively impacted our ability to recognize revenue. To meet our customer needs, our supply chain team has been executing on a strong risk mitigation plan to resolve our challenges, further enhance our supply chain resiliency, and mitigate the effects of disruptions including, multi-sourcing, pre-ordering components, transforming our logistics network, prioritizing critical customers, and partnering on solutions that limit disruptions to our operations while ensuring the safety of our employees, partners, and suppliers.

Similar to others, we continue to experience elevated component costs and inventory balances. These have had a negative impact on our gross margin and operating cash flow. We believe some of the strength in previous product orders was attributable to these industry supply chain challenges that were causing certain customers to place orders early in an effort to secure supply when needed, which resulted in significantly elevated backlog levels. In the third and fourth quarter of 2022, we saw a decline in product orders as buying patterns normalized and customers consumed previously placed orders. We anticipate backlog to remain at elevated levels but expect it to decline as supply improves.

We believe the extended lead times and increased component and logistic costs will modestly improve through the course of 2023. We have taken pricing actions to mitigate some of the effects of rising component costs and general inflationary pressures arising from supply chain constraints as well as overall macroeconomic conditions, and expect these actions to have a more substantial impact in 2023. While the situation is dynamic, at this point in time, we believe we will have access to sufficient supplies of semiconductors and other components and will be able to meet our full-year financial forecast. See the section entitled “Risk Factors” in Item 1A of Part II of this Report for further discussion of this risk.

Critical Accounting Estimates

The preparation of the financial statements and related disclosures in conformity with U.S. GAAP requires us to make judgments, assumptions, and estimates that affect the amounts reported in the Consolidated Financial Statements and the accompanying notes. We base our estimates and assumptions on current facts, historical experience, and various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. Note 1, *Description of Business, Basis of Presentation and Significant Accounting Policies*, in Notes to Consolidated Financial Statements in Item 8 of Part II of this Report, describes the significant accounting policies and methods used in the preparation of the Consolidated Financial Statements.

The below accounting policies require significant judgments, assumptions, and estimates used in the preparation of the Consolidated Financial Statements and actual results could differ materially from the amounts reported based on these policies.

- *Revenue Recognition*: We enter into contracts to sell our products and services, and while most of our sales agreements contain standard terms and conditions, there are agreements that contain non-standard terms and conditions and include promises to transfer multiple goods or services. As a result, significant interpretation and judgment are sometimes required to determine the appropriate accounting for these transactions, including: (1) whether performance obligations are considered distinct that should be accounted for separately versus together, how the price should be allocated among the performance obligations, and when to recognize revenue for each performance obligation; (2) developing an estimate of the stand-alone selling price, or SSP, of each distinct performance obligation; (3) combining contracts that may impact the allocation of the transaction price between product and services; and (4) estimating and accounting for variable consideration, including rights of return, rebates, price protection, expected penalties or other price concessions as a reduction of the transaction price.

Our estimates of SSP for each performance obligation require judgment that considers multiple factors, including, but not limited to, historical discounting trends for products and services, pricing practices in different geographies and through different sales channels, gross margin objectives, internal costs, competitor pricing strategies, and industry technology lifecycles. Our estimates for rights of return, rebates, and price protection are based on historical sales returns and price protection credits, specific criteria outlined in customer contracts or rebate agreements, and other factors known at the time. Our estimates for expected penalties and other price concessions are based on historical trends and expectations regarding future incurrence.

Changes in judgments with respect to these assumptions and estimates could impact the timing or amount of revenue recognition.

- *Income Taxes*: We are subject to income taxes in the United States and numerous foreign jurisdictions. We apply the authoritative accounting guidance for uncertainty in income taxes to all income tax positions, including the potential recovery of previously paid taxes, which if settled unfavorably could adversely affect our provision for income taxes. Significant judgment is required in evaluating our uncertain tax positions and determining our taxes including the interpretation and application of GAAP and complex domestic and international tax laws and matters related to the allocation of international taxation rights between countries. In addition, we are subject to the continuous examination of our income tax returns by the IRS and other tax authorities. We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes. Although we believe our reserves are reasonable, no assurance can be given that the final tax outcome of these matters will not be different from that which is reflected in our historical income tax provisions and accruals. We adjust these reserves in light of changing facts and circumstances, such as the closing of a tax audit or the refinement of an estimate. To the extent that the final tax outcome of these matters is different than the amounts recorded, such differences will affect the provision for income taxes in the period in which such determination is made.

Significant judgment is also required in determining any valuation allowance recorded against deferred tax assets. In assessing the need for a valuation allowance, we consider all available evidence, including past operating results, estimates of future taxable income, and the feasibility of tax planning strategies. In the event that we change our determination as to the amount of deferred tax assets that can be realized, we adjust our valuation allowance with a corresponding impact to the provision for income taxes in the period in which such determination is made.

Recent Accounting Pronouncements

See Note 1, *Description of Business, Basis of Presentation and Significant Accounting Policies*, in Notes to the Consolidated Financial Statements in Item 8 of Part II of this Report for a full description of recent accounting pronouncements, including the expected dates of adoption and estimated effects on financial condition and results of operations, which is incorporated herein by reference.

Results of Operations

A discussion regarding our financial condition and results of operations for the fiscal year ended December 31, 2022 compared to 2021 is presented below. A discussion regarding our financial condition and results of operations for the fiscal year ended December 31, 2021 compared to 2020 can be found under Item 7 of our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on February 11, 2022, which is available on the SEC's website at www.sec.gov and our Investor Relations website at <http://investor.juniper.net>.

Revenues

The following table presents net revenues by customer solution, customer vertical, and geographic region (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Customer Solutions:				
Automated WAN Solutions	\$ 1,865.3	\$ 1,665.0	\$ 200.3	12 %
<i>Percentage of net revenues</i>	35.2 %	35.2 %		
Cloud-Ready Data Center	878.9	727.1	151.8	21 %
<i>Percentage of net revenues</i>	16.6 %	15.4 %		
AI-Driven Enterprise	1,026.2	830.4	195.8	24 %
<i>Percentage of net revenues</i>	19.4 %	17.5 %		
Hardware Maintenance and Professional Services	1,530.8	1,512.9	17.9	1 %
<i>Percentage of net revenues</i>	28.8 %	31.9 %		
Total net revenues	<u>\$ 5,301.2</u>	<u>\$ 4,735.4</u>	<u>\$ 565.8</u>	12 %
Customer Verticals:				
Cloud	\$ 1,393.6	\$ 1,228.0	\$ 165.6	13 %
<i>Percentage of net revenues</i>	26.3 %	25.9 %		
Service Provider	1,891.2	1,839.1	52.1	3 %
<i>Percentage of net revenues</i>	35.7 %	38.8 %		
Enterprise	2,016.4	1,668.3	348.1	21 %
<i>Percentage of net revenues</i>	38.0 %	35.3 %		
Total net revenues	<u>\$ 5,301.2</u>	<u>\$ 4,735.4</u>	<u>\$ 565.8</u>	12 %
Geographic Regions:				
Americas:				
United States	\$ 2,931.6	\$ 2,426.9	\$ 504.7	21 %
Other	225.2	222.2	3.0	1 %
Total Americas	3,156.8	2,649.1	507.7	19 %
<i>Percentage of net revenues</i>	59.6 %	55.9 %		
EMEA	1,370.0	1,314.5	55.5	4 %
<i>Percentage of net revenues</i>	25.8 %	27.8 %		
APAC	774.4	771.8	2.6	— %
<i>Percentage of net revenues</i>	14.6 %	16.3 %		
Total net revenues	<u>\$ 5,301.2</u>	<u>\$ 4,735.4</u>	<u>\$ 565.8</u>	12 %

Total net revenues increased across all customer solutions mainly driven by higher sales volume.

The Automated WAN Solutions and the Cloud-Ready Data Center revenue increased across all verticals.

The AI-Driven Enterprise revenue increase was primarily driven by Enterprise and Service Provider, partially offset by a decline in Cloud.

Also, software and security products and services represent key areas of our strategic focus that are critical components to our business success. Software and related service offerings include revenue from software license, software support and maintenance and SaaS contracts. Total security offerings include revenue from our complete portfolio of hardware and software security products, including SD-WAN solutions, as well as services related to our security solutions.

The following table presents net revenues from software and security products and services (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Software and Related Services	\$ 994.2	\$ 760.9	\$ 233.3	31 %
<i>Percentage of net revenues</i>	18.8 %	16.1 %		
Total Security	\$ 628.6	\$ 656.9	\$ (28.3)	(4)%
<i>Percentage of net revenues</i>	11.9 %	13.9 %		

Gross Margins

The following table presents gross margins (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Product gross margin	\$ 1,778.2	\$ 1,668.7	\$ 109.5	7 %
<i>Percentage of product revenues</i>	50.2 %	54.2 %		
Service gross margin	1,180.1	1,071.4	108.7	10 %
<i>Percentage of service revenues</i>	67.0 %	64.6 %		
Total gross margin	\$ 2,958.3	\$ 2,740.1	\$ 218.2	8 %
<i>Percentage of net revenues</i>	55.8 %	57.9 %		

Our gross margins as a percentage of net revenues have been and will continue to be affected by a variety of factors, including general inflationary pressures, the mix and average selling prices of our products and services, new product introductions and enhancements, manufacturing, component and logistics costs, expenses for inventory obsolescence and warranty obligations, cost of support and service personnel, customer mix as we continue to expand our footprint with certain strategic customers, the mix of distribution channels through which our products and services are sold, and import tariffs. For example, our logistics and other supply chain-related costs have increased due to the ongoing global component shortage. For more information on the impact of supply chain constraints on our business, see the “Risk Factors” section of Item 1A of Part I of this Report.

Product gross margin

Product gross margin as a percentage of product revenues decreased primarily due to \$64.8 million in incremental component costs due to supply chain constraints and product mix, partially offset by higher software revenue and pricing actions. We continue to undertake specific efforts to address certain factors impacting our product gross margin. These efforts include performance and quality improvements through engineering to increase value across our products; optimizing our supply chain and service business; pricing management; and increasing software and solution sales.

Service gross margin

Service gross margin as a percentage of service net revenues increased primarily due to higher revenue and lower delivery costs.

Operating Expenses

The following table presents operating expenses (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Research and development	\$ 1,036.1	\$ 1,007.2	\$ 28.9	3 %
Percentage of net revenues	19.5 %	21.3 %		
Sales and marketing	1,133.4	1,052.7	80.7	8 %
Percentage of net revenues	21.4 %	22.2 %		
General and administrative	249.5	249.8	(0.3)	— %
Percentage of net revenues	4.7 %	5.3 %		
Restructuring charges	20.2	42.9	(22.7)	(53)%
Percentage of net revenues	0.4 %	0.9 %		
Total operating expenses	\$ 2,439.2	\$ 2,352.6	\$ 86.6	4 %
Percentage of net revenues	46.0 %	49.7 %		

Our operating expenses have historically been driven in large part by personnel-related costs, including salaries and wages; commissions and bonuses, which we refer to collectively as variable compensation; benefits; share-based compensation; and travel. Facility and information technology, or IT, departmental costs are allocated to each department based on usage and headcount. We had a total of 10,901 and 10,191 employees as of December 31, 2022, and 2021, respectively. Our headcount increased by 710 employees, or 7%, primarily from hiring for the research and development and sales and marketing organizations. We expect inflationary pressures to impact operating expense, at least for the next twelve months.

Research and development

Research and development expense, or R&D, increased primarily due to higher personnel-related costs driven by headcount growth.

Sales and marketing

Sales and marketing expense, or S&M, increased primarily due to higher personnel-related costs driven by headcount growth, higher variable compensation and higher travel expenses, as well as higher costs associated with marketing initiatives.

Restructuring charges

Restructuring charges decreased primarily due to lower contract termination, facility consolidation, severance and other exit-related costs recorded in 2022 under the 2022 Restructuring Plan, compared to the charges recorded in 2021 under the 2021 Restructuring Plan.

Gain on Divestiture

The following table presents the gain on divestiture (in millions, except percentages):

	Year Ended December 31,			
	2022	2021	\$ Change	% Change
Gain on divestiture	\$ 45.8	\$ —	\$ 45.8	N/M
Percentage of net revenues	0.9 %	— %		

N/M - Not meaningful

In 2022, we recognized a gain of \$45.8 million related to the divestiture of our silicon photonics business for cash consideration of \$90.0 million and a 25% equity interest in the business. For further discussion of the divestiture, see Note 2, *Divestiture*, in Notes to Consolidated Financial Statements in Item 8 of Part II of this Report.

Loss on Extinguishment of Debt

The following table presents the loss on extinguishment of debt (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Loss on extinguishment of debt	\$ —	\$ (60.6)	\$ 60.6	N/M
Percentage of net revenues	— %	(1.3)%		

N/M - Not meaningful

In 2021, we incurred a loss on extinguishment of debt of \$60.6 million related to the redemption of our Senior Notes maturing in 2024 and June 2025. The loss primarily consisted of a premium on the early redemption and acceleration of unamortized debt discount and fees on the redeemed debt.

Other Expense, Net

The following table presents other expense, net (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Interest income	\$ 19.6	\$ 14.9	\$ 4.7	32 %
Interest expense	(58.6)	(50.8)	(7.8)	15 %
Gain on investments, net	8.8	17.6	(8.8)	(50)%
Other	1.6	1.5	0.1	7 %
Total other expense, net	\$ (28.6)	\$ (16.8)	\$ (11.8)	70 %
Percentage of net revenues	(0.5)%	(0.4)%		

Interest income primarily includes interest earned on our cash, cash equivalents, and investments. Interest expense primarily includes interest, net of capitalized interest expense, from long-term debt and customer financing arrangements. Gain on investments, net, primarily includes gains (losses) from the sale of investments in public and privately-held companies, and any observable changes in fair value and impairment charges recorded on these investments. Other typically consists of foreign exchange gains and losses and other non-operational income and expense items.

Total other expense, net, increased primarily due to higher interest expense related to our debt portfolio and lower net gains from equity investments, partially offset by higher interest income related to our fixed income investment portfolio, as a result of higher yields.

Income Tax Provision

The following table presents income tax provision (in millions, except percentages):

	Years Ended December 31,			
	2022	2021	\$ Change	% Change
Income tax provision	\$ 60.5	\$ 57.4	\$ 3.1	5 %
Effective tax rate	11.3 %	18.5 %		

The effective tax rate for fiscal year 2022 was lower than fiscal year 2021, primarily due to the net difference in discrete items in fiscal year 2022 compared to fiscal year 2021 and a change in the geographic mix of earnings. For a complete reconciliation of our effective tax rate to the U.S. federal statutory rate of 21% and further explanation of our income tax provision, see Note 13, *Income Taxes*, in the Notes to Consolidated Financial Statements in Item 8 of Part II of this Report.

Beginning January 1, 2022, as a result of the Tax Cuts and Jobs Act of 2017 ("Tax Act"), all our U.S. and non-U.S. based R&D expenditures are being capitalized and amortized over five and fifteen years, respectively. In 2022, the new regulations resulted in incremental cash tax payments of approximately \$140 million and a reduction in our effective tax rate due to increased benefit from U.S. foreign-derived intangible income. In 2023, the new regulations are expected to result in incremental cash tax payments of up to \$25 million related to 2022. The actual impact on future cash flow from operations will primarily depend on if and when this legislation is deferred, modified, or repealed by the U.S. Congress, including if retroactively, and the amount of R&D expenditures paid or incurred in those respective years. We estimate the largest impact will have been to 2022 cash flow from operations and that the impact in future years should gradually decrease over the five- and fifteen-year amortization periods. The Company's future effective tax rate may be impacted.

Liquidity and Capital Resources

Liquidity and capital resources may be impacted by our operating activities as well as acquisitions, investments in strategic relationships, repurchases of shares of our common stock, and payment of cash dividends on our common stock. Since the enactment of the Tax Act, we have repatriated a significant amount of cash from outside of the U.S., and plan to continue to repatriate on an ongoing basis. We intend to use the repatriated cash to invest in the business, support value-enhancing mergers and acquisitions, and fund our return of capital to stockholders.

Based on past performance and current expectations, we believe that our existing cash and cash equivalents, short-term, and long-term investments, cash generated from operations together with the revolving credit facility and our ability to access to capital markets will be sufficient to fund our operations; planned stock repurchases and dividends; capital expenditures; purchase commitments and other liquidity requirements; and anticipated growth for at least the next twelve months and thereafter for the foreseeable future. However, our future liquidity and capital requirements may vary materially from those now planned depending on many factors, including, but not limited to, our growth rate; the timing and amount we spend to support development efforts; the expansion of sales and marketing activities; the introduction of new and enhanced products and services; the costs to acquire or invest in businesses and technologies; an increase in manufacturing or component costs; and the risks and uncertainties detailed in the “Risk Factors” section of Item 1A of Part I of this Report.

The Company's material cash requirements include the following contractual and other obligations.

Debt

As of December 31, 2022, we had outstanding fixed-rate senior notes with varying maturities for an aggregate principal amount of \$1,700.0 million (collectively the “Notes”), none of which is payable within 12 months. Future interest payments associated with the Notes total \$650.0 million, with \$55.4 million payable within 12 months.

Purchase Commitments with Contract Manufacturers and Suppliers

In order to reduce manufacturing lead times and in the interest of having access to adequate component supply, we enter into agreements with contract manufacturers and certain suppliers to procure inventory based on the Company's requirements. A significant portion of the Company's purchase commitments arising from these agreements consists of firm and non-cancelable commitments. In certain instances, these agreements allow the Company the option to cancel, reschedule, and adjust its requirements based on the Company's business needs prior to firm orders being placed. As of December 31, 2022, we had purchase commitments of \$2,476.3 million, with \$2,101.1 million payable within 12 months.

Tax

Our transition tax liability represents future cash payments on accumulated foreign earnings of subsidiaries as a result of the Tax Act. The Company has elected to pay its transition tax, net of applicable tax refunds, over the eight-year period provided in the Tax Act. As of December 31, 2022, the balance of our transition tax obligation was \$250.6 million, with \$52.1 million payable within 12 months.

As of December 31, 2022, the Company had \$81.0 million included in long-term income taxes payable on the Consolidated Balance Sheets for unrecognized tax positions. At this time, the Company is unable to make a reasonably reliable estimate of the timing of payments related to this amount due to uncertainties in the timing of tax audit outcomes.

In 2022, we made tax payments of approximately \$253.2 million of which approximately \$140 million can be attributed to the capitalization and amortization requirements for R&D expenditures pursuant to the Tax Act.

Leases

The Company leases its facilities and certain equipment under non-cancelable operating leases that have remaining lease terms of 1 to 9 years and 1 to 4 years, respectively. As of December 31, 2022, we had fixed lease payment obligations of \$177.3 million, with \$48.7 million payable within 12 months.

Unconditional Purchase Obligations - Other

Unconditional purchase obligations consist of agreements that include firm and non-cancelable terms to transfer funds in the future for fixed or minimum amounts or quantities to be purchased at fixed or minimum prices. As of December 31, 2022, we had unconditional purchase obligations of \$96.8 million, with \$48.4 million payable within 12 months. See Note 15, *Commitments and Contingencies*, in the Notes to Consolidated Financial Statements in Item 8 of Part II of this Report for further discussion of our unconditional purchase obligations.

Guarantees

We have financial guarantees consisting of third-party financing arrangements extended to end-user customers and standby letters of credit for certain lease facilities, insurance programs, and customs of \$27.4 million as of December 31, 2022.

Capital Return

In addition to our cash requirements, we have a capital return program authorized by the Board of Directors (the "Board"). In January 2018, the Board approved a \$2.0 billion share repurchase program, which we refer to as the 2018 Stock Repurchase Program. In October 2019, the Board authorized a \$1.0 billion increase to the 2018 Stock Repurchase Program for a total of \$3.0 billion.

During the fiscal year ended December 31, 2022, we repurchased 9.2 million shares of our common stock in the open market at an average price of \$32.32 per share for an aggregate purchase price of \$299.7 million, under the 2018 Stock Repurchase Program. As of December 31, 2022, there was \$0.6 billion of authorized funds remaining under the 2018 Stock Repurchase Program.

Future share repurchases under the 2018 Stock Repurchase Program will be subject to a review of the circumstances at that time and will be made from time to time in private transactions or open market purchases as permitted by securities laws and other legal requirements. Our 2018 Stock Repurchase Program may be discontinued at any time. See Note 10, *Equity*, in the Notes to Consolidated Financial Statements in Item 8 of Part II of this Report for further discussion of our share purchase program.

In addition, any future dividends, and the establishment of record and payment dates, are subject to approval by the Board or an authorized committee thereof. See Note 16, *Subsequent Events*, in the Notes to Consolidated Financial Statements in Item 8 of Part II of this Report for discussion of our dividend declaration subsequent to December 31, 2022.

ITEM 7A. Quantitative and Qualitative Disclosures about Market Risk

Interest Rate Risk

Interest Income Risk - Available-for-Sale Fixed Income Securities

The primary objectives of our investment activities are, in order of priority, to preserve principal, maintain liquidity, and maximize yield. The value of our investments is subject to market price volatility. To minimize this risk, we maintain an investment portfolio of various holdings, types, and maturities, which includes asset-backed and mortgage-backed securities, certificates of deposit, commercial paper, corporate debt securities, foreign government debt securities, time deposits, U.S. government agency securities, and U.S. government securities. At any time, a rise in interest rates could have a material adverse impact on the fair value of our investment portfolio. Conversely, a decline in interest rates could have a material impact on interest income from our investment portfolio. We do not currently hedge these interest rate exposures.

The following tables present hypothetical changes in fair value of our available-for-sale fixed income securities held as of December 31, 2022 and 2021 that are sensitive to changes in interest rates assuming immediate parallel shifts in the yield curve of 50 basis points, or BPS, 100 BPS and 150 BPS, which are representative of the historical movements in the Federal Funds Rate (in millions):

	- 150 BPS	- 100 BPS	- 50 BPS	Fair Value as of December 31, 2022	+ 50 BPS	+ 100 BPS	+ 150 BPS
Available-for-sale fixed income securities	\$ 415.8	\$ 414.8	\$ 413.8	\$ 412.8	\$ 411.8	\$ 410.8	\$ 409.8

	- 150 BPS	- 100 BPS	- 50 BPS	Fair Value as of December 31, 2021	+ 50 BPS	+ 100 BPS	+ 150 BPS
Available-for-sale fixed income securities	\$ 820.2	\$ 816.7	\$ 813.5	\$ 810.1	\$ 806.7	\$ 803.4	\$ 800.1

Interest rate swaps

The Company uses interest rate swaps to convert certain of our fixed interest rate notes to floating interest rates based on the London InterBank Offered Rate (LIBOR), resulting in a net increase or decrease in interest expense. These swaps hedge against the interest rate risk exposures of the designated debt issuances. As of December 31, 2022 and December 31, 2021, the aggregate notional amount of the interest rate swaps was \$600.0 million. As of December 31, 2022, the fair value of the interest rate swaps resulted in a liability of \$87.4 million. As of December 31, 2021, the fair value of the interest rate swaps resulted in an asset of \$2.1 million and a liability of \$2.5 million. A hypothetical 10% change in the interest rates as of December 31, 2022 would not have had a material impact to our operating results or the fair value of the interest rate swaps.

Interest Rate Locks

The Company uses interest rate locks, which hedge the impact of changes in the benchmark interest rate to future interest payments and will be terminated upon closing of our future debt issuance. We record changes in the fair value of these cash flow hedges of interest rate risk in accumulated other comprehensive income (loss) until the anticipated refinancing. Upon refinancing of our debt and termination of the derivative instruments, the fair value of these interest rate locks will be amortized over the term of our new debt to interest expense. As of December 31, 2022 and December 31, 2021, the aggregate notional amount of the interest rate locks was \$650.0 million. As of December 31, 2022 and December 31, 2021, the fair value of these contracts resulted in an asset of \$125.4 million and \$45.0 million, respectively. A hypothetical 10% change in the interest rates as of December 31, 2022 would not have had a material impact to the fair value of the interest rate locks.

Foreign Currency Risk and Foreign Exchange Forward Contracts

Periodically, we use derivatives to hedge against fluctuations in foreign exchange rates. We do not enter into derivatives for speculative or trading purposes.

We use foreign currency forward contracts to mitigate variability in gains and losses generated from the re-measurement of certain monetary assets and liabilities denominated in foreign currencies. These foreign exchange forward contracts typically have maturities of approximately one to four months.

Our sales and costs of product revenues are primarily denominated in U.S. Dollars. Our cost of service revenue and operating expenses are denominated in U.S. Dollars as well as other foreign currencies, including the British Pound, Chinese Yuan, Euro, and the Indian Rupee. Approximately 79% of such costs and operating expenses are denominated in U.S. Dollars. Periodically, we use foreign currency forward and/or option contracts to hedge certain forecasted foreign currency transactions to reduce variability in cost of service revenue and operating expenses caused by non-U.S. Dollar denominated operating expense and costs. In designing a specific hedging approach, we consider several factors, including offsetting exposures, significance of exposures, costs associated with entering into a particular hedge instrument, and potential effectiveness of the hedge. These derivatives are designated as cash flow hedges and have maturities of thirty-six months or less. The change in foreign currency exchange rates compared to prior periods resulted in a reduction to our operating expenses including cost of service revenue, research and development, sales and marketing, and general and administrative expenses, by \$69.4 million, or 1.7%, for the year ended December 31, 2022 and an increase by \$28.2 million, or 0.6%, for the year ended December 31, 2021. See Note 5, *Derivative Instruments*, in Notes to Consolidated Financial Statements in Item 8 of Part II of this Report for further discussion of our derivative and hedging activity.

We have performed a sensitivity analysis as of December 31, 2022 and as of December 31, 2021, using a modeling technique that measures the change in the amount of non-U.S. Dollar cash, cash equivalents, and marketable securities arising from a hypothetical 10% movement in the levels of foreign currency exchange rates relative to the U.S. Dollar, with all other variables held constant. The foreign currency exchange rates we used were based on market rates in effect on December 31, 2022 and December 31, 2021, respectively. The sensitivity analysis indicated that a hypothetical 10% movement in foreign currency exchange rates would change the amount of cash, cash equivalents, and investments we would report in U.S. Dollars as of December 31, 2022 and December 31, 2021 by \$32.3 million, or 2.6%, and by \$37.0 million, or 2.2%, respectively.

Equity Price Risk

We have also invested in privately-held companies. Depending on the nature of these investments, some can be carried at cost, adjusted for changes from observable transactions for identical or similar investments of the same issuer, less impairment, and others can be carried at fair value. The carrying values of our investments in privately-held companies were \$226.6 million and \$197.1 million as of December 31, 2022 and December 31, 2021, respectively. The privately-held companies in which we invest can still be considered to be in the startup or development stages. These investments are inherently risky because the markets for the technologies or products these companies are developing are typically in the early stages, and may never materialize. We could lose our entire investment in these companies. Our evaluation of investments in privately-held companies is based on the fundamentals of the businesses invested in, including, among other factors, the nature of their technologies and potential for financial return.

ITEM 8. Financial Statements and Supplementary Data

**Juniper Network, Inc.
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Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Juniper Networks, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Juniper Networks, Inc. (the Company) as of December 31, 2022 and 2021, the related consolidated statements of operations, comprehensive income, changes in stockholders' equity and cash flows for each of the three years in the period ended December 31, 2022, and the related notes and the financial statement schedule listed in the Index at Item 15(a)2 (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2022, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 10, 2023 expressed an unqualified opinion thereon.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of this critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Identification of distinct performance obligations in revenue contracts

Description of the matter	As described in Note 1 to the consolidated financial statements, the Company's contracts with customers sometimes contain multiple performance obligations, which are accounted for separately if they are distinct. In such cases, the transaction price is then allocated to the distinct performance obligations on a relative standalone selling price basis and revenue is recognized when control of the distinct performance obligation is transferred. For example, product revenue is recognized at the time of hardware shipment or delivery of software license, and support revenue is recognized over time as the services are performed.
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Auditing the Company's revenue recognition was challenging, specifically related to identifying and determining the distinct performance obligations and the associated timing of revenue recognition. For example, there were nonstandard terms and conditions that required judgment to determine the distinct performance obligations and the impact on the timing of revenue recognition.

How we addressed the matter in our audit	We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company's revenue recognition process, including controls to identify and determine the distinct performance obligations and the timing of revenue recognition.
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Among the procedures we performed to test the identification and determination of the distinct performance obligations and the timing of revenue recognition, we read the executed contract and purchase order to understand the contract, identified the performance obligation(s), determined the distinct performance obligations, and evaluated the timing and amount of revenue recognized for a sample of individual sales transactions. We evaluated the accuracy of the Company's contract summary documentation, specifically related to the identification and determination of distinct performance obligations and the timing of revenue recognition.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 1996.
San Jose, California

February 10, 2023

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Juniper Networks, Inc.

Opinion on Internal Control over Financial Reporting

We have audited Juniper Networks, Inc.'s internal control over financial reporting as of December 31, 2022, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Juniper Networks, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2022 and 2021, and the related consolidated statements of operations, comprehensive income, changes in stockholders' equity and cash flows for each of the three years in the period ended December 31, 2022, and the related notes and the financial statement schedule listed in the Index at Item 15(a)2 and our report dated February 10, 2023, expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

San Jose, California
February 10, 2023

Juniper Networks, Inc.

Consolidated Statements of Operations
(In millions, except per share amounts)

	Years Ended December 31,		
	2022	2021	2020
Net revenues:			
Product	\$ 3,539.9	\$ 3,078.1	\$ 2,845.0
Service	1,761.3	1,657.3	1,600.1
Total net revenues	5,301.2	4,735.4	4,445.1
Cost of revenues:			
Product	1,761.7	1,409.4	1,278.6
Service	581.2	585.9	592.8
Total cost of revenues	2,342.9	1,995.3	1,871.4
Gross margin	2,958.3	2,740.1	2,573.7
Operating expenses:			
Research and development	1,036.1	1,007.2	958.4
Sales and marketing	1,133.4	1,052.7	938.8
General and administrative	249.5	249.8	255.4
Restructuring charges	20.2	42.9	68.0
Total operating expenses	2,439.2	2,352.6	2,220.6
Operating income	519.1	387.5	353.1
Gain on divestiture	45.8	—	—
Loss on extinguishment of debt	—	(60.6)	(55.0)
Other expense, net	(28.6)	(16.8)	(32.9)
Income before income taxes and loss from equity method investment	536.3	310.1	265.2
Income tax provision	60.5	57.4	7.4
Loss from equity method investment, net of tax	4.8	—	—
Net income	\$ 471.0	\$ 252.7	\$ 257.8
Net income per share:			
Basic	\$ 1.46	\$ 0.78	\$ 0.78
Diluted	\$ 1.43	\$ 0.76	\$ 0.77
Shares used in computing net income per share:			
Basic	322.1	324.4	330.4
Diluted	329.5	331.6	335.2

See accompanying Notes to Consolidated Financial Statements

Juniper Networks, Inc.

Consolidated Statements of Comprehensive Income
(In millions)

	Years Ended December 31,		
	2022	2021	2020
Net income	\$ 471.0	\$ 252.7	\$ 257.8
Other comprehensive income (loss), net of tax:			
Available-for-sale debt securities:			
Change in net unrealized gains and losses	(6.5)	(5.0)	5.7
Net realized losses (gains) reclassified into net income	0.4	(1.2)	(1.3)
Net change on available-for-sale debt securities	(6.1)	(6.2)	4.4
Cash flow hedges:			
Change in net unrealized gains and losses	15.7	(13.5)	54.4
Net realized losses (gains) reclassified into net income	26.8	(25.2)	7.6
Net change on cash flow hedges	42.5	(38.7)	62.0
Change in foreign currency translation adjustments	(30.1)	(12.8)	7.7
Other comprehensive income (loss), net	6.3	(57.7)	74.1
Comprehensive income	\$ 477.3	\$ 195.0	\$ 331.9

See accompanying Notes to Consolidated Financial Statements

Juniper Networks, Inc.
Consolidated Balance Sheets
(In millions, except par values)

	December 31, 2022	December 31, 2021
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 880.1	\$ 922.5
Short-term investments	210.3	315.5
Accounts receivable, net of allowance for doubtful accounts of \$11.1 and \$6.7 as of December 31, 2022 and 2021, respectively	1,227.3	994.4
Inventory	619.4	272.6
Prepaid expenses and other current assets	680.0	451.6
Total current assets	3,617.1	2,956.6
Property and equipment, net	666.8	703.0
Operating lease assets	141.6	161.3
Long-term investments	139.6	455.5
Purchased intangible assets, net	160.5	284.3
Goodwill	3,734.4	3,762.1
Other long-term assets	866.7	564.2
Total assets	\$ 9,326.7	\$ 8,887.0
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 347.4	\$ 273.7
Accrued compensation	306.1	336.0
Deferred revenue	1,020.5	937.9
Other accrued liabilities	404.9	328.9
Total current liabilities	2,078.9	1,876.5
Long-term debt	1,601.3	1,686.8
Long-term deferred revenue	642.6	475.7
Long-term income taxes payable	279.4	330.5
Long-term operating lease liabilities	117.7	142.2
Other long-term liabilities	131.7	58.4
Total liabilities	4,851.6	4,570.1
Commitments and contingencies (Note 15)		
Stockholders' equity:		
Preferred stock, \$0.00001 par value; 10.0 shares authorized; none issued and outstanding	—	—
Common stock, \$0.00001 par value; 1,000.0 shares authorized; 322.9 shares and 321.6 shares issued and outstanding as of December 31, 2022 and 2021, respectively	—	—
Additional paid-in capital	6,846.4	6,972.6
Accumulated other comprehensive income (loss)	4.2	(2.1)
Accumulated deficit	(2,375.5)	(2,653.6)
Total stockholders' equity	4,475.1	4,316.9
Total liabilities and stockholders' equity	\$ 9,326.7	\$ 8,887.0

See accompanying Notes to Consolidated Financial Statements

Juniper Networks, Inc.
Consolidated Statements of Cash Flows
(In millions)

	Years Ended December 31,		
	2022	2021	2020
Cash flows from operating activities:			
Net income	\$ 471.0	\$ 252.7	\$ 257.8
Adjustments to reconcile net income to net cash provided by operating activities:			
Share-based compensation expense	209.3	222.6	190.2
Depreciation, amortization, and accretion	217.7	237.4	212.4
Operating lease assets expense	40.3	44.9	42.3
Gain on divestiture	(45.8)	—	—
Loss from equity method investment	4.8	—	—
Loss on extinguishment of debt	—	60.6	55.0
Deferred income taxes	(222.5)	71.7	(52.3)
Other	(2.6)	(1.1)	(2.9)
Changes in operating assets and liabilities, net of acquisitions:			
Accounts receivable, net	(232.0)	(31.8)	(76.1)
Prepaid expenses and other assets	(658.0)	(310.0)	(117.8)
Accounts payable	67.4	0.2	56.0
Accrued compensation	(23.1)	70.3	38.7
Income taxes payable	21.1	24.3	(57.2)
Other accrued liabilities	(1.6)	(80.8)	4.4
Deferred revenue	251.6	128.7	61.5
Net cash provided by operating activities	97.6	689.7	612.0
Cash flows from investing activities:			
Purchases of property and equipment	(105.1)	(100.0)	(100.4)
Proceeds from divestiture, net	89.1	—	—
Purchases of available-for-sale debt securities	(104.1)	(649.8)	(967.0)
Proceeds from sales of available-for-sale debt securities	118.2	546.1	360.4
Proceeds from maturities and redemptions of available-for-sale debt securities	390.3	394.0	865.0
Purchases of equity securities	(16.5)	(10.1)	(17.4)
Proceeds from sales of equity securities	47.7	25.6	9.7
Proceeds from Pulse note receivable	—	—	50.0
Payments for business acquisitions, net of cash and cash equivalents acquired	—	(182.6)	(438.1)
Subsequent payments related to acquisitions in prior years	(14.6)	(10.1)	(45.9)
Other	2.5	0.7	(5.2)
Net cash provided by (used in) investing activities	407.5	13.8	(288.9)
Cash flows from financing activities:			
Repurchase and retirement of common stock	(315.2)	(443.5)	(381.1)
Proceeds from issuance of common stock	57.2	56.4	54.7
Payment of dividends	(270.4)	(259.1)	(264.1)
Payment of debt	—	(423.8)	(376.2)
Issuance of debt, net	—	—	792.4
Payment for debt extinguishment costs	—	(58.3)	(52.9)
Other	—	(3.4)	4.8
Net cash used in financing activities	(528.4)	(1,131.7)	(222.4)

	Years Ended December 31,		
	2022	2021	2020
Effect of foreign currency exchange rates on cash, cash equivalents, and restricted cash	(21.7)	(12.1)	5.8
Net (decrease) increase in cash, cash equivalents, and restricted cash	(45.0)	(440.3)	106.5
Cash, cash equivalents, and restricted cash at beginning of period	942.7	1,383.0	1,276.5
Cash, cash equivalents, and restricted cash at end of period	<u>\$ 897.7</u>	<u>\$ 942.7</u>	<u>\$ 1,383.0</u>
Supplemental disclosures of cash flow information:			
Cash paid for interest, net of amounts capitalized	\$ 67.3	\$ 62.6	\$ 87.2
Cash paid for income taxes, net	\$ 253.2	\$ 113.2	\$ 84.1
Non-cash investing activity:			
Equity method investment	\$ 40.3	\$ —	\$ —

See accompanying Notes to Consolidated Financial Statements

Juniper Networks, Inc.

Consolidated Statements of Changes in Stockholders' Equity
(In millions, except per share amounts)

	Shares	Common Stock and Additional Paid-In Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Equity
Balance at December 31, 2019	335.9	\$ 7,370.5	\$ (18.5)	\$ (2,741.4)	\$ 4,610.6
Net income	—	—	—	257.8	257.8
Other comprehensive income, net	—	—	74.1	—	74.1
Issuance of common stock	10.0	54.7	—	—	54.7
Common stock assumed upon business combination	—	1.5	—	—	1.5
Repurchase and retirement of common stock	(18.2)	(235.7)	—	(185.4)	(421.1)
Purchase of forward contract under accelerated share repurchase program ("ASR")	—	40.0	—	—	40.0
Share-based compensation expense	—	190.0	—	—	190.0
Payments of cash dividends (\$0.80 per share of common stock)	—	(264.1)	—	—	(264.1)
Balance at December 31, 2020	327.7	7,156.9	55.6	(2,669.0)	4,543.5
Net income	—	—	—	252.7	252.7
Other comprehensive loss, net	—	—	(57.7)	—	(57.7)
Issuance of common stock	9.9	56.4	—	—	56.4
Common stock assumed upon business combination	—	2.7	—	—	2.7
Repurchase and retirement of common stock	(16.0)	(206.2)	—	(237.3)	(443.5)
Share-based compensation expense	—	221.9	—	—	221.9
Payments of cash dividends (\$0.80 per share of common stock)	—	(259.1)	—	—	(259.1)
Balance at December 31, 2021	321.6	6,972.6	(2.1)	(2,653.6)	4,316.9
Net income	—	—	—	471.0	471.0
Other comprehensive income, net	—	—	6.3	—	6.3
Issuance of common stock	10.9	57.2	—	—	57.2
Repurchase and retirement of common stock	(9.6)	(122.3)	—	(192.9)	(315.2)
Share-based compensation expense	—	209.3	—	—	209.3
Payments of cash dividends (\$0.84 per share of common stock)	—	(270.4)	—	—	(270.4)
Balance at December 31, 2022	322.9	\$ 6,846.4	\$ 4.2	\$ (2,375.5)	\$ 4,475.1

See accompanying Notes to Consolidated Financial Statements

Juniper Networks, Inc.
Notes to Consolidated Financial Statements

Note 1. Description of Business, Basis of Presentation and Significant Accounting Policies

Description of Business

Juniper Networks, Inc. (the “Company” or “Juniper”) designs, develops, and sells products and services for high-performance networks, to enable customers to build scalable, reliable, secure and cost-effective networks for their businesses, while achieving agility and improved operating efficiency through automation. Juniper challenges the inherent complexity that comes with networking in the multicloud era. Juniper does this with products, solutions and services that transform the way people connect, work and live. Juniper simplifies the process of transitioning to a secure and automated multicloud environment to enable secure, AI-driven networks that connect the world.

Basis of Presentation

The Consolidated Financial Statements, which include the Company and its wholly-owned subsidiaries, are prepared in accordance with U.S. generally accepted accounting principles (“U.S. GAAP”). All intercompany balances and transactions have been eliminated.

Use of Estimates

The preparation of the financial statements and related disclosures in accordance with U.S. GAAP requires the Company to make judgments, assumptions, and estimates that affect the amounts reported in the Consolidated Financial Statements and the accompanying notes. The Company bases its estimates and assumptions on current facts, historical experience, and various other factors that it believes are reasonable under the circumstances, to determine the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results could differ from these estimates.

Cash, Cash Equivalents, and Investments

Cash and Cash Equivalents

Cash and cash equivalents consist of cash on hand, demand deposits with banks, highly liquid investments in money market funds, commercial paper, government securities, certificates of deposits, time deposits, and corporate debt securities, which are readily convertible into cash. All highly liquid investments with original maturities of three months or less from Juniper's purchase date are classified as cash equivalents.

Investments in Available-for-Sale Debt Securities

The Company's investments in debt securities are classified as available-for-sale and include the Company's fixed income securities and investments in privately-held companies, consisting of debt and redeemable preferred stock securities.

Fixed income securities primarily consist of corporate debt securities, U.S. treasury securities, time deposits, asset-backed and mortgage-backed securities, certificate of deposits, commercial paper, U.S. government agency securities, and foreign government debt securities. Fixed income securities are initially recorded at cost and periodically adjusted to fair value in the Consolidated Balance Sheets. The Company periodically evaluates these investments to determine if impairment charges are required. The Company determines whether a credit loss exists for available-for-sale debt securities in an unrealized loss position. When the fair value of a security is below its amortized cost, the amortized cost will be reduced to its fair value and the resulting loss will be recorded in Consolidated Statements of Operations, if it is more likely than not that we are required to sell the impaired security before recovery of its amortized cost basis, or we have the intention to sell the security. If neither of these conditions are met, the Company considers the extent to which the fair value is less than the amortized cost, any changes to the rating of the security by a rating agency, and review of the issuer's financial statements. If factors indicate a credit loss exists, an allowance for credit loss is recorded through other expense, net, limited by the amount that the fair value is less than the amortized cost basis.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

The Company's privately-held debt and redeemable preferred stock securities are included in other long-term assets in the Consolidated Balance Sheets and are recorded at fair value. In determining the estimated fair value of such securities, the Company utilizes the most recent data available for the investee including known acquisition offers and subsequent funding rounds. The Company periodically evaluates these securities for indicators of impairment, including the inability to recover a portion of or the entire carrying amount of the investment, the inability of the investee to sustain earnings, the reduction in or termination of financial commitment to the investee from other investors, the intention to sell the investment, and whether it is more likely than not that the Company will be required to sell the investment before recovery of the entire amortized cost basis. If the Company determines that the decline in an investment's value indicates credit losses, the difference is recognized as an impairment loss in its Consolidated Statements of Operations.

For all available-for-sale debt securities, unrealized gains and the amount of unrealized loss relating to factors other than credit loss are reported as a separate component of accumulated other comprehensive loss in the Consolidated Balance Sheets. Realized gains and losses are determined based on the specific identification method and are reported in the Consolidated Statements of Operations.

Investments in Equity Securities

The Company's investments in equity securities with readily determinable fair values consist of money market funds, amounts under the non-qualified compensation plan ("NQDC") that are invested in mutual funds, and investments in public companies. These investments are measured at fair value with changes in fair value recognized in the Consolidated Statements of Operations.

Equity securities without readily determinable fair values include the Company's investments in privately-held companies consisting of non-redeemable preferred stock and common stock securities. The Company accounts for these securities at cost, adjusted for changes from observable transactions for identical or similar investments of the same issuer, less impairments. Fair value of these equity securities is reassessed when the Company identifies observable price changes indicating that an adjustment upward or downward to the carrying value is necessary. Any observable changes in fair value are recognized in earnings as of the date that the observable transaction took place, rather than the current reporting date. In addition, the Company periodically evaluates equity securities without readily determinable fair values to determine if impairment charges are required by evaluating whether an event or change in circumstance has occurred that may have a significant adverse effect on the fair value of the investment. A qualitative assessment is performed each reporting period to assess whether there are any impairment indicators, including, but not limited to, significant deterioration in the investee's earnings performance; credit rating; asset quality or business prospects; adverse change in the regulatory, economic, or technological environment; change in the general market condition of the geographic area or industry; acquisition offers; and the ability to continue as a going concern. If such indicators are present, the Company estimates the fair value of impaired investments and recognizes an impairment loss in the Consolidated Statement of Operations equal to the difference between the carrying value and fair value.

The Company accounts for investments in companies over which it has the ability to exercise significant influence, but does not have control over the investee, under the equity method of accounting. The investment is initially measured at fair value and subsequently adjusted for any impairment, dividend received, plus or minus the Company's proportionate share of the equity method investee's income or loss. The Company records its interest in the net earnings or loss of its equity method investment along with adjustments for unrealized profits or losses on intra-entity transactions, within its Consolidated Statements of Operations. Depending on the timing of such financial statements of the investee, there may be a lag between the timing of such financial statement and the Company's quarter-end date. For the Company's sole equity method investment as of December 31, 2022, the Company's share of the investee's net earnings or loss is recorded two months in arrears. The Company records an impairment when factors indicate that the carrying amount of the investment might not be recoverable.

Fair Value

Fair value is defined as the price that would be received upon sale of an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining fair value, the Company considers the principal or most advantageous market in which it transacts, and considers assumptions that market participants would use when pricing the asset or liability. The Company applies the following fair value hierarchy, which prioritizes the inputs used to measure fair value into three levels and bases the categorization within the hierarchy upon the lowest level of input that is available and significant to the fair value measurement:

Level 1 – Quoted prices in active markets for identical assets or liabilities.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Level 2 – Quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument. These inputs are valued using market-based approaches.

Level 3 – Inputs are unobservable inputs based on the Company's assumptions. These inputs, if any, are valued using internal financial models.

Derivative Instruments

The Company uses derivative instruments, primarily foreign currency forward and interest rate contracts, to hedge certain foreign currency and interest rate exposures. The Company does not enter into derivatives for speculative or trading purposes.

The Company uses foreign currency forward contracts or options contracts to hedge certain forecasted foreign currency transactions relating to operating expenses. These derivatives are designated as cash flow hedges, which are carried at fair value with the derivative's gain or loss initially reported as a component of accumulated other comprehensive loss, and upon occurrence of the forecasted transaction, is subsequently reclassified into the costs of services or operating expense line item to which the hedged transaction relates. Cash flows from such hedges are classified as operating activities.

The Company also uses foreign currency forward contracts to mitigate variability in gains and losses generated from the re-measurement of certain monetary assets and liabilities denominated in non-functional currencies. These derivatives are carried at fair value with changes recorded in other expense, net in the Consolidated Statements of Operations in the same period as the changes in the fair value from the re-measurement of the underlying assets and liabilities. Cash flows from such derivatives are classified as operating activities.

The Company uses interest rate swaps to convert certain of our fixed interest rate notes to floating interest rates based on the London InterBank Offered Rate (LIBOR). All interest rate swaps will expire within eight years. The change in fair value of the derivative instrument substantially offsets the change in the fair value of the hedged item. These derivatives are classified in the Consolidated Statements of Cash Flows in the same section as the underlying item.

The Company uses interest rate locks, which fix the benchmark interest rates of future debt issuance. The Company records changes in fair value of interest rate locks in accumulated other comprehensive income (loss) in the consolidated balance sheets, in the period of change. When the forecasted transaction occurs, the Company will start to amortize the accumulated gains or losses included as a component of other comprehensive income (loss) related to the interest rate lock cash flow hedges to interest expense. In the event the underlying forecasted transaction does not occur, or it becomes probable that it will not occur, the gains or losses on the related cash flow hedge from accumulated other comprehensive income (loss) will be reclassified to other income and expense within the income statement.

The Company presents its derivative assets and derivative liabilities on a gross basis in the Consolidated Balance Sheets. However, under agreements containing provisions on set-off with certain counterparties, subject to applicable requirements, the Company is allowed to net-settle transactions, with a single net amount payable by one party to the other. The Company is neither required to pledge nor entitled to receive cash collateral related to these derivative transactions.

Inventory

Inventory consists primarily of component parts to be used in the manufacturing process and finished goods, and is stated at the lower of cost or net realizable value. In addition, the Company purchases and holds inventory to provide adequate component supplies over the life of the underlying products. Cost is computed using standard cost, which approximates actual cost, on a first-in, first-out basis. A charge is recorded to cost of product when inventory is determined to be in excess of anticipated demand or considered obsolete. At the point of loss recognition, a new, lower-cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in the newly established cost basis.

Leases

The Company determines if an arrangement is a lease at inception. The Company evaluates classification of leases as either operating or finance at commencement and, as necessary, at modification. As of December 31, 2022, the Company did not have any finance leases. Operating leases are included in operating lease right-of-use ("ROU") assets, other accrued liabilities, and

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

operating lease liabilities on the Company's Consolidated Balance Sheets. ROU assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent its obligation to make lease payments arising from the lease.

Operating lease ROU assets and liabilities are recognized on the commencement date based on the present value of lease payments over the lease term. As most of our leases do not provide an implicit rate, we use our incremental borrowing rate based on the information available at commencement date in determining the present value of lease payments. The operating lease ROU asset also includes any lease payments made prior to lease commencement and excludes lease incentives. Variable lease payments not dependent on an index or a rate, are expensed as incurred and are not included within the ROU asset and lease liability calculation. Variable lease payments primarily include reimbursements of costs incurred by lessors for common area maintenance and utilities. The Company's lease terms are the noncancelable period, including any rent-free periods provided by the lessor, and include options to extend or terminate the lease when it is reasonably certain that it will exercise that option. At lease inception, and in subsequent periods as necessary, the Company estimates the lease term based on its assessment of extension and termination options that are reasonably certain to be exercised. Lease costs are recognized on a straight-line basis over the lease term.

The Company does not separate non-lease components from lease components for all underlying classes of assets. In addition, the Company does not recognize ROU assets and lease liabilities for short-term leases, which have a lease term of twelve months or less and do not include an option to purchase the underlying asset that the Company is reasonably certain to exercise. Lease cost for short-term leases is recognized on a straight-line basis over the lease term.

Property and Equipment

Property and equipment are recorded at cost less accumulated depreciation. Depreciation is calculated using the straight-line method, over the estimated useful lives of the following assets:

	Estimated Useful Life (years)
Computers, equipment, and software	1.5 to 10
Furniture and fixtures	5 to 7
Building and building improvements	7 to 40
Land improvements	10 to 40
Leasehold improvements	Lease term, not to exceed 10 years

Land is not depreciated. Construction-in-process is related to the construction or development of property and equipment that have not yet been placed in service for their intended use.

Business Combinations

The purchase price of an acquired entity is allocated to tangible assets, liabilities, and intangible assets, including in-process research and development (IPR&D) based on their estimated fair values with the residual of the purchase price recorded as goodwill. The determination of the value of the intangible assets acquired involves certain estimates, such as expected future cash flows, which include consideration of future growth rates and margins, attrition rates, future changes in technology, discount rates, and the expected use of the acquired assets. These factors are also considered in determining the useful life of the acquired intangible assets. IPR&D is initially capitalized at fair value as an intangible asset with an indefinite life and assessed for impairment thereafter. When an IPR&D project is completed, the IPR&D is reclassified as an amortizable purchased intangible asset and amortized over the asset's estimated useful life. Acquisition related expenses are recognized separately from business combination and are expensed as incurred. The Company's Consolidated Financial Statements include the operating results of acquired businesses from the date of each acquisition.

Goodwill and Intangible Assets

Goodwill is tested for impairment annually on November 1 or more frequently if certain circumstances indicate the carrying value of goodwill is impaired. Goodwill is tested for impairment at the reporting unit level. A qualitative assessment is first performed to determine whether it is necessary to quantitatively test goodwill for impairment. This initial assessment includes, among others, consideration of macroeconomic conditions and financial performance. If the qualitative assessment indicates that it is more likely than not that an impairment exists, a quantitative analysis is performed by determining the fair value of the reporting unit using a combination of the discounted cash flow and the market approaches. Goodwill is considered impaired if the carrying value of the reporting unit exceeds its fair value. A goodwill impairment loss is recognized for the amount that the

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

carrying amount of the reporting unit, including goodwill, exceeds its fair value, limited to the total amount of goodwill allocated to that reporting unit.

Intangible assets consist of existing technology, customer relationships, and trade name, which are amortized over the period of estimated benefit using the straight-line method and estimated useful lives of 4 or 5 years. Other intangible assets acquired in a business combination related to IPR&D projects are considered to be indefinite-lived until the completion or abandonment of the associated research and development efforts. Indefinite-lived intangibles are not amortized into the results of operations but instead are evaluated for impairment. If and when development is complete, the associated assets would be deemed finite-lived and would be amortized as cost of revenues over their respective estimated useful lives at that point in time. If the research and development project is abandoned, the acquired IPR&D assets are written off and charged to expense in the period of abandonment.

Impairment of Long-lived Assets

Long-lived assets, such as property, plant, and equipment, ROU assets, and purchased intangible assets subject to amortization, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset, or asset group, to estimated undiscounted future cash flows expected to be generated by the asset, or asset group. An impairment charge is recognized by the amount by which the carrying amount of the asset, or asset group, exceeds its fair value.

Warranty Reserves

The Company generally offers a one-year warranty or limited life-time warranty on most of its hardware products, and a 90-day warranty on the media that contains the software embedded in the products. Warranty costs are recognized as part of the Company's cost of sales based on associated material costs, logistics costs, labor costs, and overhead at the time revenue is recognized. Material costs are estimated primarily based upon the historical costs to repair or replace product returns within the warranty period. Labor, logistics, and overhead costs are estimated primarily based upon historical trends in the cost to support customer cases within the warranty period. Warranty reserve is reported within other accrued liabilities in the Consolidated Balance Sheets.

Contract Manufacturer Liabilities

The Company establishes a liability for non-cancelable, non-returnable purchase commitments with its contract manufacturers for carrying charges, quantities in excess of its demand forecasts, or obsolete material charges for components purchased by the contract manufacturers to meet the Company's demand forecast or customer orders. The demand forecasts are based upon historical trends and analysis from the Company's sales and marketing organizations, adjusted for overall market conditions.

Loss Contingencies

The Company is subject to the possibility of various loss contingencies arising in the ordinary course of business. Management considers the likelihood of loss related to the occurrence of a liability as well as its ability to reasonably estimate the amount of loss, in determining loss contingencies. An estimated loss contingency is accrued when it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. The Company regularly evaluates current information available to determine whether such accruals should be adjusted and whether new accruals are required.

Foreign Currency

Assets and liabilities of foreign operations with non-U.S. Dollar functional currency are translated to U.S. Dollars using exchange rates in effect at the end of the period. Revenue and expenses are translated to U.S. Dollars using rates that approximate those in effect during the period. The resulting translation adjustments are included in the Company's Consolidated Balance Sheets in the stockholders' equity section as a component of accumulated other comprehensive loss. The Company remeasures monetary assets and monetary liabilities in non-functional currencies and records the resulting foreign exchange transaction gains and losses in other expense, net in the Consolidated Statements of Operations.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Revenue Recognition

Revenue is recognized when promised goods or services are transferred to customers in an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods or services by following a five-step process, (1) identify the contract with a customer, (2) identify the performance obligations in the contract, (3) determine the transaction price, (4) allocate the transaction price, and (5) recognize revenue when or as the Company satisfies a performance obligation, as further described below.

Identify the contract with a customer. The Company generally considers a sales contract and/or agreement with an approved purchase order as a customer contract provided that collection is considered probable, which is assessed based on the creditworthiness of the customer as determined by credit checks, payment histories, and/or other circumstances. The Company combines contracts with a customer if contracts are negotiated with a single commercial substance or contain price dependencies.

Identify the performance obligations in the contract. Product performance obligations include hardware, software licenses including perpetual and term-based licenses, and service performance obligations including maintenance services, Software-as-a-Service ("SaaS"), education and training, and professional services.

Determine the transaction price. The transaction price for the Company's contracts with its customers consists of both fixed and variable consideration, provided it is probable that a significant reversal of revenue will not occur when the uncertainty related to variable consideration is resolved. Fixed consideration includes amounts to be contractually billed to the customer while variable consideration includes estimates for rights of return, rebates, and price protection, which are based on historical sales returns and price protection credits, specific criteria outlined in rebate agreements, and other factors known at the time. The Company generally invoices customers for hardware, software licenses and related maintenance arrangements at time of delivery, and professional services either upfront or upon meeting certain milestones. Customer invoices are generally due within 30 to 90 days after issuance. The Company's contracts with customers typically do not include significant financing components as the period between the transfer of performance obligations and timing of payment are generally within one year.

Allocate the transaction price to the performance obligations in the contract. For contracts that contain multiple performance obligations, the Company allocates the transaction price to the performance obligations on a relative stand-alone selling price ("SSP") basis. SSP is based on multiple factors including, but not limited to historical discounting trends for products and services, pricing practices in different geographies and through different sales channels, gross margin objectives, internal costs, competitor pricing strategies, and industry technology lifecycles.

Recognize revenue when or as the Company satisfies a performance obligation. Revenue for hardware and certain software licenses, are recognized at a point in time, which is generally upon shipment or delivery. Certain software licenses are recognized on a ratable basis over the term of the license. Revenue for maintenance services and SaaS is recognized on a ratable basis over the contract term. Revenue from education, training, and professional services is recognized as services are completed or ratably over the contractual period of generally one year or less.

Deferred product revenue represents unrecognized revenue related to undelivered product commitments and other shipments that have not met revenue recognition criteria. Deferred service revenue represents billed amounts for service contracts, which include technical support, hardware and software maintenance, professional services, SaaS, and education and training, for which services have not been rendered.

Revenue is recognized net of any taxes collected, which are subsequently remitted to governmental authorities.

Deferred Commissions

Sales commissions earned by the Company's sales force are considered incremental and recoverable costs of obtaining a contract with a customer. These costs are recorded as prepaid expenses or other long-term assets and are deferred and then amortized over a period of benefit which is typically over the term of the customer contracts. Amortization expense is included in sales and marketing expenses in the accompanying Consolidated Statements of Operations.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Research and Development

Costs to research, design, and develop the Company's products are expensed as incurred.

Software Development Costs

Capitalization of software development costs for software to be sold, leased, or otherwise marketed begins when a product's technological feasibility has been established and ends when a product is available for general release to customers. Generally, the Company's products are released soon after technological feasibility has been established. As a result, costs incurred between achieving technological feasibility and product general availability have not been significant.

The Company capitalizes costs associated with internal-use software systems during the application development stage. Such capitalized costs include external direct costs incurred in developing or obtaining the applications and payroll and payroll-related costs for employees, who are directly associated with the development of the applications.

Advertising

Advertising costs are charged to sales and marketing expense as incurred. Costs to produce advertising were approximately \$7.4 million for 2022 and 2021 and \$4.0 million for 2020. Costs to communicate advertising totaled approximately \$30.0 million, \$26.6 million, and \$21.7 million, for 2022, 2021, and 2020, respectively.

Share-Based Compensation

The Company measures and recognizes compensation cost for all share-based awards made to employees and directors, including employee stock options, restricted stock awards ("RSAs"), restricted stock units ("RSUs"), performance share awards ("PSAs") and employee stock purchases related to the Employee Stock Purchase Plan ("ESPP"). For service condition only awards, share-based compensation expense is based on the fair value of the underlying awards and amortized on a straight-line basis. For PSAs, share-based compensation expense is amortized on a straight-line basis for each separate vesting portion of the awards. The Company accounts for forfeitures as they occur.

The Company utilizes the Black-Scholes-Merton ("BSM") option-pricing model to estimate the fair value of its ESPP purchase rights. The BSM model requires various highly subjective assumptions that represent management's best estimates of volatility, risk-free interest rate, expected life, and dividend yield. The Company estimates expected volatility based on the implied volatility of market-traded options, on the Company's common stock, adjusted for other relevant factors including historical volatility of the Company's common stock over the most recent period commensurate with the estimated expected life of the Company's ESPP. The expected life of ESPP purchase rights approximates the offering period.

The Company determines the grant date fair value of its RSUs, RSAs, and PSAs based on the closing market price of the Company's common stock on the date of grant, adjusted by the present value of the dividends expected to be paid on the underlying shares of common stock during the requisite and derived service period as these awards are not entitled to receive dividends until vested.

For market-based RSUs, the Company estimates the fair value and derived service period using the Monte Carlo simulation option pricing model ("Monte Carlo model"). The determination of the grant date fair value and derived service periods using the Monte Carlo model is affected by the Company's stock price, comparative market-based returns, as well as various highly subjective assumptions that represent management's best estimates of volatility, risk-free interest rate, and dividend yield. The Company estimates expected volatility based on the implied volatility of market-traded options, on the Company's common stock, adjusted for other relevant factors, including historical volatility of the Company's common stock over the contractual life of the Company's market-based RSUs.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Provision for Income Taxes

Deferred tax assets and liabilities are recognized for the expected tax consequences of temporary differences between the tax basis of assets and liabilities and their reported amounts. Valuation allowances are recorded to reduce deferred tax assets to the amount that will more likely than not be realized.

The Company accounts for uncertainty in income taxes using a two-step approach to recognize and measure uncertain tax positions. The first step is to evaluate the tax position for recognition by determining if the weight of available evidence indicates that it is more likely than not that the position will be sustained on audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount that is more than 50% likely of being realized upon settlement. The Company classifies the liability for unrecognized tax benefits as current to the extent that the Company anticipates payment (or receipt) of cash within one year. Interest and penalties related to uncertain tax positions are recognized in the provision for income taxes. The Company accounts for the current impacts of U.S. tax on certain foreign subsidiaries income, which is referred to as Global Intangible Low-Taxed Income, in the year earned.

Concentrations of Risk

Financial instruments that subject the Company to concentrations of credit risk consist primarily of cash and cash equivalents, investments, derivatives, and accounts receivable. The Company invests only in high-quality credit instruments and maintains its cash, cash equivalents, and available-for-sale investments in fixed income securities with several high-quality institutions. Deposits held with banks, including those held in foreign branches of global banks, may exceed the amount of insurance provided on such deposits. We mitigate the concentration of credit risk in our investment portfolio through diversification of the investments in various industries and asset classes, and limits to the amount of credit exposure to any single issuer and credit rating.

The Company's derivatives expose it to credit risk to the extent that counterparties may be unable to meet the terms of the agreement. The Company has a risk assessment and mitigation framework to evaluate the potential risk of loss with any one counterparty resulting from this type of credit risk. As part of this risk mitigation framework, the Company transacts with major financial institutions with high credit ratings and also enters into master netting agreements, which permit net settlement of the transactions with the same counterparty. The Company performs periodic evaluations of the relative credit standing of these financial institutions. Therefore, the Company does not expect material losses as a result of defaults by counterparties.

Generally, credit risk with respect to accounts receivable is diversified due to the number of entities comprising the Company's customer base and their dispersion across different geographic locations throughout the world. The Company performs ongoing credit evaluations of its customers and generally does not require collateral on accounts receivable. For the years ended December 31, 2022, 2021, and 2020, no single customer accounted for 10% or more of net revenues.

The Company relies on sole suppliers for certain critical components such as application-specific integrated circuits. Additionally, the Company relies primarily on a limited number of significant independent contract manufacturers and original design manufacturers for the production of its products. The inability of any supplier or manufacturer to fulfill supply requirements of the Company could negatively impact future operating results.

Recently Adopted Accounting Standards

Accounting for Contract Assets and Contract Liabilities from Contracts with Customers: On January 1, 2022, the Company early adopted ASU No. 2021-08 (Topic 805), *Accounting for Contract Assets and Contract Liabilities from Contracts with Customers*, which requires contract assets and contract liabilities acquired in a business combination to be recognized and measured by the acquirer on the acquisition date in accordance with ASC 606, *Revenue from Contracts with Customers*, as if the contracts were originated by the acquirer. Upon adoption, the standard did not have a material impact on the Consolidated Financial Statements.

Reference Rate Reform: In March 2020, the FASB issued ASU No. 2020-04 (Topic 848), *Reference Rate Reform*, which provides temporary optional expedients and exceptions to the existing guidance on contract modifications and hedge accounting to ease the financial reporting burdens related to the expected market transition from the London Interbank Offered Rate (LIBOR) and other interbank offered rates to alternative reference rates. The standard became effective upon issuance and may be applied to any new or amended contracts, hedging relationships, and other transactions that reference LIBOR through December 31, 2022. In December 2022, the FASB issued ASU No 2022-06, extending the sunset date of the relief provided

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

under ASU No. 2020-04 to December 31, 2024. The adoption did not have a material impact on the Consolidated Financial Statements.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 2. Divestiture

On April 4, 2022, Synopsys, Inc ("Synopsys") purchased Juniper's silicon photonics business and formed a new entity called OpenLight Photonics, Inc. ("OpenLight"). The Company received cash consideration of \$90.0 million and retained a 25% equity interest in the new entity. The agreements with Synopsys contain redemption options with respect to Juniper's equity interest in OpenLight, which are exercisable either by (i) Juniper on or after the third anniversary of the acquisition or sooner in certain circumstances, or (ii) Synopsys on or after the third anniversary of the acquisition. Juniper can exercise its put option at the greater of fair value at the time of redemption or \$30.0 million, and the option was assigned a value of \$10.8 million. The divestiture did not represent a strategic shift with a major effect on the Company's operations and financial results, and therefore, did not qualify as a discontinued operation.

The Company recognized a gain on divestiture of \$45.8 million and the portion of gain related to the remeasurement of retained investment was \$19.5 million. The following table presents the carrying value of the major components of assets and liabilities derecognized as of April 4, 2022 (in millions):

	As of
	April 4,
	2022
Assets:	
Total current assets	\$ 1.0
Property and equipment, net	3.6
Deferred tax assets	3.9
Other long-term assets	1.1
Purchased intangible assets, net	49.0
Goodwill	28.9
Total assets held for sale	<u>\$ 87.5</u>
Liabilities:	
Accounts payable	\$ 1.4
Other liabilities	1.1
Total liabilities held for sale	<u>\$ 2.5</u>

The Company's 25% equity interest in OpenLight is accounted for under the equity method of accounting. The investment was recognized at fair value in other long-term assets within the consolidated balance sheet at an aggregate amount of \$40.8 million. The fair value was determined based on the price paid by Synopsys for its 75% equity interest in OpenLight along with the value of the redemption options.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 3. Cash Equivalents and Investments
Investments in Available-for-Sale Debt Securities

The following table summarizes the Company's unrealized gains and losses and fair value of investments designated as available-for-sale debt securities as of December 31, 2022 and December 31, 2021 (in millions):

	As of December 31, 2022				As of December 31, 2021			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Fixed income securities:								
Asset-backed and mortgage-backed securities	\$ 37.8	\$ —	\$ (1.2)	\$ 36.6	\$ 139.1	\$ —	\$ (0.5)	\$ 138.6
Certificates of deposit	—	—	—	—	5.0	—	—	5.0
Commercial paper	—	—	—	—	75.8	—	—	75.8
Corporate debt securities	277.5	—	(7.1)	270.4	443.3	0.7	(1.5)	442.5
Foreign government debt securities	8.8	—	(0.4)	8.4	12.8	—	(0.1)	12.7
Time deposits	70.6	—	—	70.6	35.2	—	—	35.2
U.S. government agency securities	18.6	—	(0.6)	18.0	26.8	—	(0.1)	26.7
U.S. government securities	9.0	—	(0.2)	8.8	73.5	0.1	—	73.6
Total fixed income securities	422.3	—	(9.5)	412.8	811.5	0.8	(2.2)	810.1
Privately-held debt and redeemable preferred stock securities	15.5	37.4	—	52.9	9.6	37.4	—	47.0
Total available-for-sale debt securities	\$ 437.8	\$ 37.4	\$ (9.5)	\$ 465.7	\$ 821.1	\$ 38.2	\$ (2.2)	\$ 857.1
Reported as:								
Cash equivalents	\$ 70.6	\$ —	\$ —	\$ 70.6	\$ 47.2	\$ —	\$ —	\$ 47.2
Short-term investments	205.9	—	(3.3)	202.6	306.8	0.7	(0.1)	307.4
Long-term investments	145.8	—	(6.2)	139.6	457.5	0.1	(2.1)	455.5
Other long-term assets	15.5	37.4	—	52.9	9.6	37.4	—	47.0
Total	\$ 437.8	\$ 37.4	\$ (9.5)	\$ 465.7	\$ 821.1	\$ 38.2	\$ (2.2)	\$ 857.1

The following table presents the contractual maturities of the Company's total fixed income securities as of December 31, 2022 (in millions):

	Amortized Cost	Estimated Fair Value
Due in less than one year	\$ 276.5	\$ 273.2
Due between one and five years	145.8	139.6
Total	\$ 422.3	\$ 412.8

As of December 31, 2022, the Company's unrealized loss of \$9.5 million resulted from 303 investments, of which loss aggregating \$0.8 million was from investments in an unrealized loss position for less than 12 months, and \$8.7 million was from investments in an unrealized loss position for more than 12 months. The gross unrealized losses related to these investments were primarily due to changes in market interest rates. The Company anticipates that it will recover the entire amortized cost basis of such available-for-sale debt securities and has determined that no allowance for credit losses was required to be recognized during the years ended December 31, 2022 and December 31, 2021.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

During the years ended December 31, 2022 and December 31, 2020, the Company had no material gross realized gains or losses from available-for-sale debt securities. During the year ended December 31, 2021, the Company had gross realized gains of \$15.3 million and no material gross realized losses from available-for-sale debt securities.

Investments in Equity Securities

The following table presents the Company's investments in equity securities as of December 31, 2022 and 2021 (in millions):

	As of December 31,	
	2022	2021
Equity investments with readily determinable fair value		
Money market funds	\$ 420.8	\$ 382.0
Mutual funds	28.1	33.4
Publicly-traded equity securities	7.7	8.1
Equity investments without readily determinable fair value	137.7	150.1
Equity investment under the equity method of accounting	36.0	—
Total equity securities	<u>\$ 630.3</u>	<u>\$ 573.6</u>
Reported as:		
Cash equivalents	\$ 420.8	\$ 371.5
Short-term investments	7.7	8.1
Prepaid expenses and other current assets	2.4	15.1
Other long-term assets	199.4	178.9
Total	<u>\$ 630.3</u>	<u>\$ 573.6</u>

During the years ended December 31, 2022, 2021, and 2020, there were no material unrealized gains or losses recognized for equity investments with readily determinable fair value or equity investments without readily determinable fair value. During the year ended December 31, 2022, the loss recognized from the equity method investment was \$4.8 million.

Restricted Cash and Investments

The Company has restricted cash and investments for: (i) amounts under the Company's non-qualified deferred compensation plan for senior-level employees; (ii) amounts held under the Company's short-term disability plan in California; and (iii) amounts held in escrow accounts, as required in connection with certain acquisitions. Restricted investments consist of equity investments. As of December 31, 2022, the carrying value of restricted cash and investments was \$45.6 million, of which \$17.5 million was included in prepaid expenses and other current assets and \$28.1 million was included in other long-term assets on the Consolidated Balance Sheets.

The following table provides a reconciliation of cash, cash equivalents, and restricted cash included in the Consolidated Balance Sheets as of December 31, 2022 and December 31, 2021 (in millions):

	As of December 31,	
	2022	2021
Cash and cash equivalents	\$ 880.1	\$ 922.5
Restricted cash included in Prepaid expenses and other current assets	15.2	17.2
Restricted cash included in Other long-term assets	2.4	3.0
Total cash, cash equivalents, and restricted cash	<u>\$ 897.7</u>	<u>\$ 942.7</u>

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 4. Fair Value Measurements
Assets and Liabilities Measured at Fair Value on a Recurring Basis

The following table provides a summary of assets and liabilities measured at fair value on a recurring basis and as reported in the Consolidated Balance Sheets (in millions):

	Fair Value Measurements at December 31, 2022				Fair Value Measurements at December 31, 2021			
	Quoted Prices in Active Markets For Identical Assets (Level 1)	Significant Other Observable Remaining Inputs (Level 2)	Significant Other Unobservable Remaining Inputs (Level 3)	Total	Quoted Prices in Active Markets For Identical Assets (Level 1)	Significant Other Observable Remaining Inputs (Level 2)	Significant Other Unobservable Remaining Inputs (Level 3)	Total
Assets:								
Available-for-sale debt securities:								
Asset-backed and mortgage-backed securities	\$ —	\$ 36.6	\$ —	\$ 36.6	\$ —	\$ 138.6	\$ —	\$ 138.6
Certificates of deposit	—	—	—	—	—	5.0	—	5.0
Commercial paper	—	—	—	—	—	75.8	—	75.8
Corporate debt securities	—	270.4	—	270.4	—	442.5	—	442.5
Foreign government debt securities	—	8.4	—	8.4	—	12.7	—	12.7
Time deposits	—	70.6	—	70.6	—	35.2	—	35.2
U.S. government agency securities	—	18.0	—	18.0	—	26.7	—	26.7
U.S. government securities	8.8	—	—	8.8	42.3	31.3	—	73.6
Privately-held debt and redeemable preferred stock securities	—	—	52.9	52.9	—	—	47.0	47.0
Total available-for-sale debt securities	8.8	404.0	52.9	465.7	42.3	767.8	47.0	857.1
Equity securities:								
Money market funds	420.8	—	—	420.8	382.0	—	—	382.0
Mutual funds	28.1	—	—	28.1	33.4	—	—	33.4
Publicly-traded equity securities	7.7	—	—	7.7	8.1	—	—	8.1
Total equity securities	456.6	—	—	456.6	423.5	—	—	423.5
Derivative assets:								
Foreign exchange contracts	—	1.3	—	1.3	—	9.2	—	9.2
Interest rate contracts	—	125.4	—	125.4	—	47.1	—	47.1
Total derivative assets	—	126.7	—	126.7	—	56.3	—	56.3
Total assets measured at fair value on a recurring basis	\$ 465.4	\$ 530.7	\$ 52.9	\$ 1,049.0	\$ 465.8	\$ 824.1	\$ 47.0	\$ 1,336.9
Liabilities:								
Derivative liabilities:								
Foreign exchange contracts	\$ —	\$ (37.6)	\$ —	\$ (37.6)	\$ —	\$ (24.0)	\$ —	\$ (24.0)
Interest rate contracts	—	(87.4)	—	(87.4)	—	(2.5)	—	(2.5)
Total derivative liabilities	—	(125.0)	—	(125.0)	—	(26.5)	—	(26.5)
Total liabilities measured at fair value on a recurring basis	\$ —	\$ (125.0)	\$ —	\$ (125.0)	\$ —	\$ (26.5)	\$ —	\$ (26.5)
Total assets, reported as:								
Cash equivalents	\$ 420.8	\$ 70.6	\$ —	\$ 491.4	\$ 371.6	\$ 47.2	\$ —	\$ 418.8
Short-term investments	14.6	195.7	—	210.3	41.5	274.0	—	315.5
Long-term investments	1.9	137.7	—	139.6	8.8	446.7	—	455.5
Prepaid expenses and other current assets	2.4	0.8	—	3.2	15.1	8.8	—	23.9
Other long-term assets	25.7	125.9	52.9	204.5	28.8	47.4	47.0	123.2
Total assets measured at fair value on a recurring basis	\$ 465.4	\$ 530.7	\$ 52.9	\$ 1,049.0	\$ 465.8	\$ 824.1	\$ 47.0	\$ 1,336.9

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

	Fair Value Measurements at December 31, 2022				Fair Value Measurements at December 31, 2021			
	Quoted Prices in Active Markets For Identical Assets (Level 1)	Significant Other Observable Remaining Inputs (Level 2)	Significant Other Unobservable Remaining Inputs (Level 3)	Total	Quoted Prices in Active Markets For Identical Assets (Level 1)	Significant Other Observable Remaining Inputs (Level 2)	Significant Other Unobservable Remaining Inputs (Level 3)	Total
Total liabilities, reported as:								
Other accrued liabilities	\$ —	\$ (32.5)	\$ —	\$ (32.5)	\$ —	\$ (14.9)	\$ —	\$ (14.9)
Other long-term liabilities	—	(92.5)	—	(92.5)	—	(11.6)	—	(11.6)
Total liabilities measured at fair value on a recurring basis	\$ —	\$ (125.0)	\$ —	\$ (125.0)	\$ —	\$ (26.5)	\$ —	\$ (26.5)

The Company's Level 2 available-for-sale debt securities are priced using quoted market prices for similar instruments or non-binding market prices that are corroborated by observable market data. The Company uses inputs such as actual trade data, benchmark yields, broker/dealer quotes, or alternative pricing sources with reasonable levels of price transparency which are obtained from quoted market prices, independent pricing vendors, or other sources, to determine the ultimate fair value of these assets. The Company's derivative instruments are classified as Level 2, as they are not actively traded and are valued using pricing models that use observable market inputs. During the years ended December 31, 2022 and 2021, the Company had no transfers into or out of Level 3 of the fair value hierarchy of its assets or liabilities measured at fair value.

The Company's privately-held debt and redeemable preferred stock securities are classified as Level 3 assets due to the lack of observable inputs to determine fair value. The Company estimates the fair value of its privately-held debt and redeemable preferred stock securities on a recurring basis using an analysis of the financial condition and near-term prospects of the investee, including recent valuations at the time of financing activities and the investee's capital structure. During the year ended December 31, 2022, the Company had no material realized gains or losses from the disposal of securities related to privately-held debt and redeemable preferred stock securities.

Assets and Liabilities Measured at Fair Value on a Nonrecurring Basis

The Company's investments in equity securities without readily determinable fair value are classified as Level 3 assets due to the lack of observable inputs to determine fair value. The Company estimates the fair value of equity securities without readily determinable fair value and investments accounted for under the equity method of accounting, on a nonrecurring basis using an analysis of the financial condition and near-term prospects of the investee, including recent financing activities and the investee's capital structure. As of December 31, 2022 and 2021, there have been no material upward or downward adjustments for price changes to the equity securities without readily determinable fair value.

Certain of the Company's assets, including intangible assets and goodwill, are measured at fair value on a nonrecurring basis. There were no significant impairment charges recognized during the years ended December 31, 2022, 2021, and 2020.

As of December 31, 2022 and 2021, the Company had no liabilities required to be measured at fair value on a nonrecurring basis.

Assets and Liabilities Not Measured at Fair Value

The carrying amounts of the Company's accounts receivable, accounts payable, and other accrued liabilities approximate fair value due to their short maturities. As of December 31, 2022 and December 31, 2021, the estimated fair value of the Company's total outstanding debt in the Consolidated Balance Sheets was \$1,485.6 million and \$1,845.6 million, respectively, based on observable market inputs (Level 2).

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 5. Derivative Instruments

The notional amount of the Company's derivative instruments is summarized as follows (in millions):

	As of December 31,	
	2022	2021
Designated derivatives:		
Cash flow hedges:		
Foreign currency contracts	\$ 775.9	\$ 873.9
Interest rate lock contracts	650.0	650.0
Fair value hedges:		
Interest rate swap contracts	600.0	600.0
Total designated derivatives	\$ 2,025.9	\$ 2,123.9
Non-designated derivatives	163.5	144.6
Total	\$ 2,189.4	\$ 2,268.5

The fair value of derivative instruments on the Consolidated Balance Sheets was as follows:

		As of December 31,	
		2022	2021
Derivative assets:			
Derivatives designated as hedging instruments:			
Foreign currency contracts as cash flow hedges	Other current assets	\$ 0.7	\$ 8.7
Foreign currency contracts as cash flow hedges	Other long-term assets	0.5	0.4
Interest rate lock contracts	Other long-term assets	125.4	45.0
Interest rate swap contracts	Other long-term assets	—	2.1
Total derivatives designated as hedging instruments		\$ 126.6	\$ 56.2
Derivatives not designated as hedging instruments	Other current assets	0.1	0.1
Total derivative assets		\$ 126.7	\$ 56.3
Derivative liabilities:			
Derivatives designated as hedging instruments:			
Foreign currency contracts	Other accrued liabilities	\$ 32.3	\$ 14.8
Foreign currency contracts	Other long-term liabilities	5.1	9.1
Interest rate swap contracts	Other long-term liabilities	87.4	2.5
Total derivatives designated as hedging instruments		\$ 124.8	\$ 26.4
Derivatives not designated as hedging instruments	Other accrued liabilities	0.2	0.1
Total derivative liabilities		\$ 125.0	\$ 26.5

Offsetting of Derivative Instruments

The Company presents its derivative instruments at gross fair values in the Consolidated Balance Sheets. As of December 31, 2022 and December 31, 2021 the potential effects of set-off associated with the derivative contracts would be a reduction to both derivative assets and derivative liabilities by \$73.8 million and \$17.5 million, respectively.

Designated Derivatives

The Company uses foreign currency forward contracts or options contracts to hedge the Company's planned cost of revenues and operating expenses denominated in foreign currencies. These derivatives are designated as cash flow hedges and typically have maturities of thirty-six months or less.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

The Company enters into interest rate swaps, designated as fair value hedges, to convert the fixed interest rates of certain Senior Notes ("Notes") to floating interest rates. In April 2021, the Company entered into swaps for an aggregate notional amount of \$300.0 million for its fixed-rate Notes maturing in December 2030 in addition to the swaps entered in 2019 for an aggregate notional amount of \$300.0 million for its fixed-rate Notes maturing in March 2041. The interest rate swaps will expire within eight years.

In 2020, the Company entered into interest rate locks with large financial institutions, which fix the benchmark interest rates of future debt issuances for an aggregate notional amount of \$650.0 million. These contracts are designated as cash flow hedges and are expected to terminate within three years.

Effect of Derivative Instruments on the Consolidated Statements of Operations

For cash flow hedges, the Company recognized an unrealized gain of \$33.1 million, unrealized loss of \$9.1 million and unrealized gain of \$63.5 million in accumulated other comprehensive loss for the effective portion of its derivative instruments during the years ended December 31, 2022, 2021, and 2020, respectively.

For foreign currency contracts, the Company reclassified a loss of \$25.8 million, a gain of \$28.9 million and a loss of \$9.0 million out of accumulated other comprehensive loss to cost of revenues and operating expenses in the Consolidated Statements of Operations during the years ended December 31, 2022, 2021, and 2020, respectively. As of December 31, 2022, an estimated \$31.7 million of unrealized net loss within accumulated other comprehensive loss is expected to be reclassified into earnings within the next twelve months.

Non-Designated Derivatives

The Company also uses foreign currency forward contracts to mitigate variability in gains and losses generated from the remeasurement of certain monetary assets and liabilities denominated in foreign currencies. These foreign exchange forward contracts typically have maturities of approximately one to four months. The outstanding non-designated derivative instruments are carried at fair value. Changes in the fair value of these derivatives, which were recorded in Other expense, net within the Consolidated Statements of Operations were not material during the years ended December 31, 2022, 2021, and 2020, respectively.

See Note 1, *Description of Business, Basis of Presentation and Significant Accounting Policies*, for the Company's policy regarding the offsetting of derivative assets and derivative liabilities.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 6. Goodwill and Purchased Intangible Assets
Goodwill

The Company's goodwill activity was as follows (in millions):

	Total
December 31, 2020	\$ 3,669.6
Additions due to business combinations	92.5
December 31, 2021	3,762.1
Other (*)	(27.7)
December 31, 2022	\$ 3,734.4

(*) Other primarily consists of \$28.9 million reduction in goodwill due to the divestiture of the Company's silicon photonics business. See Note 2, *Divestiture*, for further discussion.

We conducted our annual impairment test of goodwill during the fourth quarter of 2022; the estimated fair value of our reporting unit was substantially in excess of the carrying value. There was no goodwill impairment during the years ended December 31, 2022, 2021, and 2020.

Purchased Intangible Assets

The Company's purchased intangible assets, net, were as follows (in millions):

	As of December 31, 2022				As of December 31, 2021			
	Gross	Accumulated Amortization	Accumulated Impairments and Other Charges	Net	Gross	Accumulated Amortization	Accumulated Impairments and Other Charges	Net
Finite-lived intangible assets:								
Technologies and patents	\$ 913.1	\$ (721.3)	\$ (55.1)	\$ 136.7	\$ 913.1	\$ (660.7)	\$ (55.1)	\$ 197.3
Customer contracts, support agreements, and related relationships	136.3	(111.2)	(2.8)	22.3	136.3	(98.6)	(2.8)	34.9
Trade names and other	9.6	(8.1)	—	1.5	9.6	(6.5)	—	3.1
Total	1,059.0	(840.6)	(57.9)	160.5	1,059.0	(765.8)	(57.9)	235.3
Indefinite-lived intangible assets:								
IPR&D	—	—	—	—	49.0	—	—	49.0
Total purchased intangible assets	\$ 1,059.0	\$ (840.6)	\$ (57.9)	\$ 160.5	\$ 1,108.0	\$ (765.8)	\$ (57.9)	\$ 284.3

Amortization expense related to purchased intangible assets with finite lives was \$74.8 million, \$79.5 million, and \$40.6 million for the years ended December 31, 2022, 2021, and 2020, respectively. There were no significant impairment charges related to purchased intangible assets during the years ended December 31, 2022, 2021, and 2020. In 2022, \$49.0 million of IPR&D was derecognized due to the divestiture of the Company's silicon photonics business. See Note 2, *Divestiture*, for further discussion.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

As of December 31, 2022, the estimated future amortization expense of purchased intangible assets with finite lives was as follows (in millions):

<u>Years Ending December 31,</u>	<u>Amount</u>
2023	\$ 68.8
2024	49.2
2025	39.6
2026	2.9
2027	—
Total	<u>\$ 160.5</u>

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 7. Other Financial Information

Total Inventory

Total inventory consisted of the following (in millions):

	As of December 31,	
	2022	2021
Production and service materials	\$ 479.6	\$ 208.6
Finished goods	163.3	75.6
Total inventory	<u>\$ 642.9</u>	<u>\$ 284.2</u>
Reported as:		
Inventory	\$ 619.4	\$ 272.6
Other long-term assets	23.5	11.6
Total inventory	<u>\$ 642.9</u>	<u>\$ 284.2</u>

Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consisted of the following (in millions):

	As of December 31,	
	2022	2021
Contract manufacturer deposits	\$ 434.7	\$ 223.8
Prepaid expenses	104.3	104.3
Other current assets	141.0	123.5
Total prepaid expenses and other current assets	<u>\$ 680.0</u>	<u>\$ 451.6</u>

Property and Equipment, Net

Property and equipment, net, consisted of the following (in millions):

	As of December 31,	
	2022	2021
Computers and equipment	\$ 940.0	\$ 1,023.5
Software	220.3	226.8
Leasehold improvements	189.2	197.6
Furniture and fixtures	45.4	46.8
Building and building improvements	271.9	269.3
Land and land improvements	243.6	243.5
Construction-in-process	12.1	11.2
Property and equipment, gross	1,922.5	2,018.7
Accumulated depreciation	(1,255.7)	(1,315.7)
Property and equipment, net	<u>\$ 666.8</u>	<u>\$ 703.0</u>

Depreciation expense was \$137.7 million, \$151.0 million, and \$166.2 million in 2022, 2021, and 2020, respectively.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Warranties

Changes in the Company's warranty reserve were as follows (in millions):

	As of December 31,	
	2022	2021
Beginning balance	\$ 33.0	\$ 30.2
Provisions made during the period, net	30.1	39.5
Actual costs incurred during the period	(33.6)	(36.7)
Ending balance	\$ 29.5	\$ 33.0

Deferred Revenue

Details of the Company's deferred revenue, as reported in the Consolidated Balance Sheets, were as follows (in millions):

	As of December 31,	
	2022	2021
Deferred product revenue, net	\$ 108.8	\$ 129.1
Deferred service revenue, net	1,554.3	1,284.5
Total	\$ 1,663.1	\$ 1,413.6
Reported as:		
Current	\$ 1,020.5	\$ 937.9
Long-term	642.6	475.7
Total	\$ 1,663.1	\$ 1,413.6

Revenue

See Note 12, *Segments*, for disaggregated revenue by customer solution, customer vertical, and geographic region.

Product revenue of \$51.9 million included in deferred revenue at January 1, 2022 was recognized during the year ended December 31, 2022. Service revenue of \$808.4 million included in deferred revenue at January 1, 2022 was recognized during the year ended December 31, 2022.

Remaining Performance Obligations

Remaining Performance Obligations (RPO) are comprised mainly of deferred product and service revenue, and to a lesser extent, unbilled service revenue from non-cancellable contracts for which the Company has not invoiced and has an obligation to perform, and for which revenue has not yet been recognized in the financial statements.

The following table summarizes the breakdown of RPO as of December 31, 2022 and when the Company expects to recognize the amounts as revenue (in millions):

	Revenue Recognition Expected by Period			
	Total	Less than 1 year	1-3 years	More than 3 years
Product	\$ 114.3	\$ 96.9	\$ 14.3	\$ 3.1
Service	1,563.7	938.3	474.6	150.8
Total	\$ 1,678.0	\$ 1,035.2	\$ 488.9	\$ 153.9

Deferred Commissions

Deferred commissions were \$28.2 million and \$34.9 million as of December 31, 2022 and 2021, respectively. During the years ended December 31, 2022 and 2021, amortization expense for the deferred commissions were \$199.4 million and \$189.8 million, respectively, and there were no material impairment charges recognized.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Other Expense, Net

Other expense, net consisted of the following (in millions):

	Years Ended December 31,		
	2022	2021	2020
Interest income	\$ 19.6	\$ 14.9	\$ 36.3
Interest expense	(58.6)	(50.8)	(77.0)
Gain on investments, net	8.8	17.6	13.3
Other	1.6	1.5	(5.5)
Other expense, net	<u>\$ (28.6)</u>	<u>\$ (16.8)</u>	<u>\$ (32.9)</u>

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 8. Restructuring Charges

The following table presents restructuring charges included in the Consolidated Statements of Operations (in millions):

	Years Ended December 31,		
	2022	2021	2020
Severance	\$ 12.4	\$ 13.6	\$ 62.8
Contract terminations and facility exit-related	7.8	29.3	5.2
Total	\$ 20.2	\$ 42.9	\$ 68.0

2022 Restructuring Plan

In 2022, the Company initiated a restructuring plan (the "2022 Restructuring Plan") designed to enable reinvestment in certain key priority areas to align with strategic changes, which resulted in severance costs from workforce reductions and facility exit-related costs. As of December 31, 2022, activities under the Company's 2022 Restructuring Plan are expected to be substantially completed in the first half of 2023.

Prior Restructuring Activities

In 2021, the Company initiated a restructuring plan (the "2021 Restructuring Plan") driven by acquisitions and strategic changes and designed to enable reinvestment in certain key priority areas, which resulted in severance, facility consolidations, contract terminations, and other exit related costs. As of December 31, 2022, activities under the Company's 2021 Restructuring Plan have been substantially completed.

In 2020, the Company initiated a restructuring plan (the "2020 Restructuring Plan") designed to realign its workforce with the Company's sales strategy, enhance productivity and cost efficiencies, and enable reinvestment in certain key priority areas, which resulted in severance costs from involuntary workforce reduction, as well as a voluntary early retirement program, and other exit related costs, including impairment charges.

Restructuring Liabilities

Restructuring liabilities are reported within other accrued liabilities in the Consolidated Balance Sheets. The following table provides a summary of changes in the restructuring liabilities associated with the 2022 Restructuring Plan and 2021 Restructuring Plan (in millions):

	December 31, 2021	Charges	Cash Payments	Other	December 31, 2022
Severance	\$ 1.4	\$ 12.4	\$ (10.9)	\$ 0.1	\$ 3.0
Contract terminations and facility exit-related	10.9	7.8	(13.6)	(2.0)	3.1
Total	\$ 12.3	\$ 20.2	\$ (24.5)	\$ (1.9)	\$ 6.1

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 9. Debt and Financing
Debt

The following table summarizes the Company's total debt (in millions, except percentages):

	Maturity Date	Effective Interest Rates	As of December 31,	
			2022	2021
Senior Notes ("Notes"):				
1.200% fixed-rate notes	December 2025	1.37 %	\$ 400.0	\$ 400.0
3.750% fixed-rate notes	August 2029	3.86 %	500.0	500.0
2.000% fixed-rate notes	December 2030	2.12 %	400.0	400.0
5.950% fixed-rate notes	March 2041	6.03 %	400.0	400.0
Total Notes			1,700.0	1,700.0
Unaccreted discount and debt issuance costs			(11.3)	(12.9)
Hedge accounting fair value adjustments ^(*)			(87.4)	(0.3)
Total			\$ 1,601.3	\$ 1,686.8

^(*) Represents the fair value adjustments for interest rate swaps with an aggregate notional amount of \$600.0 million. These interest rate swaps convert the fixed interest rates of certain Notes to floating interest rates and are designated as fair value hedges. See Note 5, *Derivative Instruments*, for a discussion of the Company's interest rate swaps.

The Notes above are the Company's senior unsecured and unsubordinated obligations, ranking equally in right of payment to all of the Company's existing and future senior unsecured and unsubordinated indebtedness, and senior in right of payment to any of the Company's future indebtedness that is expressly subordinated to the Notes.

As of December 31, 2022, the Company's aggregate debt maturities based on outstanding principal were as follows (in millions):

Years Ending December 31,	Amount
2023	\$ —
2024	—
2025	400.0
2026	—
2027	—
Thereafter	1,300.0
Total	\$ 1,700.0

The Company may redeem the Notes, either in whole or in part, at any time at a redemption price equal to the greater of (i) 100% of the aggregate principal amount of the Notes to be redeemed or (ii) the sum of the present values of the remaining scheduled payments discounted to the redemption date, plus, in either case, accrued and unpaid interest, if any.

In the event of a change of control repurchase event, the holders of the Notes may require the Company to repurchase for cash all or part of the Notes at a purchase price equal to 101% of the aggregate principal amount, plus accrued and unpaid interest, if any.

Interest on the Notes is payable in cash semiannually. The effective interest rates for the Notes include the interest on the Notes, accretion of the discount, and amortization of issuance costs. The indenture and supplemental indentures (together, the "indentures") that govern the Notes also contain various covenants, including limitations on the Company's ability to incur liens or enter into sale-leaseback transactions over certain dollar thresholds.

As of December 31, 2022, the Company was in compliance with all covenants in the indentures governing the Notes.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Revolving Credit Facility

In April 2019, the Company entered into a credit agreement (the "Credit Agreement") with certain institutional lenders that provides for a five-year \$500.0 million unsecured revolving credit facility (the "Revolving Credit Facility"), with an option to increase the Revolving Credit Facility by up to an additional \$200.0 million, subject to the lenders' approval. Proceeds of loans made under the Revolving Credit Facility may be used by the Company for working capital and general corporate purposes. The Revolving Credit Facility will terminate in April 2024.

Borrowings under the Revolving Credit Facility will bear interest, at either (i) a floating rate per annum equal to the base rate plus a margin of between 0.000% and 0.375%, depending on the Company's public debt rating or (ii) a per annum rate equal to the reserve adjusted Eurocurrency rate, plus a margin of between 0.910% and 1.375%, depending on the Company's public debt rating. Base rate is defined as the greatest of (A) Citibank's base rate, (B) the federal funds rate plus 0.500% or (C) the ICE Benchmark Administration Settlement Rate applicable to dollars for a period of one month plus 1.00%. The Eurocurrency rate is determined for U.S. dollars and Pounds Sterling as the rate at which deposits in such currency are offered in the London interbank market for the applicable interest period and for Euro as the rate specified for deposits in Euro with a maturity comparable to the applicable interest period.

On December 17, 2021, an amendment to the Credit Agreement was executed that defines the Secured Overnight Financing Rate (SOFR) as the benchmark rate for U.S. dollar borrowings in the absence of LIBOR, and the Sterling Overnight Index Average (SONIA) as the benchmark rate for Pounds Sterling borrowings following the cessation of GBP LIBOR on December 31, 2021.

The Revolving Credit Facility requires the Company to maintain a leverage ratio no greater than 3.0x (provided that if a material acquisition has been consummated, the Company is permitted to maintain a leverage ratio no greater than 3.5x for up to four quarters) and an interest coverage ratio no less than 3.0x during the term of the credit facility.

As of December 31, 2022, no amounts were outstanding under the Revolving Credit Facility and the Company was in compliance with all covenants in the Credit Agreement.

Financing Arrangements

The Company provides certain customers with access to extended financing arrangements that allow for longer payment terms than those typically provided by the Company by factoring accounts receivable to third-party financing providers ("financing providers"). The program does not and is not intended to affect the timing of the Company's revenue recognition. Under the financing arrangements, proceeds from the financing providers are due to the Company within 1 to 90 days from the sale of the receivable. In these transactions with the financing providers, the Company surrenders control over the transferred assets.

Pursuant to the financing arrangements for the sale of receivables, the Company sold receivables of \$50.6 million, \$31.9 million and \$57.5 million during the years ended December 31, 2022, 2021, and 2020, respectively. The Company received cash proceeds from financing providers of \$41.5 million, \$32.5 million, and \$57.4 million during the years ended December 31, 2022, 2021, and 2020, respectively. As of December 31, 2022 and December 31, 2021, the amounts owed by the financing providers were \$11.8 million and \$3.2 million, respectively, which were recorded in accounts receivable on the Company's Consolidated Balance Sheets.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 10. Equity

The following table summarizes dividends paid, stock repurchases and retirements under the Company's stock repurchase programs, and stock repurchases for tax withholdings (in millions, except per share amounts):

Year	Dividends		Stock Repurchases				Total	
	Per Share	Amount	Shares	Average price per share ^(*)	Amount	Tax Withholding Amount	Amount	
2022	\$ 0.84	\$ 270.4	9.2	\$ 32.32	\$ 299.7	\$ 15.4	\$ 585.5	
2021	\$ 0.80	\$ 259.1	15.7	\$ 27.56	\$ 433.3	\$ 10.2	\$ 702.6	
2020	\$ 0.80	\$ 264.1	17.9	\$ 23.47	\$ 375.0	\$ 6.2	\$ 645.3	

(*) \$23.47 average price per share for 2020 includes \$375.0 million in open market purchases, and settlement of the forward contract of \$40.0 million under the ASR, which was initiated during the fourth quarter of 2019.

Cash Dividends on Shares of Common Stock

During 2022, 2021, and 2020, the Company declared and paid quarterly cash dividends of \$0.21, \$0.20, and \$0.20 per common share, totaling \$270.4 million, \$259.1 million, and \$264.1 million, respectively, on its outstanding common stock. Any future dividends, and the establishment of record and payment dates, are subject to approval by the Board of Directors (the "Board") of Juniper or an authorized committee thereof. See Note 16, *Subsequent Events*, for discussion of the Company's dividend declaration subsequent to December 31, 2022.

Stock Repurchase Activities

In January 2018, the Board approved a \$2.0 billion share repurchase program ("2018 Stock Repurchase Program"). In October 2019, the Board authorized a \$1.0 billion increase to the 2018 Stock Repurchase Program for a total of \$3.0 billion.

During the fiscal year ended December 31, 2022, the Company repurchased 9.2 million shares of its common stock in the open market at an average price of \$32.32 per share for an aggregate purchase price of \$299.7 million under the 2018 Stock Repurchase Program.

As of December 31, 2022, there were \$0.6 billion of authorized funds remaining under the 2018 Stock Repurchase Program. See Note 16, *Subsequent Events*, for a discussion of the Company's stock repurchase activity subsequent to December 31, 2022.

Future share repurchases under the 2018 Stock Repurchase Program will be subject to a review of the circumstances at that time and will be made from time to time in private transactions or open market purchases as permitted by securities laws and other legal requirements.

In addition to repurchases under the 2018 Stock Repurchase Program, the Company withholds shares of common stock from certain employees in connection with the vesting of stock awards issued to such employees to satisfy applicable tax withholding requirements. Such withheld shares are treated as common stock repurchases in our financial statements as they reduce the number of shares that would have been issued upon vesting. Repurchases associated with tax withholdings were \$15.4 million, \$10.2 million, and \$6.2 million during 2022, 2021, and 2020, respectively.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Accumulated Other Comprehensive Income (Loss), Net of Tax

The components of accumulated other comprehensive income (loss), net of related taxes, for the years ended December 31, 2022, 2021, and 2020 were as follows (in millions):

	Unrealized Gains/Losses on Available-for- Sale Debt Securities ⁽¹⁾	Unrealized Gains/Losses on Cash Flow Hedges ⁽²⁾	Foreign Currency Translation Adjustments	Total
Balance as of December 31, 2019	\$ 29.7	\$ (4.3)	\$ (43.9)	\$ (18.5)
Other comprehensive income before reclassifications	5.7	54.4	7.7	67.8
Amount reclassified from accumulated other comprehensive income (loss)	(1.3)	7.6	—	6.3
Other comprehensive income, net	4.4	62.0	7.7	74.1
Balance as of December 31, 2020	\$ 34.1	\$ 57.7	\$ (36.2)	\$ 55.6
Other comprehensive loss before reclassifications	(5.0)	(13.5)	(12.8)	(31.3)
Amount reclassified from accumulated other comprehensive income (loss)	(1.2)	(25.2)	—	(26.4)
Other comprehensive loss, net	(6.2)	(38.7)	(12.8)	(57.7)
Balance as of December 31, 2021	\$ 27.9	\$ 19.0	\$ (49.0)	\$ (2.1)
Other comprehensive (loss) income before reclassifications	(6.5)	15.7	(30.1)	(20.9)
Amount reclassified from accumulated other comprehensive income	0.4	26.8	—	27.2
Other comprehensive (loss) income, net	(6.1)	42.5	(30.1)	6.3
Balance as of December 31, 2022	\$ 21.8	\$ 61.5	\$ (79.1)	\$ 4.2

⁽¹⁾ The reclassifications out of accumulated other comprehensive income (loss) during the years ended December 31, 2022, 2021, and 2020 for realized gains on available-for-sale debt securities were not material, and were included in other expense, net, in the Consolidated Statements of Operations.

⁽²⁾ The reclassifications out of accumulated other comprehensive income (loss) for realized gains and losses on cash flow hedges was \$25.8 million, \$28.9 million and \$(8.9) million for the year ended December 31, 2022, 2021 and 2020, respectively. The reclassified amounts were included within cost of revenues, research and development, sales and marketing, and general and administrative in the Consolidated Statements of Operations.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 11. Employee Benefit Plans***Equity Incentive Plans***

The Company's equity incentive plans include the 2015 Equity Incentive Plan (the "2015 Plan") and the 2008 Employee Stock Purchase Plan (the "ESPP"). The Company has granted RSUs and PSAs under the 2015 Plan and purchase rights under the ESPP. In addition, in connection with certain past acquisitions, the Company has assumed or substituted stock options, RSUs, RSAs, and PSAs granted under the stock plans of the acquired companies. Such awards were converted into or replaced with the Company's stock options, RSUs, RSAs, and PSAs, respectively.

The 2015 Plan was adopted and approved by the Company's stockholders in May 2015 and had an initial authorized share reserve of 38.0 million shares of common stock, plus the addition of any shares subject to outstanding awards under the 2006 Equity Incentive Plan and the Amended and Restated 1996 Stock Plan that were outstanding as of May 19, 2015, and that subsequently expire or otherwise terminate, up to a maximum of an additional 29.0 million shares. In May 2017, the Company's stockholders approved an additional 23.0 million shares of common stock for issuance under the 2015 Plan, and in May 2019, the Company's stockholders approved an additional 3.7 million shares of common stock for issuance under the 2015 Plan. As of December 31, 2022, an aggregate of 16.6 million shares were subject to outstanding equity awards and 3.4 million shares were available for future issuance under the 2015 Plan.

The ESPP was adopted and approved by the Company's stockholders in May 2008. In May 2020, the Company's stockholders approved an additional 8.0 million shares of common stock for issuance under the ESPP. To date, the Company's stockholders have approved a share reserve of 43.0 million shares of the Company's common stock for issuance under the ESPP. The ESPP permits eligible employees to acquire shares of the Company's common stock at a 15% discount (as determined in the ESPP) through periodic payroll deductions of up to 10% of base compensation, subject to individual purchase limits of 6,000 shares in any twelve-month period or \$25,000 worth of stock, determined at the fair market value of the shares at the time the stock purchase option is granted, in one calendar year. The ESPP provides 24 month offering periods with four 6-month purchase periods. A new 24-month offering period will commence every six months thereafter. The purchase price for the Company's common stock under the ESPP is 85% of the lower of the fair market value of the shares at (1) the beginning of the applicable offering period or (2) the end of each 6-month purchase period during such offering period. The ESPP will continue in effect until February 25, 2028, unless terminated earlier under the provisions of the ESPP. As of December 31, 2022, approximately 36.8 million shares have been issued and 6.2 million shares remain available for future issuance under the ESPP.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

RSU, RSA, and PSA Activities

RSUs generally vest over three years from the date of grant, and RSAs and PSAs generally vest over a period of two to three years provided that certain annual performance targets and other vesting criteria are met. Until vested, RSUs and PSAs do not have the voting and dividend participation rights of common stock and the shares underlying the awards are not considered issued and outstanding.

The following table summarizes the Company's RSU, RSA, and PSA activity and related information as of and for the year ended December 31, 2022 (in millions, except per share amounts and years):

	Outstanding RSUs, RSAs, and PSAs			
	Number of Shares	Weighted Average Grant-Date Fair Value per Share	Weighted Average Remaining Contractual Term (In Years)	Aggregate Intrinsic Value
Balance at December 31, 2021	22.2	\$ 24.55		
Granted ⁽¹⁾⁽²⁾	9.4	29.62		
Vested ⁽³⁾	(8.3)	24.44		
Canceled	(3.1)	25.76		
Balance at December 31, 2022	20.2	\$ 26.78	1.2	\$ 646.6
As of December 31, 2022				
Vested and expected-to-vest RSUs, RSAs, and PSAs	16.6	\$ 27.28	1.2	\$ 531.5

(1) Includes 7.8 million service-based, 1.2 million performance-based, and 0.4 million market-based awards. The number of shares subject to performance-based and market-based conditions represents the aggregate maximum number of shares that may be issued pursuant to the award over its full term. The grant date fair value of RSUs and PSAs was reduced by the present value of dividends expected to be paid on the underlying shares of common stock during the requisite and derived service period as these awards are not entitled to receive dividends until vested.

(2) The weighted-average grant-date fair value of RSUs, RSAs, and PSAs granted and assumed or substituted during 2022, 2021, and 2020 was \$29.62, \$26.21, and \$21.59, respectively. The grant date fair value of RSUs and PSAs was reduced by the present value of dividends expected to be paid on the underlying shares of common stock during the requisite and derived service period as these awards are not entitled to receive dividends until vested. During 2022, the Company declared a quarterly cash dividend of \$0.21 per share of common stock on January 27, 2022, April 26, 2022, July 26, 2022, and October 25, 2022.

(3) Total fair value of RSUs, RSAs, and PSAs vested during 2022, 2021, and 2020 was \$202.2 million, \$184.2 million, and \$174.7 million, respectively.

Shares Available for Grant

The following table presents the stock activity and the total number of shares available for grant under the 2015 Plan (in millions):

	Number of Shares
Balance as of December 31, 2021	5.1
Additional shares authorized	4.5
Options, RSUs, and PSAs granted ^(*)	(9.0)
RSUs and PSAs canceled ^(*)	2.8
Balance as of December 31, 2022	3.4

(*) In May 2019, the 2015 Plan was amended, and the amendment removed the fungible share adjustment used to determine shares available for issuance. Under the original terms of the 2015 Plan, RSUs and PSAs with a per share or unit purchase price lower than 100% of the fair market value of the Company's common stock on the day of the grant were counted against shares authorized under the plan as two and one-tenth shares of common stock ("the prior fungible rate") for each share subject to such award. Pursuant to the amendment, beginning on May 14, 2019, each share award granted under the 2015 Plan reduces the share reserve by one share and all share awards granted on May 14, 2019, and thereafter that are later forfeited, canceled or terminated are returned to the share reserve in the same manner. During 2022, among the total 2.8 million of canceled shares, 0.9 million shares represent the shares returned to the share reserve at the prior fungible rate. The number of shares subject to PSAs granted represents the maximum number of shares that may be issued pursuant to the award over its full term.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Employee Stock Purchase Plan

During 2022, 2021, and 2020, employees purchased 2.6 million, 2.8 million, and 2.7 million shares of common stock through the ESPP at an average exercise price of \$21.59, \$19.81, and \$19.59 per share, respectively.

Valuation Assumptions

The weighted-average assumptions used and the resulting estimates of fair value for ESPP purchase rights and market-based RSUs were as follows:

	Years Ended December 31,		
	2022	2021	2020
ESPP Purchase Rights:			
Volatility	29%	32%	31%
Risk-free interest rate	1.1%	0.1%	0.8%
Expected life (years)	1.3	1.3	1.3
Dividend yield	2.5%	3.0%	3.3%
Weighted-average fair value per share	\$8.84	\$6.96	\$6.34
Market-based RSUs:			
Volatility	30%	30%	25%
Risk-free interest rate	1.7%	0.2%	1.3%
Dividend yield	2.5%	3.4%	3.3%
Weighted-average fair value per share	\$47.96	\$30.70	\$26.32

Share-Based Compensation Expense

Share-based compensation expense associated with stock options, RSUs, RSAs, PSAs, and ESPP purchase rights was recorded in the following cost and expense categories in the Company's Consolidated Statements of Operations (in millions):

	Years Ended December 31,		
	2022	2021	2020
Cost of revenues - Product	\$ 5.9	\$ 5.3	\$ 5.4
Cost of revenues - Service	17.4	18.2	15.8
Research and development	84.0	93.1	78.8
Sales and marketing	59.1	65.9	58.2
General and administrative	42.9	40.1	31.4
Total	\$ 209.3	\$ 222.6	\$ 189.6

The following table summarizes share-based compensation expense by award type (in millions):

	Years Ended December 31,		
	2022	2021	2020
Stock options	\$ 5.4	\$ 9.3	\$ 7.3
RSUs, RSAs, and PSAs	181.9	196.2	162.6
ESPP Purchase Rights	22.0	17.1	19.7
Total	\$ 209.3	\$ 222.6	\$ 189.6

For the years ended December 31, 2022, 2021, and 2020, the Company recognized tax benefits on total stock-based compensation expense, which are reflected in the income tax provision in the Consolidated Statements of Operations, of \$25.7 million, \$28.2 million, and \$23.5 million, respectively.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

For the years ended December 31, 2022, 2021, and 2020, the realized tax benefit related to awards vested or exercised during the period was \$38.6 million, \$31.7 million, and \$21.7 million, respectively. These amounts do not include the indirect effects of stock-based awards, which primarily relate to the research and development tax credit.

As of December 31, 2022, the total unrecognized compensation cost related to unvested share-based awards was \$362.2 million to be recognized over a weighted-average period of 1.6 years.

401(k) Plan

The Company maintains a savings and retirement plan qualified under Section 401(k) of the Internal Revenue Code of 1986, as amended (the "IRC"). Employees meeting the eligibility requirements, as defined under the IRC, may contribute up to the statutory limits each year. The Company currently matches 30% of all eligible employee contributions which vest immediately. The Company's matching contributions to the plan totaled \$23.5 million, \$22.3 million, and \$22.0 million during 2022, 2021, and 2020, respectively.

Deferred Compensation Plan

The Company's NQDC plan is an unfunded and unsecured deferred compensation arrangement. Under the NQDC plan, officers and other senior employees may elect to defer a portion of their compensation and contribute such amounts to one or more investment funds. As of December 31, 2022, the liability of the Company to the plan participants was \$28.1 million, of which \$2.4 million was included within other accrued liabilities and \$25.7 million was included in other long-term liabilities on the Consolidated Balance Sheets. The Company had investments of \$28.1 million correlating to the deferred compensation obligations, of which \$2.4 million was included within prepaid expenses and other current assets and \$25.7 million was included within other long-term assets on the Consolidated Balance Sheets. As of December 31, 2021, the liability of the Company was \$33.3 million, of which \$4.4 million was included within other accrued liabilities and \$28.9 million was included in other long-term liabilities on the Consolidated Balance Sheets. The Company had investments of \$33.3 million correlating to the deferred compensation obligations, of which \$4.4 million was included within prepaid expenses and other current assets and \$28.9 million was included within other long-term assets on the Consolidated Balance Sheets.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 12. Segments

The Company operates in one reportable segment. The Company's chief executive officer, who is the chief operating decision maker, reviews financial information presented on a consolidated basis for purposes of allocating resources and evaluating financial performance, accompanied by disaggregated information about net revenues by customer solution, customer vertical, and geographic region as presented below.

The following table presents net revenues by customer solution (in millions):

	Years Ended December 31,		
	2022	2021	2020
Customer Solutions:			
Automated WAN Solutions	\$ 1,865.3	\$ 1,665.0	\$ 1,622.2
Cloud-Ready Data Center	878.9	727.1	677.1
AI-Driven Enterprise	1,026.2	830.4	656.2
Hardware Maintenance and Professional Services	1,530.8	1,512.9	1,489.6
Total	<u>\$ 5,301.2</u>	<u>\$ 4,735.4</u>	<u>\$ 4,445.1</u>

The following table presents net revenues by customer vertical (in millions):

	Years Ended December 31,		
	2022	2021	2020
Cloud	\$ 1,393.6	\$ 1,228.0	\$ 1,081.2
Service Provider	1,891.2	1,839.1	1,761.7
Enterprise	2,016.4	1,668.3	1,602.2
Total	<u>\$ 5,301.2</u>	<u>\$ 4,735.4</u>	<u>\$ 4,445.1</u>

The Company attributes revenues to geographic region based on the customer's shipping address. The following table presents net revenues by geographic region (in millions):

	Years Ended December 31,		
	2022	2021	2020
Americas:			
United States	\$ 2,931.6	\$ 2,426.9	\$ 2,233.9
Other	225.2	222.2	211.2
Total Americas	3,156.8	2,649.1	2,445.1
Europe, Middle East, and Africa	1,370.0	1,314.5	1,233.8
Asia Pacific	774.4	771.8	766.2
Total	<u>\$ 5,301.2</u>	<u>\$ 4,735.4</u>	<u>\$ 4,445.1</u>

During the years ended December 31, 2022, 2021, and 2020, no customer accounted for greater than 10% of the Company's net revenues.

The following table presents geographic information for property and equipment, net (in millions).

	As of December 31,	
	2022	2021
United States	\$ 579.3	\$ 623.4
International	87.5	79.6
Property and equipment, net	<u>\$ 666.8</u>	<u>\$ 703.0</u>

The Company tracks assets by physical location. The majority of the Company's assets, excluding cash and cash equivalents and investments, as of December 31, 2022 and December 31, 2021, were attributable to U.S. operations.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 13. Income Taxes

The components of pretax income are summarized as follows (in millions):

	Years Ended December 31,		
	2022	2021	2020
Domestic	\$ 509.5	\$ 264.6	\$ 204.2
Foreign	26.8	45.5	61.0
Total pretax income	<u>\$ 536.3</u>	<u>\$ 310.1</u>	<u>\$ 265.2</u>

The provision (benefit) for income taxes is summarized as follows (in millions):

	Years Ended December 31,		
	2022	2021	2020
Current provision (benefit):			
Federal	\$ 223.6	\$ 63.4	\$ 73.4
States	23.9	15.9	20.3
Foreign	36.2	48.2	(21.6)
Total current provision (benefit)	<u>283.7</u>	<u>127.5</u>	<u>72.1</u>
Deferred (benefit) provision:			
Federal	(199.3)	(54.3)	(58.7)
States	(13.6)	(4.1)	(6.6)
Foreign	(10.3)	(11.7)	0.6
Total deferred (benefit) provision	<u>(223.2)</u>	<u>(70.1)</u>	<u>(64.7)</u>
Total provision for income taxes	<u>\$ 60.5</u>	<u>\$ 57.4</u>	<u>\$ 7.4</u>

The provision (benefit) for income taxes differs from the amount computed by applying the federal statutory tax rate of 21% to pretax income for each of the years presented as follows (in millions):

	Years Ended December 31,		
	2022	2021	2020
Expected provision at statutory rate	\$ 112.7	\$ 65.1	\$ 55.7
State taxes, net of federal benefit	12.0	6.5	8.7
Foreign income at different tax rates	(18.1)	(0.2)	(5.9)
R&D tax credits	(23.6)	(16.6)	(16.4)
Share-based compensation	(7.4)	(2.2)	9.0
Non-deductible compensation	4.0	4.2	3.5
Temporary differences not currently benefited	—	—	(0.9)
Recognition of previously unrecognized tax benefits	(8.1)	—	(63.7)
Cost sharing adjustment - Altera	—	—	20.1
Other	(11.0)	0.6	(2.7)
Total provision for income taxes	<u>\$ 60.5</u>	<u>\$ 57.4</u>	<u>\$ 7.4</u>

In 2020, the Company recorded a \$63.7 million benefit, including interest and penalties, related to a multi-year recognition of previously unrecognized tax benefits and a \$20.1 million charge, including interest, for a cumulative impact of cost sharing for share-based compensation described below.

On June 7, 2019, the Ninth Circuit Court of Appeals issued an opinion in *Altera Corp. v. Commissioner* requiring related parties in an intercompany cost-sharing arrangement to share expenses related to share-based compensation. On February 10, 2020, Altera appealed this decision to the U.S. Supreme Court, which on June 22, 2020, declined to review the decision. Based

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

on the Supreme Court's decision, the Company's share-based compensation is subject to cost sharing, and the Company recorded a \$20.1 million charge referenced above during the year ended December 31, 2020.

Deferred income taxes reflect the net tax effects of tax carry-forward items and temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Significant components of the Company's long-term deferred tax assets and deferred tax liabilities are as follows (in millions):

	As of December 31,	
	2022	2021
Deferred tax assets:		
Net operating loss carry-forwards	\$ 57.2	\$ 72.5
Research and other credit carry-forwards	281.3	272.2
Deferred revenue	58.1	47.7
Share-based compensation	17.2	17.9
Capitalized R&D expenditure	293.1	102.0
Reserves and accruals not currently deductible	66.1	61.0
Operating lease liabilities	39.7	45.4
Other	13.2	9.9
Total deferred tax assets	825.9	628.6
Valuation allowance	(310.9)	(300.9)
Deferred tax assets, net of valuation allowance	515.0	327.7
Deferred tax liabilities:		
Property and equipment basis differences	—	(1.3)
Purchased intangible assets	(32.3)	(56.5)
Unremitted foreign earnings	(23.7)	(25.5)
Net unrealized gain	(35.8)	(21.0)
Operating lease assets	(36.1)	(39.9)
Total deferred tax liabilities	(127.9)	(144.2)
Net deferred tax assets	\$ 387.1	\$ 183.5

As of December 31, 2022 and 2021, the Company had a valuation allowance on its U.S. and foreign deferred tax assets of \$310.9 million and \$300.9 million, respectively. The balance at December 31, 2022 consisted of \$1.7 million, \$297.8 million, and \$11.5 million against the Company's U.S. federal, state, and foreign deferred tax assets, respectively, which the Company believes are not more likely than not to be utilized in future years. The valuation allowance increased in 2022 and 2021 by \$10 million and \$39.4 million, respectively, primarily related to the changes in state R&D tax credits.

As of December 31, 2022, the Company had federal, California and other states net operating loss carry-forwards of approximately \$150.0 million, \$129.1 million, and \$138.8 million, respectively. The California net operating loss carry-forwards of \$129.1 million are expected to expire unused. The Company also had federal, California, and other state tax credit carry-forwards of approximately \$2.4 million, \$308.6 million, and \$34.2 million, respectively. Unused net operating loss and other state tax credit carry-forwards will expire at various dates beginning in the year 2023. The California tax credit carry-forwards will carry forward indefinitely.

The Company provides deferred tax liabilities for all tax consequences associated with the undistributed earnings that are expected to be repatriated to subsidiaries' parent unless the subsidiaries' earnings are considered indefinitely reinvested. The Company has made no provision for deferred taxes on approximately \$118.1 million of cumulative undistributed earnings of certain foreign subsidiaries through December 31, 2022. These earnings are considered indefinitely invested in operations of the subsidiaries, as the Company intends to utilize these amounts to fund future expansion of its operations. If these earnings were distributed to the parent, the Company would be subject to additional taxes of approximately \$23.9 million.

As of December 31, 2022, 2021, and 2020, the total amount of gross unrecognized tax benefits was \$116.0 million, \$113.4 million, and \$116.0 million, respectively. As of December 31, 2022, approximately \$111.7 million of the \$116.0 million gross unrecognized tax benefits, if recognized, would affect the effective tax rate before considering valuation allowance.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

A reconciliation of the beginning and ending amount of the Company's total gross unrecognized tax benefits was as follows (in millions):

	Years Ended December 31,		
	2022	2021	2020
Balance at beginning of year	\$ 113.4	\$ 116.0	\$ 151.3
Tax positions related to current year:			
Additions	5.8	7.7	5.3
Tax positions related to prior years:			
Additions	6.9	3.3	18.1
Reductions	(2.5)	(3.6)	(52.0)
Settlements	—	(9.4)	(1.8)
Lapses in statutes of limitations	(7.6)	(0.6)	(4.9)
Balance at end of year	<u>\$ 116.0</u>	<u>\$ 113.4</u>	<u>\$ 116.0</u>

As of December 31, 2022, 2021, and 2020, the Company had accrued interest and penalties related to unrecognized tax benefits of \$5.6 million, \$8.1 million, and \$5.3 million, respectively, as other long-term liabilities in the Consolidated Balance Sheets. Due to the changes in the level of gross unrecognized tax benefits, the Company recognized a (benefit), or expense, for net interest and penalties of \$(2.5) million, \$2.7 million, and \$(20.7) million in its Consolidated Statements of Operations during the years ended December 31, 2022, 2021, and 2020, respectively. The Company recognizes interest and penalties related to unrecognized tax benefits as a component of income tax expense.

The Company engages in continuous discussions and negotiations with tax authorities regarding tax matters in various jurisdictions. There is a greater than remote likelihood that the balance of the gross unrecognized tax benefits will decrease by up to \$1.0 million within the next twelve months due to the completion of tax review cycles in various tax jurisdictions and lapses of applicable statutes of limitation.

The Company conducts business globally and, as a result, Juniper Networks or one or more of its subsidiaries files income tax returns in the U.S. federal jurisdiction and various state and foreign jurisdictions. In the normal course of business, the Company is subject to examination by taxing authorities throughout the world, including such jurisdictions as the Netherlands, U.K., France, Germany, Japan, China, Australia, India, and the U.S. With few exceptions, the Company is no longer subject to U.S. federal, state and local, and non-U.S. income tax examinations for years before 2012.

The Company is currently under examination by the Internal Revenue Service and the India tax authorities for the 2017 through 2018 tax years and the 2012 through 2020 tax years, respectively. The Company regularly assesses the likelihood of an adverse outcome resulting from such examinations. As of December 31, 2022, the Company believes the resolution of the audits is unlikely to have a material effect on its consolidated financial condition or results of operations.

The Company is pursuing all available administrative remedies relative to ongoing matters. The Company believes that it has adequately provided for any reasonably foreseeable outcomes related to proposed adjustments and the ultimate resolution of these matters is unlikely to have a material effect on its consolidated financial condition or results of operations; however, there is still a possibility that an adverse outcome of these matters could have a material effect on its consolidated financial condition and results of operations.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 14. Net Income per Share

The Company computed basic and diluted net income per share as follows (in millions, except per share amounts):

	Years Ended December 31,		
	2022	2021	2020
Numerator:			
Net income	\$ 471.0	\$ 252.7	\$ 257.8
Denominator:			
Weighted-average shares used to compute basic net income per share	322.1	324.4	330.4
Dilutive effect of employee stock awards	7.4	7.2	4.8
Weighted-average shares used to compute diluted net income per share	329.5	331.6	335.2
Net income per share:			
Basic	\$ 1.46	\$ 0.78	\$ 0.78
Diluted	\$ 1.43	\$ 0.76	\$ 0.77
Anti-dilutive shares	3.4	0.5	5.3

Basic net income per share is computed using net income available to common stockholders and the weighted-average number of common shares outstanding for the period. Diluted net income per share is computed using net income available to common stockholders and the weighted-average number of common shares outstanding plus potentially dilutive common shares outstanding during the period. Dilutive potential common shares consist of common shares issuable upon exercise of stock options and purchase rights, and vesting of RSUs, RSAs, and PSAs. The Company includes the common shares underlying PSAs in the calculation of diluted net income per share only when they become contingently issuable. Anti-dilutive shares are excluded from the computation of diluted net income per share.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Note 15. Commitments and Contingencies

Commitments

Unconditional purchase obligations consist of agreements that include firm and non-cancelable terms to transfer funds in the future for fixed or minimum amounts or quantities to be purchased at fixed or minimum prices. For obligations with cancellation provisions, the amounts included in the following tables were limited to the non-cancelable portion of the agreement terms or the minimum cancellation fee.

Purchase Commitments with Contract Manufacturers and Suppliers

In order to reduce manufacturing lead times and in the interest of having access to adequate component supply, the Company enters into agreements with contract manufacturers and certain suppliers to procure inventory based on the Company's requirements. A significant portion of the Company's purchase commitments arising from these agreements consists of firm and non-cancelable commitments. In certain instances, these agreements allow the Company the option to cancel, reschedule, and adjust its requirements based on the Company's business needs prior to firm orders being placed. The following table summarizes the Company's purchase commitments as of December 31, 2022 (in millions):

<u>Years Ending December 31,</u>	<u>Purchase Commitments</u>
2023	\$ 2,101.1
2024	134.9
2025	75.3
2026	80.0
2027	85.0
Total	<u>\$ 2,476.3</u>

The Company establishes a liability in connection with purchase commitments related to quantities in excess of its demand forecasts or obsolete materials charges for components purchased by the contract manufacturers based on the Company's demand forecast or customer orders. As of December 31, 2022, the Company had accrued \$21.5 million based on its estimate of such charges.

Other Purchase Obligations

The following table summarizes the Company's unconditional purchase obligations other than with contract manufacturers and suppliers as of December 31, 2022 (in millions):

<u>Years Ending December 31,</u>	<u>Unconditional Purchase Obligations</u>
2023	\$ 48.4
2024	36.3
2025	9.7
2026	2.0
2027	0.4
Total	<u>\$ 96.8</u>

In December 2018, the Company entered into a Master Services Agreement and certain Statements of Work, as subsequently amended (collectively, the "Agreement"), with International Business Machines Corporation ("IBM"). As of December 31, 2022, the Company expects to pay IBM \$94.2 million over the remaining initial term of the Agreement. The table above does not include fees payable to IBM under the contract as the Company is unable to make a reasonably reliable estimate of the amount of the payments related to each of the years under this contract due to uncertainties in the usage of the services.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Leases

The Company leases its facilities and certain equipment under non-cancelable operating leases that have remaining lease terms of 1 to 9 years and 1 to 4 years, respectively. Each leased facility is subject to an individual lease or sublease, which could provide various options to extend or terminate the lease agreement. Facilities are primarily comprised of corporate offices, data centers, and R&D facilities. Equipment includes vehicles and various office equipment. The Company also has variable lease payments that are primarily comprised of common area maintenance and utility charges. The Company's lease agreements do not contain any residual value guarantees or restrictive covenants.

The components of lease costs and other information related to leases were as follows (in millions, except years and percentages):

	Years Ended December 31,	
	2022	2021
Operating lease cost	\$ 48.4	\$ 57.4
Variable lease cost	10.0	11.5
Total lease cost	<u>\$ 58.4</u>	<u>\$ 68.9</u>
Operating cash outflows from operating leases	\$ 53.1	\$ 57.8
ROU assets obtained in exchange for new operating lease liabilities	\$ 26.0	\$ 29.7
	As of December 31,	
	2022	2021
Weighted average remaining lease term (years)	4.1	4.6
Weighted average discount rate	3.5 %	3.3 %

As of December 31, 2022, future operating lease payments for each of the next five years and thereafter are as follows (in millions):

<u>Years Ending December 31,</u>	<u>Amount</u>
2023	\$ 48.7
2024	48.3
2025	39.3
2026	18.5
2027	11.2
Thereafter	11.3
Total lease payments	<u>177.3</u>
Less: interest	<u>(12.2)</u>
Total	<u>\$ 165.1</u>
<u>Balance Sheet Information</u>	
Other accrued liabilities	\$ 47.4
Long-term operating lease liabilities	117.7
Total ^(*)	<u>\$ 165.1</u>

^(*) Total lease liabilities as of December 31, 2022 above excluded \$83.9 million in legally binding lease payments for a lease signed but not yet commenced.

Juniper Networks, Inc.
Notes to Consolidated Financial Statements (Continued)

Debt and Interest Payment on Debt

As of December 31, 2022, the Company held total outstanding debt consisting of the Notes with a carrying value of \$1,601.3 million. See Note 9, *Debt and Financing*, for further discussion of the Company's long-term debt and expected future principal maturities.

Tax Liability

Our transition tax liability represents future cash payments on accumulated foreign earnings of subsidiaries as a result of the Tax Cuts and Jobs Act of 2017 ("Tax Act"). The Company has elected to pay its transition tax, net of applicable tax refunds, over the eight-year period provided in the Tax Act. The remaining balance of the Company's transition tax obligation was \$250.6 million, of which \$198.4 million remains in long-term income taxes payable as of December 31, 2022.

As of December 31, 2022, the Company also had \$81.0 million included in long-term income taxes payable on the Consolidated Balance Sheets for unrecognized tax positions. At this time, the Company is unable to make a reasonably reliable estimate of the timing of payments related to this amount due to uncertainties in the timing of tax audit outcomes.

Guarantees

The Company enters into agreements with customers that contain indemnification provisions relating to potential situations where claims could be alleged that the Company's products solely, or in combination with other third-party products, infringe the intellectual property rights of a third-party. As of December 31, 2022 and 2021, the Company recorded \$0.7 million and \$1.9 million, respectively, for such indemnification obligations in other accrued liabilities and other long-term liabilities on the Consolidated Balance Sheets. The Company also has financial guarantees consisting of third-party financing arrangements extended to end-user customers and standby letters of credit for certain lease facilities, insurance programs and customs of \$27.4 million and \$2.4 million, as of December 31, 2022 and December 31, 2021, respectively.

Legal Proceedings

The Company is involved in investigations, disputes, litigation, and legal proceedings. The Company records an accrual for loss contingencies for legal proceedings when it believes that an unfavorable outcome is both (a) probable and (b) the amount or range of any possible loss is reasonably estimable. The Company intends to aggressively defend itself in these matters, and while there can be no assurances and the outcome of these matters is currently not determinable, the Company currently believes that these existing claims or proceedings are not likely, individually and in the aggregate, to have a material adverse effect on its financial position. Notwithstanding the foregoing, there are many uncertainties associated with any litigation and these matters or other third-party claims against the Company may cause the Company to incur costly litigation and/or substantial settlement charges. In addition, the resolution of any intellectual property litigation may require the Company to make royalty payments, which could adversely affect gross margins in future periods. If any of those events were to occur, the Company's business, financial condition, results of operations, and cash flows could be adversely affected. The actual liability in any such matters may be materially different from the Company's estimates, if any, which could result in the need to adjust the liability and record additional expenses.

Note 16. Subsequent Events

Dividend Declaration

On January 31, 2023, the Company announced a cash dividend of \$0.22 per share of common stock to be paid on March 22, 2023 to stockholders of record as of the close of business on March 1, 2023.

Stock Repurchase Activities

Subsequent to December 31, 2022, through the date of filing of this Report (the "filing date"), the Company repurchased 2.0 million shares of its common stock in the open market, for an aggregate purchase price of \$63.0 million at an average price of \$30.98 per share, under the 2018 Stock Repurchase Program. Repurchases of approximately 1.4 million shares were settled prior to the filing of this Report and the remaining shares will be settled after the filing date. The Company has an aggregate of \$0.5 billion of authorized funds remaining under the 2018 Stock Repurchase Program as of the filing date.

ITEM 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

Not applicable.

ITEM 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Attached as exhibits to this Report are certifications of our principal executive officer and principal financial officer, which are required in accordance with Rule 13a-14 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). This “Controls and Procedures” section includes information concerning the controls and related evaluations referred to in the certifications and it should be read in conjunction with the certifications for a more complete understanding of the topics presented.

We carried out an evaluation, under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act. Based upon that evaluation, our principal executive officer and principal financial officer concluded that, as of the end of the period covered in this Report, our disclosure controls and procedures were effective to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in Securities and Exchange Commission rules and forms and is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Controls Over Financial Reporting

There were no changes in our internal control over financial reporting during the fourth quarter of 2022 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. We have not experienced any significant impact to our internal controls over financial reporting due to the office/hybrid collaboration model as the design of our processes and controls allow for remote execution with secure accessibility to our data.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control over financial reporting is a process designed under the supervision of our principal executive and principal financial officers to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our financial statements for external purposes in accordance with U.S. generally accepted accounting principles.

Our internal control over financial reporting includes those policies and procedures that: (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of our assets; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on the Consolidated Financial Statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of our internal control over financial reporting as of December 31, 2022, based on the framework set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control - Integrated Framework* as published in 2013. Based on that assessment, management concluded that, as of December 31, 2022, its internal control over financial reporting was effective.

The effectiveness of our internal control over financial reporting as of December 31, 2022 has been audited by Ernst & Young LLP, the independent registered public accounting firm that audits our Consolidated Financial Statements, as stated in their

report included in Item 8 of this Annual Report on Form 10-K, which expresses an unqualified opinion on the effectiveness of our internal control over financial reporting as of December 31, 2022.

ITEM 9B. *Other Information*

Not applicable.

ITEM 9C. *Disclosure Regarding Foreign Jurisdictions that Prevent Inspections*

Not applicable.

PART III

ITEM 10. *Directors, Executive Officers and Corporate Governance*

For information with respect to our executive officers, see Part I, Item 1 of this Annual Report on Form 10-K, under “Information about our Executive Officers.”

Information concerning our directors, including director nominations, and our audit committee and audit committee financial expert, is included in our definitive Proxy Statement to be filed with the SEC in connection with our 2022 Annual Meeting of Stockholders (the “Proxy Statement”) under “Corporate Governance Principles and Board Matters” and “Election of Directors” and is incorporated herein by reference.

With regard to the information required by this Item regarding compliance with Section 16(a) of the Exchange Act, we will provide disclosure of delinquent Section 16(a) reports, if any, in our Proxy Statement under “Delinquent Section 16(a) Reports” and such disclosure, if any, is incorporated herein by reference.

Information concerning our worldwide code of business conduct that applies to our principal executive officer and all other employees is included in the Proxy Statement under “Corporate Governance Principles and Board Matters” and is incorporated herein by reference.

ITEM 11. *Executive Compensation*

Information required by Item 402 of Regulation S-K is included in the Proxy Statement under “Director Compensation” and “Executive Compensation” and is incorporated herein by reference.

Information concerning compensation committee interlocks and insider participation appearing in the Proxy Statement under “Compensation Committee Interlocks and Insider Participation” is incorporated herein by reference.

Information concerning the compensation committee report appearing in the Proxy Statement under “Compensation Committee Report” is incorporated herein by reference.

ITEM 12. *Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters*

Information concerning the security ownership of certain beneficial owners and management is included in the Proxy Statement under “Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters” and is incorporated herein by reference.

Information concerning our equity compensation plan information is included in the Proxy Statement under “Equity Compensation Plan Information” and is incorporated herein by reference.

ITEM 13. *Certain Relationships and Related Transactions, and Director Independence*

Information concerning certain relationships and related transactions is included in the Proxy Statement under the heading “Certain Relationships and Related Transactions” and is incorporated herein by reference.

Information concerning director independence is included in the Proxy Statement under the heading “Board Independence” and is incorporated herein by reference.

ITEM 14. *Principal Accountant Fees and Services*

Information concerning principal accountant fees and services and the audit committee's pre-approval policies and procedures is included in the Proxy Statement under the heading “Principal Accountant Fees and Services” and is incorporated herein by reference.

PART IV

ITEM 15. Exhibits and Financial Statement Schedules

(a) The following documents are filed as part of this Report:

1. Consolidated Financial Statements

See Index to Consolidated Financial Statements at Item 8 herein.

2. Financial Statement Schedules

Juniper Networks, Inc.
Schedule II - Valuation and Qualifying Accounts
Years Ended December 31, 2022, 2021, and 2020
(In millions)

	Balance at Beginning of Year	Charged to (Reversed from) Costs and Expenses	Write-offs, Net of Recoveries	Balance at End of Year
Allowance for Doubtful Accounts				
2022	\$ 6.7	\$ 5.3	\$ —	\$ 12.0
2021	\$ 9.9	\$ (3.2)	\$ —	\$ 6.7
2020	\$ 5.5	\$ 4.4	\$ —	\$ 9.9
	Balance at Beginning of Year	Provision for Returns / Stock Rotation	Returns / Stock Rotation	Balance at End of Year
Sales Return Reserve				
2022	\$ 31.4	\$ 111.9	\$ (100.3)	\$ 43.0
2021	\$ 28.4	\$ 57.6	\$ (54.6)	\$ 31.4
2020	\$ 24.8	\$ 60.7	\$ (57.1)	\$ 28.4

All other schedules have been omitted as the required information is not applicable or the information is presented in the Consolidated Financial Statements or notes thereto under Item 8 herein.

3. Exhibits

Exhibit No.	Exhibit	Incorporated by Reference			
		Filing	Exhibit No.	File No.	File Date
3.1	Restated Certificate of Incorporation of Juniper Networks, Inc. and Certificate of Amendment	S-8	4.1	333-218344	5/30/2017
3.2	Amended and Restated Bylaws of Juniper Networks, Inc.	8-K	3.1	001-34501	5/12/2022
4.1	Description of Juniper Networks, Inc. Registered Securities	10-K	4.1	001-34501	2/20/2020
4.2	Indenture, dated March 3, 2011, by and between Juniper Networks, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee	8-K	4.1	001-34501	3/4/2011
4.3	First Supplemental Indenture, dated March 3, 2011, by and between Juniper Networks, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee	8-K	4.8	001-34501	3/4/2011
4.4	Sixth Supplemental Indenture, dated August 26, 2019, by and between Juniper Networks, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee	8-K	4.1	001-34501	8/26/2019
4.5	Seventh Supplemental Indenture, dated December 10, 2020, by and between Juniper Networks, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee	8-K	4.1	001-34501	12/10/2020
4.6	Form of Note for Juniper Networks, Inc.'s 5.950% Senior Notes due 2041	8-K	4.8	001-34501	3/4/2011
4.7	Form of Note for Juniper Networks, Inc.'s 1.200% Senior Notes due 2025	8-K	4.1	001-34501	12/10/2020
4.8	Form of Note for Juniper Networks, Inc.'s 2.000% Senior Notes due 2030	8-K	4.1	001-34501	12/10/2020
4.9	Form of Note for Juniper Networks, Inc.'s 3.750% Senior Notes due 2029	8-K	4.1	001-34501	8/26/2019
10.1	Juniper Networks, Inc. Performance Bonus Plan (As Amended and Restated Effective February 19, 2020)+	10-Q	10.1	001-34501	5/5/2020
10.2	Juniper Networks, Inc. Deferred Compensation Plan+	S-8	4.4	333-151669	6/16/2008
10.3	Amended and Restated Juniper Networks, Inc. 2015 Equity Incentive Plan+	8-K	10.1	001-34501	5/12/2022
10.4	Amended and Restated Juniper Networks, Inc. 2008 Employee Stock Purchase Plan, as amended and restated as of May 14, 2020+	10-Q	10.1	001-34501	8/4/2020
10.5	Form of Restricted Stock Unit Agreement effective as of May 19, 2015+	8-K	10.2	001-34501	5/20/2015
10.6	Form of Performance Share Agreement effective as of May 19, 2015+	8-K	10.3	001-34501	5/20/2015
10.7	Form of Indemnification Agreement entered into by Juniper Networks, Inc. with each of its directors, officers and certain employees, approved for use on August 9, 2018+	8-K	10.1	001-34501	8/10/2018
10.8	Form of Stock Option Agreement effective as of May 19, 2015+	8-K	10.4	001-34501	5/20/2015
10.9	Amended and Restated Juniper Networks, Inc. Form of Restricted Stock Unit Agreement effective as of December 1, 2021+	10-K	10.9	001-34501	2/11/2022
10.10	Amended and Restated Juniper Networks, Inc. Form of Performance Share Agreement effective as of February 9, 2023*+				
10.11	Form of Change of Control Agreement for Certain Officers, approved for use on November 2, 2020+	10-Q	10.1	001-34501	11/2/2020
10.12	Form of Severance Agreement for Certain Officers, approved for use on November 2, 2020+	10-Q	10.2	001-34501	11/2/2020
10.13	Settlement, Release and Cross-License Agreement, dated May 27, 2014, by and between Juniper Networks, Inc. and Palo Alto Networks, Inc.	8-K	10.1	001-34501	5/29/2014
10.14	Credit Agreement, dated as of April 25, 2019, by and among Juniper Networks, Inc., the lenders from time to time party thereto and Citibank, N.A., as administrative agent, as amended by Amendment No. 1 dated as of December 17, 2021	10-K	10.14	001-34501	2/11/2022
10.15	Master Services Agreement, dated December 31, 2018, between Juniper Networks, Inc. and International Business Machines Corporation, and Amendment No.1 dated as of January 4, 2019†	10-K	10.29	001-34501	2/22/2019

Exhibit No.	Exhibit	Incorporated by Reference			
		Filing	Exhibit No.	File No.	File Date
10.16	Amendment No.2 to the Master Services Agreement, dated as of June 26, 2020, between Juniper Networks, Inc. and International Business Machines Corporation††	10-Q	10.2	001-34501	8/4/2020
10.17	Amendment No.3 to the Master Services Agreement, dated as of December 18, 2020, between Juniper Networks, Inc. and International Business Machines Corporation	10-K	10.19	001-34501	2/12/2021
10.18	Amendment No.4 to the Master Services Agreement, dated as of January 20, 2021, between Juniper Networks, Inc. and International Business Machines Corporation	10-Q	10.1	001-34501	4/30/2021
10.19	Amendment No.5 to the Master Services Agreement, dated as of March 8, 2021, between Juniper Networks, Inc. and International Business Machines Corporation	10-Q	10.2	001-34501	4/30/2021
10.20	Amendment No.6 to the Master Services Agreement, dated as of March 10, 2021, between Juniper Networks, Inc. and International Business Machines Corporation††	10-Q	10.3	001-34501	4/30/2021
10.21	Amendment No.7 to the Master Services Agreement, dated as of June 1, 2021 between Juniper Networks, Inc. and International Business Machines Corporation††	10-Q	10.1	001-34501	7/30/2021
10.22	Amendment No.8 to the Master Services Agreement, dated as of May 17, 2021, between Juniper Networks, Inc. and International Business Machines Corporation††	10-Q	10.2	001-34501	7/30/2021
10.23	Amendment No.9 to the Master Services Agreement, dated as of June 1, 2021, between Juniper Networks, Inc. and International Business Machines Corporation††	10-Q	10.3	001-34501	7/30/2021
10.24	Amendment No.10 to the Master Services Agreement, dated as of August 31, 2021, between Juniper Networks, Inc. and International Business Machines Corporation	10-K	10.24	001-34501	2/11/2022
10.25	Amendment No.11 to the Master Services Agreement, dated as of October 6, 2021, between Juniper Networks, Inc. and International Business Machines Corporation††	10-K	10.25	001-34501	2/11/2022
10.26	Amendment No.12 to the Master Services Agreement, dated as of November 9, 2021, between Juniper Networks, Inc. and International Business Machines Corporation	10-K	10.26	001-34501	2/11/2022
10.27	Letter Agreement, dated August 15, 2022, between Juniper Networks, Inc. and Kyndryl Holdings Inc.††	10-Q	10.1	001-34501	9/30/2022
10.28	Form of Executive Compensation Recovery Agreement for Certain Officers, approved for use in November 2015+	10-K	10.60	001-34501	2/19/2016
21.1	Subsidiaries of the Company*				
23.1	Consent of Independent Registered Public Accounting Firm*				
31.1	Certification of Chief Executive Officer pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934*				
31.2	Certification of Chief Financial Officer pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934*				
32.1	Certification of Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**				
32.2	Certification of Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**				
101	The following materials from Juniper Networks Inc.'s Annual Report on Form 10-K for the year ended December 31, 2022, formatted in iXBRL (inline eXtensible Business Reporting Language): (i) the Consolidated Statements of Operations, (ii) Consolidated Statements of Comprehensive Income, (iii) Consolidated Balance Sheets, (iv) the Consolidated Statements of Cash Flows, and (v) Consolidated Statements of Changes in Stockholders' Equity, and (iv) Notes to Consolidated Financial Statements, tagged as blocks of text*				
104	The cover page from the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2022, formatted in Inline XBRL (included in Exhibit 101)*				

- * Filed herewith
- ** Furnished herewith
- + Indicates management contract or compensatory plan, contract or arrangement.
- † Portions of this exhibit (indicated by asterisks) have been omitted pursuant to a request for confidential treatment that has been separately filed with the Securities and Exchange Commission.
- †† Portion of this exhibit (indicated by asterisks) have been omitted pursuant to Item 601(b)(10)(iv) of Regulation S-K, which portions will be furnished to the SEC upon request.

(b) Exhibits

See Exhibits in Item 15(a)(3) above in this Report.

(c) None

ITEM 16. *Form 10-K Summary*

Not applicable.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Juniper Networks, Inc.

February 10, 2023	By:	<u>/s/ Kenneth B. Miller</u> Kenneth B. Miller <i>Executive Vice President, Chief Financial Officer</i> (Duly Authorized Officer and Principal Financial Officer)
February 10, 2023	By:	<u>/s/ Thomas A. Austin</u> Thomas A. Austin <i>Group Vice President and Chief Accounting Officer</i> (Duly Authorized Officer and Principal Accounting Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Rami Rahim</u> Rami Rahim	Chief Executive Officer and Director (Principal Executive Officer)	February 10, 2023
<u>/s/ Kenneth B. Miller</u> Kenneth B. Miller	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	February 10, 2023
<u>/s/ Thomas A. Austin</u> Thomas A. Austin	Group Vice President and Chief Accounting Officer (Principal Accounting Officer)	February 10, 2023
<u>/s/ Scott Kriens</u> Scott Kriens	Chairman of the Board	February 10, 2023
<u>/s/ Gary Daichendt</u> Gary Daichendt	Director	February 10, 2023
<u>/s/ Anne T. DelSanto</u> Anne T. DelSanto	Director	February 10, 2023
<u>/s/ Kevin DeNuccio</u> Kevin DeNuccio	Director	February 10, 2023
<u>/s/ James Dolce</u> James Dolce	Director	February 10, 2023
<u>/s/ Steven Fernandez</u> Steven Fernandez	Director	February 10, 2023
<u>/s/ Christine M. Gorjanc</u> Christine M. Gorjanc	Director	February 10, 2023
<u>/s/ Janet B. Haugen</u> Janet B. Haugen	Director	February 10, 2023
<u>/s/ Rahul Merchant</u> Rahul Merchant	Director	February 10, 2023
<u>/s/ William R. Stensrud</u> William R. Stensrud	Director	February 10, 2023

JUNIPER NETWORKS, INC.
2015 EQUITY INCENTIVE PLAN
NOTICE OF GRANT OF PERFORMANCE SHARES

Unless otherwise defined herein, the terms defined in the Juniper Networks, Inc. 2015 Equity Incentive Plan, as amended and restated (the “Plan”) shall have the same defined meanings in this Notice of Grant of Performance Shares (the “Notice of Grant”), the Performance Share Agreement set forth in Exhibit A, the performance vesting terms set forth in Exhibit B, any additional terms and conditions for your country included in the Country-Specific Appendix attached hereto as Exhibit C (the “Appendix”) and any other exhibits to these documents (collectively, this “Agreement”).

Name (“Participant”): [Insert Name]

Effective [Insert Grant Date], Juniper Networks, Inc. (the “Company”) hereby grants you an Award (this “Award”) of Performance Shares, subject to the terms and conditions of the Plan and this Agreement, as follows:

[Grant ID:] [_____]

Maximum number of Performance Shares ([_____] % of total target number):

Total target number: [_____]

[Annual target amount:]

Each such Performance Share is equivalent to one share of Common Stock of the Company (a “Share”) for purposes of determining the number of Shares subject to this Award. None of the Performance Shares will be issued (nor will you have the rights of a stockholder with respect to the underlying Shares) until the vesting conditions described in Exhibit B are satisfied, subject to your remaining a Service Provider through such applicable vesting dates.

You acknowledge and agree that this Agreement and the vesting schedule for this Award do not constitute an express or implied promise of continued employment or engagement as a Service Provider for the vesting period, for any period, or at all, and shall not interfere with your right or the Company’s or, if different, your employer’s right to terminate your relationship as a Service Provider at any time, with or without cause.

Your electronic acceptance (including deemed acceptance, if applicable) of this Agreement indicates your acceptance of and agreement with the terms and conditions of this Award, as set forth in this Agreement, including the exhibits and the Plan, and your acknowledgment that this Agreement and the Plan constitute your entire agreement with respect to this Award and may not be modified adversely to your interest except by means of a writing agreed by the Company and you. If you do not notify the Company at stock-admin@juniper.net that you choose to decline this Award within 45 days of the grant date of this Award, you will be deemed to have accepted this Agreement and the terms and conditions of the Plan and this Agreement.

Exhibit A

PERFORMANCE SHARE AGREEMENT

1. **Grant.** The Company hereby grants to Participant an award of Performance Shares (“Performance Shares”), as set forth in the Notice of Grant, subject to all of the terms and conditions in this Agreement, including any additional terms and conditions for Participant’s country included in the Country-Specific Appendix attached hereto as Exhibit C and the Plan, which is incorporated by reference.

2. **Company’s Obligation to Pay.** Each Performance Share represents the right to receive a Share on the vesting date. Unless and until the Performance Shares vest in the manner set forth in Sections 3 or 4, Participant will have no right to payment with respect to such Performance Shares. Prior to actual distribution of Shares pursuant to any vested Performance Shares, such Performance Shares will represent an unfunded and unsecured obligation of the Company, payable (if at all) only from the general assets of the Company. Any Performance Shares that vest in accordance with Sections 3 or 4 will be paid to Participant (or in the event of Participant’s death, to his or her estate) in whole Shares, subject to Participant satisfying any obligations for Tax-Related Items (as defined in Section 8). Subject to the provisions of Sections 4 and 8, vested Performance Shares will be paid as soon as practicable after vesting, but in each such case within the period 60 days following the vesting date. In no event will Participant be permitted, directly or indirectly, to specify the taxable year of the payment of any Performance Shares payable under this Agreement.

3. **Vesting Schedule.** Subject to Section 4, to Plan Sections 16 and 17 and to any other relevant Plan provisions, the Performance Shares awarded by this Agreement will vest in Participant according to the vesting schedule specified in Exhibit B to the Notice of Grant.

4. **Administrator Discretion.** The Administrator, in its discretion, may accelerate the vesting of any portion of the Performance Shares at any time, subject to the terms of the Plan. In that case, the Performance Shares will be vested as of the date and to the extent specified by the Administrator and will be paid as provided in Section 2 above. The payment of Shares vesting pursuant to this Section 4 will be paid at a time or in a manner that is exempt from, or complies with, Code Section 409A.

5. [Reserved.]

6. **Forfeiture upon Termination as Service Provider.** Any Performance Shares that have not vested as of the time Participant’s termination as a Service Provider will immediately cease vesting and revert to the Plan following Participant’s termination, subject to Applicable Laws. For purposes of the Performance Shares, Participant’s engagement as a Service Provider will be considered terminated as of the date Participant ceases to actively provide services to the Company or any member of the Company Group (regardless of the reason for such termination and whether or not the termination is later found to be invalid or in breach of applicable laws in the jurisdiction where Participant is a Service Provider or the terms of Participant’s engagement agreement, if any).

7. **Payments after Death.** Any distribution or delivery to be made to Participant under this Agreement will, if Participant is then deceased, be made to the administrator or executor of Participant’s estate. Any such administrator or executor must furnish the Company with (a) written notice of his or her status as transferee, and (b) evidence satisfactory to the Company to establish the validity of the transfer and compliance with any laws or regulations pertaining to said transfer.

8. Tax Obligations.

(a) Tax Withholding.

(i) No Shares issuable on a vesting date will be issued to Participant until satisfactory arrangements (as determined by the Administrator) have been made by Participant for the payment of income, employment, social insurance, National Insurance Contributions, payroll tax, fringe benefit tax, payment on account or other tax-related items related to Participant's participation in the Plan and legally applicable or deemed applicable to Participant ("Tax-Related Items"), including, without limitation, in connection with any aspect of the Performance Shares, including, but not limited to, the grant, vesting and settlement of the Performance Shares, the subsequent sale of Shares acquired under the Plan and/or the receipt of any dividends on such Shares that the Administrator determines must be withheld. If Participant is a non-U.S. employee, the method of payment of Tax-Related Items may be restricted or prescribed by the Country-Specific Appendix.

(ii) The Company has the right (but not the obligation) to satisfy any Tax-Related Items by (A) withholding from proceeds of the sale of Shares acquired upon the settlement of the Performance Shares through a sale arranged by the Company (on Participant's behalf pursuant to this authorization without further consent), (B) requiring Participant to pay cash, or (C) reducing the number of Shares otherwise deliverable to Participant; provided that if the Company permits Participant to pay cash to satisfy Tax-Related Items and Participant elects to satisfy Tax-Related Items through the payment of cash and fails to deliver cash on the vesting date, the Company has the right (but not the obligation) to satisfy such Tax-Related Items by withholding from proceeds of the sale of Shares acquired upon the settlement of the Performance Shares through a sale arranged by the Company (on Participant's behalf pursuant to this authorization without further consent). The Administrator will have discretion to determine the method of satisfying Tax-Related Items.

(iii) The Company may withhold or account for Tax-Related Items by considering applicable statutory withholding rates or other applicable withholding rates, including the maximum rate applicable in Participant's jurisdiction. If Tax-Related Items are withheld in excess of Participant's actual tax liability, Participant may receive a refund of any over-withheld amount in cash (without any entitlement to the Common Stock equivalent) or, if not refunded, Participant may need to seek a refund from the local tax authorities. If Tax-Related Items are under-withheld, Participant may be required to pay any additional Tax-Related Items directly to the applicable tax authority or to the Company and/or the Employer. If the obligation for Tax-Related Items is satisfied by reducing the number of Shares otherwise deliverable to Participant, for tax purposes, Participant is deemed to have been issued the full number of Shares subject to the vested Performance Shares, notwithstanding that a number of the Shares are held back solely for the purpose of paying the Tax-Related Items.

(iv) If Participant is subject to taxation in more than one jurisdiction, the Company and/or, if different, Participant's employer (the "Employer") or former employer (as applicable) may withhold or account for tax in more than one jurisdiction.

(v) Regardless of any action of the Company or the Employer, Participant acknowledges that the ultimate liability for all Tax-Related Items is and remains Participant's responsibility and may exceed the amount, if any, actually withheld by the Company or the Employer. Participant further acknowledges that the Company and the Employer (1) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Performance Shares or the underlying Shares; and (2) do not commit to and are under no obligation to structure the terms of the grant or any

aspect of the Performance Shares to reduce or eliminate Participant's liability for Tax-Related Items or achieve any particular tax result.

(b) Code Section 409A. This Section 8(b) may not apply if Participant is not a U.S. taxpayer.

(i) If the vesting of any portion of the Performance Shares is accelerated in connection with Participant's termination of status as a Service Provider (provided that such termination is a "separation from service" within the meaning of Code Section 409A) and if (x) Participant is a "specified employee" within the meaning of Code Section 409A at the time of such termination as a Service Provider and (y) the payment of such accelerated Performance Shares will result in the imposition of additional tax under Code Section 409A if paid to Participant on or within the 6-month period following Participant's termination as a Service Provider, then the payment of such accelerated Performance Shares will not be made until the first day after the end of the 6-month period.

(ii) If the termination as a Service Provider is due to death, the delay under Section 8(b)(i) will not apply. If Participant dies following his or her termination as a Service Provider, the delay under Section 8(b)(i) will be disregarded and the Performance Shares will be paid in Shares to Participant's estate as soon as practicable following his or her death.

(iii) All payments and benefits under this Performance Share Agreement are intended to be exempt from, or comply with, the requirements of Code Section 409A so that none of the Performance Shares or Shares issuable upon the vesting of Performance Shares will be subject to the additional tax imposed under Code Section 409A and the Company and Participant intend that any ambiguities be interpreted so that the Performance Shares are exempt from or comply with Code Section 409A.

(iv) Each payment under this Agreement is intended to be a separate payment as described in Treasury Regulations Section 1.409A-2(b)(2).

9. Rights as Stockholder. Neither Participant nor any person claiming under or through Participant will have any of the rights or privileges of a stockholder of the Company in respect of any Shares deliverable hereunder unless and until Shares have been issued and recorded on the records of the Company or its transfer agents or registrars.

10. Acknowledgements and Agreements. Participant's acceptance of this Agreement indicates that:

(a) PARTICIPANT ACKNOWLEDGES AND AGREES THAT THE VESTING OF THESE PERFORMANCE SHARES IS EARNED ONLY BY CONTINUING AS A SERVICE PROVIDER AND THAT BEING HIRED AND GRANTED THESE PERFORMANCE SHARES WILL NOT RESULT IN VESTING.

(b) PARTICIPANT FURTHER ACKNOWLEDGES AND AGREES THAT THESE PERFORMANCE SHARES AND THIS AGREEMENT DO NOT CREATE AN EXPRESS OR IMPLIED PROMISE OF CONTINUED ENGAGEMENT AS A SERVICE PROVIDER FOR THE VESTING PERIOD, FOR ANY PERIOD, OR AT ALL, AND WILL NOT INTERFERE IN ANY WAY WITH PARTICIPANT'S RIGHT OR THE RIGHT OF THE COMPANY OR THE EMPLOYER (OR ENTITY TO WHICH HE OR SHE IS PROVIDING SERVICES) TO TERMINATE PARTICIPANT'S RELATIONSHIP AS A SERVICE PROVIDER AT ANY TIME, WITH OR WITHOUT CAUSE.

(c) Participant agrees that this Agreement and its incorporated documents reflect all agreements on its subject matters and that he or she is not accepting this Agreement

based on any promises, representations, or inducements other than those reflected in this Agreement.

(d) Participant agrees that delivery of any documents related to the Plan or Awards under the Plan, including the Plan, this Agreement, the Plan's prospectus and any reports of the Company provided generally to the Company's stockholders, may be made by electronic delivery. Such means of electronic delivery may include but do not necessarily include the delivery of a link to a Company intranet or the Internet site of a third party involved in administering the Plan, the delivery of the document via e-mail or such other means of electronic delivery specified by the Company. Participant acknowledges that he or she may receive from the Company a paper copy of any documents delivered electronically at no cost to Participant by contacting the Company in writing in accordance with Section 13. Participant further acknowledges that Participant will be provided with a paper copy of any documents if the attempted electronic delivery of such documents fails. Similarly, Participant understands that Participant must provide the Company or any designated third party administrator with a paper copy of any documents if the attempted electronic delivery of such documents fails. Participant may revoke his or her consent to the electronic delivery of documents or may change the electronic mail address to which such documents are to be delivered (if Participant has provided an electronic mail address) at any time by notifying the Company of such revoked consent or revised e-mail address in accordance with Section 13. Finally, Participant understands that he or she is not required to consent to electronic delivery of documents.

(e) Participant accepts that all good faith decisions or interpretations of the Administrator regarding the Plan and Awards under the Plan are binding, conclusive and final.

(f) Participant agrees that the Plan is established voluntarily by the Company, it is discretionary in nature, and may be amended, suspended or terminated by the Company at any time, to the extent permitted by the Plan.

(g) Participant agrees that the grant of Performance Shares is exceptional, voluntary and occasional and does not create any contractual or other right to receive any or the same number of Performance Shares, or benefits in lieu of Performance Shares, even if any or a certain number of Performance Shares have been granted in the past.

(h) Participant agrees that all decisions regarding future Awards, if any, will be at the sole discretion of the Company.

(i) Participant agrees that he or she is voluntarily participating in the Plan.

(j) Participant agrees that the Performance Shares and any Shares acquired under the Plan, and the income from and value of same, are not intended to replace any pension rights or compensation.

(k) Participant agrees that the Performance Shares and any Shares acquired under the Plan, and the income from and value of same, are not part of normal or expected compensation for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end-of-service payments, bonuses, holiday pay, long-service awards, pension or retirement or welfare benefits or similar mandatory payments.

(l) Participant agrees that unless otherwise agreed with the Company, the Performance Shares and the Shares subject to the Performance Shares, and the income from and value of same, are not granted as consideration for, or in connection with, the service Participant may provide as a director of a Parent or Subsidiary.

(m) Participant agrees that the future value of the Shares underlying the Performance Shares is unknown, indeterminable, and cannot be predicted with certainty.

(n) [Reserved.]

(o) Participant agrees that any right to vest in the Performance Shares under the Plan will terminate as of the date described in the previous paragraph and will not be extended by any notice period (e.g., Participant's period of service would not include any contractual notice period or any period of "garden leave" or similar period mandated under employment laws (including common law, if applicable) in the jurisdiction where Participant is a Service Provider or under Participant's engagement agreement, if any, unless Participant is providing bona fide services during such time).

(p) Participant agrees that the Administrator has the exclusive discretion to determine when Participant is no longer actively providing services for purposes of his or her Performance Shares (including whether Participant may still be considered to be providing services while on a leave of absence).

(q) None of the Company, the Employer, or any Parent or Subsidiary will be liable for any foreign exchange rate fluctuation between Participant's local currency and the United States Dollar ("USD") that may affect the value of the Performance Shares or of any amounts due to Participant pursuant to the settlement of the Performance Shares or the subsequent sale of any Shares acquired upon settlement.

(r) Participant has read and agrees to the Data Privacy Provisions of Section 12 of this Agreement.

(s) Participant agrees that no claim or entitlement to compensation or damages, including pro-rated compensation or damages, shall arise from forfeiture of the Performance Shares resulting from the termination of Participant's status as a Service Provider (regardless of the reason for such termination and whether or not the termination is later found to be invalid or in breach of applicable laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's engagement agreement, if any).

11. No Advice Regarding Grant. Neither the Company nor any member of the Company Group is providing any tax, legal or financial advice, and neither the Company nor any member of the Company Group is making any recommendations regarding Participant's participation in the Plan, or Participant's acquisition or sale of the underlying Shares. Participant should consult with his or her own personal tax, legal and financial advisors regarding his or her participation in the Plan before taking any action related to the Plan. Nothing stated in this Agreement or the Plan is intended or written to be used, and cannot be used, for the purpose of avoiding taxpayer or other penalties.

12. Data Privacy.

(a) Declaration of Consent. Participant hereby agrees with the data processing practices described herein and explicitly and unambiguously consents to the collection, processing, use and transfer, in electronic or other form, of Participant's personal data as described in this Agreement by and among the Company and its Subsidiaries, and affiliates, and the transfer of such personal data to the recipients mentioned below, including recipients located in countries which may not have a similar level of protection from the perspective of Participant's country's data protection laws.

(b) Data Collection and Usage. The Company and the Employer will collect, process and use certain personal information about Participant, including, but not limited to, Participant's name, address and telephone number, email address, date of birth, social security, insurance number, passport or other identification number (e.g., resident registration number), salary, nationality, residency, status (e.g. marital, immigration), job title, any shares of stock or directorships held in the Company or the Company Group, details of all Performance Shares or any other entitlement to stock awarded, canceled, exercised, vested, unvested or outstanding in Participant's favor (collectively "Data"), for the exclusive purposes of implementing,

administering and managing the Plan. The legal basis, where required, for the processing of Data is Participant's consent. Where required under applicable law, Data may also be disclosed to certain securities or other regulatory authorities where the Company's securities are listed or traded or regulatory filings are made and the legal basis, where required, for such disclosure are the applicable laws.

(c) Stock Plan Administration Service Providers. The Company transfers Data to E*Trade Financial Services, Inc. and certain of its affiliates ("E*Trade"), an independent stock plan service provider which is assisting the Company with the implementation, administration and management of the Plan. Participant may be asked to agree on separate terms and data processing practices with E*Trade, with such agreement being a condition of the ability to participate in the Plan.

(d) Other Service Provider Data Recipients. The Company also may transfer Data to other third party service providers, if necessary to ensure compliance with applicable tax, exchange control, securities and labor law. Such third party service providers may include the Company's legal counsel. Participant understands that his or her Data may need to be transferred to such providers to ensure compliance with applicable law and/or tax requirements, and Participant hereby explicitly consents to such transfer.

(e) International Data Transfers. The Company, E*Trade and its other service providers described above under (d) are located in the United States. Participant understands and acknowledges that the United States is not subject to an unlimited adequacy finding by the European Commission and that Participant's Data may not have an equivalent level of protection as compared to Participant's country of residence. The Company's legal basis, where required, for the transfer of Data is Participant's consent.

(f) Data Retention. The Company will hold and use the Data only as long as is necessary to implement, administer and manage Participant's participation in the Plan, or as required to comply with any applicable legal or regulatory obligations, including under tax and securities laws.

(g) Data Subject Rights. Participant understands that data subject rights vary depending on applicable law and that, depending on where he or she is based and subject to the conditions set out under applicable law, Participant may have the rights to (i) request access or copies of Data the Company processes, (ii) rectification of incorrect Data, (iii) deletion of Data, (iv) restrictions on processing of Data, (v) portability of Data, (vi) lodge complaints with competent authorities in Participant's jurisdiction and/or (vii) receive a list with the names and addresses of any potential and actual recipients of Data. To receive clarification regarding these rights or to exercise these rights, Participant understands that he or she can contact his or her local human resources representative.

(h) Voluntariness and Consequences of Consent Denial or Withdrawal. Participation in the Plan is voluntary and Participant is providing the explicit consents herein on a purely voluntary basis. If Participant does not consent, or if Participant later seeks to revoke his or her consent, his or her engagement as a Service Provider with the Employer will not be affected; the only consequence of refusing or withdrawing Participant's consent is that the Company would not be able to grant or process Participant Performance Shares or other equity awards or administer or maintain such awards.

(i) Alternative Basis for Data Processing and Transfer. Participant understands that the Company may rely on a different legal basis for the processing or transfer of Data in the future and/or request that Participant provide another data privacy consent form. If applicable and upon request of the Company, Participant agrees to provide an executed acknowledgement or data privacy consent form to the Employer or the Company (or any other acknowledgements, agreements or consents that may be required by the Employer or the Company) that the Company and/or the Employer may deem necessary to obtain under the data

privacy laws and regulations in Participant's country, either now or in the future. Participant understands that he or she will not be able to participate in the Plan if he or she fails to execute any such acknowledgement, agreement or consent requested by the Company and/or the Employer.

13. Address for Notices. Any notice to be given under the terms of this Agreement to the Company will be addressed in care of Attn: Stock Administration, at Juniper Networks, Inc., 1133 Innovation Way, Sunnyvale, California 94089; to Participant will be provided to the physical or electronic mail address maintained for Participant in the Company's records; or in either case, at such other address as the Company or Participant, as the case may be, may hereafter designate in writing.

14. No Effect on Employment. Participant's employment with the Company or the Employer is not affected by this grant of Performance Shares. Accordingly, the terms of Participant's employment with the Company or the Employer will be determined from time to time by the Company or the Employer, and the Company or the Employer will have the right, which is hereby expressly reserved, to terminate or change the terms of the employment of Participant at any time for any reason whatsoever, with or without good cause or notice.

15. Grant is Not Transferable. Except to the limited extent provided in Section 7, this grant and the rights and privileges conferred hereby will not be transferred, assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and will not be subject to sale under execution, attachment or similar process. Upon any attempt to transfer, assign, pledge, hypothecate or otherwise dispose of this grant, or any right or privilege conferred hereby, or upon any attempted sale under any execution, attachment or similar process, this grant and the rights and privileges conferred hereby immediately will become null and void.

16. Binding Agreement. Subject to the limitation on the transferability of this grant contained herein, this Agreement will be binding upon and inure to the benefit of the heirs, legatees, legal representatives, successors and assigns of the parties hereto.

17. Additional Conditions to Issuance of Stock. If at any time the Company will determine, in its discretion, that the listing, registration or qualification of the Shares upon any securities exchange or under any state or federal law, or the consent or approval of any governmental regulatory authority is necessary or desirable as a condition to the issuance of Shares to Participant (or his or her estate), such issuance will not occur unless and until such listing, registration, qualification, consent or approval will have been effected or obtained free of any conditions not acceptable to the Company. The Company will make all reasonable efforts to meet the requirements of any such state or federal law or securities exchange and to obtain any such consent or approval of any such governmental authority.

18. Plan Governs. This Agreement is subject to all terms and provisions of the Plan. In the event of a conflict between one or more provisions of this Agreement and one or more provisions of the Plan, the provisions of the Plan will govern.

19. Administrator Authority. The Administrator will have the power to interpret the Plan and this Agreement and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret or revoke any such rules (including, but not limited to, the determination of whether or not any Performance Shares have vested). All actions taken and all interpretations and determinations made by the Administrator in good faith will be final and binding upon Participant, the Company and all other interested persons. Neither the Administrator nor any member of the Company Group will be personally liable for any action, determination or interpretation made in good faith with respect to the Plan or this Agreement.

20. Country-Specific Appendix. The Performance Shares are subject to any additional terms and conditions for Participant's country set forth in the Country-Specific Appendix. If Participant relocates to a country included in the Country-Specific Appendix, the additional terms and conditions for that country will apply to Participant to the extent the Company determines that applying such terms and conditions is necessary or advisable for legal or administrative reasons.

21. Agreement Severable. In the event that any provision in this Agreement will be held invalid or unenforceable, such provision will be severable from, and such invalidity or unenforceability will not be construed to have any effect on, the remaining provisions of this Agreement.

22. Modifications to this Agreement. The Plan and this Agreement constitute the entire understanding of the parties on the subjects covered. Participant expressly warrants that he or she is not accepting this Agreement in reliance on any promises, representations, or inducements other than those contained herein. Modifications to this Agreement or the Plan can be made only in an express written contract executed by a duly authorized officer of the Company. Notwithstanding anything to the contrary in the Plan or this Agreement, the Company reserves the right to revise this Agreement as it deems necessary or advisable, in its sole discretion and without the consent of Participant, to comply with Code Section 409A or to otherwise avoid imposition of any additional tax or income recognition under Code Section 409A in connection to these Performance Shares, or to comply with other Applicable Laws.

23. Notice of Governing Law; Venue. This grant of Performance Shares shall be governed by, and construed in accordance with, the laws of the State of California without regard to principles of conflict of laws. The parties further agree that any legal action, suit or proceeding arising from or related to this Agreement shall be instituted exclusively in the courts of California or the federal courts for the United States for the Northern District of California and no other courts. The parties consent to the personal jurisdiction of such courts over them, waive all objections to the contrary, and waive any and all objections to the exclusive location of legal proceedings in California or the federal courts for the United States for the Northern District of California (including, without limitation, any objection based on cost, convenience or location of relevant persons). The parties further agree that there shall be a conclusive presumption that this Agreement has a significant, material and reasonable relationship to the State of California.

24. Insider Trading/Market Abuse Laws. Depending on Participant's country, the broker's country or the country in which Shares are listed, Participant may be subject to insider trading restrictions and/or market abuse laws in applicable jurisdictions, including the United States and Participant's country or E*Trade's or any other stock plan service provider's country, which may affect his or her ability to accept, acquire, sell or attempt to sell, or otherwise dispose of Shares, rights to Shares (e.g., Performance Shares) or rights linked to the value of Shares during such times as Participant is considered to have "inside information" regarding the Company (as defined by the laws or regulations in applicable jurisdictions). Local insider trading laws and regulations may prohibit the cancellation or amendment of orders Participant placed before possessing inside information. Furthermore, Participant may be prohibited from (i) disclosing insider information to any third party (other than on a "need to know" basis) and (ii) "tipping" third parties or causing them otherwise to buy or sell securities, including third parties who are fellow employees. Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable Company insider trading policy. Participant is responsible for ensuring compliance with any applicable restrictions and should consult his or her personal legal advisor on this matter.

25. Clawback Policy. Notwithstanding any other provision of this Agreement or the Plan to the contrary, any cash incentive compensation received by the Participant, Performance

Shares granted, Shares issued and/or amount paid hereunder, and/or any amount received with respect to any sale of any such Shares, shall be subject to potential cancellation, recoupment, rescission, payback or other action in accordance with the terms of the Company's Clawback Policy, as it may be amended from time to time (the "Clawback Policy"). The Participant agrees and consents to the Company's application, implementation and enforcement of (a) the Clawback Policy or any similar policy established by the Company that may apply to the Participant and (b) any provision of applicable law relating to cancellation, rescission, payback or recoupment of compensation, and expressly agrees that the Company may take such actions as are necessary to effectuate the Clawback Policy, any similar policy (as applicable to the Participant) or applicable law without further consent or action being required by the Participant. To the extent that the terms of this Agreement or the Plan and the Clawback Policy or any similar policy conflict, then the terms of such policy shall prevail.

26. Exchange Control, Foreign Asset/Account and/or Tax Reporting Information. Participant acknowledges that his or her country may have certain foreign asset/account and/or tax reporting requirements which may affect Participant's ability to acquire or hold Shares under the Plan or cash received from participating in the Plan (including from any dividends received or sale proceeds arising from the sale of Shares) in a brokerage or bank account outside Participant's country. Participant may be required to report such accounts, assets or related transactions to the tax or other authorities in his or her country. Participant also may be required to repatriate sale proceeds or other funds received as a result of his or her participation in the Plan to Participant's country through a designated bank or broker and/or within a certain time after receipt. In addition, Participant may be subject to tax payment and/or reporting obligations in connection with any income realized under the Plan and/or from the sale of Shares. Participant acknowledges that he or she is responsible for ensuring compliance with any applicable requirements, and that Participant should consult his or her personal legal advisor on this matter.

27. Language. Participant acknowledges that he or she is proficient in the English language, or has consulted with an advisor who is sufficiently proficient in English, so as to enable Participant to understand the provisions of this Agreement and the Plan. Further, if Participant has received this Agreement or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different from the English version, the English version will control.

28. Waiver. Participant acknowledges that a waiver by the Company of breach of any provision of this Agreement shall not operate or be construed as a waiver of any other provision of this Agreement, or of any subsequent breach by Participant or any other participant in the Plan.

[Remainder of Page Intentionally Blank]

Exhibit B

PERFORMANCE SHARE VESTING TERMS

<Insert vesting schedule>

Exhibit C

**COUNTRY-SPECIFIC APPENDIX
TO PERFORMANCE SHARE AGREEMENT**

SUBSIDIARIES OF THE COMPANY AS OF DECEMBER 31, 2022*

NAME	JURISDICTION OF INCORPORATION
Juniper Networks International B.V.	The Netherlands
Juniper Networks (US), Inc.	California, USA

* All other subsidiaries would not in the aggregate constitute a “significant subsidiary” as defined in Regulation S-X.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the following Registration Statements:

(1) Registration Statement (Form S-3 Nos. 333-266421 and 333-233090) of Juniper Networks, Inc. and related prospectus, and

(2) Registration Statements (Form S-8 Nos. 333-265461, 333-262679, 333-252472, 333-251027, 333-240345, 333-233091, 333-230685, 333-229813, -333-216246, 333-213490, 333-211824, 333-204297, 333-183165, 333-151669, and 333-176171) of Juniper Networks, Inc.;

of our reports dated February 10, 2023, with respect to the consolidated financial statements and schedule of Juniper Networks, Inc., and the effectiveness of internal control over financial reporting of Juniper Networks, Inc., included in this Annual Report (Form 10-K) of Juniper Networks, Inc., for the year ended December 31, 2022.

/s/ Ernst & Young LLP

San Jose, California
February 10, 2023

**Certification of Principal Executive Officer
Pursuant to
Exchange Act Rules 13a-14(a) and 15d-14(a),
As Adopted Pursuant to
Section 302 of the Sarbanes-Oxley Act of 2002**

I, Rami Rahim, certify that:

1. I have reviewed this Annual Report on Form 10-K of Juniper Networks, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize, and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 10, 2023

/s/ Rami Rahim

Rami Rahim

Chief Executive Officer

(Principal Executive Officer)

**Certification of Principal Financial Officer
Pursuant to
Exchange Act Rules 13a-14(a) and 15d-14(a),
As Adopted Pursuant to
Section 302 of the Sarbanes-Oxley Act of 2002**

I, Kenneth B. Miller, certify that:

1. I have reviewed this Annual Report on Form 10-K of Juniper Networks, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize, and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 10, 2023

/s/ Kenneth B. Miller

Kenneth B. Miller

Executive Vice President, Chief Financial Officer

(Principal Financial Officer)

**Certification of Chief Executive Officer
Pursuant to 18 U.S.C. Section 1350 As Adopted
Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

I, Rami Rahim, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of Juniper Networks, Inc. on Form 10-K for the fiscal year ended December 31, 2022, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Annual Report on Form 10-K fairly presents, in all material respects, the financial condition and results of operations of Juniper Networks, Inc.

/s/ Rami Rahim

Rami Rahim

Chief Executive Officer

February 10, 2023

**Certification of Chief Financial Officer
Pursuant to 18 U.S.C. Section 1350 As Adopted
Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

I, Kenneth B. Miller, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of Juniper Networks, Inc. on Form 10-K for the fiscal year ended December 31, 2022, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Annual Report on Form 10-K fairly presents, in all material respects, the financial condition and results of operations of Juniper Networks, Inc.

/s/ Kenneth B. Miller

Kenneth B. Miller

Executive Vice President, Chief Financial Officer

February 10, 2023