

Thousands of service providers and enterprises around the world depend on our business-driven network transformation solutions.

IP Optical Networking | Secure Cloud Communications

Ribbon Corporate Overview

C ribbon

Note Regarding Forward-Looking Statements and Non-GAAP Financial Measures

This presentation contains "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, which are subject to a number of risks and uncertainties. All statements other than statements of historical facts contained in this release, including without limitation statements regarding the Company's projected financial results for 2023 and beyond; customer engagement and momentum; plans and objectives for future operations and cost savings; and plans for future product development and manufacturing and the expected benefits therefrom, are forward-looking statements. Without limiting the foregoing, the words "believes", "estimates", "expects", "expectations", "intends", "may", "plans", "projects" and other similar language, are intended to identify forward-looking statements..

Forward-looking statements are based on the Company's current expectations and assumptions regarding its business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. Actual results may differ materially from those contemplated in these forward-looking statements due to various risks, uncertainties and other important factors, including, among others, the effects of geopolitical instabilities and disputes, including between Russia and Ukraine and the impact of sanctions imposed as a result thereof; the potential impact of litigation; risks related to supply chain disruptions, including as a result of component availability; risks related to the continuing COVID-19 pandemic, including delays in customer deployments as a result of rises in cases; risks that the Company will not realize the entire the anticipated benefits from the acquisition of ECI Telecom Group Ltd. (the "ECI Acquisition"); risks that the Company will not realize the estimated cost savings and/or anticipated benefits from its strategic restructuring; the impact of restructuring and cost-containment activities; unpredictable fluctuations in quarterly revenue and operating results; risks related to the terms of the Company's credit agreement including compliance with the financial covenants; risks related to cybersecurity and data intrusion; failure to compete successfully against telecommunications equipment and networking companies; failure to grow the Company's customer base or generate recurring business from existing customers; credit risks; the timing of customer purchasing decisions and the Company's recognition of revenues; macroeconomic conditions, including inflation; market acceptance of the Company's products and services; rapid technological and market change; the ability to maintain partner, reseller, distribution and vendor support and supply relationships; the potential for defe

This presentation also includes certain non-GAAP financial measures in addition to the U.S. GAAP financials. Our management believes that presenting certain non-GAAP financial measures provides meaningful information to investors in understanding our operating results and may enhance investors' ability to analyze financial and business trends including the ability to compare period to period more easily by excluding items that could have a disproportionately negative or positive impact on results in a given financial period. The non-GAAP measures have limitations as analytical tools, and you should not consider them in isolation or as a substitute for the most directly comparable financial measures prepared in accordance with U.S. GAAP. We urge you to review the reconciliation of our non-GAAP financial measures to the most directly comparable GAAP financial measures set forth in the Appendix to this presentation, and not to rely on any single financial measure to evaluate our business.

Please note that as part of the basis of presentation, totals may not sum due to rounding.



Introduction to Ribbon Communications (RBBN)

Company Overview

- Global provider of software and network solutions to enable real-time communications and high-bandwidth networking and connectivity
- Two business segments: Cloud & Edge and IP Optical Networks
- Key Investors: JPMorgan Chase & Co. and Swarth Group⁽¹⁾

Headquarters: Plano, Texas

Employees: 3,300

NASDAQ: RBBN

Strong Financial & **Business Momentum** \$840-870M

'23 Est. Revenue

\$95-110M

'23 Est. EBITDA

1.000 +

Customers \$64M

22A EBITDA

1.10x

4Q22A Book-to-Bill

945

Patents

Long-Term Customer Relationships





















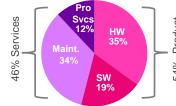












By Service / Products

'22 Revenue Breakdown

Americas 51%

By Region

By Customer Type

Enterprises 28%

APAC

18%

EMEA

31%

Service **Providers**

72%















JPMorgan Chase & Co.











Shares held by JPMC Heritage Parent LLC (indirect subsidiary) and Heritage PE (OEP) III. L.P. (general partner indirectly controlled by JPMC Heritage Parent LLC), and deemed beneficial ownership of shares of OEP II Partners Co-Invest, L.P.

Ribbon Represents a Unique Investment Opportunity

- Comprehensive portfolio of best-in-class secure communications and IP optical networking solutions Differentiates with first mover's approach to produce innovative, open-sourced products that service customer demands
 - Robust market position and continued penetration in the massive communications networking market Favorable industry tailwinds headlined by Federal ~\$81B funding for expansion of connectivity and bandwidth



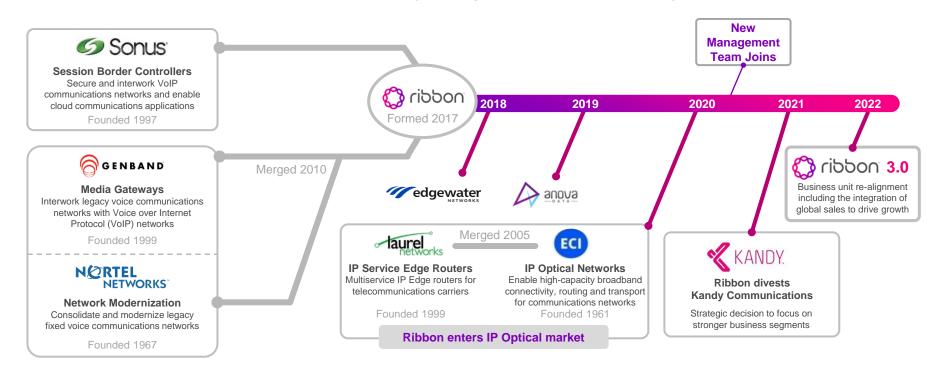
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- Long-standing relationships with the top telecom service providers, enterprises and critical infrastructure operators Leverageable 1,000+ customer base provides significant cross-selling opportunities
- Cloud and Edge segment ("C&E") will provide the springboard for the IP Optical Networks segment ("Optical") to continue growing C&E provides steady cash flow while Optical drives growth
- Strong financial visibility due to the significant pipeline of potential Tier 1 opportunities in N.A., India & Europe Substantial opportunity with ongoing global replacement of Huawei network equipment in many of the world's networks
- Accomplished leadership team with the playbook on growing multi billion-dollar companies Mr. McClelland, RBBN President, CEO and Director, led Arris' sale to CommScope for \$7.4B in 2019



Rich History of Innovation Brought Together as Ribbon

Several meaningful transactions have strengthened our market position, expanded our market scope and will provide a major new growth vector in the company's transformation





Ribbon Experienced Senior Leadership Team



Bruce McClelland President, CEO & Director

· Board of Directors



Mick Lopez EVP, Chief Financial Officer

- Financial accounting reporting, controls, & planning
- AP & AR
- Treasury & Tax
- Investor Relations
- Information Technologies



Sam Bucci EVP, Chief Operating Officer

- Business strategy
- Innovation & Product Development
- · Portfolio Management
- Global Services
- Supply Chain & Operations



Dan Redington EVP, Global Sales

- Regional Sales Units
- Pre-Sales Engineering
- Project Management
- Strategic account development



Joni Roberts SVP, Chief Marketing Officer

- Global Marketing Strategy
- Investor Relations
- Global Product Positioning



Patrick Macken EVP, Chief Legal Officer

- General Counsel
- Employment Law
- Contract Law
- Compliance
- Facilities
- Corporate Secretary



Petrena Ferguson SVP Human Resources

- Global HR business partner
- Compensation & Benefits
- Recruiting and Performance Management
- Employee training & development



cisco Aricent



VERITAS

NOKIA



N@RTEL



NOKIA



RAD





NORTEL





Blue-chip Customer Base – Service Provider and Enterprise









Ribbon is a global company with 57% of 2022 revenues from international customers and does business with more than 80% of the top 50 Telecom Service Providers around the globe (excluding China)

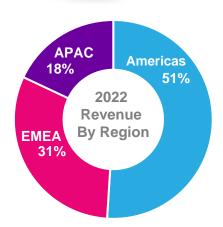


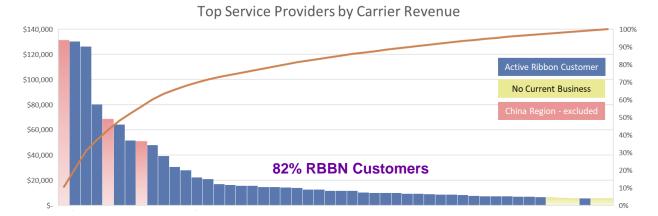
Ribbon Global Presence



Ribbon is a global company with over 49% of 2022 revenues from international customers.

Excluding China, Ribbon does business with more than 80% of the top 50 Telecom Service Providers around the globe





Global Presence and Scale





Ribbon Solutions for Demanding Network Requirements



"Cloud & Edge" Business Segment

Core business supports telecom carrier and enterprise voice services

- Leading market position with tier one service providers including Verizon
- Significant cash flow generator underpinned by strong recurring maintenance and increasing software component of revenue
- Portfolio addresses fixed and mobile carrier VoIP networks as well as faster growing enterprise communication applications
- Strong market position in Core Session Border Control ("SBC") products

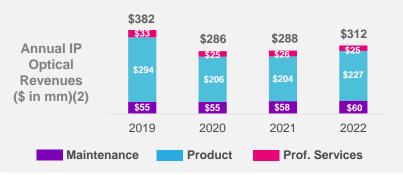




"IP Optical Networks" Business Segment

Highly-competitive products & substantial market growth opportunities

- Record of success in many of the most competitive global markets, including India and EMEA
- Leveraging N.A. carrier relationships to penetrate the industry's largest, profitable accounts, exploiting its technical advances & competitive cost
- The industry's shift to open networking architectures is highly favorable for Ribbon's product portfolio compared to major competitors such as Ciena
- Global replacement of Huawei network equipment in many of the world's networks provides a once-in-a-lifetime opportunity for IP Optical

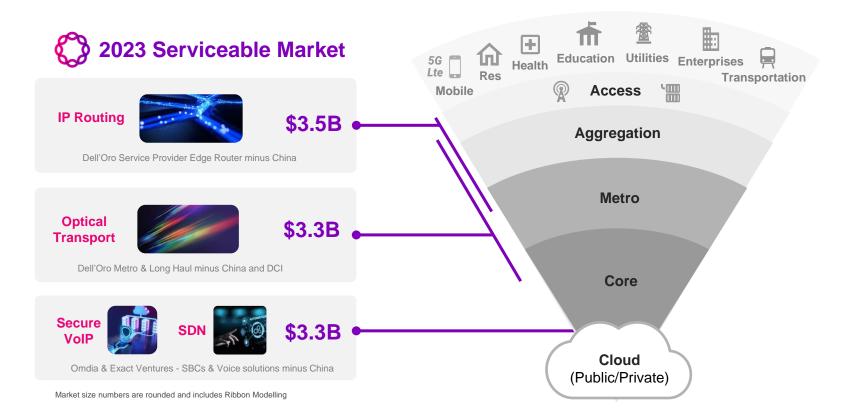




Reflects Kandy revenue of \$8mm and \$11mm in 2019 and 2020, respectively.

[.] Reflects pro forma full year results for periods before the close of the ECI acquisition.

\$10B+ Addressable Market across Multiple Market Segments





Significant Professional Services and Recurring Maintenance Revenue



Professional Services Presence and Scale (\$95M revenue in 2022)



Network analysis & consulting



Engineering design & installation



Integration & validation



Transformation & migration



Managed network operation

Maintenance Provides Durable Recurring Revenue Stream



\$282M revenue in 20221



96%+ Renewal rate²



75%+ of 2023 renewals booked by end of Q1²

Note

- 1. Combined Cloud & Edge and IP Optical maintenance revenue.
- 2. Renewal statistics for Cloud & Edge

Growing momentum in 2023 as investments provide profitable growth

Growth and Value



IP Routing

New XDR 2000 Series portfolio and rNOS



DWDM Optical Transport

Next-gen compact modular Apollo 9400



Enterprise Secure Cloud Communications

 Microsoft Teams, Zoom, Contact Center, Centrex Replacement



Critical Infrastructure and Government Sector

- Secure Networking
- Voice Modernization



Telco Cloud Voice Network Transformation Projects

· US Tier 1, NA Tier 2, Europe, APAC, CALA



Carrier Voice Maintenance Services

75%+ Gross Margin with high renewal rate

Operating Efficiencies

\$20M In-Year Cost Savings Implemented

- ~6% Headcount Reduction
- Continued Operating Expense Optimization
- 2H Run Rate @ \$90M Quarterly Operating Expenses





Data Explosion Drives Continuous Network Transformation

Market Drivers

Connected Personalized & Customized

Applications for Explosion Everything of Data

Work-fromanywhere explosion



Network Transformation



Technology Evolution

Nextgen BB Everything
Access over IP

Automation & Cloud Orchestration Networking

Edge Nextgen Mobile – Computing 5G, 6G, Wi-Fi 6E

Everything as a Service





2023 Customer Investment Priorities



Mobile Remains a Top Priority

Cell site Router Aggregation Optical transport



Surge in Investment Broadband Access (Fiber, HFC, Fixed Wireless)

IP routing Metro and Access Optical transport



Relentless Pursuit to Lower Total Cost of Ownership

Analytics Enhanced Security Energy Efficiency



Digital Transformation

Telco Cloud As-a-Service Automation

Ribbon solutions directly address these key investment priorities



Extensive US Federal Investment to Expand Internet Access



Broadband equity access and deployment (BEAD) program

\$42.4B to expand High-speed internet access funded by US Dept. of Commerce



Rural digital opportunity fund

\$20B to provide fixed broadband and voice services to unserved homes and small businesses in rural America



Capital projects fund

\$10B as part of the American Rescue Plan Act (ARPA) to provide broadband coverage to un- and under-served locations



USDA ReConnect loan and grant program

\$2B to expand high speed Internet service to rural areas funded by US Dept. of Agriculture



Secure and trusted communications networks

\$1.9B created by the FCC to reimburse providers to replace Huawei or ZTE equipment



Tribal broadband connectivity program \$1B to be used for broadband deployment on tribal lands funded by US Dept. of Commerce



Middle mile broadband infrastructure grant program

\$1B to expand internet middle mile infrastructure funded by US Dept. of Commerce





Ribbon is well-positioned to capture investment in fiber infrastructure, with ~30 active or pending projects



Key Technology Trends Underpinning our Investment Strategy

IP+ **Optical**

- · 4.5X expected growth in global mobile traffic from 2020-20261 driving fiber and IP Networking closer to the edge
- Network complexity demanding better management and automation - across Optical transport and IP switching/routing domains
- · Next generation IP segment routing and 5G network slicing are a catalyst for alternative vendors
- Heightened sense of urgency to transition legacy TDM voice networks to IP





Open **Networking**

- Best-of-breed agile solutions
- Eliminate vendor lock-in
- · Faster time-to-market
- Commercial silicon surpassing proprietary solutions
 - Pluggable optics
 - High performance routing
- Hvbrid IP networking solutions from access to core
- Adoption of white box computing

Open ROADM NETCONF





gNMI Telemetry



Unified Communications

- · Broad adoption of cloud-based unified communication platforms supporting workfrom-anywhere needs
- · Multiple target markets: Online Collaboration, Desktop and Mobile. Contact Center
- Multiple target verticals: Finance, Government, Education, Critical Infrastructure, Healthcare, Manufacturing
- Specialized solutions needed for advanced applications survivability, security, 911, etc.



Service migration to the Cloud

- Traditional network functions operating in private or public cloud compute environments
- · Pre-integrated friction-free deployment with OpEx and CapEx consumption models
- · Large scale analytics leveraging data from multiple deployments and 3rdparty sources
- Improved service velocity leveraging CI/CD
- Expanded partnerships (SI, OEM, Distributors, Technology)









^{1.} Source: Ericsson Mobility Report, November 2020

Industry-leading Telco and Enterprise Communications Portfolio



Voice Simplification

- Business & consumer voice application server
- Hosted PBX and Contact Centre features
- Scale from thousands to millions of subs
- Solutions for TDM transformation



Session Border Control

- Cloud Native SBC architecture
- Highly efficient infrastructure needs
- Automation for lifecycle management
- Full VoLTE IMS functionality



UC Interconnect

- Interconnect support for multiple UCaaS platforms
 - zoomphone webex
- Comprehensive portal environment
- Customer engagement & automation
- Connectivity and security in public or private cloud



Fraud & Analytics

- Securing real-time communications
- Incident Detectors for known threats
- Behavioral Analytics reveals new threats
- Recognize and mitigate Fraud and Nuisance Calls





Continuous Innovation to Meet Customer Needs



IP Routing with Neptune

- Proven state of the art IP stack with common NOS
- Right fit with range of form factors and capabilities
- New high performance router family Neptune XDR

Optical Networking with Apollo

- Best in class metro transport with performance or power-cost optimized 400G/200G/100G and OTN
- · Tailored solutions with smooth capacity growth
- Delivering new wavelengths fast with Ribbon Alien Wavelengths

Domain Orchestration with Muse

- Practical Automation
- Multi-vendor, multidomain, multilayer
- Low code CI/CD

Continuous Innovation for Next Generation Optimized, Automated Open IP Optical





Thank You

