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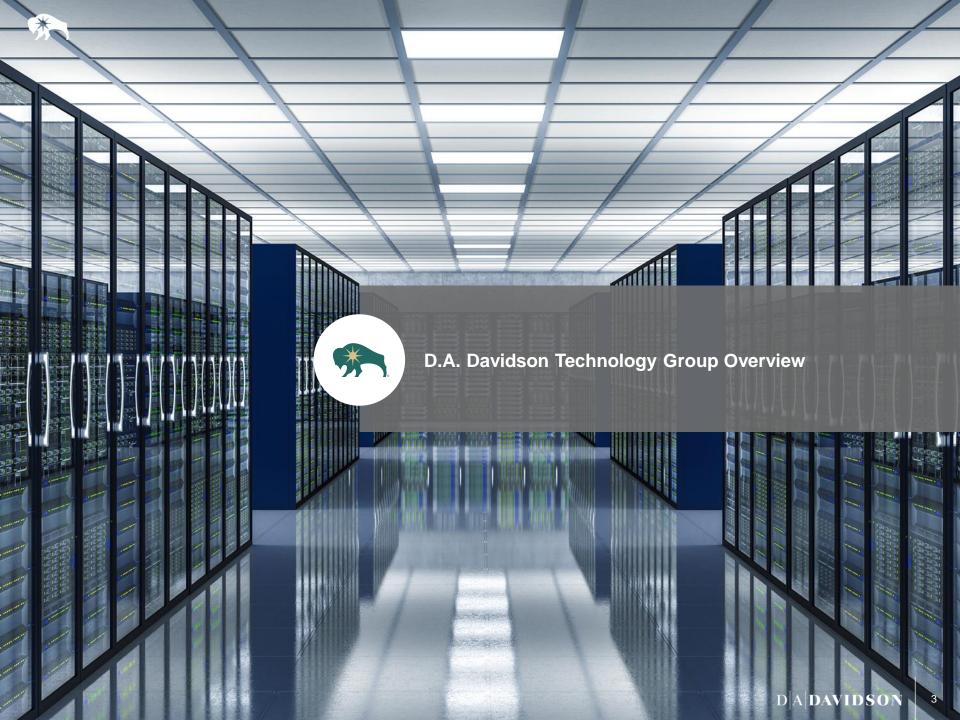
Cloud Infrastructure and Communications Valuation Environment

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Public Comparables Trading Detail

D.A. Davidson Technology Investment Banking

D.A. Davidson Investment Banking





# **Highly Experienced and Growing Technology Group**

#### LEADING MIDDLE MARKET TECHNOLOGY INVESTMENT BANK

- 39 dedicated investment bankers, including 11 partners in 4 offices nationwide
- 16 dedicated technology equity research professionals
- \$20B+ raised for technology clients since 2019
- 150+ technology companies under research coverage
- 38 public offerings completed since 2019

Dedicated equity sales and trading team that makes a market in ~180 technology stocks

Annual tech conference with 350+ public, private companies and institutional investors

Trusted M&A and debt and equity capital raise advisor to technology companies

Broad and deep relationships with technology middle-market buyer universe

39

INVESTMENT BANKING PROFESSIONALS \$20B+

RAISED FOR TECHNOLOGY CLIENTS SINCE 2019 150+

TECHNOLOGY COMPANIES UNDER RESEARCH COVERAGE 170+

YEARS OF COLLECTIVE EXPERIENCE

### 39 TECHNOLOGY INVESTMENT BANKERS ACROSS FOUR MAJOR CITIES



Boston Massachusetts







## D.A. Davidson's technology practice brings deep sector knowledge, transactional expertise, and full service capabilities across eight key technology verticals

Sales & Marketing

Expense &

	Application Software	Solutions     ERP     Human Capital     Collaboration	Procurement Content Management BI /Analytics
	Infrastructure Software	<ul><li>Application</li></ul>	<ul><li>IT Management</li><li>Security</li><li>RPA</li></ul>
	Vertical Software	<ul><li>Construction</li><li>Government</li><li>Healthcare IT</li><li>Education</li></ul>	<ul><li>Real Estate &amp; Travel</li><li>Telematics</li><li>Agriculture</li></ul>
IV	Financial Technology	<ul><li>Banking</li><li>Investment</li><li>Financing / Lending</li></ul>	<ul><li>Insurance</li><li>Crypto / Blockchain</li><li>Payments</li></ul>
V	Technology Enabled Services	<ul><li>Marketing Services</li><li>Business Services</li><li>IT Services</li></ul>	<ul> <li>Professional Outsourced Services</li> </ul>
VI	Internet & Digital Media	<ul><li>E-Commerce</li><li>Search</li><li>Video</li></ul>	<ul><li>Content Marketing</li><li>Internet Services</li><li>Mobile</li></ul>
VII	Communications & Digital Infrastructure	<ul><li>Data Center</li><li>Managed Services</li><li>Fiber Networks</li><li>Telecom</li><li>Wireless</li><li>IoT/IIoT</li></ul>	Communications     Software,     Hardware &     Infrastructure     CCaaS / CPaaS     IaaS / UCaaS
VIII	Data & Analytics	<ul><li>Digital Engagement Optimization</li><li>Credit Analytics</li><li>Real-Time Risk Analytics</li></ul>	<ul> <li>Marketing Analytics</li> <li>Artificial Intelligence</li> <li>Business / Market Intelligence</li> </ul>



# Significant Expertise in Cloud Infrastructure and Communications

#### LEADERS OF THE CLOUD INFRASTRUCTURE & COMMUNICATIONS SECTOR



**Managing Director** Technology Investment Banking

- Over 30 years of technology investment banking experience
- Worked for 20 years on Wall Street as a senior banker at JPMorgan Chase, KeyBanc Capital Markets, and Broadview Int'l (now Jefferies)
- Started his career at AT&T and has executed M&A, private capital raises, and public equity transactions worldwide for public and private communications and technology companies such as Alltel, AT&T, Cable Exchange, Fastly, IBM, Limelight, Lumos, Radisys, Towerstream, Vast Networks, Verizon, Wavecom, Zayo, and many others
- MBA, Columbia University; JD, Oregon Law; BA, Pomona College



Managing Director Technology Investment Banking

- Over 30 years of investment banking and capital markets experience
- Senior banker at Swiss Bank Corp/SBC Warburg (now UBS) and Bank Street Group
- Has executed M&A and capital markets transactions globally for public and private communications companies, including 365 Data Centers, AboveNet, Colo ATL/American Tower, Airband, Digital Crossroads, Hibernia Networks, Highwinds, and OnFiber, among others
- Deep domain expertise in fiber networks, data centers, subsea cable, and wireless infrastructure and services
- BBA Finance with honors, University of Notre

#### SIGNIFICANT COMBINED SECTOR KNOWLEDGE & DEAL EXPERIENCE

\$41B+

**DEAL VALUE COMPLETED** 

350 +

DEALS COMPLETED

65 +

YEARS OF EXPERIENCE

## **Recent Cloud & Communications Transactions Completed Over Last 18 Months**



















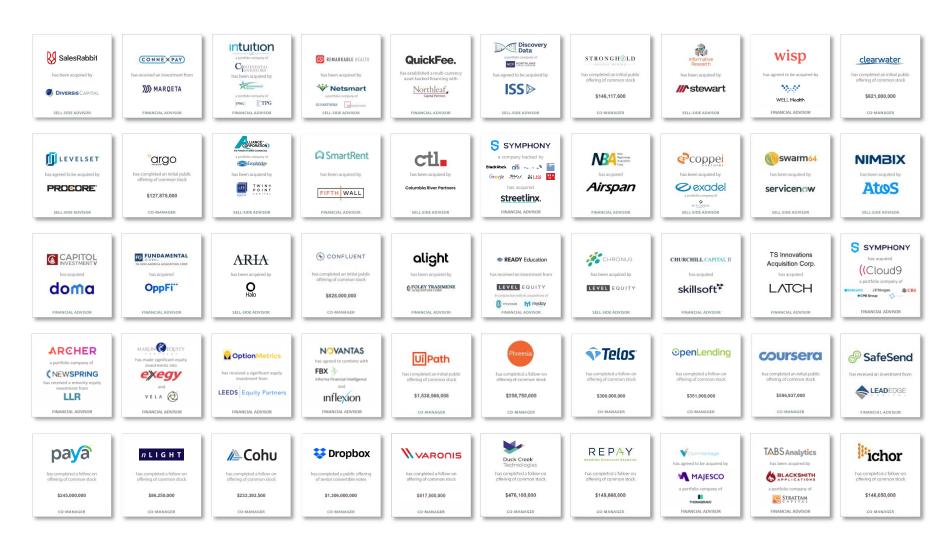
## Cloud, Communications, & Digital Infrastructure

- Deep expertise in advising cloud infrastructure and communications companies on M&A as well as public and private capital raises
- 50+ relevant transactions completed by our Communications senior bankers throughout their careers
- Real-time dialogues with global network of industry buyers
- Dedicated private equity and private debt groups
- Senior bankers with investment banking and industry experience



# **Leading Middle Market Technology Investment Bank**

D.A. Davidson's technology team has significant experience advising technology clients





# Leading Middle Market Technology Investment Bank, Cont'd

D.A. Davidson's technology team has significant experience advising technology clients







































































































# **Deep Experience in Cloud Infrastructure and Communications Technologies**



















































# Deep Experience in Cloud Infrastructure and Communications Technologies, Cont'd



















































# **M&A Case Study: Alliance Corporation**



#### **CLIENT DESCRIPTION**

Distributor, solutions provider, and cable terminator for the wireless industry

### **DEAL TYPE**

Sell-Side M&A

### **SECTOR**

Communications Equipment and Distribution

## **Company Background**

Alliance is Canada's largest value-added distributor of wireless communications technology and is one of the fastest growing distributors in the United States, providing mission-critical solutions to the leading wireless carriers across North America. The Company is one of only two scaled North American distributors with cable termination capabilities and supports the construction, maintenance and upgrades of cellular towers, indoor cellular service and broadband internet. Alliance distributes over 5,000 SKUs comprising virtually every product necessary for network builds, maintenance and upgrades, as well as terminates technologically advanced, custom cabling, for a broad range of end customers including carriers, internet service providers, contractors, building owners and other enterprises and government entities that utilize broadband infrastructure.

### D.A. Davidson Role

D.A. Davidson served as exclusive financial advisor to Alliance. Davidson worked closely with Alliance's management to position the Company as an industry leader and conducted a targeted process that generated significant competitive interest from both strategic and financial parties, resulting in a premium valuation for shareholders.

## **Transaction Conclusion**

The Company's unique wireless services platform and leadership position in both distribution and cable termination, diversified customer base across all major U.S. and Canadian wireless carriers, and broad and experienced management team with deep relations in the industry made Alliance an attractive platform investment for Lee Equity and Twin Point Capital. Plans are in place to further accelerate growth, both organically and through strategic acquisitions, and expand the Company's leadership position in its core services and new adjacent services.

"We are incredibly thankful for the advice and expertise delivered by the D.A. Davidson technology investment banking team working on this transaction. Their industry knowledge in communications, transaction proficiency and ability to drive an efficient process delivered an outstanding outcome that has us confident about our next phase of growth."

- Ron Moss, President of Alliance Corporation



# M&A Case Study: Computer Technology Link (CTL)



### **CLIENT DESCRIPTION**

Provider of communications hardware and systems

## **DEAL TYPE**

Sell-Side M&A

### **SECTOR**

Communications Equipment and EdTech

## **Company Background**

Founded in 1989, CTL is a leading provider of Google Chrome devices and other communications technology solutions and services to the education and business markets. The Company offers a comprehensive line of high quality, customer-driven computing devices, including laptop, tablet and mobile devices, desktop solutions, high performance monitors, video conferencing solutions, and server and storage solutions.

#### D.A. Davidson Role

D.A. Davidson served as exclusive financial advisor to CTL. The Company was owned by two shareholders consisting of CTL's founder and President. The founder was seeking liquidity for his stake in the company and, as a result, Davidson was hired to evaluate strategic options that would provide the best possible outcome for both the founder and the management team. The Davidson team leveraged its deep relationships with both strategic and financial parties and spent a significant amount of time working with the management team to best present the CTL story. As a result, Davidson was able to run an efficient process, guide the preferred buyer to a premium valuation, and structure a transaction that provided the desired liquidity for the Company's founder and a private equity partner for the management team.

### **Transaction Conclusion**

The founder and President were concerned with finding the right party that was optimal for the long-term viability of the business, while still maximizing value. Columbia River Partners brings significant relevant sector expertise and the additional growth capital necessary to continue to accelerate and execute on CTL's strategic growth opportunities, both domestically and internationally.

"D.A. Davidson's experience and transaction expertise were critical in allowing CTL's shareholders to realize an optimal outcome while also finding CTL a partner that provides the capital and expertise to help best position the company for continued growth."

- Erik Stromguist, President of CTL



# M&A Case Study: Aria Technologies, Inc.



### **CLIENT DESCRIPTION**

Designer and manufacturer of fiber optic connectivity solutions

## **DEAL TYPE**

Sell-Side M&A

## **SECTOR**

Communications Equipment and Networking

## **Company Background**

Aria Technologies is an industry leading designer, manufacturer, and provider of fiber optic connectivity solutions located in the San Francisco Bay Area. The Company specializes in fiber optic assemblies, patch panels and other fiber optic and copper-based network components as well as in-house custom engineering, design, and fabrication services. Aria Technologies' dedication to customer satisfaction has made the company a trusted partner to 270+ customers, including Fortune 500 companies and some of the world's most recognized and demanding cable TV, telecommunications, and data center providers.

### D.A. Davidson Role

D.A. Davidson served as exclusive financial advisor to Aria Technologies. Davidson worked closely with Aria Technologies' management team to conduct a targeted M&A process that provided the Company with competitive interest from financial and strategic acquirers, resulting in multiple pre-emptive bids and an accelerated close for the founders.

## **Transaction Conclusion**

The combination of Aria's design capabilities coupled with their pre-assembled and tested enterprise-class optical components strengthen Halo's product offering allowing them to meet the optical solution needs of any customer across the globe.

"The D.A. Davidson technology investment banking team was invaluable in the outcome of this transaction. The team's industry expertise and transaction execution capabilities enabled the shareholders to realize the optimal outcome while also best positioning Aria Technologies for future growth."

- Joe McGuinness, President of Aria Technologies



# M&A Case Study: Cimetrix, Inc.



### **CLIENT DESCRIPTION**

Provider of smart factory connectivity software solutions

#### **DEAL TYPE**

Sell-Side M&A

## **SECTOR**

**IIoT Software & Communications** 

## **Company Background**

Cimetrix is a leading global provider of equipment connectivity software solutions for smart manufacturing, Industrial IoT and Industry 4.0, with products and platforms that connect factory equipment to increase productivity, reduce costs, and improve quality. The company's software solutions are used by equipment manufacturers around the world, providing factory automation connectivity for multiple equipment types. Headquartered in Salt Lake City, Utah, Cimetrix has offices worldwide in China, Germany, Japan, Korea and Taiwan.

#### D.A. Davidson Role

D.A. Davidson served as exclusive financial advisor to Cimetrix. Davidson worked closely with Cimetrix's management to conduct a targeted M&A process that provided the Company with competitive interest from multiple acquirers, resulting in a merger with PDF solutions, a leading provider of advanced analytics solutions and differentiated data for semiconductor and electronics manufacturing.

### **Transaction Conclusion**

The combination of Cimetrix connectivity products and platforms with PDF Solutions Exensio® analytics platform, enables semiconductor and electronics manufacturers to extract more intelligence, not just data, from their factory floor, and as a result, build more reliable ICs and systems at lower manufacturing costs. As a combined entity the Company is able to deliver the highest level of tool and manufacturing intelligence from the factory floor to enable customers to realize the benefits of Industry 4.0.

"The D.A. Davidson team was invaluable in this process, providing the transaction expertise and industry knowledge necessary to achieve an optimal outcome for Cimetrix and its shareholders. We are excited to move forward as the Cimetrix Connectivity Group within PDF Solutions to continue serving our customers by providing innovative connectivity and smart manufacturing software products, platforms, and solutions."

- Bob Reback, CEO of Cimetrix



# M&A Case Study: Approved Networks, Inc.



## **CLIENT DESCRIPTION**

Provider of networking equipment and cable solutions

## **DEAL TYPE**

Sell-Side M&A

### **SECTOR**

Communications Equipment and Networking

## **Company Background**

Based in Lake Forest, California, and founded in 2009, Approved Networks is a leading provider of optical networking solutions for the smart data center. Approved Networks has created one of the most comprehensive and innovative testing facilities in the U.S. and boasts relationships with 3,000+ clients in 30+ countries, including Fortune 500 companies and many of the largest data centers, telecommunications companies, and enterprises across the globe. Approved's stellar industry reputation for high-quality products and services augmented by its consistent innovation has allowed it to deliver first-to-market compatibility solutions in the most rigorous optical networking environments for over a decade.

### D.A. Davidson Role

D.A. Davidson served as exclusive financial advisor to Approved Networks. Davidson worked closely with Approved Network's management to conduct a targeted M&A process that provided management with competitive interest from a select group of acquirers, resulting in a premium valuation for shareholders.

## **Transaction Conclusion**

The combination of Approved Networks and Champion ONE has created one of the most comprehensive designers, marketers, and providers of carrier grade optical transceivers and related mission critical components to telecommunications, cable, data center, and enterprise customers in North America and International markets.

"We are incredibly thankful for the advice and expertise delivered by the D.A. Davidson technology investment banking team working on this transaction. Their buyer knowledge, transaction proficiency, and ability to drive an efficient process delivered an impressive outcome that has us excited about our next phase of growth."

- Kurt Dunteman, CEO of Approved Networks



# M&A Case Study: Cable Exchange, Inc.



### **CLIENT DESCRIPTION**

Manufacturer of fiber optic and copper cables, trunks and related products for enterprise applications.

### **DEAL TYPE**

Sell-Side M&A

## **SECTOR**

Communications Equipment and Networking

## **Company Background**

Based in Santa Ana, California, Cable Exchange manufactures a variety of fiber optic and copper cables, trunks and related products used in high-capacity data centers and other business enterprise applications. The company, founded in 1986, specializes in quick-turn delivery of its infrastructure products to customers from its two U.S. manufacturing centers located in Santa Ana, CA, and Pineville, N.C.

### D.A. Davidson Role

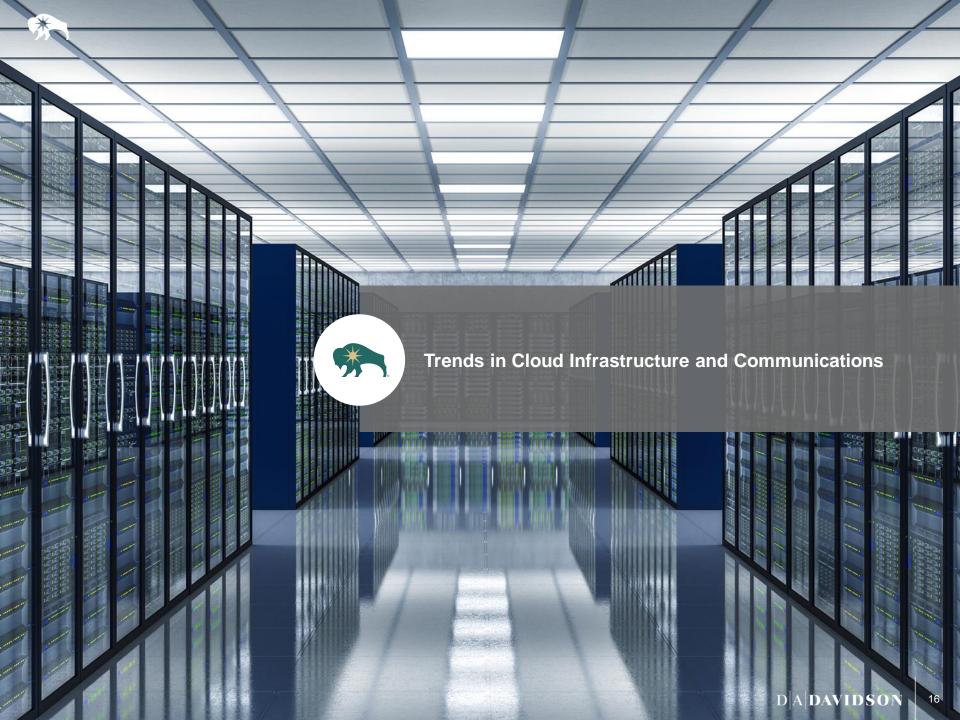
D.A. Davidson served as exclusive financial advisor to Cable Exchange. Having scaled the business to a leadership position in its niche, the Company's founders hired D.A. Davidson to sell Cable Exchange to a buyer that would retain the existing team and be able to execute on its strategic growth initiatives. D.A. Davidson presented Cable Exchange as a technology leader, providing quick-turn capabilities that were unheard of in the industry but were quickly becoming the standard for hyper-converged data center customers. Having received significant interest from several strategic parties, Davidson ran a targeted process focused on several strategic and highly relevant financial parties.

## **Transaction Conclusion**

Despite concerns around cyclicality and customer concentration, Davidson was able to solicit multiple bids and drive the preferred buyer to a premium valuation, all in less than 90 days from initial outreach to completion of the transaction. With the acquisition, CommScope is now able to add quick-turn capabilities to its high-growth data center business.

"D.A. Davidson played a critical role in helping us realize this partnership with CommScope. The team's expertise and capabilities allowed us to efficiently come to an agreement while maintaining our focus on serving our customers."

- Dan Bowlin, CFO of Cable Exchange





# **Key Trends in the Cloud Infrastructure and Communications Industry in 2021**

#### 5G CONNECTIVITY IS POISED TO EXPAND FOLLOWING AMERICA'S LARGEST EVER SPECTRUM AUCTION

- The FCC kicked off its auction of C-Band spectrum (Auction 107) on December 8, 2020, in the first big auction of valuable, unencumbered mid-band spectrum licenses in the US. The C-Band auction raised a historic \$81 billion, indicating the tremendous value carriers see in the next generation 5G network. Worldwide 5G connections are projected to grow by 101x to \$1.0 billion in 2023, driven by rapidly rising global data needs. (1,2,3)
- Spectrum spend is expected to accelerate the 5G build-out as carriers are highly motivated to build quickly or lose their spectrum licenses, as well as customers. These licenses are especially valuable to 5G network operators, as available mid-band frequencies are a key component to deploying 5G wireless networks.
- Auction 107 was easily the largest-ever spectrum auction, far exceeding the record for gross bid proceeds of \$45 billion raised in 2015 by the AWS-3 spectrum auction. Canada hosted a similar auction in July 2021 boasting 3500 MHz spectrum, which generated a record \$7.2 billion. (4)
- In January 2022, AT&T led bidders in a Federal Communications Commission (FCC) 5G spectrum auction of 3.45 GHz band spectrum, generating proceeds of \$22.5 billion. (5)

### 5G Rollout Roadmap by Year



#### **CLOUD SPENDING AND USAGE IS BOOMING**

- Cloud infrastructure spending is expected to grow 12% to \$74.3 billion for 2021. In Q2 2021 alone, service providers spent \$17.1 billion on compute and storage infrastructure, up 13.6% from Q1 2021. (6)
- Accelerated cloud adoption is dependent on a fast and reliable communications network, whether it is in the data center, fiber to the home, edge networking, 5G or elsewhere. (7,8)
- COVID-19 has accelerated the long-term shift to the cloud, as 92% of enterprises now employ a multi-cloud strategy, while 80% employ a hybrid cloud strategy. The mass migration to a remote, digital-first society has directly driven increased cloud demand, as worldwide end-user spending on public cloud services is forecasted to grow 23% in 2021 to total \$332 billion, up from \$270 billion in 2020.

#### GOV. STIMULUS IS DRIVING BROADBAND INFRASTRUCTURE DEVELOPMENT

- The United States and Canadian governments have proposed/allocated an approximate combined \$275 billion between both the federal and state level in potential funding for broadband infrastructure.
- Currently, over 21 million Americans lack broadband access, and the government is focused on reducing the digital divide by providing internet access to these underserved populations. (1,10)
- The United States government is prepared to spend tens of billions of dollars in order to bridge this digital divide. The total amount needed in order to achieve universal broadband in the United States is estimated to be ~\$80 billion, of which \$20.4 billion has already been allocated through Rural Digital Opportunity Fund.
- Virtually every city in the U.S. and Canada has enacted local ordinances and building codes making in-building wireless mandatory for first responders.



# Rising Global Data Volume Needs

The global datasphere is projected to triple in growth by 2025 as enterprises and consumers become more dependent on it in business and personal applications



#### **5G Tailwinds**

Over the course of the next 5-7 years, carriers in North America are projected to spend over \$250 billion on wireless, not including spectrum spend



#### **IoT Device Explosion**

5 billion connections will be related to IoT by 2025, driven by massive end market expansion. Investor interest is evident as IoT VC exit activity reached historic levels in 2020



#### **Public Safety DAS**

New government regulations requiring wireless connectivity in all buildings for emergency responders will propel the public safety DAS market to grow 9x by 2027

- ) Federal Communications Commission (March 2020)
- Gartner, 'Gartner Forecasts Worldwide Public Cloud End-User Spending to Grow 23% in 2021' (April 2021)
- Barron's 'Telecom Companies Just Spent \$81 Billion on 5G Spectrum' (February 2021)
- Reuter's 'Canada's spectrum auction raises record \$7.2 bln as firms gear for high-speed internet (July 2021)
- (5) Reuter's 'AT&T leads bidders in \$22.5 billion U.S. spectrum auction' (January 2022)

- IDC, 'Cloud Infrastructure Spending' (March 2020)
- Markets and Markets, 'Artificial Intelligence (AI) Market worth \$309.6 billion by 2026' (May 2021)
- B) Bond Capital, 'Our New World 2020' (April 2020)
- Gartner, 'Gartner Forecasts Worldwide 5G Network Infra. Rev. to Reach \$4.2 Billion in 2020 (August 2020)

0) Microsoft





# Data Volume and Global Connectivity are Driving the Proliferation of Cloud Services

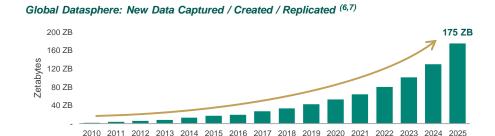
#### ACCELERATING CLOUD GROWTH & RATE OF ADOPTION...

- Cloud services is one of the most dramatic emerging technologies of the past decade and remains the main driver of change in enterprise technology stacks, from SaaS to Infrastructure as a Service (laaS), Platform as a Service (PaaS), Communications Platform as a Service (CPaaS), Unified Communications as a Service (UCaaS), Video Conferencing as a Service (VCaaS) and more, hosted in public and private datacenters. (1)
- A shift in the top PaaS services used by organizations in 2021, favoring data warehousing, relational Database as a Service (DBaaS) and Container as a Service (CaaS), is driven by growing interest in leveraging containers to speed deployment, scale operations, and increase cloud-run workload efficiency. (2)

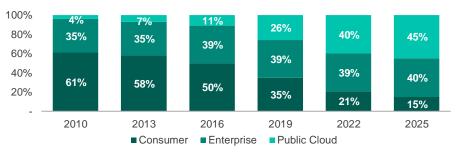
#### ...SUPPORTED BY INCREASED INVESTMENT & INTERNET SPEED

- Rising global internet usage has enabled growth and innovation in cloud-based platforms, including greater access to fast wireless and broadband communications infrastructure, emerging 5G technology, smartphone proliferation, video on demand, VoIP, and digital media.
- Major technology and cloud service providers have reacted by investing in hyperscale datacenters, used by organizations managing massive levels of data generated by VR, big data, social media, analytics and data gathered by IoT devices. Hyperscale data centers have experienced a straight line trajectory, with an average of 16 new data centers emerging per quarter over the last three years. By the end of 2021, there were more than 700 hyperscale data centers. (3)
- The growing importance of cloud services and corresponding infrastructure is driven by an explosive expansion in data that companies want to manage, analyze and draw conclusions from. Cloud services are being adopted at a rapid rate and are already a massive market, projected to grow 18% in 2021. (4) Furthermore, by 2024, public and private cloud deployment will account for nearly 65% of worldwide IT infrastructure spending. (5)

#### CLOUD DOMINATES IN AN INCREASINGLY DATA-DRIVEN WORLD







## Worldwide Public Cloud Service Revenue Forecast, per Gartner (Billions of U.S. Dollars) (4)



Calero, 'Top 5 Emerging Trends Impacting Communications Technology for 2019' (December

Gartner, '2021 State of the Cloud Report' (March 2021)

Statista Estimates, 'Number of hyperscale data centers worldwide from 2015 to 2021'; Synergy Research Group (9/13/2021)

Gartner, 'Gartner Forecasts Worldwide Public Cloud Revenue to Grow 18% in 2021' (November

IDC; Statista Estimates, 'IT Infrastructure Spending Forecast by Type' (7/30/2021)

<sup>(6)</sup> Bond Capital, Mary Meeker 'Internet Trends 2019' (5/11/2019)

IDC, 'Digitization of the World From Edge to Core White Paper' developed in collaboration with Seagate (11/18), Note: Consumer refers to devices owned by end users; Note: 2018 = last full vear before release of report, 2019-2025 are estimated from current trends

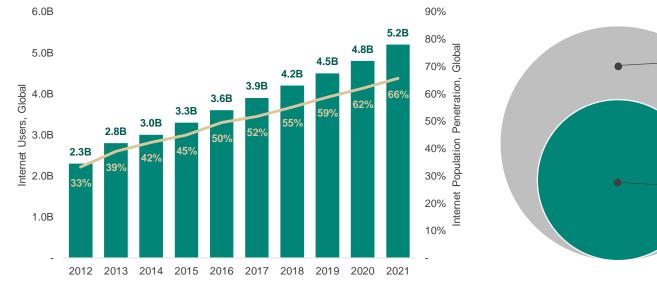


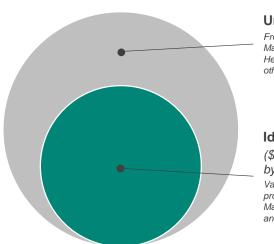
# 5G Rollout is Poised to Supercharge Network Speeds and Data Usage

- 5G is the fifth generation of cellular mobile communications and represents a fundamental shift in communication network architectures, promising lower latency, higher bandwidth and much greater speeds relative to its predecessors. Major players in the transformation to 5G include telecommunications services providers, transmission equipment makers, antenna manufacturers, and data center infrastructure providers. (1)
- 5G is driving a number of new connected services that were not previously possible, or harder to accomplish at scale with 4G. Core 5G use cases include enhanced mobile broadband, mission-critical communications, and massive IoT, although increasingly relevant use cases include self-driving automobiles, virtual reality and augmented reality, edge computing acceleration, smart factory 4.0, smart cities and buildings, and energy preservation applications.
- 5G must be deployed across network infrastructure at every stage, and billions of dollars of capex will be needed. While 5G could take years to achieve ubiquity, it is already a massive market with strong momentum and is becoming increasingly deployed.
  - The worldwide 5G market size is projected to reach \$720 billion by 2030, primarily comprised of mobile services, fixed wireless services, and narrow-band IoT. Specifically, 5G contribution to United States GDP by 2030 is expected to eclipse \$484B, doubling the economic gain accruing to the next closest country. (2,3)
  - 5G commercial rollouts accelerated in the past year despite disruptions due to the COVID-19 pandemic, reaching 158 local operators with active networks in 67 markets worldwide as of April 2021. (4)
  - Worldwide 5G connections are projected to grow at a CAGR of 216% from roughly 10.0 million in 2019 to 1.0 billion in 2023. (3)
  - Wireless capital expenditures for major carriers such as T-Mobile, AT&T, Verizon and Dish are projected to begin ramping up significantly over the next 5 years with these carriers expected to spend 41% more a year on average in capex through 2025, in comparison to annual capex spending in years 2018-2020. (5)



### SPECIFIC 5G APPLICATIONS CAN UNLOCK TRILLIONS IN GLOBAL VALUE (7)





# **Unsized Potential**

From use cases such as Manufacturing, Mobility, Healthcare and Retail, as well as other domains

# **Identified GDP Impact**

(\$1.2 - \$2.0 Trillion Globally by 2030) (8)

Value-add from use cases such as productivity gains and innovation in Manufacturing, Mobility, Healthcare and Retail

Qualcomm, 'Everything you need to know about 5G'

IDTechEx, '5G Technology, Market and Forecasts 2020-2030' (1/12/2021)

Gartner, 'Gartner Forecasts Worldwide 5G Network Infra. Rev. to Reach \$4.2 Billion in 2020'

S&P Global Market Intelligence (May 2021)

Credit Suisse. 'American Tower - 1Q Preview - Pos. Well for C-Band Act...' (April 2021)

Internet Growth Statistics, Internet World Stats (March 2021)

McKinsey Global Institute, 'Connected World'; Segment of distinctive B2B use cases



# Fiscal Stimulus is Supporting the Development of Broadband Infrastructure

#### **BRIDGING A DIGITAL DIVIDE**

Meeting **Needs of** Underserved **Communities** 

- Prior to the COVID-19 pandemic, states and carriers began organizing to facilitate broadband access for underserved areas of the United States. Currently, more than 21 million Americans lack any broadband access and over 162 million lack high-speed internet access. (1,2)
- Communities without reliable high-speed internet service lack the same opportunities existing in neighborhoods with a more robust network. Oftentimes, wireless is the preferred method used to connect underserved communities.
- The government is prepared to spend a significant amount of dollars in order to bridge this digital divide. In November 2021, President Joe Biden signed a \$1.2 trillion infrastructure bill (Infrastructure Investment and Jobs Act) that includes \$65 billion for broadband, expanding internet access to more Americans in efforts to close the digital divide.

### RAPIDLY GROWING MARKET FOR PUBLIC SAFETY IN-BUILDING DAS

**Public Safety Distributed** Antenna **Systems** (DAS)

- Virtually every city in the U.S. and Canada has enacted local ordinances and building codes making in-building coverage for first responders mandatory.
- These government regulations to enable first responder communications are driving the demand for public safety DAS products and are often required prior to receiving an occupancy permit. As a result, the global market for public safety in-building DAS is expected to grow at 31% CAGR through 2027.
- The public safety DAS market includes FirstNet, an entirely new network focused on first responders that began deployment in 2018 with AT&T. The network is federally mandated and its purpose is to create a nationwide blanket of coverage for first responders.

#### **TOTAL FEDERAL STIMULUS**

## Rural Digital Opportunity Fund (RDOF) (3)

- \$20.4B 10-year fund established by the FCC in January 2020 to bring reliable and affordable high speed fixed broadband service to rural areas (4)
- In the Phase I auction (Auction 904), 180 bidders won \$9.2 billion to provide broadband to 5.2M locations. As of December 2021, \$2.7 billion has been approved

## Consolidated **Appropriations** Act, 2021 (CAA) (5)

- \$7.2B allocated for broadband projects to support broadband access for students, families and unemployed workers
- Broadband provisions focused on building out network infrastructure in underserved communities with significant "rip and replace" efforts

## Connect **America Fund** (CAF) (6)

- \$1.5B awarded in November 2020 for Rural Broadband under phase 2 to support 2021 network construction
- A majority of companies accepting CAF Phase II support have six years to plan and deploy broadband to consumers

## Additional Federal **Broadband Funding**

- \$1.9T American Rescue Plan Act of 2021 establishes \$10B Capital Project Fund to carry out critical capital projects (7)
- CARES Act included \$150B to cover expansion of connectivity (8)
- \$1.2T Infrastructure Investment and Jobs Act signed in November 2021 includes \$65 billion for broadband, expanding internet access to more Americans (9)

## GLOBAL PUBLIC SAFETY IN-BUILDING WIRELESS DAS MARKET SIZE (10) (\$USD billions)



- Federal Communications Commission
- Federal Communications Commission (1/29/2021)
- Fierce Telecom 'FCC unleashes \$1.04B in RDOF funding but big bidders still waiting' (12/17/2021) National Conference of State Legislatures (1/1/2021)
- National Conference of State Legislatures (3/1/2021)
  - (8) Next infrastructure bill aims to end 'digital divide' (3/16/2021)

Universal Service Administration Co. 'CAF Phase II'

- CNET, Digital divide fix gets a boost as Biden signs \$1.2 trillion infrastructure bill' (10/14/2021) DADAVIDSON
- (10) Verified Market Research



# **Emerging Applications in Private Networking**

#### IMPLEMENTATION OF PRIVATE BROADBAND SYSTEMS IN THE U.S.

- Rather than relying on public networks, organizations have begun deploying private networks to provide wireless broadband connectivity while maintaining control of the system. This grants organizations access to the benefits of on-premise traffic, including improved speed, latency, security, and privacy.
- The private LTE market globally is projected to grow from \$4.0B in 2020 to \$7.5B by 2025, representing a CAGR of 13.4%. Some key drivers shaping market outlook are the availability of unlicensed spectrums, growing demand in industrial and commercial IoT, and mobile robotics and machine learning. (1)
- Cellular in-building DAS systems are becoming a critical part of both carrier cellular networks and enterprise infrastructure, and the market is expected to grow at a 13% CAGR through 2025. (2)
- DAS provides a high capacity network within locations that would typically overload a local network (stadiums, airports, colleges, music venues, etc.) or would normally not allow for usable signals to reach users (high-rise buildings, concrete-walled structures, etc.). Because so many new builds utilize materials that block RF signals, internal DAS systems will play an integral role in delivering uninterrupted coverage.

#### PRIVATE NETWORKS HELP COMPANIES GO GREEN

- Private wireless networks are helping companies conserve energy and reduce their carbon footprint by using cellular networks to monitor HVAC equipment, giving them more control over power consumption. Some companies report that their networks can produce a 25% decrease in energy consumption and 75% decrease in wastewater. (3)
- At the end of 2020, on average almost 80% of organizations worldwide either have or are developing an ESG plan, according to a report published by HSBC. (4) As CEOs around the world commit to reducing emissions, private broadband could play an important role in supporting those objectives, especially in conjunction with data analytics technologies like edge computing.
- Further bolstering this trend is the FCC's 2020 ruling granting U.S. utilities access to more of the spectrum available for private wireless broadband. The change will allow utilities to develop LTE networks to perform real-time monitoring and active control of their energy distribution systems, per Pixabay. (5) The Wireless Telecommunications Bureau started accepting applications for the 900MHz segment in FQ2 2021, so the benefits of the change have yet to be fully realized.

#### DISRUPTIVE POTENTIAL OF PRIVATE BROADBAND ACROSS A VARIETY OF SECTORS (6)



#### Healthcare

The use cases of private networks in healthcare are endless. Expansive sites like hospitals can benefit from broader area coverage, increased speed and reliability, as well as improved security to protect sensitive patient information.



### **Agriculture**

Farmers using real-time IoT devices delivered over private networking systems can expect to see remarkable increases in profitability. These benefits are derived primarily through the cost reductions and efficiency boosts associated with these IoT products.



#### Mining

The benefits of private broadband in mining operations are two-fold. First, mining relies on large amounts of data, which is more efficiently handled over a private network. Second, mining sites occupy large, often rural areas, which limits highspeed coverage using public broadband.



#### **Transportation**

Private networking would limit interference in high-traffic areas like airports and train stations. Private networks would also support the growing demand for high-speed data transfer necessary for advanced fleet monitoring and logistics.



#### Education

Schools turned to private networks to better serve rural students during the pandemic. While many schools have reinstated pre-pandemic norms, they will still benefit from the ease of deployment, reliability, and cost-effectiveness of private broadband.

Bling Networks, 'How Private LTE and CBRS will Revolutionize These 5 Sectors in 2021 and Bevond' (Dec 2020)



Research and Markets, 'Private LTE Industry to be Worth \$7.5 Billion by 2025 – Global Market Growth, Trends and Opportunity Analysis' (9/2/2020)

Mordor Intelligence, 'In-Building Wireless Market – Growth, Trends, Covid-19, Impact and

<sup>(3)</sup> Fierce Wireless, 'Private Networks Help Companies Go Green' (7/9/2021)

t) HSBC, 'Global ESG Policy Adoption 2020, by Organization Type' (Oct 2020)

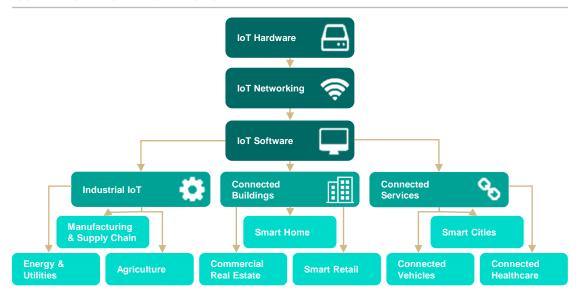
<sup>)</sup> Fierce Wireless, 'Private Networks to get a Boost from FCC Ruling on 900 MHz Band' (8/14/2020)



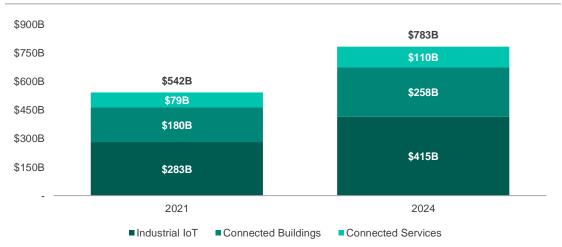
# IoT is Fueling Innovation Across the Data and Communications Landscape

- The Internet of Things (IoT) is a network of assets containing embedded technology to communicate, sense and interact with their internal states or external environment.
- IoT is a major enabling technology for radical digital change in many core industries; some examples include:
  - Machine connectivity and factory automation in manufacturing
  - Smart city connectivity (parking meters, traffic lights, etc.)
  - Physical security and surveillance in the smart home
  - · Preventive patient monitoring in healthcare
- Actionable and real-time data being collected by interconnected IoT devices provides the potential to transform the above industries via increased analytical decision making.
- End market expansion is driving the global IoT market as its projected to grow from \$381.3 billion in 2021 to \$1.9 trillion in 2028 (CAGR of 25.4%).
- IoT is developing into a more mature market with attractive growth opportunities and several factors driving its growth:
  - The spread of mobile devices with advanced sensors has dramatically enhanced data collection and transmission efficiencies.
  - Powerful analytical tools including AI & ML are bolstering the value of IoT data through predictive inferencing.
  - Increasing speed of connectivity driven by expanding cloud infrastructure, edge computing and the continuous deployment (expanding reach) of 5G networks is making it easier to integrate IoT devices.
- VC activity has been propelling the IoT market, with IoT companies raising \$11.1 billion in VC capital across 982 deals in 2020, a 42%+ increase in deal value relative to 2019.<sup>(2)</sup>

#### CURRENT STATE OF THE IOT VALUE CHAIN (2)



## IoT MARKET BY SEGMENT, 2021-2024, WORLDWIDE (USD in Billions) (2)



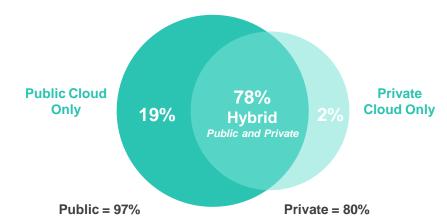


# **Enterprises are Embracing Cloud Hybridization Strategies**

- Hybrid-cloud models are implemented when enterprises utilize both public and private cloud infrastructure to host data and workloads. Hybrid strategies allow organizations to realize the power of public cloud computing along with the security and control of a private network.
- Many more organizations are using hybrid cloud architecture to protect and control their data while still managing and analyzing it in a public cloud environment, alleviating some security concerns. 42% of enterprises with a hybrid cloud strategy are leveraging multi-cloud management tools, up 9% YoY with survey respondents already running applications across an average of 5.3 clouds, in addition to experimenting with an additional average of 3.3 clouds. (1)
- The most common multi-cloud enterprise approach is a mix of multiple public and private clouds, providing a superior option to address the rapidly evolving cloud usage needs presented by the COVID-19 pandemic's impact on business. (1)
- Hybrid cloud strategy goes hand in hand with other core trends in enterprise networking:
  - Software Defined Networking: Software-defined data center technologies are becoming more widespread and allow server virtualization and containerization into software form, enabling multiple users to install and manage their own services on the same physical server.
  - Co-Location: A colocation data center is a physical facility that
    offers space with the proper power, cooling and security to host
    businesses' computing hardware and servers. This allows
    businesses to centralize their IT operations and create an
    efficient architecture that can reduce costs.
  - Edge Computing and AI: By 2022, 60% of companies will rely on colocation partners to provide most of the connectivity services and power-optimized facilities designed to improve performance for edge-based AI investments. (2)

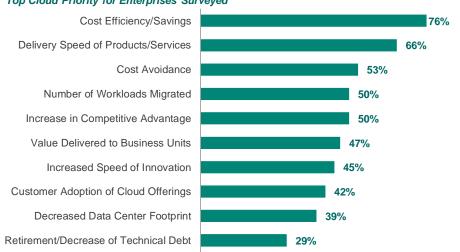
#### MULTI-CLOUD IS THE PREFERRED STRATEGY AMONG ENTERPRISES (1)

## Breakdown of Types Clouds Used for all Organizations, % of all Respondents



#### #1 ENTERPRISE PRIORITY IS EXISTING USE OF CLOUD OPTIMIZATION (1)

# Top Cloud Priority for Enterprises Surveyed



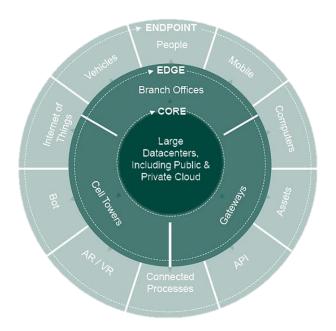


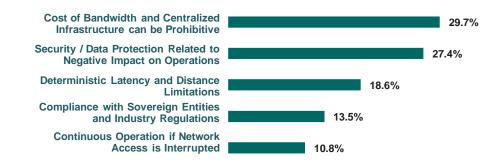
# **Cloud Computing is Moving to the Edge**

- Edge Computing brings data and computations closer to the device, expanding the reach of core cloud networks and pushing key processing functions to the edge of the network, closer to where the data itself is gathered by endpoints such as PCs, phones, industrial sensors, connected cars, and wearables.
- The case for edge computing is rapidly increasing with 5G, AI/ML and IoT technologies converging to create the need for real-time computing on edge locations. Edge computing is faster, more scalable, and more reliable for critical IoT applications as opposed to traditional cloud computing which requires transferring data to a central server location that can be thousands of miles away.
- Edge computing enabling technologies are a major opportunity for emergent and existing IT stakeholders. IDC has identified over 150 use cases for edge computing, with the greatest investment dollars pouring into content delivery networks and virtual network functions. (1)
- Global edge computing spending is is projected to reach \$274B by 2025, up from \$176B expected in 2022, representing a 15.9% CAGR over the period. This boom is primarily driven by the exponential growth in data creation, capture, copy, and consumption over the next several years as well as the demand for low-latency processing, data protection and computing capabilities at reduced cost. Among a plethora of other use cases, edge computing adoption will spark monumental improvements in global security by enabling edge-based threat detection, data minimizations, and decentralized infrastructure. (2)

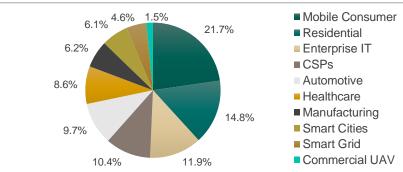
#### DATA PROPAGATION IS EXPANDING FROM ENDPOINTS TO CORE AND BACK (3)

### PRIMARY MOTIVATIONS DRIVING EDGE COMPUTING INVESTMENT (4,5)





#### BY 2028, THE GLOBAL INFRASTRUCTURE EDGE WILL SUPPORT 10 KEY APPLICATIONS (4)



IDC, 'Edge Computing Solutions Powering the Fourth Industrial Revolution' (Jan 2021)

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IDC, Worldwide Edge Spending Guide (Jan 2022)

ReportLinker, 'Edge Computing Market with COVID-19 Impact - Global Forecast to 2026' (Nov 2021)

Bond Capital, Mary Meeker 'Internet Trends 2019' (May 2019)

The Linux Foundation, 'State of the Edge 2021' (Mar 2021)



# UCaaS is Seamlessly Connecting Workforces That Are More Widely Distributed Than Ever

- Unified Communications as a Services (UCaaS) is the modern as-a-service model of the traditional unified communications concept, which includes critical business communication functions such as voice and telephony, video and audio conferencing, real-time messaging and presence.
- The traditional unified communications model requires businesses to acquire, install, manage and update onsite infrastructure to facilitate local and long-range business communication. UCaaS is alternatively hosted by a provider, making disruptive, leading edge communications technologies more accessible to businesses of all sizes by avoiding the initial expenses often associated with setting up an advanced communications strategy.
- Adoption of cloud-based UCaaS solutions remains in the low single digits, with the alternative solutions of on-premises accounting for an estimated 97% of the market. This is primarily attributable to the hurdles associated with transferring historically hardware-centric systems coupled with the security, availability, and cost concerns to enterprises. (5) COVID-19 served as a catalyst for cloud adoption, driving companies to allocate spend away from physical infrastructure and accelerating the shift towards hosted UCaaS solutions, enabling distributed workforces to seamlessly communicate in more flexible and agile ways.
  - Enterprise communications issues reportedly result in \$42.6 billion in lost productivity annually.
  - Gartner reports that 82% and 70% of CFO respondents said they will increase investments in digital capabilities and information technology, respectively, in FY21, likely in partial response to the nearly 78% of surveyed employees that want to continue working from home in some capacity post COVID-19. (2.3)







Provoke Media, 'The Cost Of Poor Communications' (2017)

permanently...' (July 2020)

D|A|**DAVIDSON** 

 <sup>(2)</sup> Gartner CFO Survey (April 2020)
 (3) Statista Research Department, 'Share of employees that prefer to continue working from home

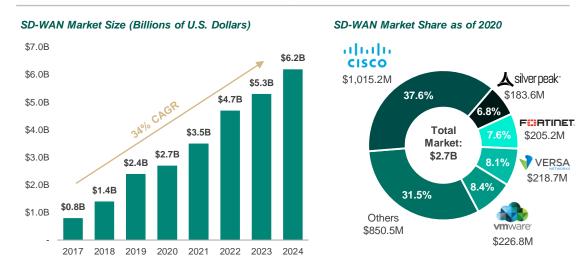
 <sup>(4)</sup> Grand View Research, 'Unified Communication As A Service Market Size, Share & Trends Analysis Report By Deployment (Public Cloud, Private Cloud), By Industry Vertical, By Region, And Segment Forecasts, 2021 – 2028' (March 2021)
 (5) UBS Global Research, 'The Future of Communications as a Service' (5/26/2021)



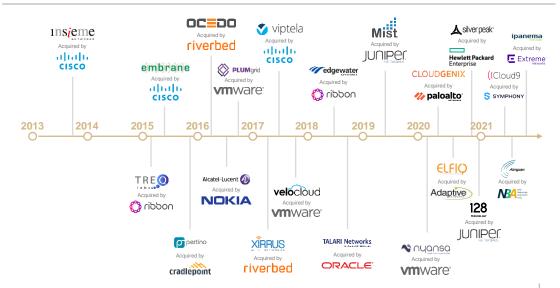
# **SD-WAN Bringing Principals of the Cloud to Network Management**

- SD-WAN (software-defined wide area network), is a software approach to managing wide area networks (WANs) to offer ease of deployment, central manageability, reduced costs, and improved connectivity to branch offices and the cloud. SD-WANs are programmatically configured and managed so they can effectively and affordably meet changing business needs.
- Enterprise adoption of SD-WAN technologies is rapidly accelerating to keep pace with the large shifts towards consumption of cloud-based applications "at the edge".
  - An increased reliance on the cloud is driving increased WAN traffic, with global business WAN traffic expected to double by 2022 and reach 5.3 exabytes per month. (1)
  - SD-WAN traffic is expected to grow at a CAGR of 34% and grow five times its size while accounting for 29% of WAN traffic by 2022.
  - In a 2020 survey of enterprise IT leaders completed by Cato Networks, 40% of organizations globally are actively planning their SD-WAN deployment. (3)
  - Many enterprise networking incumbents are attempting to gain a foothold or leadership position in the large and crowded SD-WAN market. As a result, there has been rapid vendor consolidation in the space with over 15 acquisitions in the past eight years by large strategic providers. While much of the market is still up for grabs, Cisco has strong leadership with nearly 40% of the worldwide SD-WAN market share.

### SD-WAN MARKET IS LARGE & RAPIDLY EXPANDING, AMPLE MARKET SHARE REMAINS (4)



## ENTERPRISE NETWORKING INCUMBENTS ARE BUYING SHARE IN THE SD-WAN MARKET (5)

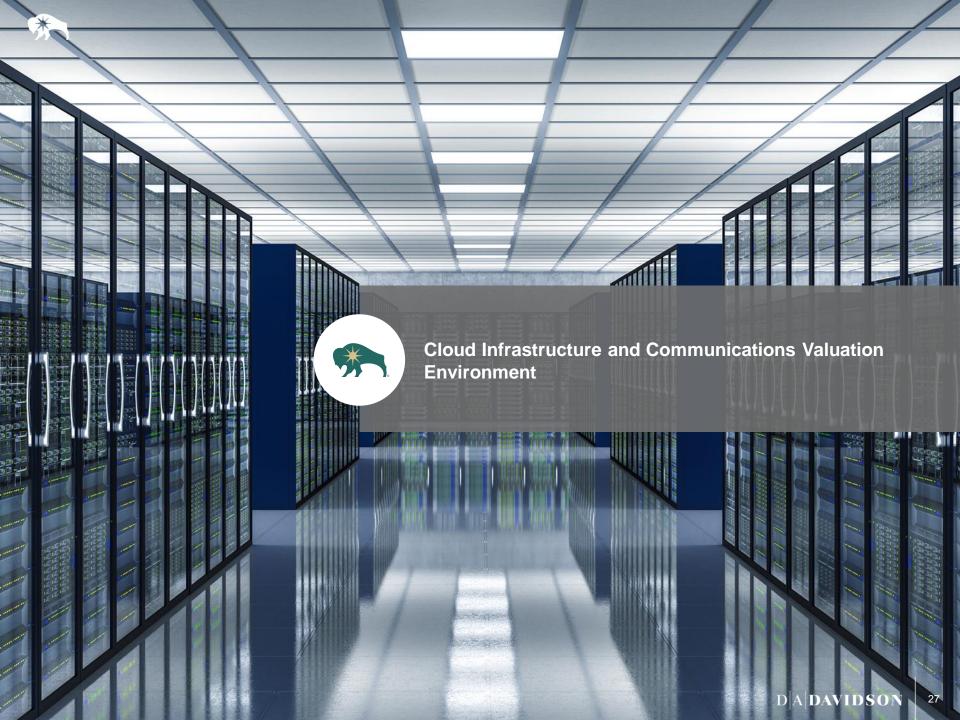


<sup>(1)</sup> Cisco, 'VNI Forecast Highlights Tool' (2017)

Virtualization & Cloud Review, 'Cisco Forecasts Exploding SD-WAN Traffic' (11/28/2018)
 Cato Networks, 'SD-WAN Deployment in Organizations Worldwide 2020, by Level' (Jan 2020)

<sup>(4)</sup> Evercore ISI; IDC, 'Telecom & Networking Equipment 2021 Primer – Secular Tailwinds Ahead' (5/21/2021)

<sup>5)</sup> S&P CapitalIQ; Pitchbook; 2020

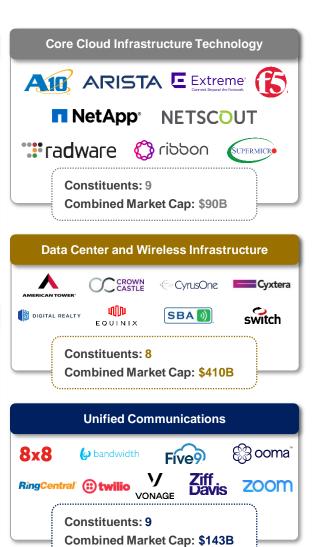




# **Cloud Infrastructure and Communications Market Overview**





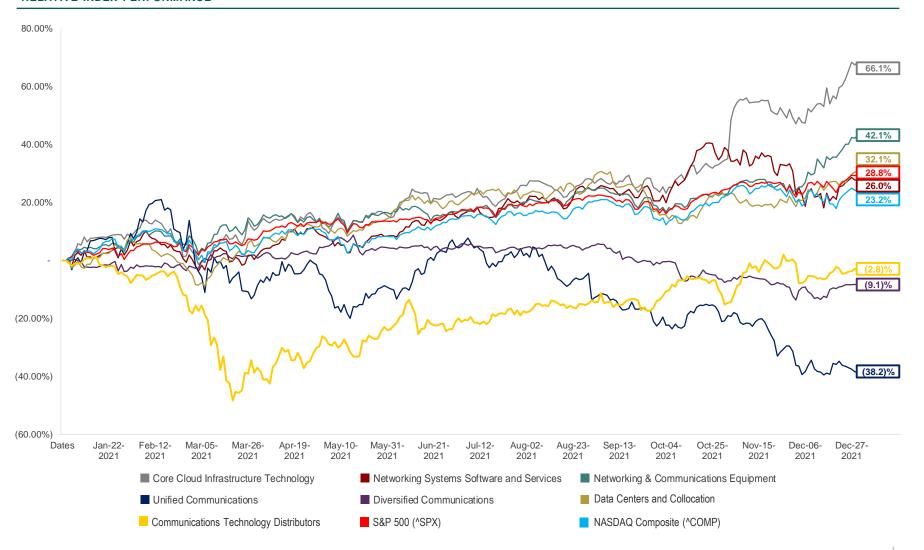




## Cloud Infrastructure and Communications Public Market Performance in 2021

Cloud infrastructure and communications companies have continued to experience growth despite the COVID-19 pandemic fallout in 2020

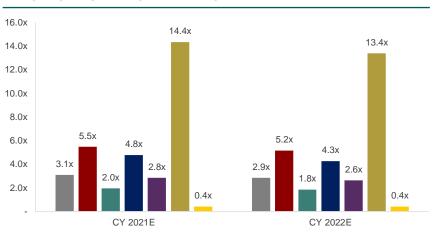
#### RELATIVE INDEX PERFORMANCE(1)



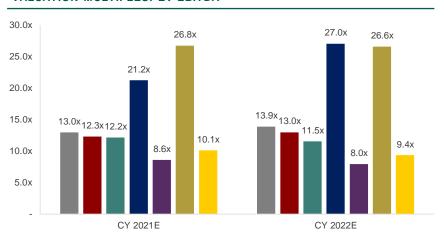


# **Relative Valuation and Trading Detail By Sector**

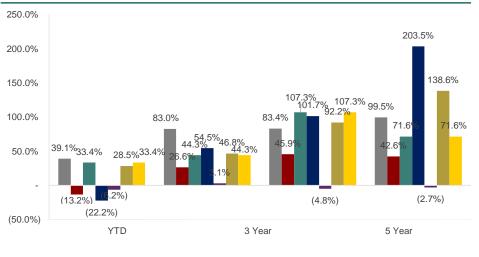
### VALUATION MULTIPLES: EV REVENUE(1)



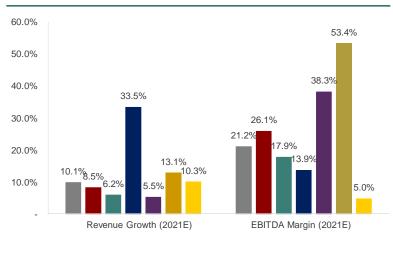
#### **VALUATION MULTIPLES: EV EBITDA(1)**



#### RELATIVE STOCK PRICE PERFORMANCE(1)



#### GROWTH AND MARGIN CONSENSUS ESTIMATES(1)



■ Core Cloud Infrastructure Technology

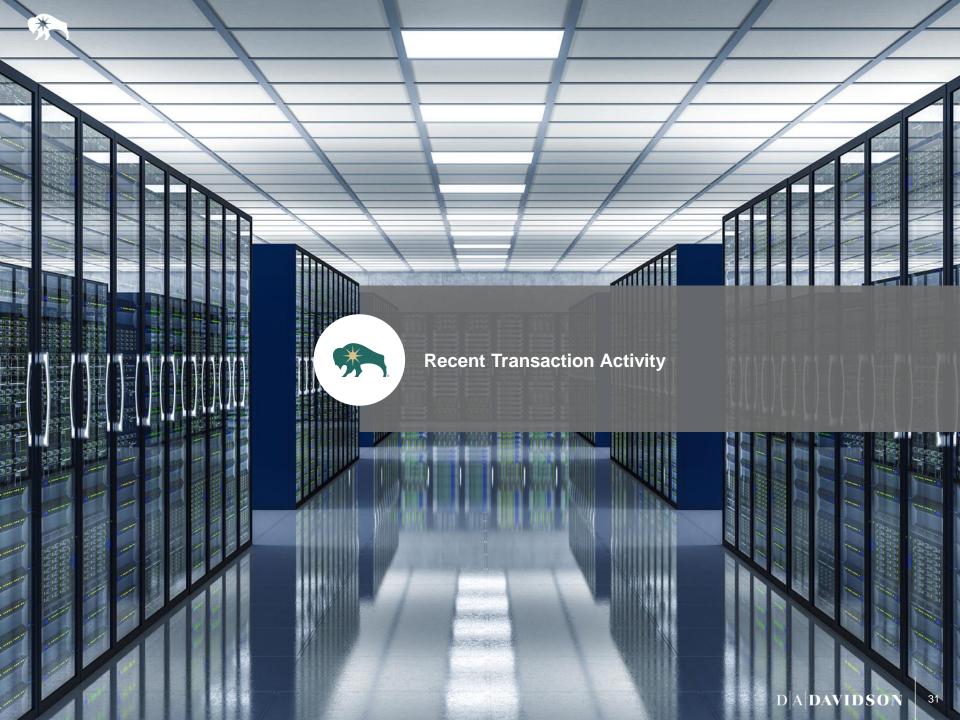
Unified Communications

Communications Technology Distributors

Networking Systems Software and ServicesDiversified Communications

■ Networking & Communications Equipment

Data Centers and Collocation





Date	Target	Acquirer	Sector	Target Description	Transaction	•	EV/Revenue	EV/EBITDA
2	3			3	Туре	(\$M)		,,
Dec 2021	online www.	HUNTER	Networking Systems Software and Services	Provider of fiber-optic and fixed-wireless internet services	M&A	NA	NA	NA
Dec 2021	ULTRA CHINI ABITAT BIVE	samtec	Networking & Communications Equipment	Designer and manufacturer of high-speed fiber-optic components	M&A	NA	NA	NA
Dec 2021	TriStru	HURON	Diversified Communications	Provider of telecommunications service intended to serve the business industry	M&A	NA	NA	NA
Dec 2021	Involta	CARLYLE	Core Cloud Infrastructure Technology	Owner and operator of IT intelligence and end-to- end infrastructure services	M&A	NA	NA	NA
Dec 2021	TENFOUR	ACUATIVE .	Core Cloud Infrastructure Technology	Operator of an IT network infrastructure utility model for IT organizations	M&A	\$6	NA	NA
Dec 2021	CATO	swisscom	Networking Systems Software and Services	Developer of a secure access service edge (SASE) platform	Private Placement	NA	NA	NA
Dec 2021	Chayora 朝 亞	edgeconnex*	Data Centers and Colocation	Provider of infrastructure development services focusing on building data center platforms	Private Placement	NA	NA	NA
Dec 2021	<b>₩</b> Microlab	mousquee	Networking & Communications Equipment	Manufacturer of radio frequency components developed for broadband applications	M&A	\$24	1.5x	6.6x
Dec 2021	<b>## 911</b> Datamaster	motorola	Networking Systems Software and Services	Developer of 9-1-1 data validation and routing software	M&A	NA	NA	NA
Dec 2021	ilanď	<b>III ↑</b> III SYSTEMS	Core Cloud Infrastructure Technology	Provider of cloud hosting services	M&A	NA	NA	NA
Dec 2021	RootMetrics'  By IHS Markit	OOKLA	Networking Systems Software and Services	Provider of tools for testing wireless coverage on mobiles	M&A	NA	NA	NA
Dec 2021	WIRELESS APPLICATIONS, CORP.* Consisting Wirefast	OTODATA Markan	Networking & Communications Equipment	Provider of telemetry services	M&A	NA	NA	NA
Dec 2021	Network-Centric Data Center in Denver	<u>IPİ</u>	Data Centers and Colocation	A data center in Denver	M&A	NA	NA	NA
Dec 2021	MCC	MEUTRIK	Networking & Communications Equipment	Manufacturer of data and communication cables	M&A	NA	NA	NA
Dec 2021	6 ITRENEW	IRON MOUNTAIN°	Networking Systems Software and Services	Provider of information technology asset disposition (ITAD) services	M&A	\$906	2.2x	12.0x
Dec 2021	CloudBees.	Goldman Sachs Asset Management	Networking Systems Software and Services	Developer of a cloud-based platform designed to provide an end-to-end automated software delivery system	Private Placement	\$1,245	NA	NA
Dec 2021	Main <b>O</b> ne	<b>UD</b> EQUINIX	Networking Systems Software and Services	Provider of telecom and internet services in Nigeria	M&A	\$320	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Dec 2021	1 tessco	T <sub>E</sub>	Communications Technology Distributor	Distributor of telecommunications products and s services	M&A	\$115	0.3x	NA
Dec 2021	AgJunction	Kupota	Diversified Communications	Developer of navigation solutions for the agriculture indsutry	M&A	\$84	5.5x	NA
Dec 2021	Vilicom signalling the future	bai communications	Networking Systems Software and Services	Designer of telecommunication services intended to provide connectivity in hard-to-reach places	M&A	NA	NA	NA
Dec 2021	H A L <b>Ó</b>	Amphenol	Networking & Communications Equipment	Developer of optical and networking equipment	M&A	\$715	NA	NA
Dec 2021	fuze	8x8	Unified Communications	Operator of a unified communications platform	M&A	\$250	1.9x	NA
Nov 2021	Portfolio of 10 data centers in NA	DIGITAL REALTY  PGIM	Data Centers and Colocation	Portfolio of 10 data centers in North America	M&A	\$581	NA	NA
Nov 2021	STARRY'	FIRSTMARK 🤛	Networking & Communications Equipment	Manufacturer of touchscreen Wi-Fi router devices and applications	IPO/Merger	\$1,380	NA	NA
Nov 2021	VONAGE	ERICSSON	Unified Communications	Provider of unifed communication services	M&A	\$6,316	4.9x	46.6x
Nov 2021	SP Smartbiz	(QSTEL	Unified Communications	Provider of voice termination and short message services for VoIP	M&A	\$3	NA	NA
Nov 2021	nitel	Cinven	Networking Systems Software and Services	Provider of internet connectivity and networking technology services	Private Placement	\$700	NA	NA
Nov 2021	KGPCo	circet	Networking & Communications Equipment	Provider of communications equipment, infrastructure, and logistics services	M&A	NA	NA	NA
Nov 2021	S GLOBAL CLOUD XCHANGE	37	Diversified Communications	Operator of subsea fiber cables and managed services	M&A	\$512	NA	NA
Nov 2021	€ CyrusOne.	KKR	Data Centers and Colocation	Operator of 53 data centers in the U.S., Europe, and Asia	M&A	\$15,183	13.1x	26.8x
Nov 2021	CORESITE	AMERICAN TOWER	Data Centers and Colocation	Owner and operator of 25 data centers in the U.S.	. M&A	\$9,505	14.9x	26.3x
Nov 2021	32,000 sq/ft Colorado data center	CHIRISA	Data Centers and Colocation	32,000 sq/ft Colorado data center	M&A	NA	NA	NA
Nov 2021	KNIGHT SKY	Network Innovations Group	Networking Systems Software and Services	Provider of managed network services specializing in secure satellite and wireless communications	g M&A	NA	NA	NA
Nov 2021	Quonix	COLOHOUSE	Data Centers and Colocation	3 data centers across Philadelphia, Colorado Springs and Albany	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Nov 2021	<b>™</b> McAfee	ADIA  AND	Networking Systems Software and Services	Provider of device-to-cloud cybersecurity software	M&A	\$20,014	11.0x	30.1x
Nov 2021	COREDIAL	bcm one	Networking Systems Software and Services	Operator of a SaaS platform intended to support channel partners with private labeled communication services	M&A	NA	NA	NA
Nov 2021	P	TRUVISTA Greecing what matters	Diversified Communications	Provider of telecommunications and fiber network services	M&A	NA	NA	NA
Nov 2021	Crbital Media Networks, Inc.	LINKUP	Diversified Communications	Provider of satellite communication and broadcasting services	M&A	NA	NA	NA
Nov 2021	CORY	+ HELM	Unified Communications	Provider of VoIP, business internet and data connectivity solutions	M&A	NA	NA	NA
Nov 2021	SA Photonics	CACL	Diversified Communications	Developer of photonic systems designed to facilitate reliable communications	M&A	\$275	NA	NA
Nov 2021	ROGERS	<b>∢</b> OUPONT≥	Networking & Communications Equipment	Developer of engineered materials and components for communications infrastructure applications	M&A	\$5,255	5.5x	23.4x
Nov 2021	peerless	infobip	Unified Communications	Provider VoIP solutions	M&A	NA	NA	NA
Nov 2021	COLL Data Centre Services	AtlasEdge	Data Centers and Colocation	12 data centers across Europe	M&A	NA	NA	NA
Nov 2021	Four data centers in Illinois, New York and Wyoming	fifteenfortyseven (BILOS LYSE BOS BRAILY  HARRISON STREET	Data Centers and Colocation	4 data centers across Chicago, Orangeburg, and Cheyenne	M&A	NA	NA	NA
Nov 2021	SecureCircle	CROWDSTRIKE	Networking Systems Software and Services	Developer of a data loss and data access governance platform	M&A	\$61	NA	NA
Nov 2021	<b>©</b> ОМТЕСН	acacia	Networking & Communications Equipment	Provider of advanced 911 emergency systems and wireless communcations technology	d M&A	\$1,057	1.9x	14.6x
Nov 2021	Ventus	DIGI	Networking Systems Software and Services	Developer of managed network-as-a-service solutions	M&A	\$348	NA	NA
Oct 2021	2sms.com	VoiceSage	Networking Systems Software and Services	Developer of a text messaging application with routing and audit trail capabilites	M&A	NA	NA	NA
Oct 2021	NeuVector	SUSE	Networking Systems Software and Services	Developer of a container firewall software	M&A	\$133	NA	NA
Oct 2021	<b>voda</b> code	42 <sub>com</sub>	Unified Communications	Provider of international and domestic voice traffic and SMS services	M&A	NA	NA	NA
Oct 2021	♥ veracast°	<b>№</b> OpenExchange	Unified Communications	Developer of web-based solutions to enhance product offerings in virtual communications	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Oct 2021	SONTIQ	TransUnion	Networking Systems Software and Services	Developer of identity and fraud protection software	e M&A	\$638	NA	NA
Oct 2021	(II) OCULII	Ambarella"	Diversified Communications	Developer of a high-resolution imaging radar and virtual aperture software	M&A	\$308	NA	NA
Oct 2021	MEDALLEN	DIGITAL REALTY	Diversified Communications	Provider of interconnecting clearing and co- location data service	M&A	NA	NA	NA
Oct 2021	SecureTrust	sysnet.	Networking Systems Software and Services	Provider of compliance, data privacy, and risk management services	M&A	\$80	NA	NA
Oct 2021	GIGABIT	innercity interest	Unified Communications	Provider of data and voice services	M&A	NA	NA	NA
Oct 2021	Tratus Notworks SUPERIOR SOLUTIONS	NOVACAP <sup>Ø</sup>	Core Cloud Infrastructure Technology	Provider of fiber-optic bandwidth infrastructure services	M&A	NA	NA	NA
Oct 2021	<b>%</b> super <b>loop</b>	DIGITALBRIDGE COLUMBIA CAPITAL	Core Cloud Infrastructure Technology	Provider of independent dark fiber infrastructure services	M&A	NA	NA	NA
Oct 2021	Clear Rate	PARTNERS	Networking Systems Software and Services	Provider of fiber internet, hosted phone systems, cloud servers, and managed IT services	M&A	NA	NA	NA
Oct 2021	CATO	Lightspeed	Networking Systems Software and Services	Developer of a secure access service edge (SASE) platform	Private Placement	\$2,500	NA	NA
Oct 2021	<b></b> DataPlex	DAMAC	Data Centers and Colocation	Provider of data center engineering and construction services	Private Placement	\$222	NA	NA
Oct 2021	GN	UPSTACK	Diversified Communications	Provider of integrated services for telecom companies	M&A	NA	NA	NA
Oct 2021	▲ AirAdvantage	TEC/	Networking Systems Software and Services	Provider of fixed wireless broadband services	M&A	NA	NA	NA
Oct 2021	simply bits	tucows	Networking Systems Software and Services	Provider of wireless internet services	M&A	NA	NA	NA
Oct 2021	AtlasEdge	DIGITAL REALTY	Data Centers and Colocation	Developer of data centers	Private Placement	NA	NA	NA
Oct 2021	optimyze	elasticsearch	Core Cloud Infrastructure Technology	Developer of cloud resource optimization platform	M&A	\$20	NA	NA
Oct 2021	SITI Networks	🐝 apg	Networking Systems Software and Services	Developer of fiber to the home network intended for internet service providers	Private Placement	\$2,900	NA	NA
Oct 2021	green cloud	SYSTEMS	Data Centers and Colocation	Provider of data center, backup, and restoration services	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Oct 2021	ARCADIAN	<b>□</b> TIAA	Core Cloud Infrastructure Technology	Provider of fiber infrastructure intended to build and operate networks	Private Placement	NA	NA	NA
Oct 2021	ComSites West	EVEREST	Networking & Communications Equipment	Portfolio of wireless towers located in northern California	M&A	NA	NA	NA
Oct 2021	A hyperscale data center in Santa Clara	DIGITALBRIDGE	Data Centers and Colocation	24MW hyperscale data center in Santa Clara, CA	M&A	NA	NA	NA
Oct 2021	CORPORATION THE POINTS OF BRING COMMICTED.	<b>LEE</b> EQUITY	Networking & Communications Equipment	Distributor of wireless network accessories and systems	M&A	NA	NA	NA
Oct 2021	COMMUNICATIONS	GREAT PLAINS COMMUNICATIONS	Diversified Communications	Provider of internet, telecommunication and cable services	M&A	NA	NA	NA
Sep 2021	TRIWIRE Engineering Salutions Inc	ாது	Networking Systems Software and Services	Provider of broadband installation services	M&A	\$9	NA	NA
Sep 2021	epsilon 🔑	kt	Diversifed Communications	Provider of voice and data connectivity solutions	M&A	NA	NA	NA
Sep 2021	DATA CENTERS	VANTAGE SATA CENTERS	Data Centers and Colocation	Provider of data centers	M&A	NA	NA	NA
Sep 2021	Comconexx	FOR TRAN	Networking Systems Software and Services	Provider of telcommunications sales, installation, and services	M&A	NA	NA	NA
Sep 2021	VERNE GLOBAL	D/9 DIGITAL INFRASTRUCTURE	Data Centers and Colocation	Provider of sustainable data center solutions for high intensity computing	M&A	\$319	NA	NA
Sep 2021	T	futurefund Sunsuper (csc) Supermuttor Dispenditor	Networking Systems Software and Services	Operator of mobile tower infrastructure	M&A	\$2,800	NA	NA
Aug 2021	CONSOLIDATED	HORIZON	Core Cloud Infrastructure Technology	Provider of commercial fiber services	M&A	NA	NA	NA
Aug 2021	<b>Spōk</b>	acacia	Diversified Communications	Provider of healthcare communications systems	M&A	\$226	1.2x	7.3x
Aug 2021	AVANAN	Check Point SOFTWARE TECHNOLOGIES LTD.	Core Cloud Infrastructure Technology	Developer of cloud email security solutions	M&A	NA	NA	NA
Aug 2021	MASERGY	COMCAST BUSINESS	Networking Systems Software and Services	Provider of network services intended to manage vital communications	M&A	NA	NA	NA
Aug 2021	Omni-ID	HID	Networking & Communications Equipment	Developer of radio-frequency identification tags	M&A	NA	NA	NA
Aug 2021	می	tevano	Networking Systems Software and Services	Provider of security software	M&A	\$3	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Aug 2021	ipanema	Extreme networks	Networking Systems Software and Services	Developer of WAN governance software	M&A	\$70.4	NA	NA
Aug 2021	verticalbridge	االشائلة DIGITALBRIDGE	Networking Systems Software and Services	Developer of wireless communications infrastructure	M&A	NA	NA	NA
Aug 2021	4EOS Sequelos/Monte/Searty	NETGAIN TECHNOLOGIES	Networking Systems Software and Services	Provider of network managed services, design, and installation services	M&A	NA	NA	NA
Aug 2021	COMSTAR SUPPLY	USTC CORP.	Communications Technology Distributor	Distributor of broadband materials and equipment	M&A	NA	NA	NA
Aug 2021	NKTELCO	SCHURZ	Networking Systems Software and Services	Provider of broadband and communications services	M&A	NA	NA	NA
Aug 2021	LUMEN	APOLLO	Diversified Communications	Telecommunications carrier serving global enterprises	M&A	\$7,500	NA	NA
Aug 2021	§ IMMCO Z	615	Networking & Communications Equipment	Manufacturer of devices for wireless applications	M&A	\$19	NA	NA
Aug 2021	57 Communication Sites	SBA D	Data Centers and Colocation	57 communications sites located in the United States	M&A	\$67	NA	NA
Aug 2021	azūga	<b>ZRIDGESTONE</b> Bridgestone Americas, Inc.	Diversified Communications	Developer of GPS vehicle tracking and road usage charging solutions	e M&A	\$391	NA	NA
Aug 2021	<b> </b> Layer	Limelight	Networking Systems Software and Services	Provider of edge-enabled, SaaS telecommunications solutions	M&A	\$33	NA	NA
Jul 2021	FIRST DIGITAL TELECOM	APOLLO	Diversified Communications	Provider of network architecture and fiber networks services	Private Placement	\$200	NA	NA
Jul 2021	ICTX WAVEMEDIA" Rose flathacide	EZEE F I B E R	Networking & Communications Equipment	Provider of fiber optic equipment and network services	M&A	NA	NA	NA
Jul 2021	HAWAIKI	$^{\mathrm{B}}_{\mathrm{W}}$	Diversified Communications	Operator of a submarine cable system	M&A	\$311	NA	NA
Jul 2021	LUMEN	STONEPEAK	Diversified Communications	Provider of a variety of communications solutions	M&A	\$3	NA	NA
Jul 2021	PCCW <sup>®</sup> 電訊溫料	அதியி DIGITALBRIDGE	Data Centers and Colocation	Operator of data center businesses in Hong Kong and Malaysia	M&A	\$750	NA	NA
Jul 2021	Idaho Towers Portfolio	o EVEREST	Networking & Communications Equipment	Developer of communications towers in Idaho	M&A	NA	NA	NA
Jul 2021	WALKER AND ASSOCIATES INC	<b>LSTC</b> CORP.	Networking & Communications Equipment	Distributor of telecommunications products and services	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Jul 2021	wcs	bcm one	Unified Communications	Provider of voice and data communications services	M&A	NA	NA	NA
Jul 2021	CLOUDKN@X	Microsoft	Networking Systems Software and Services	Developer of cloud security software	M&A	NA	NA	NA
Jul 2021	Indy Telecom Center	Netrality Data Centers	Data Centers and Colocation	Provider of solutions for IP carriers and cloud storage companies	M&A	NA	NA	NA
Jul 2021	BROAD HAND	GRANDE COMMUNICATIONS	Networking Systems Software and Services	Provider of fiber-to-the-home services across Central Texas	M&A	NA	NA	NA
Jul 2021	S@LUTELID Evolving Wireless Technology	OOKLA	Networking Systems Software and Services	Provider of network test and measurement solutions	M&A	NA	NA	NA
Jul 2021	Telefónica	KKR	Diversifed Communications	Provider of a variety of broadband and connectivity services	y M&A	\$500	NA	NA
Jul 2021	telecom	ufinet	Core Cloud Infrastructure Technology	Operator of fiber optic infrastructure	M&A	\$3	NA	NA
Jul 2021	Q - Engingering	<b>S</b> COMSovereign	Communications Technology Distributor	Provider of design, manufacturing, and distribution s services for the wireless and wireline industries	M&A	\$3	NA	NA
Jul 2021	xNet	<b>T</b> elesystem	Unified Communications	Provider of unified communications and cyber security services	M&A	NA	NA	NA
Jul 2021	everywhere	M C	Networking Systems Software and Services	Provider of gigabit internet network services	Private Placement	NA	NA	NA
Jul 2021	RISKIQ'	Microsoft	Core Cloud Infrastructure Technology	Provider of cloud SaaS solutions	M&A	NA	NA	NA
Jul 2021	nova telecom	<b>Viate</b> l	Networking Systems Software and Services	Provider of telecommunication services intended to serve enterprise and SME sectors	M&A	NA	NA	NA
Jul 2021	🕸 IoTium	view	Core Cloud Infrastructure Technology	Developer of managed secure network infrastructure	M&A	NA	NA	NA
Jul 2021	Menlo Equities	<b>S</b> COMSovereign	Data Centers and Colocation	A data center in Orange County, CA	M&A	\$181	NA	NA
Jul 2021	CAPSULE8	SOPHOS	Networking Systems Software and Services	Developer of threat protection software	M&A	NA	NA	NA
Jul 2021	FOGHORN	evoque data center solutions	Core Cloud Infrastructure Technology	Provider of cloud consulting and cloud engineering services	M&A	NA	NA	NA
Jul 2021	ALL POINTS BROADBAND Live Commercial.	SEARCHUIGHT	Networking Systems Software and Services	Provider of fiber-to-the-home and fixed-wireless broadband internet technology to home and businesses	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Jul 2021	integrity	AMERICAN ENGINEERING	Networking & Communications Equipment	Provider of structured cabling and wireless solutions	M&A	NA	NA	NA
Jul 2021	TELCO EXPERTS	Evergreen Services Group	Unified Communications	Provider of voice and data telecommunications services	M&A	NA	NA	NA
Jul 2021	ARIA TECHNOLOGIS NC Plea GyltxCassacerty*	Inflexion O Halo	Networking & Communications Equipment	Designer and manufacturer of fiber optical connectivity solutions	M&A	NA	NA	NA
Jul 2021	WOW,	ALLANIC LINEAR IN COLOR	Networking Systems Software and Services	Provider of broadband services	M&A	\$1,786	NA	11.0x
Jun 2021	NTERRA INETWORKS Fiber Driven. People Powered.	** apg  ** bypa	Diversified Communications	Provider of fiber-based fixed wireless services	M&A	NA	NA	NA
Jun 2021	: ::: twosix	CARLYLE	Diversified Communications	Developer of cyber threat intelligence and data visualization solutions	M&A	NA	NA	NA
Jun 2021	mobilitie	bai communications	Networking Systems Software and Services	Provider of outdoor and indoor wireless infrastructure platforms	M&A	NA	NA	NA
Jun 2021	((Cloud9	S SYMPHONY	Networking Systems Software and Services	Provider of a communication and analytics platform for financial markets applications	M&A	NA	NA	NA
Jun 2021	PRIME	MACQUARIE	Data Centers and Colocation	Developer and operator of wholesale data centers in California	s M&A	NA	NA	NA
Jun 2021	VIRTUAL <b>ARMOR)</b>	Evergreen Services Group	Networking Systems Software and Services	Provider of enterprise networking and cybersecurity products and services	M&A	\$14	1.4x	35.4x
Jun 2021	OMNIVIGIL	cloudli	Networking Systems Software and Services	Provider of cloud PBX, mass notification, and call center solutions	l M&A	NA	NA	NA
Jun 2021	RADIO	MULTITECH	Networking & Communications Equipment	Designer and manufacturer of long-range wireless sensors for the IoT industry	s M&A	NA	NA	NA
Jun 2021	Bearing Cybersecurity	PONDURANCE	Core Cloud Infrastructure Technology	Developer of a cloud-based cybersecurity platform	m M&A	NA	NA	NA
Jun 2021	CLARUS	tdm	Diversified Communications	Provider of wireless and fixed-line telecommunication services	M&A	NA	NA	NA
Jun 2021	<b>Zayo</b>	cologiX	Data Centers and Colocation	Provider of communications infrastructure services	es M&A	NA	NA	NA
Jun 2021	TRUE	Blue Skies Connections, LLC	Diversified Communications	Wireless service provider for those who qualify fo Lifeline	r M&A	NA	NA	NA
Jun 2021	Cambridge Network Solutions	Lightpath	Networking & Communications Equipment	Provider of network design, engineering, and construction services	M&A	NA	NA	NA



					Transaction	Implied FV		
Date	Target	Acquirer	Sector	Target Description	Туре	(\$M)	EV/Revenue	EV/EBITDA
Jun 2021	Fiber Network Assets of Fiber Hub	Lightpath	Networking & Communications Equipment	Operator of high-count fiber network	M&A	NA	NA	NA
Jun 2021	MEDIACLOUD	<b>T</b> elstra	Core Cloud Infrastructure Technology	Provider of cloud-based content management solutions	M&A	NA	NA	NA
Jun 2021	indonet	∘I∘ O Digital Edge <sup>∞</sup>	Core Cloud Infrastructure Technology	Provider of digital infrastructure services	M&A	NA	NA	NA
Jun 2021	Surf Solutions	BainCapital CREDIT	Networking Systems Software and Services	Provider of broadband services	M&A	NA	NA	NA
Jun 2021	Celteq"	COMMUNICATIONS	Networking & Communications Equipment	Manufacturer of cellular connectivity, WiFi communications, and first-responder system equipment	M&A	NA	NA	NA
Jun 2021	<b>bivio</b>	<b>SS8</b> .	Networking & Communications Equipment	Provider of federal and commercial network security products	M&A	NA	NA	NA
Jun 2021	<u>(as)</u>	Blackstone	Data Centers and Colocation	Provider of secure, compliant data center infrastructure	M&A	\$10,000	NA	NA
Jun 2021	COLOHOUSE	fifteenfortyseven conc. ministrativ  V A L T E R R A P A R T N E R S	Data Centers and Colocation	Provider of data center, cloud hosting, storage, and colocation services	M&A	NA	NA	NA
Jun 2021	Code C <sub>X</sub>	SYNOPSYS.	Networking Systems Software and Services	Developer of application security management solutions targeting software vulnerabilities	M&A	NA	NA	NA
Jun 2021	Two Way	Mobile Communications America	Networking Systems Software and Services	Provider of wireless communication services	M&A	NA	NA	NA
Jun 2021	fiberon	SANWA	Networking & Communications Equipment	Designer and developer of fiber optic components	s M&A	NA	NA	NA
Jun 2021	<b>Shieldy</b>	1 linch	Diversified Communications	Operator of an anti-spam bot for Telegram application	M&A	NA	NA	NA
Jun 2021	e <b>pik</b>	Granite	Networking & Communications Equipment	Manufacturer of plain old telephone service (POTS) replacement devices	M&A	NA	NA	NA
Jun 2021	trueljace	PANGIAM	Networking Systems Software and Services	Developer of Al-based facial recognition software solutions	M&A	NA	NA	NA
Jun 2021	<b>Uniti</b>	everstream* MATTE FARE. BETTE BURNESC*	Diversified Communications	Operator of a business-only high-capacity fiber network	M&A	NA	NA	NA
Jun 2021	Transaction Network Services	KIKOCH.	Core Cloud Infrastructure Technology	Global provider of infrastructure-as-a-service solutions for mission-critical applications	M&A	NA	NA	NA
Jun 2021	NOVETTA SOLUTIONS	accenture	Networking Systems Software and Services	Provider of government and enterprise fraud and threat-detecting analytics software	M&A	\$1,000	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Jun 2021	datac <b>@</b> ral	CLOUDERA	Core Cloud Infrastructure Technology	Provider of end-to-end data infrastructure as a service	M&A	NA	NA	NA
Jun 2021	DENIM GROUP	C 🕸 A L F I R E.	Networking Systems Software and Services	Designer and developer of security software	M&A	NA	NA	NA
Jun 2021	refirm labs	Microsoft	Networking Systems Software and Services	Developer of a domestic and foreign cyber threat-detecting platform	M&A	NA	NA	NA
Jun 2021	ID <mark></mark> ∳R&D	Mitek	Networking Systems Software and Services	Developer of authentication biometric software for mobile login, chatbots, and virtual assistants	M&A	\$50	NA	NA
Jun 2021	HD((p)) FREQUENCY	SiliconDust	Networking & Communications Equipment	Manufacturer and distributor of television antenna	s M&A	NA	NA	NA
Jun 2021	mws	G RAIN	Networking Systems Software and Services	Provider of logistics services to carriers and telecommunication contractors	M&A	NA	NA	NA
May 2021	<i>и</i> Витр.	Bolstered Equity Group, LLC	Networking & Communications Equipment	Provider of a social networking device enabling near-field communication to exchange contact information	M&A	NA	NA	NA
May 2021	PENTEK	mercury	Networking & Communications Equipment	Provider of recording systems, digital signal processors, and data acquisition and software radio products	M&A	\$65	NA	NA
May 2021	♦ CYBER WURX	AMERICAN TOWER	Data Centers and Colocation	Provider of web hosting and colocation services	M&A	NA	NA	NA
May 2021		sift	Networking Systems Software and Services	Provider of an automated dispute management platform	M&A	NA	NA	NA
May 2021	19 Cell Towers & Related Assets	STRATEGIC  WIRELESS	Networking & Communications Equipment	Owner of cell towers and related assets in the United States	M&A	NA	NA	NA
May 2021	29-Property U.S. Data Center Portfolio	mapletree industrial	Data Centers and Colocation	Owner of data center properties in the United States	M&A	\$1,320	NA	NA
May 2021	LANDMARK	digitalcolony	Core Cloud Infrastructure Technology	Real estate and infrastructure acquisition and development company	M&A	\$972	NA	NA
May 2021		<b>twilio</b>	Networking Systems Software and Services	Developer of a distributed data protection platform	n M&A	NA	NA	NA
May 2021	riskfecus	VESS	Networking Systems Software and Services	Provider of specialist risk solutions and DevOps services for the global capital markets	M&A	NA	NA	NA
May 2021	CloudPassage	Fidelis	Networking Systems Software and Services	Developer of on-demand automated server and cloud workload security platforms for hosting environments and data centers	M&A	NA	NA	NA
May 2021		RTA PROGRAMMENT A PROGRAMMENT	Diversified Communications	Provider of wireless internet services	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
May 2021	Give	Liquid Web"	Networking Systems Software and Services	Provider of WordPress plugins	M&A	NA	NA	NA
May 2021	DSS WHITE PARK MARKS	<b>PROSE</b>	Networking Systems Software and Services	Provider of anti-counterfeit, authentication, and brand protection solutions	M&A	\$5	NA	NA
May 2021	extenet	/// Manulife Investment Management	Core Cloud Infrastructure Technology	Operator of converged communications mobile and fiber infrastructure	M&A	NA	NA	NA
May 2021	TrustComm	OneWeb	Diversified Communications	Provider of managed satellite communications and professional services	d M&A	NA	NA	NA
May 2021	ACCESS *** NETWORKS	WIRERATH	Networking Systems Software and Services	Provider of networking solution services	M&A	\$40	NA	NA
May 2021	MELODY WIRELESS INFRASTRUCTURE	Diamond Sculptor CONTA MENDINEET	Diversified Communications	Operator of wireless cellular sites	M&A	\$1,625	NA	NA
May 2021	€ TACHUS	G RAIN	Diversified Communications	Provider of fiber-optic network and internet services	M&A	NA	NA	NA
May 2021	365	Involta .	Data Centers and Colocation	Operator of data center assets	M&A	NA	NA	NA
May 2021	© Clarus broadband	<b>PAVLO</b> V media	Diversified Communications	Operator of home and commercial broadband services	M&A	NA	NA	NA
May 2021	ītegria	RIA in a Box	Core Cloud Infrastructure Technology	Provider of managed network infrastructure services for RIAs	M&A	NA	NA	NA
May 2021	<b>D\\$42</b>	ME	Networking Systems Software and Services	Provider of data technology implementation and advisory services	Private Placement	NA	NA	NA
May 2021		ALPINE	Networking Systems Software and Services	Provider of integrated OSS, telephony, and IPTV systems for telecommunications companies	Private Placement	NA	NA	NA
May 2021	secucloud.	aryaka	Networking Systems Software and Services	Provider of an all-in-one, global, cloud-based firewall-as-a-service, secure web gateway with advanced threat protection capabilities	M&A	NA	NA	NA
May 2021	aimvest technologies, inc.	Lifeworks	Networking Systems Software and Services	Provider of an asset management platform for financial planners	M&A	NA	NA	NA
May 2021	CounterFlowed	LiveAction <sup>a</sup>	Networking Systems Software and Services	Developer of an Al-backed cybersecurity platform for security operation centers	M&A	NA	NA	NA
May 2021	SCT Broadband	<b>RT</b> ∧₹	Diversified Communications	Provider of residential, commercial, and governmental wireless and fiber internet connection services	M&A	NA	NA	NA
May 2021	<b>☑</b> SiteLock	5ECTIGO	Networking Systems Software and Services	Provider of cloud-based technology and website repair services for online businesses	M&A	NA	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
May 2021	verizon√ media	APOLLO	Unified Communications	Division of Verizon Communications that focuses on media and online business	M&A	\$5,000	NA	NA
May 2021	CLOUDVECTOR	imperva	Networking Systems Software and Services	Developer of an API threat protection platform for cybersecurity	M&A	NA	NA	NA
May 2021	DATA FOUNDRY	switch	Data Centers and Colocation	Provider of wholesale and retail data center outsourcing, colocation, and disaster recovery services	M&A	\$420	3.2x	19.0x
May 2021	Hotwire:	Blackstone	Diversified Communications	Provider of fiber-to-the-home telecommunications and internet services	Private Placement	NA	NA	NA
Apr 2021	sensemetrics	Bentley <sup>e</sup>	Networking Systems Software and Services	Developer of industrial IoT sensor platform solutions	M&A	NA	NA	NA
Apr 2021	NET 2 EDGE	LANTRONIX	Networking & Communications Equipment	Designer, manufacturer, and supplier of fiber networking products	M&A	\$32	NA	NA
Apr 2021	ITDN, Ltd.	VAFTVCOW	Core Cloud Infrastructure Technology	Provider of IT infrastructure solutions for financial services firms	M&A	NA	NA	NA
Apr 2021	The Fusion Network an RT/N® company	RTA	Diversified Communications	Provider of internet access, colocation, and transport services	M&A	NA	NA	NA
Apr 2021	SEGRA	COX.	Core Cloud Infrastructure Technology	Provider of fiber-based bandwidth infrastructure	M&A	NA	NA	NA
Apr 2021	creditbility	credit sesame	Networking Systems Software and Services	Aggregator of consumer financial data for the major credit bureaus	M&A	NA	NA	NA
Apr 2021	EMPIRIX	ınfovista	Networking Systems Software and Services	Provider of network testing, monitoring, and analytics services	M&A	NA	NA	NA
Apr 2021	Strategic Data Center	<b>serverfarm</b>	Data Centers and Colocation	Provider of communications and computing technologies	M&A	NA	NA	NA
Apr 2021	SECURE	hkw'''	Networking & Communications Equipment	Supplier of government and commercial computing and communications solutions	M&A	NA	NA	NA
Apr 2021	AvaLAN	<b>DOVER</b> FUELING SOLUTIONS	Networking & Communications Equipment	Supplier of wireless Ethernet equipment for commercial and retail fueling stations	M&A	NA	NA	NA
Apr 2021	PÜINT	GTCR	Diversified Communications	Provider of residential and commercial fiber-to-the premise high-speed data services	Private Placement	NA	NA	NA
Apr 2021	AXONIX	<b>E</b> modo	Core Cloud Infrastructure Technology	Manufacturer of network multimedia and data storage sharing appliances	M&A	NA	NA	NA
Apr 2021	√CHNGE.	cologix	Data Centers and Colocation	Operator of data center assets	M&A	\$180	NA	NA



Date	Target	Acquirer	Sector	Larnet Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Apr 2021	ensono"	KKR	Core Cloud Infrastructure Technology	Provider of managed IT advisory and infrastructure services	M&A	NA	NA	NA
Apr 2021	K	ARG	Networking & Communications Equipment	Provider of network design, implementation, and maintenance services	M&A	NA	NA	NA
Apr 2021	Sabre Industries	Blackstone	Core Cloud Infrastructure Technology	Manufacturer of infrastructure solutions for utility and wireless industries	M&A	NA	NA	NA
Apr 2021	WANRack PAIVATE FIBER NETWORKS	CBRE	Networking Systems Software and Services	Provider of private fiber optic wide area networking solutions for school districts	M&A	NA	NA	NA
Apr 2021	ORBC@MM	GI PARTNERS	Networking Systems Software and Services	Provider of various IoT solutions	M&A	\$1,149	4.7x	23.2x
Apr 2021	WHINST COVE	RIOT QLOCKCHAIN	Data Centers and Colocation	Operator of cryptocurrency-mining colocation data centers	M&A	\$651	NA	NA
Apr 2021	244928111 89 88 11U	STRIKEFORCE TECHNOLOGIES	Networking Systems Software and Services	Provider of cyber, privacy, and data protection solutions	M&A	NM	NA	NA
Apr 2021	.club, .design, 28 Domain extensions MMX Business Ass	s, & <b>(6) GoDaddy</b> Registry sets	Networking Systems Software and Services	Operator of a domain registry business	M&A	\$120	NA	NA
Apr 2021	(((*))) WINTERS BROADBAND	Cal,net	Networking Systems Software and Services	Provider of residential and commercial fixed wireless internet and connection solutions	M&A	NA	NA	NA
Apr 2021	<b>W</b>	FULLCIRCLE	Networking Systems Software and Services	Provider of communications construction services	Private Placement	NA	NA	NA
Apr 2021	AQUACONNS	<u>optum</u> Tech Hologies	Data Centers and Colocation	Provider of cloud and carrier-neutral data centers	M&A	NA	NA	NA
Apr 2021	<b>9</b> Struxture	D/9	Networking Systems Software and Services	Provider of low-latency, reliable and scalable connectivity to support web-scale providers	M&A	NA	NA	NA
Apr 2021	<b>\$ LS</b> NETWORKS	<sup>†</sup> ≨INSTAR <b>AGF</b>	Networking & Communications Equipment	Operator of a fiber optic network in the Pacific Northwest	M&A	NA	NA	NA
Apr 2021	OFFICE ON LAND & TREMPARADORE 'YEL FRIDME CROPP CARE	<b>∕▲ OAK HILL</b> CAPITAL	Diversified Communications	Provider of telecommunications services	M&A	NA	NA	NA
Apr 2021	6T5	ORBITAL	Unified Communications	Provider of technology services and equipment for cable system operators and equipment manufacturers	M&A	\$48	1.2x	8.7x
Mar 2021	<b>(hax</b> iot	וסום. <b>י</b>	Networking & Communications Equipment	Developer of low power wide area (LPWA) solutions	M&A	NA	NA	NA
Mar 2021	Connected2Fiber	Harbert Management HMC Corporation	Unified Communications	Developer of a marketing automation platform	Private Placement	\$12	NA	NA



Date	Target	Acquirer	Sector	Larner Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Mar 2021	UHP; TWORKS	COMTECH_NN.	Networking Systems Software and Services	Provider of satellite group station technology	M&A	\$38	NA	NA
Mar 2021	CONFLUENCE	*MasTec	Diversified Communications	Developer of undersea fiber-optic communications systems	M&A	NA	NA	NA
Mar 2021	SKYBOX HOUSTON	element critical essential technology facilities	Data Centers and Colocation	Owner and operator of data centers	M&A	NA	NA	NA
Mar 2021	Immedion	DartP⊚ints	Data Centers and Colocation	Operator of a network of data centers	M&A	NA	NA	NA
Mar 2021	KORE.	cerberus	Networking Systems Software and Services	Provider of IoT and CaaS services	IPO/Merger	\$225	NA	NA
Mar 2021	<b>ს</b> ი	zayo	Networking Systems Software and Services	Provider of fiber-based connectivity services	M&A	NA	NA	NA
Mar 2021	Jabber	GTID Ciobal Yech Industria, 670-pp, Inc.	Unified Communications	Provider of VoIP services	M&A	NA	NA	NA
Mar 2021	vocus	MACQUARIE aware	Networking Systems Software and Services	Provider of high-speed telecommunications services	M&A	\$3,418	2.6x	14.2x
Mar 2021	Airspan	d <b>ish</b> ≡SoftBank	Networking Systems Software and Services	Provider of long-term evolution radio access network (LTE RAN) solutions	Private Placement	\$75	NA	NA
Mar 2021	Airspan	New Beginnings Acquisition Corp.	Networking Systems Software and Services	Provider of long-term evolution radio access network (LTE RAN) solutions	M&A	\$682.7	NA	NA
Mar 2021	republic	dåsh	Networking Systems Software and Services	Provider of hybrid WiFi and cellular network services	M&A	NA	NA	NA
Mar 2021	<b>⊘</b> RIFT		Core Cloud Infrastructure Technology	Developer of a network virtualization platform designed to turn physical networks into cloud software	M&A	NA	NA	NA
Mar 2021	CSI CSI	Pineapple	Networking Systems Software and Services	Provider of connectivity infrastructure products and services for deployments of broadband networks worldwide	M&A	NA	NA	NA
Mar 2021	CounterPath	ALIANZA	Unified Communications	Developer of VoIP solutions	M&A	NA	NA	NA
Mar 2021	SUPERNAP	<u>IPİ</u>	Data Centers and Colocation	Operator of a data center designed to provide colocation, power, and connectivity	M&A	NA	NA	NA
Mar 2021	MORRIS BROADBAND	<b>C</b> altice	Networking Systems Software and Services	Operator of internet service and broadband providers	M&A	\$310	NA	23.8x
Mar 2021	boingo	digitalcolony	Networking Systems Software and Services	Provider of wireless connectivity solutions for wireless-enabled consumer devices	M&A	\$845	NA	NA



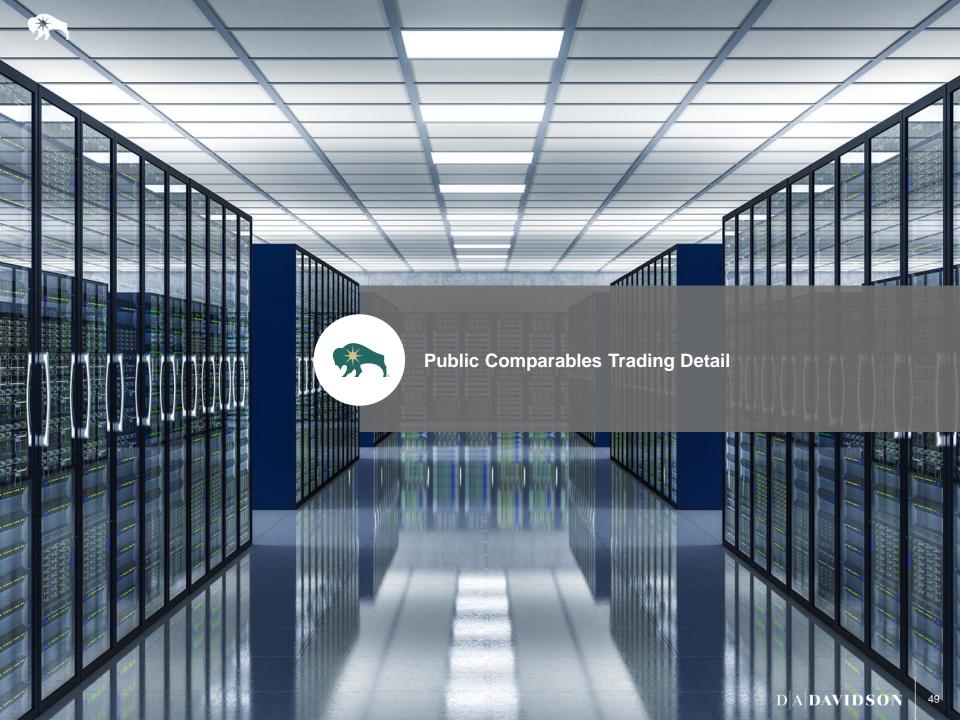
Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Mar 2021	<i><b>ATEK-HUT</b></i>	ednetics	Core Cloud Infrastructure Technology	Provider of infrastructure technology services	M&A	NA	NA	NA
Feb 2021	PINNACLE S O L U T I O N S An Employee Owned Company	Dobson	Diversified Communications	Provider of high-speed fiber business	M&A	NA	NA	NA
Feb 2021	videns	∴ expero	Networking Systems Software and Services	Provider of global next-generation SD-WAN networking services and application aware network services	k M&A	NA	NA	NA
Feb 2021	intellquent	sinch	Diversified Communications	Provider of voice telecommunications services on a wholesale basis	M&A	\$1,140	NA	8.4x
Feb 2021	DTC	<b></b> CODAN	Networking & Communications Equipment	Developer of communication equipment and wireless broadcast solutions	M&A	\$104	NA	NA
Feb 2021	# HARGRAY	Cable One	Diversified Communications	Provider of telecommunications services	M&A	\$2,200	NA	17.2x
Feb 2021	CHAMPION ONE	<b>Li legrand</b> "	Networking Systems Software and Services	Provider of optical networking components and solutions	M&A	NA	NA	NA
Feb 2021	FLAGSHIP	-Data Storage	Diversified Communications	Provider of IBM solutions, managed services, and cloud solutions	M&A	\$11	NA	10.5x
Feb 2021	bics	pro%imus	Diversified Communications	Provider of telecommunications services	M&A	\$680	NA	NA
Feb 2021	∴ expero	VITRUVIAN	Networking & Communications Equipment	Provider of managed internet, cloud access, and SD-WAN solutions	M&A	NA	NA	NA
Feb 2021	triangle	verizon <sup>/</sup>	Networking & Communications Equipment	LTE in Rural America (LRA) assets of Triangle Mobile comprises cellular services business	M&A	NA	NA	NA
Feb 2021	ÂIS	EXTLINK INTERNET MADE SALY	Networking & Communications Equipment	Provider of high-speed fiber backed wireless internet services	M&A	NA	NA	NA
Feb 2021	OMNISPACE	FORTRESS	Unified Communications	Operator of a non-geostationary satellite infrastructure designed for mobile connectivity	Private Placement	\$60	NA	NA
Feb 2021	BLUESKY	Peppertree Capital	Networking Systems Software and Services	Operator of wireless infrastructure solutions	Private Placement	\$320	NA	NA
Feb 2021	verticalbridge	dåsh	Data Centers and Colocation	Operator of communications infrastructure	Other	NA	NA	NA
Feb 2021	CLOUDNEXA	GLOBAL	Core Cloud Infrastructure Technology	Provider of cloud managed services	M&A	NA	NA	NA
Feb 2021	Star 2 Star	SANG⊛MA	Unified Communications	Provider of cloud-based voice and unified communications solutions	M&A	\$437	5.5x	29.8x



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Jan 2021	THRIVE:	\$80%	Diversified Communications	Provider of corporate IT and managed services	Private Placement	NA	NA	NA
Jan 2021	52 DIGITALWEST	wave	Networking Systems Software and Services	Provider of internet, data, and cloud services	M&A	NA	NA	NA
Jan 2021	GIGGES SKY	Cis year Depose in	Networking Systems Software and Services	Provider of wireless data solutions	M&A	NA	NA	NA
Jan 2021	Optelian		Diversified Communications	Manufacturer of optical transport systems	M&A	\$5	NA	NA
Jan 2021	atmosera.	of DIGITALFORTRESS	Data Centers and Colocation	Provider of enterprise-grade, managed private, public, and hybrid clouds, colocation, and advanced services	M&A	NA	NA	NA
Jan 2021	primus	DISTRIBUTEL	Networking Systems Software and Services	Provider of VoIP solutions, internet and network services, voice services, and cloud-based phone systems (Hosted PBX)	M&A	NA	NA	NA
Jan 2021	VB FIBER	POINT BROADBAND	Networking Systems Software and Services	Provider of fiber-to-the-home and fiber-fixed wireless Internet services to residential and business customers	M&A	NA	NA	NA
Jan 2021	taos'	IIM	Core Cloud Infrastructure Technology	Provider of information technology multi-cloud consulting and management services	M&A	NA	NA	NA
Jan 2021	- mistnet	::"LogRhythm	Diversified Communications	Developer of multi-entity threat detection and response platform	M&A	NA	NA	NA
Jan 2021	((( <u>SkyWave</u> )))	NEXTLINK INTERNAL HARV	Networking Systems Software and Services	Provider of broadband internet services	M&A	NA	NA	NA
Jan 2021	# <sub>easynet</sub>	*WISPER*	Networking Systems Software and Services	Provider of broadband internet services	M&A	NA	NA	NA
Jan 2021	NimbeLink*	Airgain ))	Diversified Communications	Developer of cellular based solutions that include carrier-certified embedded modems and asset tracking solutions	M&A	\$23	NA	NA
Jan 2021	<b>≣</b> N-com	(SI)	Diversified Communications	A full-service engineering and outside plan firm servicing rural communications providers	M&A	NA	NA	NA
Jan 2021	bandwave	BULLSEYE O	Networking Systems Software and Services	Provider of telecommunications services	M&A	NA	NA	NA
Jan 2021	CeleHub	BLUEPKO	Data Centers and Colocation	A client-focused data center facility	M&A	NA	NA	NA
Jan 2021	<b>S</b> LincLogix	bcm one	Unified Communications	Provider of enterprise networking, data center and cloud design, unified communications as a service (UCaaS), and contact center solutions		NA	NA	NA
Jan 2021	whitesky	REALPAGE	Networking Systems Software and Services	Provider of voice, video, and cable television services	M&A	\$59	NA	NA



Date	Target	Acquirer	Sector	Target Description	Transaction Type	Implied EV (\$M)	EV/Revenue	EV/EBITDA
Jan 2021	Trace, LLC	CRESTONE SERVICES DROUP	Networking Systems Software and Services	Operator of a telecom infrastructure provider that builds wireless network	M&A	NA	NA	NA
Jan 2021	🍣 3-GIS	SSP.	Core Cloud Infrastructure Technology	Provider of fiber network management software	M&A	NA	NA	NA
Jan 2021	TPX.	GEOLINKS	Unified Communications	Provider of unified communications, managed information technology services, and continuity and connectivity services	M&A	NA	NA	NA
Jan 2021	BROOKINGS municipal utilities	T - Mobile	Data Centers and Colocation	Operator of cell sites and provider of wireless and data services	M&A	NA	NA	NA
Jan 2021	Pittock Block Building	fifteenfortyseven CRITICAL SYSTEMS REALTY HARRISON STREET	Data Centers and Colocation	A vital carrier hotel, colocation data center, and office building	M&A	\$330	NA	NA





## **Public Company Trading Details**

(USD in millions, except per share data)		Capita	alization	Share Price Performance			Price / Ea	rnings	EV / Rev	/enue	EV / E	BITDA	Reve	nue	Revenue	Growth	Gross	Margin	EBITDA	Margin	
Company	Share Price	Equity Value	Enterprise Value	YTD	2 Year	3 Year	5 Year	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E
Core Cloud Infrastructure Technology																					
A10 Networks, Inc. (ATEN)	\$16.58	\$1,286	\$1,123	68.2%	141.3%	165.7%	99.5%	27.2x	23.0x	4.5x	4.2x	17.8x	15.4x	\$248	\$269	10.1%	8.2%	78.8%	79.0%	25.5%	27.29
Arista Networks, Inc. (ANET)	143.75	44,172	40,847	97.9%	182.7%	172.9%	494.2%	NM	NM	14.0x	10.8x	NM	28.3x	2,913	3,767	25.7%	29.3%	64.7%	64.1%	39.7%	38.39
Extreme Networks, Inc. (EXTR)	15.70	2,039	2,219	127.9%	113.0%	157.4%	212.1%	24.5x	19.3x	2.1x	1.9x	14.2x	14.0x	1,039	1,161	15.1%	11.7%	NA	NA	15.0%	13.69
F5, Inc. (FFIV)	244.71	14,983	14,788	39.1%	75.2%	51.0%	69.1%	23.6x	20.3x	5.6x	5.1x	15.6x	13.8x	2,618	2,881	8.8%	10.0%	NA	NA	36.1%	37.39
NetApp, Inc. (NTAP)	91.99	20,447	18,798	38.9%	47.8%	54.2%	160.8%	20.2x	17.2x	3.1x	2.9x	11.8x	10.8x	6,070	6,593	8.6%	8.6%	NA	NA	26.3%	26.5
NetScout Systems, Inc. (NTCT)	33.08	2,444	2,386	20.6%	37.4%	40.0%	5.0%	20.3x	18.0x	2.8x	2.7x	NA	NA	839	869	(0.9%)	3.5%	NA	NA	NA	N
Radware Ltd. (RDWR)	41.64	1,915	1,584	50.1%	61.5%	83.4%	185.6%	NM	NM	5.6x	5.1x	NM	29.8x	285	309	14.0%	8.4%	82.5%	82.8%	17.0%	17.2
Ribbon Communications Inc. (RBBN)	6.05	899	1,254	(7.8%)	95.2%	25.5%	(4.0%)	13.2x	10.8x	1.4x	1.4x	8.8x	8.0x	865	909	2.6%	5.0%	58.5%	58.1%	16.5%	17.2
Super Micro Computer, Inc. (SMCI)	43.95	2,245	2,278	38.8%	83.0%	218.5%	56.7%	18.1x	12.1x	0.6x	0.5x	11.7x	7.8x	3,954	4,552	21.3%	15.1%	NA	NA	4.9%	6.49
Median				39.1%	83.0%	83.4%	99.5%	20.3x	18.0x	3.1x	2.9x	13.0x	13.9x	\$1,039	\$1,161	10%	9%	72%	72%	21%	22
Networking Systems Software and Services																					
Akamai Technologies, Inc. (AKAM)	\$117.04	\$19,017	\$19,110	11.5%	35.5%	91.6%	75.5%	20.6x	19.8x	5.5x	5.1x	12.3x	11.7x	\$3,455	\$3,755	8.0%	8.7%	63.8%	64.7%	44.9%	43.49
Brightcove Inc. (BCOV)	10.22	420	381	(44.5%)	17.6%	45.2%	27.0%	30.1x	29.2x	1.8x	1.8x	18.0x	17.5x	210	216	6.4%	3.1%	66.0%	66.1%	10.1%	10.19
Check Point Software Technologies Ltd. (CHF	116.56	15.479	11.673	(12.3%)	5.0%	13.6%	38.0%	16.8x	15.8x	5.4x	5.2x	11.0x	10.8x	2.154	2.228	4.3%	3.4%	89.0%	89.3%	49.3%	48.3
Citrix Systems, Inc. (CTXS)	94.59	11,798	14,857	(27.3%)	(14.7%)	(7.7%)	5.9%	19.2x	18.6x	4.6x	4.5x	13.8x	14.3x	3,196	3,312	(1.2%)	3.6%	83.2%	82.6%	33.7%	31.4
Cloudflare, Inc. (NET)	131.50	42,310	41,744	73.0%	670.8%	NA	NA	NM	NM	64.5x	47.0x	NM	NM	647	889	50.2%	37.2%	78.4%	78.1%	8.8%	10.5
Fastly, Inc. (FSLY)	35.45	4,165	4,142	(59.4%)	76.6%	NA	NA	NM	NM	11.9x	10.0x	NM	NM	349	416	19.8%	19.4%	57.7%	58.2%	(10.1%)	(6.4
Fortinet, Inc. (FTNT)	359.40	58,762	56,729	142.0%	236.6%	410.3%	1093.2%	NM	NM	17.0x	14.3x	NM	NM	3,339	3,967	28.7%	18.8%	77.0%	77.4%	28.4%	27.8
Limelight Networks, Inc. (LLNW)	3.43	459	517	(14.0%)	(15.9%)	46.6%	36.1%	NM	NM	2.4x	2.2x	NM	19.4x	216	240	(6.2%)	11.1%	31.7%	36.0%	5.8%	11.1
Palo Alto Networks, Inc. (PANW)	556.76	54,934	55,444	56.7%	140.8%	195.6%	345.2%	NM	NM	11.8x	9.3x	NM	NM	4,710	5,944	24.5%	26.2%	NA	NA	23.8%	22.9
VMware, Inc. (VMW)	115.88	48,712	47,909	(17.4%)	(23.7%)	(15.5%)	47.2%	16.1x	16.1x	3.7x	3.5x	10.0x	9.6x	12,832	13,848	9.1%	7.9%	85.1%	85.2%	37.5%	36.2
Median				(13.2%)	26.6%	45.9%	42.6%	19.2x	18.6x	5.5x	5.2x	12.3x	13.0x	\$2,675	\$2,770	9%	10%	77%	77%	26%	25
Networking & Communications Equipment																					
ADTRAN, Inc. (ADTN)	\$22.83	\$1,121	\$1.031	54.6%	130.8%	112.6%	2.1%	NM	29.6x	1.9x	1.6x	NM	24.9x	\$550	\$626	8.6%	13.7%	40.0%	41.4%	2.3%	6.69
Amphenol Corporation (APH)	87.46	52.304	56,313	33.8%	61.6%	115.9%	160.3%	NM	32.8x	5.3x	5.0x	22.6x	20.7x	10,599	11,181	23.3%	5.5%	31.5%	31.9%	23.5%	24.39
Avaya Holdings Corp. (AVYA)	19.80	1,665	4,349	3.4%	46.7%	36.0%	NA	6.9x	6.2x	1.5x	1.4x	6.2x	6.1x	2,924	3,035	0.8%	3.8%	NA	NA	23.8%	23.69
Aviat Networks, Inc. (AVNW)	32.08	359	315	87.9%	356.7%	384.2%	363.9%	17.0x	12.9x	1.2x	1.1x	9.2x	8.3x	271	296	3.8%	9.4%	NA	NA	12.7%	12.89
Belden Inc. (BDC)	65.73	2,951	4,056	56.9%	19.5%	57.4%	(12.1%)	13.9x	13.0x	1.7x	1.6x	10.7x	10.2x	2,396	2,469	28.6%	3.1%	35.8%	36.3%	15.8%	16.19
Broadcom Inc. (AVGO)	665.41	274,730	302,867	52.0%	110.6%	161.7%	276.4%	22.8x	19.6x	10.7x	9.7x	17.6x	16.0x	28,201	31,189	14.2%	10.6%	NA	NA	61.0%	60.79
Calix, Inc. (CALX)	79.97	5,099	4,925	168.7%	899.6%	720.2%	938.6%	NM	NM	7.3x	6.7x	NM	NM	676	738	25.0%	9.2%	52.2%	52.6%	16.1%	13.89
Cambium Networks Corporation (CMBM)	25.63	683	660	2.2%	193.2%	NA	NA	20.7x	20.7x	2.0x	1.9x	12.6x	11.8x	333	349	19.6%	4.8%	48.7%	48.5%	15.7%	16.09
Casa Systems, Inc. (CASA)	5.67	488	614	(8.1%)	38.6%	(56.8%)	NA	NM	17.4x	1.5x	1.4x	12.2x	8.5x	400	434	1.7%	8.5%	48.5%	50.5%	12.5%	16.6
Ciena Corporation (CIEN)	76.97	11,921	11,067	45.6%	80.3%	127.0%	215.3%	29.1x	23.7x	3.0x	2.7x	15.7x	14.6x	3,711	4,158	7.4%	12.1%	NA	NA	19.0%	18.2
Cisco Systems, Inc. (CSCO)	63.37	267,270	254,607	41.6%	32.1%	46.2%	109.7%	19.5x	17.7x	5.0x	4.7x	13.3x	12.8x	51,224	54,216	6.7%	5.8%	NA	NA	37.3%	36.8
Clearfield, Inc. (CLFD)	84.42	1,159	1,138	241.5%	505.6%	751.0%	307.8%	NM	NA	8.3x	8.1x	NM	NM	138	141	36.6%	2.3%	NA	NA	24.1%	26.2
CommScope Holding Company, Inc. (COMM)	11.04	2,258	12,580	(17.6%)	(22.2%)	(32.6%)	(70.3%)	8.8x	6.7x	1.5x	1.4x	11.5x	10.5x	8,430	8,680	(0.1%)	3.0%	31.8%	32.0%	13.0%	13.8
Corning Incorporated (GLW)	37.23	31,772	37,561	3.4%	27.9%	23.2%	53.4%	18.1x	16.1x	2.7x	2.6x	9.5x	8.8x	14,008	14,710	23.9%	5.0%	37.4%	38.2%	28.2%	29.09
Hewlett Packard Enterprise Company (HPE)	15.77	20,398	31,909	33.1%	(0.6%)	19.4%	(31.8%)	8.9x	7.5x	1.1x	1.1x	6.0x	5.6x	27,924	28,787	3.9%	3.1%	NA	NA	19.1%	19.8
Huber+Suhner AG (HUBN)	95.44	1,858	1,639	20.9%	20.3%	43.4%	71.6%	24.4x	23.6x	1.9x	1.8x	12.1x	11.4x	850	910	1.9%	7.1%	36.4%	36.5%	15.9%	15.8
Infinera Corporation (INFN)	9.59	2,021	2,372	(8.5%)	20.8%	140.4%	13.0%	NM	NM	1.7x	1.5x	23.9x	15.3x	1,413	1,544	4.3%	9.2%	37.6%	40.5%	7.0%	10.1
Juniper Networks, Inc. (JNPR)	35.71	11,612	12,117	58.6%	45.0%	32.7%	26.4%	20.9x	18.4x	2.6x	2.5x	12.5x	11.7x	4,701	4,941	5.8%	5.1%	59.5%	59.8%	20.6%	21.0
Legrand SA (LR)	117.02	31,216	34,017	31.2%	43.6%	107.3%	105.5%	32.8x	30.5x	4.9x	4.5x	18.2x	17.2x	6,931	7,483	(7.1%)	8.0%	51.1%	51.5%	27.0%	26.4
Lumentum Holdings Inc. (LITE)	105.77	7,647	7,028	11.6%	33.4%	151.8%	173.7%	19.1x	16.6x	4.1x	3.8x	11.7x	10.8x	1,699	1,840	(0.2%)	8.3%	NA	NA	35.4%	35.3
Methode Electronics, Inc. (MEI)	49.17	1,833	1,901	28.4%	25.0%	111.1%	18.9%	17.1x	14.4x	1.7x	1.6x	NA	NA	1,135	1,207	13.7%	6.4%	NA	NA	NA	N
Motorola Solutions, Inc. (MSI)	271.70	45,889	50,390	59.8%	68.6%	136.2%	227.8%	30.1x	27.4x	6.2x	5.8x	21.1x	19.2x	8,177	8,748	10.3%	7.0%	49.4%	50.4%	29.2%	30.0
NeoPhotonics Corporation (NPTN)	15.37	816	770	69.1%	74.3%	137.2%	42.2%	NM	NM	2.5x	2.0x	NM	18.5x	305	388	(17.9%)	27.3%	26.4%	31.0%	3.7%	10.7
NETGEAR, Inc. (NTGR)	29.21	855	592	(28.1%)	19.2%	(43.9%)	(46.3%)	12.7x	18.5x	0.5x	0.5x	NA	NA	1,176	1,099	(6.3%)	(6.5%)	31.3%	29.4%	NA	N
Nokia Corporation (NOKIA)	6.34	35,794	31,873	64.7%	71.4%	10.1%	30.9%	18.6x	18.1x	1.4x	1.4x	8.4x	8.0x	22,323	22,941	(16.5%)	2.8%	40.5%	40.9%	16.9%	17.4
Telefonaktiebolaget LM Ericsson (publ) (ERIC	11.04	36,759	34,378	(7.0%)	26.4%	25.9%	87.2%	1.8x	1.5x	0.1x	0.1x	8.2x	7.4x	229,545	240,947	711.2%	5.0%	42.9%	42.9%	1.8%	1.99
Median				33.4%	44.3%	107.3%	71.6%	18.6x	17.9x	2.0x	1.8x	12.2x	11.5x	\$2,660	\$2,752	6%	6%	40%	41%	18%	18



## **Public Company Trading Details, Cont'd**

(USD in millions, except per share data)	Capitalization		alization	zation Share Price Performance			Price / Earnings EV / Revenue		venue	EV / EBITDA Reve			Revenue Revenue		Revenue Growth Gross Margin		Margin	EBITDA Margin			
Company	Share Price	Equity Value	Enterprise Value	YTD	2 Year	3 Year	5 Year	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022E	2021E	2022
Unified Communications																					
8x8, Inc. (EGHT)	\$16.76	\$1,915	\$2,176	(51.4%)	(8.4%)	(7.1%)	17.2%	NM	NM	3.7x	3.2x	NM	NM	\$585	\$682	14.9%	16.6%	NA	NA	3.1%	5.0
Bandwidth Inc. (BAND)	71.76	1,804	1,980	(53.3%)	12.0%	76.1%	NA	NM	NM	4.1x	3.5x	NM	NM	483	569	40.8%	17.7%	48.4%	48.9%	10.0%	9.
Five9, Inc. (FIVN)	137.32	9,344	9,548	(21.3%)	109.4%	214.1%	867.7%	NM	NM	15.9x	12.8x	NM	NM	601	745	38.2%	24.0%	63.2%	63.1%	17.7%	15
Ooma, Inc. (OOMA)	20.44	486	470	41.9%	54.5%	47.3%	127.1%	NM	NM	2.5x	2.2x	NM	NM	192	209	13.5%	9.0%	61.7%	64.2%	7.7%	7
RingCentral, Inc. (RNG)	187.35	17,507	18,595	(50.6%)	11.1%	127.3%	809.5%	NM	NM	11.8x	9.5x	NM	NM	1,580	1,963	33.5%	24.2%	77.6%	77.8%	13.9%	13
Twilio Inc. (TWLO)	263.34	46,961	42,857	(22.2%)	167.9%	194.9%	812.8%	NM	NM	15.5x	11.7x	NM	NM	2,765	3,651	57.0%	32.0%	53.9%	54.3%	9.0%	8
Vonage Holdings Corp. (VG)	20.79	5,253	5,701	61.5%	180.6%	138.1%	203.5%	NM	NM	4.1x	3.7x	29.0x	27.0x	1,405	1,561	18.5%	11.1%	51.4%	50.3%	14.0%	13
Ziff Davis, Inc. (ZD)	110.86	5,346	6,594	13.5%	18.3%	59.8%	35.5%	15.4x	15.4x	4.8x	4.3x	13.5x	12.2x	1,382	1,543	(7.2%)	11.7%	85.2%	85.2%	35.3%	35
Zoom Video Communications, Inc. (ZM)	183.91	54,804	49,484	(45.5%)	170.3%	NA	NA	NM	NM	12.1x	10.4x	NM	27.7x	4,081	4,768	53.9%	16.9%	75.0%	75.0%	40.4%	37
Median		- 1,001	,	(22.2%)	54.5%	101.7%	203.5%	15.4x	15.4x	4.8x	4.3x	21.2x	27.0x	\$1,382	\$1,543	34%	17%	62%	64%	14%	
Diversified Communications																					_
Altice USA, Inc. (ATUS)	\$16.18	\$7,356	\$34,293	(57.3%)	(40.8%)	(2.1%)	NA	9.3x	9.3x	3.4x	NA	7.7x	8.0x	\$10,091	\$9,980	2.0%	(1.1%)	66.5%	66.2%	44.0%	42
AT&T Inc. (T)	24.60	175,669	381,402	(14.5%)	(37.1%)	(13.8%)	(42.2%)	7.7x	7.7x	2.3x	2.4x	7.7x	7.4x	168,359	157,846	(2.0%)	(6.2%)	57.1%	58.2%	30.9%	32
ATN International, Inc. (ATNI)	39.95	623	1,181	(4.3%)	(27.9%)	(44.1%)	(50%)	NM	NM	2.0x	1.6x	9.2x	6.9x	600	738	31.8%	22.9%	NA	NA	21.4%	23
	1,763.45	10,661	14,164	(20.8%)	18.5%	115.0%	184%	NM	NM	8.8x	7.9x	16.8x	14.9x	1,606	1,783	21.2%	11.0%	72.1%	73.0%	52.4%	53
Charter Communications, Inc. (CHTR)	651.97	116,892	210,778	(1.4%)	34.4%	128.8%	126%	21.1x	21.1x	4.1x	3.9x	10.3x	9.6x	51,756	54,336	7.6%	5.0%	61.9%	61.7%	39.6%	41
Cogent Communications Holdings, Inc. (CCC		3,382	4,296	22.2%	11.2%	61.9%	77%	NM	NM	7.3x	7.0x	18.7x	17.5x	592	618	7.0%	4.3%	62.1%	62.8%	38.8%	3
Comcast Corporation (CMCS.A)	50.33	229,954	322,578	(4.0%)	11.9%	47.8%	46%	13.5x	13.5x	2.8x	2.6x	9.3x	8.4x	115,663	122,332	11.7%	5.8%	63.2%	64.6%	29.9%	3
Consolidated Communications Holdings, Inc.	7.48	852	2,744	53.0%	92.8%	(24.3%)	(72%)	27.7x	27.7x	2.1x	2.2x	5.4x	5.8x	1,280	1,234	(1.8%)	(3.7%)	55.5%	56.8%	39.4%	3
Lumen Technologies, Inc. (LUMN)	12.55	12.850	42,365	28.7%	(5.0%)	(17.2%)	(47%)	8.1x	8.1x	2.1x		5.0x	5.5x	19.707	18.467	(4.9%)	(6.3%)	56.8%	56.2%	42.8%	4
T-Mobile US, Inc. (TMUS)	115.98	144.865	248.489	(14.0%)	47.9%	82.3%	102%	NM	NM	3.1x	3.0x	9.2x	8.8x	80.340	82.360	17.5%	2.5%	55.2%	54.7%	33.6%	34
Verizon Communications Inc. (VZ)	51.96	218,116	388,393	(11.6%)	(15.4%)	(7.6%)	(3%)	9.6x	9.6x	2.9x	2.9x	8.0x	7.9x	133,432	132,076	4.0%	(1.0%)	58.2%	59.1%	36.2%	37
Vodafone Group Public Limited Company (VC	1.52	41,318	112,910	(8.1%)	(21.8%)	(22.0%)	(38%)	13.2x	13.2x	2.5x	2.5x	6.7x	6.4x	44,565	45,835	(17.5%)	2.9%	NA	NA	37.8%	38
Median	1.02	41,510	112,510	(6.2%)	3.1%	(4.8%)		11.4x	11.4x	2.8x	2.6x	8.6x	8.0x	\$32,136	\$32,151	6%	3%	60%	60%	38%	30
Data Centers and Colocation						, ,															_
American Tower Corporation (AMT)	\$202.50	\$133,209	\$176,351	30.3%	27.3%	84.9%	176.8%	NM	NM	18.9x	17.7x	29.5x	27.5x	\$9.324	\$9.981	16.0%	7.0%	71.5%	71.4%	64.1%	64
Crown Castle International Corp. (CCI)	208.74	90,218	116,571	31.1%	46.8%	92.2%	140.6%	NM	NM	18.5x	17.7x	NM	28.7x	6.315	6.627	8.1%	5.0%	68.7%	69.0%	60.2%	61
Crown Castle International Corp. (CCI)  Cyrus One Inc. (CONE)	89.72	11,624	15,050	22.7%	37.1%	69.7%	101%	NM	NM	12.6x	17.6x	25.7x	28.7x 23.5x	1.193	1,260	15.4%	5.6%	56.7%	58.5%	49.1%	50
	12.61	2,093	-,		37.1% NA	09.7% NA	NA	NM	NM	5.5x		25.7x 17.1x	23.5x 16.9x	701	736	1.5%	4.9%	44.7%	47.0%	32.3%	31
Cyxtera Technologies, Inc. (CYXT)	176.87	50,193	3,876 66.973	21.7% 26.8%	47.7%	66.0%	80%	NM	NM	15.1x	5.3x 14.2x	27.8x	26.6x	4.423	4.703	15.0%	6.3%	60.0%	59.4%	54.5%	53
Digital Realty Trust, Inc. (DLR)	845.84	76,160	89.843	18.4%	44.9%	139.9%	136.7%	NM	NM	13.6x	14.2x	27.8x 28.7x	26.6x	6,626	7,172	11.1%	8.2%	66.6%	66.7%	47.3%	47
Equinix, Inc. (EQIX)		-,	,									Z6.7X NM		2,304	,		5.5%				
SBA Communications Corporation (SBAC) Switch, Inc. (SWCH)	389.02 28.64	42,318 4,115	56,244 6,025	37.9% 75.0%	61.4% 93.3%	140.3% 309.1%	277% NA	NM NM	NM NM	24.4x 10.2x	23.1x 8.9x	19.5x	NM 17.2x	593	2,432 676	10.6% 15.9%	14.1%	76.3% 43.1%	76.6% 44.4%	69.7% 52.2%	70 51
Median	20.04	4,115	0,025	28.5%	46.8%	92.2%	138.6%	NA	NA	14.4x	13.4x	26.8x	26.6x	\$3,364	\$3,567	13.9%	6%	63%	63%	53%	3
Communications Technology Distributors																					_
Arrow Electronics, Inc. (ARW)	\$134.27	\$9,349	\$11,586	38.0%	58.4%	94.7%	88.3%	8.3x	8.3x	0.3x	0.3x	6.8x	6.4x	\$34,338	\$35,645	19.8%	3.8%	12.0%	12.2%	5.0%	5
Avnet, Inc. (AVT)	41.23	4.096	5.474	17.4%	(2.9%)	14.2%	(13.4%)	8.6x	8.6x	0.3x	0.3x	8.0x	6.8x	20,443	22,423	14.5%	9.7%	NA	NA	3.4%	
CDW Corporation (CDW)	204.78	27.793	32.114	55.4%	43.4%	152.7%	293.1%	24.1x	24.1x	1.6x	1.5x	18.7x	17.4x	20,369	21.775	10.3%	6.9%	17.1%	17.8%	8.5%	8
Computacenter plc (CCC)	39.40	4,459	4,503	17.7%	67.8%	207.3%	298.9%	26.0x	26.0x	0.7x	0.7x	10.0x	9.8x	6,521	6,810	(12.2%)	4.4%	13.3%	13.4%	6.9%	
Datatec Limited (DTC)	2.41	523	721	44.1%	1.7%	26.8%	(33.1%)	10.4x	10.4x	0.7x	0.7x	NA	3.9x	4,450	4,696	10.3%	5.5%	NA	NA	NA	-
Plus inc. (PLUS)	53.88	1,456	1,623	22.5%	27.8%	51.4%	87.1%	13.7x	13.7x	1.0x	0.9x	10.2x	10.8x	1,689	1.775	6.7%	5.1%	NA	NA	9.4%	8
nsight Enterprises, Inc. (NSIT)	106.60	3,719	4,542	40.1%	51.7%	161.6%	163.6%	13.8x	13.8x	0.5x	0.5x	11.5x	10.4x	9,329	9,790	11.9%	4.9%	15.4%	15.5%	4.2%	
PC Connection, Inc. (CNXN)	43.13	1,130	1,052	(8.8%)	(13.1%)	45.1%	53.5%	14.8x	14.8x	0.4x	0.4x	10.4x	9.4x	2.852	2,974	10.1%	4.3%	16.1%	16.3%	3.5%	
Rexel S.A. (RXL)	20.28	6.182	9.092	28.7%	52.5%	90.4%	22.9%	11.7x	11.7x	0.4x	0.4x	7.1x	6.7x	14,363	15,409	(6.8%)	7.3%	25.3%	25.2%	8.9%	
Synnex Technology International Corporation	2.39	3,984	5,177	42.7%	90.6%	100.9%	138.2%	0.4x	0.4x	0.0x	0.0x	14.9x	13.2x	387,357	415,392	3156.1%	7.2%	4.4%	4.5%	0.1%	
TESSCO Technologies Incorporated (TESS)	6.31	57	110	1.1%	(43.8%)	(47.4%)	(51.5%)	NM	NM	0.0x 0.3x	0.0x	NM	NM	412	415,392	(21.0%)	7.2%	4.4% NA	4.5% NA	(0.5%)	
WESCO International, Inc. (WCC)	131.59	6,633	11.382	67.6%	121.6%	174.1%	97.7%	12.3x	12.3x	0.5x	0.2x 0.6x	9.8x	8.9x	18,020	18,857	46.2%	4.6%	20.9%	21.1%	6.5%	(
· · · · · ·	131.39	0,033	11,302																		,
Median				33.4%	47.5%	92.6%	87.7%	12.3x	12.3x	0.4x	0.4x	10.1x	9.4x	\$9,329	\$9,790	10%	5%	16%	16%	5%	





D.A. Davidson's Technology Practice

200+
M&A TRANSACTIONS

\$20B+

RAISED IN PUBLIC OFFERINGS SINCE 2019 **27** 

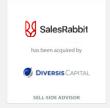
COUNTRIES WHERE TRANSACTIONS HAVE TAKEN PLACE 39

INVESTMENT BANKERS

16

TECHNOLOGY RESEARCH PROFESSIONALS COVERING 150+ STOCKS TECHNOLOGY-FOCUSED
EQUITY CAPITAL
MARKETS PROFESSIONALS

#### SELECTED D.A. DAVIDSON TRANSACTIONS





























#### EIGHT SECTORS OF COMBINED FOCUS



















## **Deep Expertise Across Eight Technology Verticals**

D.A. Davidson's industry knowledge spans across the entire technology industry with transactional experience over a wide range of verticals

D.A. Davidson's technology practice brings deep sector knowledge, transactional expertise, and full service capabilities across eight key technology verticals; with 200+ completed transactions, 170+ years of combined experience, and 150+ public technology companies under research coverage

	Sales & Marketing Solutions	Expense & Procurement	(4) CONFLUENT	** Dropbox	MobiChord	O		
Application	• ERP	Content Management	has completed an initial public offering of common stock.	has completed a public effering of serior convertible notes	a venture portrible company of SERVICENOW.  Passecreted an insettment from	As received senior	ONINJACAT  has received a growth equity  towntrant from	PEGA  has completed a public offering of convertible notes
Software	Human Capital     Callabaration	BI /Analytics	othering of common stock. \$828,000,000	of senior convertible notes \$1,306,000,000	PERISCOPE	secund financing from	Sheetnart born	of convertible notes \$600,000,000
	Collaboration		CO-MANAGER	CO-MANAGER	SELL SIDE ADVISOR	FINANCIAL ADVISOR	FRANCIAL ACVISOR	CO-MANAGER
	<ul><li>Application Monitoring</li><li>Data Warehouse</li></ul>	IT Management     Security	Ui Path	<b></b> ••Telos	WVARONIS	<b>₹</b> Telos	**snowflake	fastly
Infrastructure	Provisioning / Deployment	<ul><li>Security</li><li>Robotic Process</li></ul>	has completed an initial public offering of common stock	has completed a follow-on offering of common stock	has completed a follow-on offering of common stock	has completed an initial public offering of common stock	The completed minit of public offerns of common state	has completed a follow-o
Software	Machine Learning	Automation	\$1,538,506,008	\$300,000,000	\$517,500,000	5292,641,179	53,864,099,800	\$286,350,000
		<ul> <li>Internet of Things</li> </ul>	CO-MANAGER	CO-MANAGER	CO-MANAGER	CO-MANAGER	TO MANAGER	CO-MANAGER
	Construction	Real Estate & Travel	COLUMNOVA			PLANET DDS	ADI	ıPAN
Vertical Software	Government     Usethears IT	Telematics     Agricultura	Coursera	SafeSend	SOFT-PAK	PLANET DDS	ARI	Antarrano - Assessant - Assess
vertical Software	Healthcare IT     Education	Agriculture	has completed an initial public offering of common stock.  \$596,337,000	<b>♠ LEAD</b> EDGE	Controvered Solutions Crossp a solutions of	LEVEL EQUITY		IBM
	• Energy		CO-MANAGER	FINANCIAL ADVISOR	SELL-SIDE ADVISOR	FIMENCIAL ADVISOR	TRUE WIND	SELE-S DE ADVISOR
	Banking	Insurance	ARCHER	MARLINGEGUITY	OptionMetrics	<b>▼</b> Cteinstancage	OpenLending	<b>*</b>
Financial	Investment	Crypto / Blockchain	a portfolio company of KNEWSPRING	has made significant equity investments into <b>EXEGY</b>	has received a significant equity	has agreed to be acquired by  MAJESCO		Duck Creek Technologies has completed a follow-o
Technology	Financing / Lending	<ul> <li>Payments</li> </ul>	has received a minority equity investment from	and VELA (Q)	LEEDS Equity Partners	а рогбойо сатрату об техниция	has completed a follow on affering of secondary common stock: \$305,900,000	has completed a follow- offering of secondary come stock \$377,200,000
			FINANCIAL ADVISOR	FINANCIAL ADVISOR	FINANCIAL ADVISOR	THORNORAD FINANCIAL ADVISOR	CO-MANAGER	CO-MANAGER
	Marketing Services	<ul> <li>Professional Outsourced</li> </ul>	United Real Estate	•	O Unified Conners	J#GER HEALTH aposphäre		r nin
Technology	Business Services     IT Services	Services	M MCarly Capital	YANTRIKS has been acquired by	has received an assessment from	his been required by	riskinternational hosboonsquied by	MACKE <b>VISION</b> has been acquired by
Enabled Services	• 11 Services		abry partners	<b>♣</b> BlueYonder	West-View Capital Partness	<b>■IQVIA</b>	bv	accenture
			FINANCIAL ADVISOR	SELL-SIDE ADVISOR	FRANCIAL ADVISOR	SELL-0:DE ADVISOR	SELL SIDE ADVISOR	SELL-SIDE ADVISOR
	E-Commerce	Content Marketing		⊉ Zillow	⊉ Zillow	***	S spreetail	J2 GLOBAL
Internet & Digital	<ul><li>Search</li><li>Video</li></ul>	<ul><li>Internet Services</li><li>Mobile</li></ul>	has completed an initial public offering of common stock	has completed a public offering of writer consentation rates	has completed a follow-on affeiring of common stock	teamliquid	has excessed an investment from	GLOBAL has completed a public offer of convertible sensor note
Media	Video	· Wobile	\$3,830,000,108	\$665,000,000	\$422,400,000	* E	McCarthy Capital	\$550,000,000
			CO-MANAGER	CO SEANAGER	CO-MANAGER	FRANCIAL ADVISOR	FINANCIA; ADVISOR	CO-MANAGER
	<ul><li>Data Center</li><li>Managed Services</li></ul>	<ul> <li>Communications         Software, Hardware &amp;     </li> </ul>	CHANGE CONTROL OF THE	ARIA WHILLIAM				
Communications	Fiber Networks	Infrastructure	a portulo campany of  Irrathridge  has been accusined by	has been acquired by  O  Halo	Cimetrix'	Approved	f <b>ästly</b>	# LIGHT
& Digital	Telecom	CCaaS / CPaaS	TWINS PRINT	a portfolio company of	PDF/SOLUTIONS	has been acquired by  CHAMPION  ONE	has completed an initial public offering of common stock	has completed a follow o effecting of common vice
Infrastructure	• Wireless	<ul> <li>laaS / UCaaS</li> </ul>	SELL-SIDE ADVISOR	Inflexion SELL-SIDE ADVISOR	SELL-SOE ADVISOR	SELL-SIDE ADVISOR	\$207,000,000 CO-MANAGER	\$85,250,000 CO MANAGER
	• loT/lloT							
	<ul><li>Digital Engagement Optimization</li><li>Credit Analytics</li></ul>	<ul><li>Marketing Analytics</li><li>Artificial Intelligence</li></ul>	S SYMPHONY has acquired	NOVANTAS	TABSAnatytics	<b>⊕</b> Gropevineó	Hanweck	NINJATRADI
Data & Analytics	Real-Time Risk Analytics	Business / Market	((Cloud9	FBX >	has been acquired by	has been acquired by SEISMIC	flad-time fall analytics has been acquired by	has received a majority equi investment from
			a portiono company or	and and	•		O'1	_

Intelligence

C<sup>\*</sup>boe

STRATTAM

PERMIRA

inflexion



## Leading Middle Market Investment Bank with Cloud Infrastructure and Communications Expertise

Highly knowledgeable team with significant transaction experience and strong industry relationships



**Brad Gevurtz** 

Managing Director
Technology Investment Banking

Portland, OR (503) 603-3060 bgevurtz@dadco.com Brad Gevurtz is a Managing Director in the Investment Banking group, focused on the technology sector. He has been with D.A. Davidson since 2005 and during his time with the firm has served as the Head of Investment Banking and as a member of the Board of Directors and the Public Equity Commitment Committee. Prior to D.A. Davidson, Mr. Gevurtz worked for over 20 years on Wall Street as a senior banker at JPMorgan Chase, KeyBanc Capital Markets and Broadview Int'l (now Jefferies). He has significant experience in M&A, private placements and public offerings, and has advised some of the largest companies in the world on technology transactions. Mr. Gevurtz started his career at AT&T and has executed M&A and capital raising transactions worldwide for public and private communications companies such as Allen Telecom, Alltel, AT&T, Fastly, Limelight, Lumos, Radisys, Towerstream, Vast Networks, Verizon, Wavecom, and Zayo. He is a current board member and President of his regional ACG, an investor in numerous private equity and venture capital funds, a former board member of Thinking Machines Corporation (parallel processing software company), and a former member of the valuation committee of OVP Venture Partners. Mr. Gevurtz has spoken at industry conferences and has been quoted in numerous publications about corporate finance and M&A issues. He holds a B.A. with Distinction in Economics from Pomona College, a J.D. from the University of Oregon School of Law, and an MBA with Honors in Finance and Accounting from Columbia University.



Amy Johnson

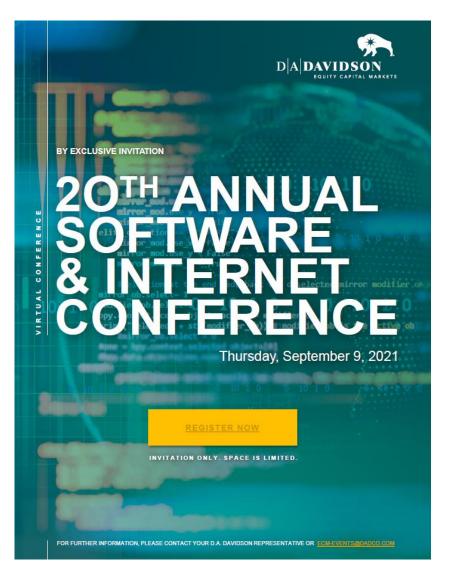
Managing Director
Technology Investment Banking

New York, NY (212) 882-3909 asjohnson@dadco.com Amy Johnson is a Managing Director focused on the Communications and Digital Infrastructure ecosystem for the Investment Banking group. Previously, Ms. Johnson was a managing director and head of debt advisory at The Bank Street Group LLC where she was instrumental in growing the practice from a start-up to a leading boutique firm. During her Bank Street tenure, Ms. Johnson executed investment banking and capital markets transactions for private and public companies spanning fiber networks, data centers, subsea cable, mobile wireless and wireless infrastructure including 365 Data Centers, AboveNet Inc., Airband Communications, Alpheus Communications, ColoAtl, Digital Crossroads, GeoLinks, Hibernia Networks, Highwinds Network Group, OnFiber Communications and Pocket Communications. Ms. Johnson was previously an Executive Director at Swiss Bank Corporation/SBC Warburg (now UBS) where she executed nearly \$10 billion in debt capital markets transactions for a variety of companies. Ms. Johnson graduated with honors from the University of Notre Dame with a B.B.A. in Finance. Upon graduation, she joined Chase Manhattan Bank in New York and completed their formal credit training program before serving in the bank's New York middle market lending division.



## **Unique Events Catered to our Cloud Infrastructure and Communications Clients**

Rapidly expanding institutional investor conference highlights both public and private companies



#### COMPANIES AVAILABLE FOR 1-1 MEETINGS

ACI Modernia Inc	A CIDA/	Talas Composition	TLO
ACI Worldwide, Inc.		Telos Corporation	TLS REAXF
Akamai Technologies, Inc.		The Real Brokerage, Inc.	
Alight Group Inc.		The Trade Desk, Inc.	TTD
Allot Ltd.		TripAdvisor, Inc.	TRIP
Aterian, Inc.		TrueCar, Inc.	TRUE
Bottomline Technologies, Inc.		Turtle Beach Corp. Tyler Technologies, Inc.	HEAR TYL
Boxed, Inc. Broadridge Financial Solutions, Inc.	BR		TZROP
		tZERO Group, Inc. Voxx International Corp.	
Cadence Design Systems, Inc.			VOXX
Cargurus, Inc.		Wisekey International Holding AG - ADR	
Carparts.com, Inc.	CARS	Yext, Inc. Zillow Group'	YEXT ZG
Cars.com, Inc. Chicken Soup for the Soul Entertainment, Inc.	CSSE	Zillow Group	20
Clearfield, Inc.	CLFD	Drivates:	
Coursera. Inc.	COUR		
Criteo S.A.	CRTO	•	
CuriosityStream Inc.	CURI	Bigleaf Networks, Inc.	
Diebold Nixdorf, Inc.	DBD	Bigrentz	
Digerati Technologies		Bridgit Inc.	
Doma Holdings Inc.	CAP		
Donelley Financial Solutions, Inc		Corcentric	
eGain Corporation		CreatorIQ	
Envestnet, Inc.	FNV	Decisiv	
eXp World Holdings, Inc.	EXPI		
Fathom Holdings, Inc.		Edgevana	
GTY Technology Holdings, Inc.		Elevate Services	
iMedia Brands, Inc.	IMBI	Freightwaves	
Intellicheck, Inc.	IDN	Grow.com	
Intelligent Systems Corp.	INS	Kidkare	
Iteris, Inc.	ITI	Kryon Systems	
Jack Henry & Associates, Inc.	JKHY		
LifeMD, Inc.		Ohmyhome	
Limelight Networks. Inc.		Open Sesame Inc.	
NCR Corporation	NCR	Rialto Markets	
OneSpan. Inc.	OSPN	SAVVYY	
Overstock.com, Inc.		Status Money	
PagerDuty, Inc.	PD	TaxDome	
PDF Solutions, Inc.	PDFS	The Muse	
Redfin Corp.	RDFN	United Real Estate	
Rover, Inc.	NEBC	Vizlib Ltd.	
Secureworks Corp	SCWX	Work Truck Solutions	
SS&C Technology Holdings, Inc.	SSNC		
Synopsys, Inc.	SNPS		



## Unique Events Catered to our Cloud Infrastructure and Communications Clients, Cont'd

Rapidly expanding institutional investor conference highlights both public and private companies



#### SELECT PANELS:

## "How to Bridge the Digital Divide in an Age of \$250B of Government Stimulus Funds"

FEATURED PARTICIPANTS:

- JIM PATTERSON CSO, American Broadband
- CHERI BERANEK President & CEO, Clearfield
- RANDY MUENCH CEO, TriStruX
- CARTER VENKAT CFO, TriStruX

D.A. DAVIDSON HOSTS:



BRAD GEVURTZ

MANAGING DIRECTOR,
TECHNOLOGY INVESTMENT BANKING



AMY JOHNSON

MANAGING DIRECTOR,
TECHNOLOGY INVESTMENT BANKING

#### ADDITIONAL CONTEXT:

"...The digital lives of Americans with lower and higher incomes remain markedly different. About four-in-ten adults with lower incomes do not have home broadband services (43%) or a desktop or laptop computer (41%). By comparison, these technologies are nearly ubiquitous among adults in households earning \$100,000 or more a year..."

- Amy Johnson and Brad Gevurtz, Managing Directors in D.A. Davidson's Technology Investment Banking Group

## "Financing Strategies for Technology Growth Companies"

FEATURED PARTICIPANTS:

- PAUL GIBSON MD, CIBC Innovation Banking
- DAVID ORLANDELLA MD, ORIX Growth Capital
- **DICK SWEENEY** MD, Sixth Street Specialty Lending

D.A. DAVIDSON HOSTS:



AMY JOHNSON
MANAGING DIRECTOR,
TECHNOLOGY INVESTMENT BANKING

#### SELECT PARTICIPATING COMPANIES













































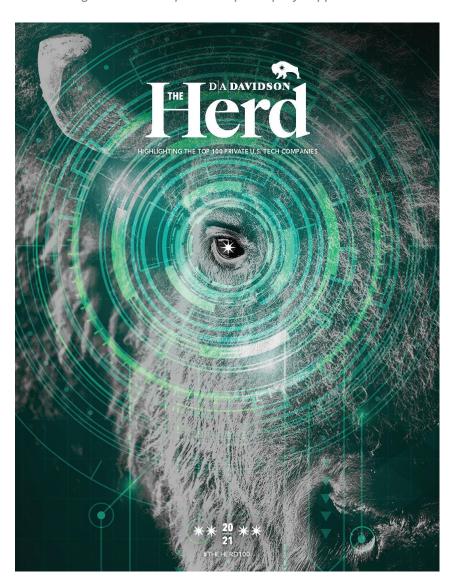


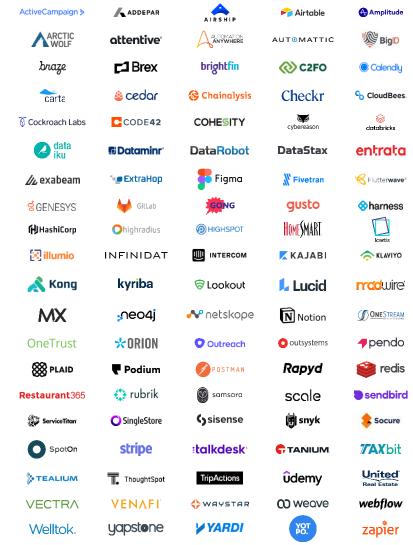


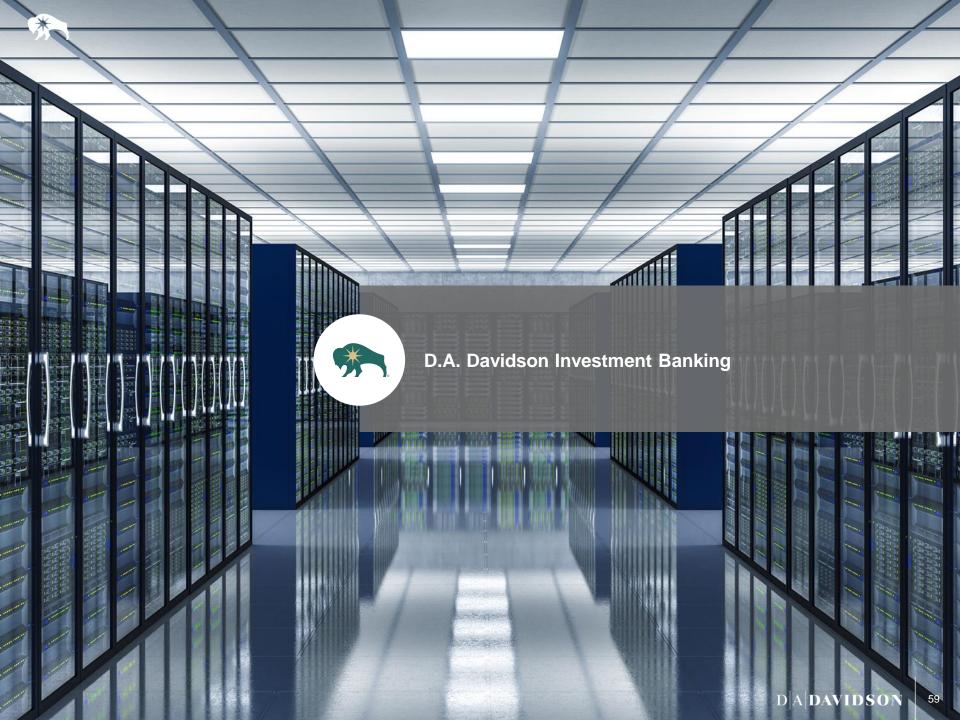


## **Proprietary Thought Pieces Geared Towards the Technology Sector**

Consistent goal across the partnership to rapidly support the brand and firm investment in Technology









## Bulge Bracket Capabilities.

We offer expansive capabilities, delivered by experienced advisors, supported by advanced analysis



# Boutique Focus on Clients.

Each client transaction meaningfully impacts our firm results and receives the attention it deserves

## FULL SERVICE CAPABILITIES

M&A advisory, public and private capital raising, and corporate services

## INTERNATIONAL REACH

Wide scale and strategic partnership with MCF Corporate Finance

#### LEADING EQUITY RESEARCH

Award winning institutional equity research

#### INDUSTRY Expertise

Significant experience within core verticals

#### COMPREHENSIVE ACCESS

Broad access to strategic and financial buyers

#### PUBLIC MARKET INSIGHTS

Provided through institutional sales, trading and syndicate

## SENIOR LEVEL ATTENTION

Senior bankers will maintain presence throughout the process

#### INDEPENDENT

Employee-owned firm focused exclusively on client objectives

## MIDDLE MARKET EXPERTISE

M&A and capital markets knowledge for mid-sized companies

#### RELATIONSHIP DRIVEN

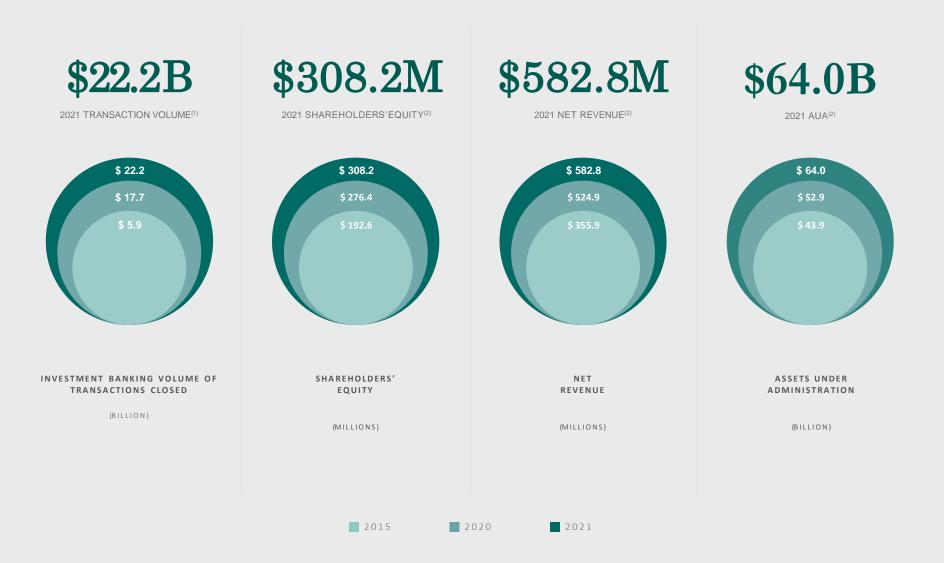
Highly customized solutions supporting long-term client success

#### UNIQUE PERSPECTIVES

Knowing challenges and opportunities for mid-sized companies



## 100% Employee Owned. Consistent Growth.





## **Full-service Platform Offering Depth and Expertise**



## **Equity Capital Markets**

INVESTMENT BANKING	EQUITY RESEARCH	SALES & TRADING							
Mergers & Acquisitions	Award-Winning Research	Market Maker for 1,000+ Stocks							
Equity & Debt Financing	20+ Senior Analysts	Coverage of 500+ Institutions							
Public Offerings	~400 Covered Companies	350+ Non-Deal Roadshows / Year							
Private Placements	Bison Select Coverage	Coast-to-Coast Coverage							
WEALTH MANAGEMENT									
Personal Wealth Management	Investment Adv	Investment Advisory							
Financial Planning	Significant Dist	Significant Distribution Capabilities							
~400 Financial Advisors	~\$64 billion in o	~\$64 billion in client AUA							
FIXED INCOME CAPITAL MARKETS									
Public Finance	Fixed Income S	Strategy Group							
Institutional Sales & Trading	Structured Inve	Structured Investments							



## A Partnership That Bridges The Atlantic

In an increasingly interconnected world, our clients require a global approach

ATLANTA, GEORGIA

BOSTON, MASSACHUSETTS

CHICAGO, ILLINOIS

**DENVER, COLORADO** 

**GREAT FALLS, MONTANA** 

**NEW YORK, NEW YORK** 

ORANGE COUNTY, CALIFORNIA

PORTLAND, OREGON

SALT LAKE CITY, UTAH

SEATTLE, WASHINGTON

1,000+

47

SENIOR BANKERS 150+

INVESTMENT BANKING PROFESSIONALS

15

INVESTMENT BANKING OFFICES HAMBURG, GERMANY

HELSINKI, FINLAND

LONDON, ENGLAND

STOCKHOLM, SWEDEN



Founded in 1994, MCF is a leading independent and international corporate finance advisory firm with offices in Hamburg, Helsinki, Stockholm, and London The collaboration between the two firms brings together 150+ investment banking professionals, working across 15 global offices

The D.A. Davidson MCF International brand, established in 2018, is a true strategic partnership between the two firms offering:

- · Expanded geographic footprint
- Transatlantic M&A execution capabilities and expertise
- · Unparalleled corporate access
- Enhanced industry coverage



## D.A. Davidson's M&A Advisory Summary

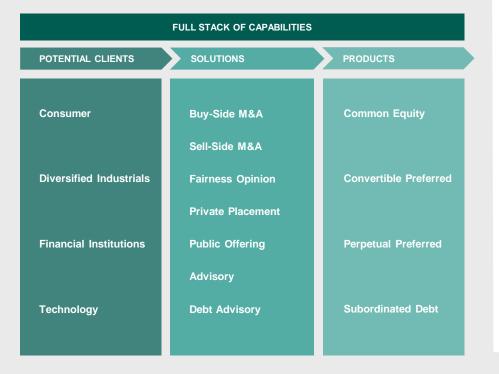
Davidson's leading M&A Advisory platform and experienced, knowledgeable team drive superior outcomes for clients on a nationwide basis

## Significant Deal Activity And Industry Experience

580+ TRANSACTIONS SINCE 2016(1)

\$66B

AGGREGATE TRANSACTION VOLUME SINCE 2016<sup>(1)</sup>



#### SELECT RECENT M&A TRANSACTIONS





















### D.A. Davidson Has a Differentiated Equity Research Product

Research analysts consistently publishing widely distributed coverage reports and thought pieces

- 150+ technology companies under research coverage
- 60+ technology focused equity capital markets professionals
- 11 senior equity research professionals dedicated to publishing coverage reports and thought pieces across the technology sector:
  - Clean Technology
  - Consumer Technology
  - Financial Technology
  - Gaming
  - Industrial Technology
  - Internet Services
  - SemiCap Equipment
  - Communications Technologies
  - Software Enterprise
  - Software Financial Technology and Vertical
  - Software Security and Infrastructure
  - Technology Strategy





#### SELECT COMMUNICATIONS COVERAGE:











## **Our Technology Research Team**



CHRISTOPHER BRENDLER
MANAGING DIRECTOR, SR. RESEARCH ANALYST
CBRENDLER@DADCO.COM

Christopher Brendler joined D.A. Davidson in June 2021 to cover the financial technology sector. Brendler joins the firm with decades of experience in equity research with the bulk of his time spent at Stifel Nicolaus and most recently with Seaport Global. Throughout his career, Brendler has received multiple Institutional Investor recognitions as well as Starmine awards. Christopher holds a bachelor's degree in Economics from the University of Virginia and a master's degree in business administration, accounting and finance from the University of Chicago.



TOM DIFFELY, CFA

MANAGING DIRECTOR, DIRECTOR OF RESEARCH
TDIFFELY@DADCO.COM

Tom Diffely is a Senior Research Analyst focused on telecommunications, semiconductor capital equipment, and technical design software. He spent more than a decade as an equity analyst at Merrill Lynch in San Francisco, where he covered a variety of semiconductor equipment names, and three years as a global product manager at Applied Materials. He received honorable mention in Institutional Investor's survey of the top semiconductor and semiconductor capital equipment analysts in 2006 and 2007. Tom holds an MBA from the Haas School of Business at the University of California, Berkeley, a bachelor's degree in engineering from Harvey Mudd College and the Chartered Financial Analyst® designation.



PETE HECKMANN, CFA
MANAGING DIRECTOR, SR. RESEARCH ANALYST
PHECKMANN@DADCO.COM

Pete Heckmann joined D.A. Davidson in May 2017. His research is primarily focused on public companies in the financial technology (FinTech), vertical software & SaaS, and IT consulting sectors. Pete has over 20 years of experience in equity research, primarily on the sell side, but with three years on the buy side managing a market neutral technology portfolio. Prior to D.A. Davidson, he worked as a senior sell-side research analyst at Avondale Partners, AG Edwards and Stifel Nicolaus. Pete earned his MBA and bachelor's degree from Creighton University in Omaha and holds the Chartered Financial Analyst® designation.



TOM FORTE, CFA
MANAGING DIRECTOR, SR. RESEARCH ANALYST
TFORTE@DADCO.COM

Tom Forte joined D.A. Davidson in July 2017 to cover Consumer Technology companies. Tom has more than 15 years of experience in equity research, including both buy side and sell side. Prior to joining D.A. Davidson, Tom was at Maxim Group, Brean Capital, Telsey Advisory Group and Geneva Investment Management. He has published 14 white papers on the convergence of technology and retail. Tom holds a Master of Professional Writing from USC and a bachelor's degree in economics from the University of Illinois.



## Our Technology Research Team, Cont'd



RUDY KESSINGER, CFA
SR. VICE PRESIDENT, SR. RESEARCH ANALYST
RKESSINGER@DADCO.COM

Rudy Kessinger joined D.A. Davidson in July 2021 to cover the enterprise software sector. Rudy was previously with Craig-Hallum Capital Group, where he built his expertise predominately across the customer engagement, contact center, content delivery and payroll sectors. Rudy holds a bachelor's degree in Finance from George Mason University.



GIL LURIA

MANAGING DIRECTOR, TECHNOLOGY STRATEGIST
GLURIA@DADCO.COM

Gil Luria joined D.A. Davidson in March 2017 as Managing Director, Head of Institutional Research. Prior to joining D.A. Davidson, he was an analyst and head of technology research at Wedbush Securities for 11 years, primarily focused on ecommerce and financial technology companies. He previously covered large U.S. telecommunications companies at Sanford C. Bernstein and served as a Manager at Deloitte Consulting. Gil holds a bachelor's degree in economics from Hebrew University and an MBA from Columbia Business School.



ROBERT SIMMONS, CFA
SR. VICE PRESIDENT, SR. RESEARCH ANALYST
RSIMMONS@DADCO.COM

Robert Simmons joined D.A. Davidson in August 2021 to cover the software sector. Robert joins D.A. Davidson with 15 years of equity research experience, most recently serving as assistant vice president at RBC Capital Markets, where he covered enterprise application software. He previously held roles with Janney Capital Markets and Mizuho Securities. He earned a master's degree in finance from Boston College and a bachelor's degree in economics from Brandeis University.



TOM WHITE

MANAGING DIRECTOR, SR. RESEARCH ANALYST

TWHITE@DADCO.COM

Tom White joined D.A. Davidson in December 2017 to cover internet companies. Tom joined with more than 12 years of experience in sell-side equity research, having previously worked at Macquarie Capital, Gleacher & Company, and UBS covering the Internet and Interactive Entertainment sectors. Before Wall Street, Tom spent five years working in the internet advertising industry, including four years in various sales and business development roles at ValueClick, Inc. Tom holds a bachelor's degree in economics from Hamilton College and a master's degree in finance from the Fordham University Graduate School of Business.



## **Powerful Equity Sales And Trading Platform**

DAVIDSON INSTITUTIONAL SALES OVERVIEW

## A Tradition of Quality Research, Sales, Execution, and Service

Committed to providing liquidity and best execution services to a wide range of institutional investors, including many of the largest mutual fund and money managers in the world

20 +

INSTITUTIONAL SALES & TRADING EXPERTS

TEAMS IN
6 LOCATIONS
ACROSS THE U.S

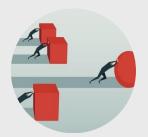
15+ YEARS AVERAGE EXPERIENCE

500+

INSTITUTIONAL TRADING DESKS

**COMPETITIVE ADVANTAGE** 

TRADING & MARKET MAKING



#### Distribution

Strong relationships with niche, small and mid-cap investor

#### Stability

Sector specialist in sales and trading

#### Liquidity

Leading market maker in trading volume for 1,100+ stocks

1,100+

MARKET MAKING

500+

SMALL / MID-CAP STOCKS

INSTITUTIONAL SALES & TRADING OFFICES

Coast-To-Coast Coverage



NEW YORK CITY NEW YORK



MASSACHUSETTS



COLORADO



PORTLAND OREGON



MINNEAPOLIS MINNESOTA



RED BANK NEW JERSEY



#### D.A. Davidson's Technology Debt Advisory Practice

Leveraging our relationships with over 300 debt and alternative capital sources, we work closely with corporates and sponsors to place financings of \$10M - \$250M+ with the appropriate capital partner, often accessing multiple touch points across a single lender to achieve the optimal capital solution

#### CAPITAL MARKETS & CREDIT EXPERTISE

- Knowledge of market terms, both financial and legal, allows us to interact with prospective lenders knowing their particular investment theses
- The Debt Advisory team maintains multiple contacts across large asset management organizations to provide solutions to our clients regardless of the situation: ABL, non-sponsored cash flow, software ARR, sponsored cash flow, specialty finance, special situations, venture loans, etc.
- We leverage our Tech team's deep industry expertise to optimize a Company's positioning and employ our credit knowledge to address key risks and mitigating factors in the financing memorandum
- The combination of market knowledge and credit positioning allow us to create a multitude of financing options that meet our clients' needs
- Debt Advisory works with public companies, sponsor-backed companies, founder and family owned businesses and their investors

#### SELECTED TECHNOLOGY DEBT TRANSACTIONS



#### **Process Summary**

- Davidson was retained as exclusive financial advisor to arrange an omnibus multi-currency asset-backed financing to replace the Company's existing individual asset-backed facilities in Australia and the US
- Davidson ran a broadly targeted process including banks and private credit funds that had multi-currency funding capabilities and experience in the BNPL and/or litigation finance space
- The new \$70 million facility enables QuickFee to refinance its existing debt and create significant funding capacity for growth in both its existing and future markets



#### **Process Summary**

- Davidson was retained as exclusive financial adviser in order to identify an investor who would be a true partner and has a track record investing in marketing technology businesses
- Davidson ran a broad process inclusive of 200 financial investors focused on late-stage venture and growth equity investments
- Within three weeks of signing an LOI with Clovis Point Capital, Davidson's Debt Advisory group sourced and closed a highlycompetitive debt financing from CIBC Innovation Bank
- Davidson was able to deliver a significant capital and debt raise in ~45 days from LOI sign to close without any parties (Company, Investor, diligence vendor, etc.) physically meeting



#### **Deep Relationships with Financial Sponsors**

D.A. Davidson provides in-depth coverage of private equity firms that invest in tech-enabled services businesses

#### DEDICATED FINANCIAL SPONSORS COVERAGE TEAM





# D.A. Davidson | MCF International Office Locations

#### ATLANTA

1201 Peachtree St NE Suite 450 Atlanta, GA 30309 (470) 645-6385

#### BOSTON

One International Place Ste. 320 Boston, MA 02110 (857) 318-0200

#### CHICAGO

227 W. Monroe St. Ste. 5250 Chicago, IL 60606 (312) 525-2777

#### DENVER

1550 Market St. Ste. 300 Denver, CO 80202 (303) 571-6100

#### GREAT FALLS

8 Third St. N. Great Falls, MT 59401 (800) 332-5915

#### HAMBURG\*

Emporio Tower Valentinskamp 70 D-20355 Hamburg +49 40 39803 0

#### HELSINKI\*

1<sup>st</sup> Floor Etelaesplanadi 20 00130 Helsinki +358 9 6227 1890

#### LONDON\*

14 Waterloo Place London SW1Y 4AR +44 20 7968 2760

#### NEW YORK CITY

757 Third Ave. Ste. 1902 New York, NY 10017 (800) 450-3942

#### NEW YORK CITY

570 Lexington Ave. 48<sup>th</sup> Floor New York, NY 10022 (212) 257-6300

#### ORANGE COUNTY

611 Anton Blvd. Ste. 600 Costa Mesa, CA 92626 (714) 327-8800

#### PORTLAND

222 SW Columbia St. Ste. 1400 Portland, OR 97201 (800) 249-2610

#### SALT LAKE CITY

110 S. Regent St. Ste. 410 Salt Lake City, UT 84111 (801) 333-3123

#### SEATTLE

701 5th Ave. Ste. 4050 Seattle, WA 98104 (888) 389-8001

#### STOCKHOLM\*

Vastra Tradgardsgatan 15 111 53 Stockholm +46 8 545 680 80