

## **Telco Cloud**

Tony Scarfo, EVP & GM, Cloud and Edge

Courtney Munroe, IDC Research VP Worldwide Telecommunications Research

## **Note Regarding Forward-Looking Statements**

This presentation contains "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, which are subject to a number of risks and uncertainties. All statements other than statements of historical facts contained in this presentation, including without limitation statements regarding expected benefits from use of our products, customer engagement and momentum, and plans for future product development, are forward-looking statements. Without limiting the foregoing, the words "believes", "expects", "expectations", "intends", "may", "plans", "projects" and other similar language, are intended to identify forward-looking statements.

Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. Our actual results may differ materially from those contemplated in these forward-looking statements due to various risks, uncertainties and other important factors, including, among others, risks related to supply chain disruptions resulting from component availability and/or geopolitical instabilities and disputes; risks related to the continuing COVID-19 pandemic, including delays in customer deployments as a result of rises in cases; risks that we will not realize estimated cost savings and/or anticipated benefits from the acquisition of ECI; failure to realize anticipated benefits from the sale of our Kandy Communications business ("Kandy") or declines in the value of our ongoing investment in AVCT, the purchaser of the Kandy Communications business; unpredictable fluctuations in quarterly revenue and operating results; risks related to cybersecurity and data intrusion; failure to compete successfully against telecommunications equipment and networking companies; failure to grow our customer base or generate recurring business from our existing customers; credit risks; the timing of customer purchasing decisions and our recognition of revenues; macroeconomic conditions; the impact of restructuring and cost-containment activities; litigation; market acceptance of our products and services; rapid technological and market change; our ability to protect our intellectual property rights and obtain necessary licenses; our ability to maintain partner, reseller, distribution and vendor support and supply relationships; the potential for defects in our products; risks related to the terms of our credit agreement; higher risks in international operations and markets; increases in tariffs, trade restrictions o

Any forward-looking statements represent our views only as of the date on which such statement is made and should not be relied upon as representing our views as of any subsequent date. While we may elect to update forward-looking statements at some point, we specifically disclaim any obligation to do so, except as may be required by law.



## Ribbon Spotlight

### Agenda:

- Safe Harbor Statement: Tom Berry, Ribbon IR
- Introduction: Courtney Munroe, IDC
- Prepared Remarks: Tony Scarfo, Ribbon
- Discussion with Courtney and Tony



Date: November 18<sup>th</sup> Time: 2 pm EST

Transitioning networks to the cloud with cloud-native software to drive new 5G and business service revenues with CI/CD and automation for cost-effective operations



**Tony Scarfo**, EVP & General Manager Cloud and Edge Business Unit



#### Moderator:



Courtney Munroe, Research Vice President Worldwide Telecommunications Research





## **Well Positioned to Address Growing Opportunity**

Ribbon is a trusted partner with telcos

Large service provider and enterprise base provides growth opportunity

Deployed in 20 of the top 25 global service providers

Partnering with leading public cloud providers

Market leader in network transformation\*



We enable secure and reliable business communications with scalable cloud and on-premises solutions that offer elastic costs





<sup>\*</sup> Source: Exact Ventures 2Q21 Market Share Report

## Already on the Journey to the Cloud with our Customers

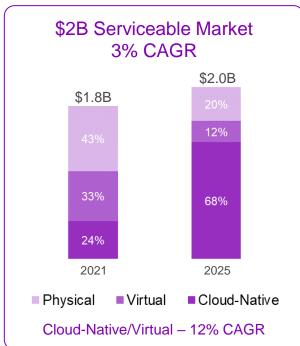




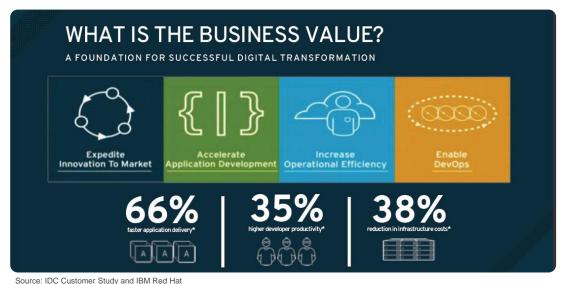




## **Evolution to Telco Cloud Provides Growth Opportunity**



Source: Exact Ventures Forecasting and Ribbon Modeling

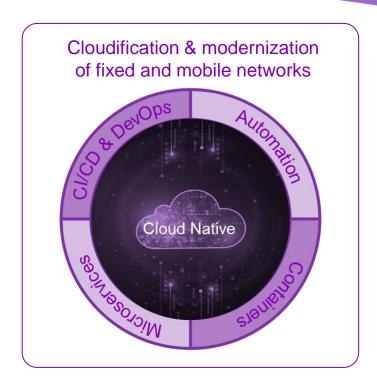






#### **Cloud Native Defined**

- Service providers need to drive service revenues with more cost-effective operations
- Cloud Native represents a fundamental evolution in the way that telco networks are built, run and managed
- It involves leveraging virtualized and cloud infrastructure technologies, either private or public with automation and continuous integration and delivery (CI/CD)
- Also involves adoption of cloud business practices becoming more open, dynamic, agile and efficient





#### **Network Evolution to Telco Cloud**

Cloudification & modernization of fixed and mobile networks to Telco Cloud







Proprietary Hardware

**In-Network** 



Hypervisor



Virtual Machines on Off the Shelf Servers

In-Network and Data Centers



NFV Infrastructure

Virtual Network Functions with MANO

Private or Public Cloud



Cloud-Native Infrastructure

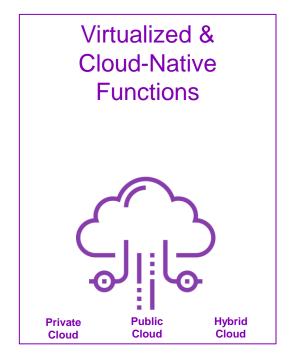
Cloud-Native Functions with Automation

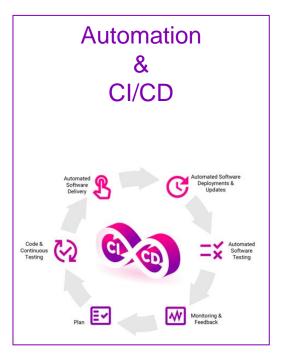
Private or Public Cloud



Telco Cloud

## Ribbon Telco Cloud Technology





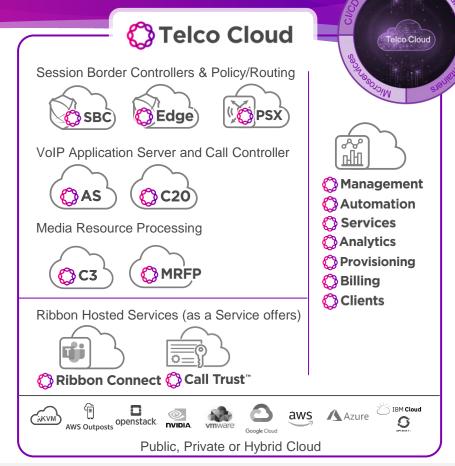


Carrier Class Reliability and Feature Richness



#### Ribbon Telco Cloud Portfolio

- Extensive network-proven portfolio for telco cloud voice services
- Deployable on private, hybrid and public cloud infrastructure platforms
- Scalable and reliable cloud-native architecture to fit service and network needs
- Designed with automated cloud-native operations and life-cycle management; utilized to operate our own hosted offers
- Analytics-based service assurance and monitoring
- "As a Service" options delivered from the Ribbon cloud





## Partnering with Public Cloud Providers and Service Providers



















Google Cloud



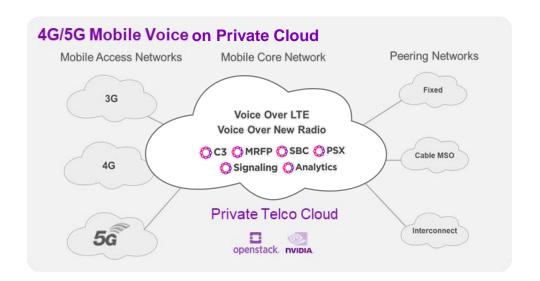






#### Ribbon Telco Cloud Software on Private Cloud

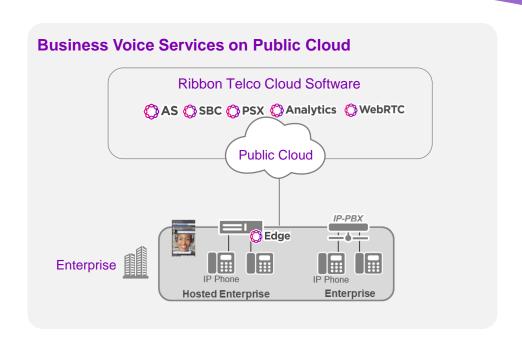
- Leading Tier 1 Service Provider
- Ribbon software portfolio deployed in the service provider private cloud
- Handling over ten million concurrent sessions for their mobile network interconnect
- Ribbon portfolio also supporting consumer and business voice services in the network
- Specialized media processing in the private cloud





#### Ribbon Telco Cloud Software on Public Cloud

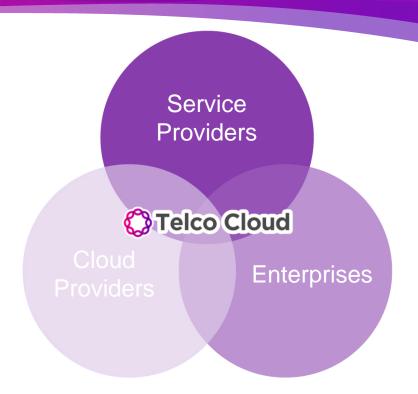
- Opportunity for Telcos to migrate traditional PSTN voice systems to the public cloud
- Frees up real estate and leverages cloud economics & environmental footprint
- Provides support for traditional PSTN requirements while supporting enterprise digital transformation
- Allows operators to maintain control and benefit from optimization versus total outsource





## **Summary: Ribbon Winning in the Growing Telco Cloud Space**

- ✓ Broad portfolio of telco cloud communications software functions and technology with expertise to aid in this migration
- ✓ Trusted partner with market and network transformation technology leadership
- ✓ Key player in the telco cloud ecosystem partnering closely with our customers and cloud providers



Market migration to Telco Cloud creating new opportunities for Ribbon



# Discussion with Courtney and Tony

