

Securing Hosted Voice for Service Providers

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ribbon
INSIGHTS

We Understand Key Service Provider Challenges

Math Problem



Tension – Old vs New



People Problem



Alternate ways to deliver voice require some thought...

Deploying voice communications over the Internet or using third-party services to host voice subscribers has the potential to create quality, security, and business continuity concerns.



- Remaining price competitive with more competition
- Packet Based Networks are a “Best Effort” Transport
- End-Customer Networks are Always an Unknown
- Truck Rolls Are Expensive
- Customer Churn Is Always An Issue
- Add in Security, Call Quality and SLA Guarantees

Ribbon Hosted Voice Service Assurance

Complementary capabilities for Hosted Voice Deployments

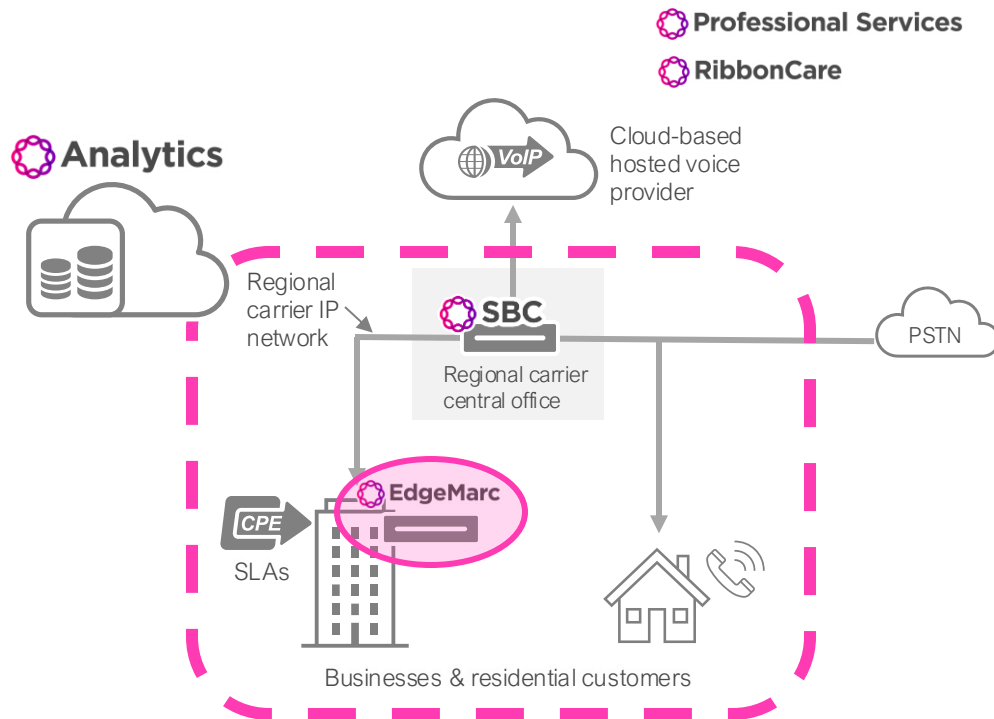
Analytics Applications

- Reporting insights and advanced troubleshooting
- Discover (SLA monitoring, SLA & CSAT)
- Most probable cause
- Fraud mitigation

Robocall mitigation and STIR SHAKEN compliance

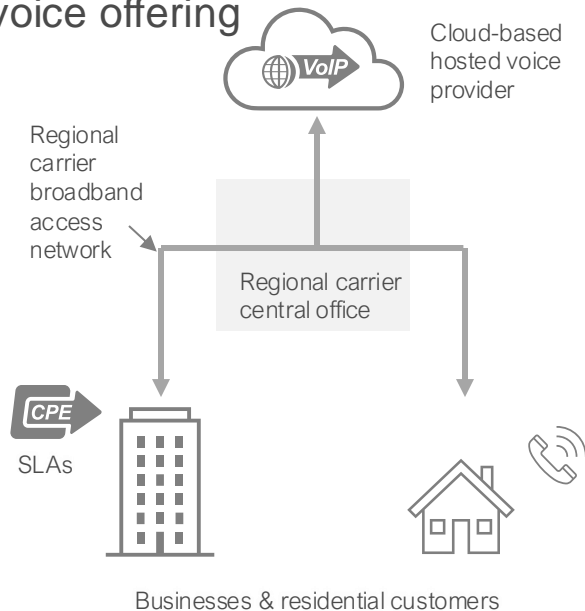
Carrier CPE EdgeMarc portfolio

- Critical customer demarcation for QoS assurance
- On customer-premises local survivability



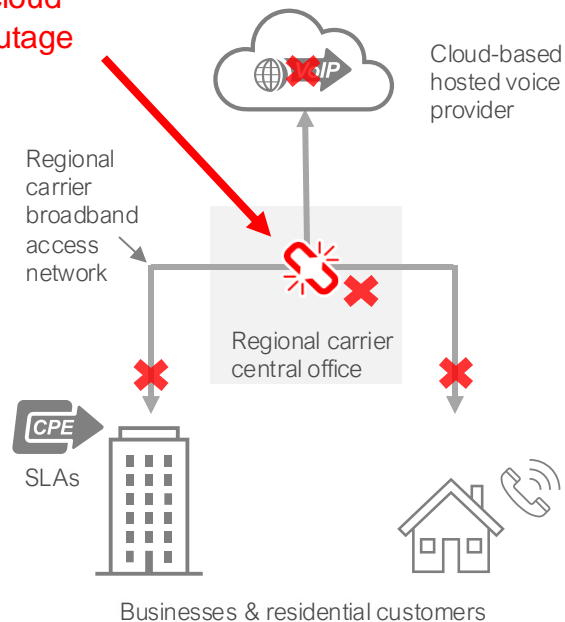
Problem – Regional Carrier Adopting Cloud-Based VoIP

Service provider
adopting cloud
hosted voice offering



Challenges:

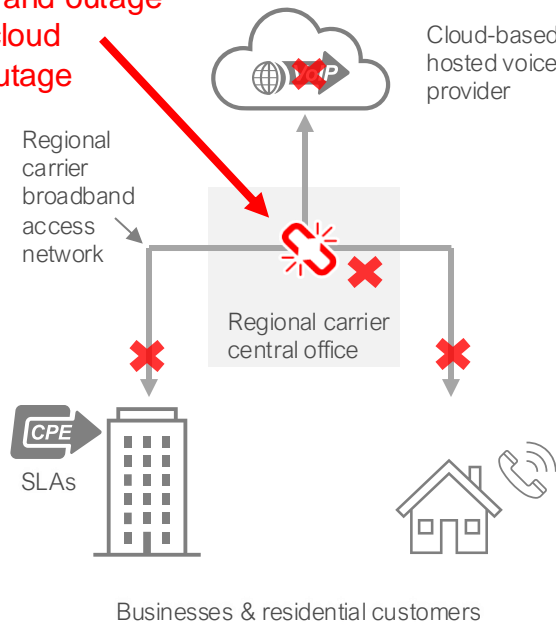
- Network faults and outage
- Hosted voice cloud unreachable/outage



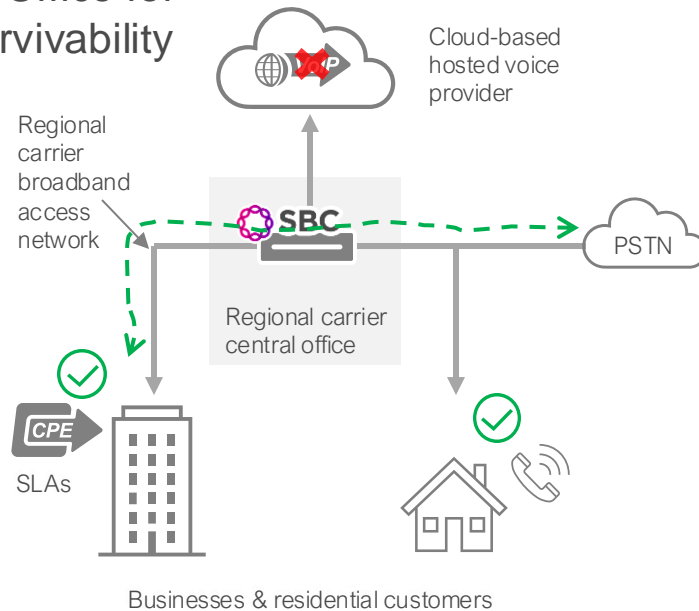
Solution – Adopting Hosted Voice Requires a Backup Plan

Challenges:

- Network faults and outage
- Hosted voice cloud unreachable/outage











Deploy SBC in Central Office for local survivability



SBC Core Portfolio

- Unrivaled scale and performance
- Solves the unique real-time communication (RTC) challenges for **security, reliability and interoperability**
- Certified with all leading UCaaS providers
- JITC and FIPS-140-2 certified for US Govt.
- Any deployment (cloud native, virtual or appliances) has same feature code base
- High availability options
- Ribbon Application Management (RAMP) common across all SBCs

Customer Defined Sessions High Availability	 SBC CNe 	Cloud Native
Customer Defined Sessions High Availability	 SBC SWe 	Virtual
150,000 Sessions High Availability	 SBC 7000 	Service Provider
75,000 Sessions High Availability	 SBC 5400 	Large Enterprise

Securing the Edge of the network



Securing the Edge is Only Step One...



Microsoft Certified for Direct Routing



Zoom Certified for BYOC



PSTN Gateway



WAN Router



NAT/DHCP



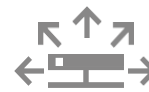
SIP Firewall



LTE Back-up



ALG/B2BUA



Voice Quality Monitor



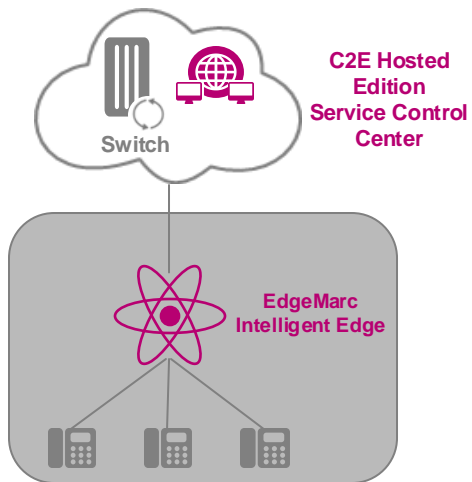
Traffic Shaper



- Ribbon's C2E Hosted Edition and EdgeMarc deliver a set of intelligent "probes" into the customer environment
- Providers can see what's happening all the way down to a desktop device
- Ribbon gives providers control over the experience and differentiates last mile providers from pure OTT offers

Adding Value at The Edge

Monitor, manage, and secure voice traffic as it enters and exits a provider's network and/or an end customer's site.



EdgeMarc



Zero Touch Provisioning



Service Configuration



Status Streaming and Event Triggers



Interoperability

C2E Hosted Edition



Provision and Manage



Monitor and Alert

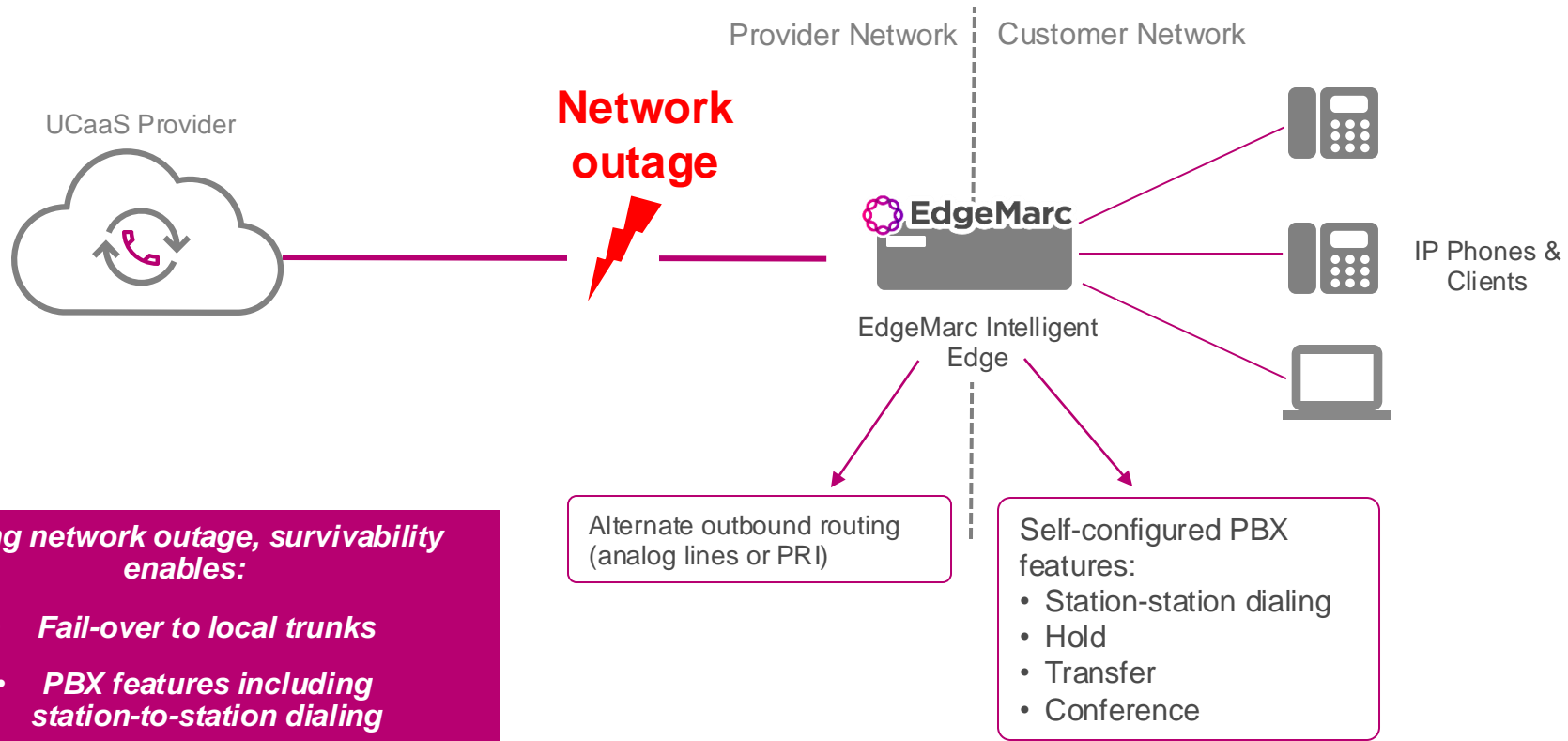


Troubleshoot and Remediate



Report and Analyze

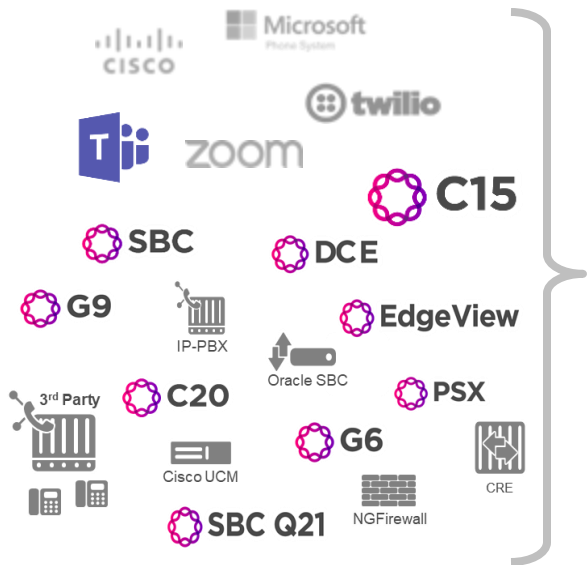
Add Local Survivability Options to Create Even More Value



During network outage, survivability enables:

- *Fail-over to local trunks*
- *PBX features including station-to-station dialing*

Closing the Technology Gap with Analytics



Benefits

- Stay ahead of outages
- Fix issues faster
- Gain immediate ROI
- Manage growing networks
- Identify Security Threats
- Justify upgrades
- Report on SLAs

Visibility

Agility

Automation

Summary

Proven Expertise Securing SIP Traffic

True Unified Communications Interoperability

Secure, Reliable and Seamless Scalability

Physical, Virtual, Cloud Native Deployment

**Ribbon is the VoIP expert
Innovative. Comprehensive. Proven.**

Thank You

ribbon
INSIGHTS

