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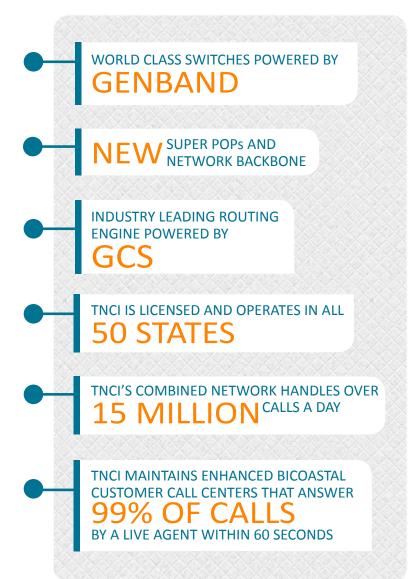
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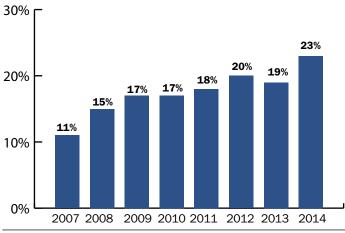
APPLICATIONS, RECESSIONS & IT DOLLARS

In this current era of cloud/server computing, few will be shocked to see a chart that illustrates the growing proportion of IT budgets that goes toward business applications. Perhaps less obvious to some is the pace of this shift.

Consider, for example, that in 2007, business applications accounted for about 11 percent of the typical IT operational budget, according to figures from Computer Economics. By 2014, that percentage rose to 23 percent for the average organization. In other words, IT spending on business applications more than doubled as a percentage of the IT operational budget since the start of the Great Recession, and it's possible the ebbs and flows of the recent recession accelerated the trend, says Computer Economics.

One might surmise this is simply due to desires to delay or avoid capital expenditures on hardware during lean or uncertain times. "However, in this case, the rising portion of IT resources being consumed by software in the application layer is not tied to declining hardware costs," says the research firm. "Rather, it appears to be tied to declining labor costs, which suffered the most during the downturn."

Applications as a Percentage of IT Operational Budget



Source: Computer Economics

What's more, spend-

ing on applications as a percentage of the IT budget rises when the economy turns down and rises again when the economy turns up.

As the recession hit, organizations pulled back on all types of spending, including application investment, show Computer Economics figures. "However, we see spending on applications fared better than spending in other areas and, as a result, jumped as a percentage of overall IT operational spending from 11 percent in 2007 to 17 percent by 2009," says the research firm. "The large amount of depreciation in the application expense category partly explains the rise."

The trend line flattens for a few years as the recession ends and the recovery struggles to gain footing. After a false start in 2011, IT operational budgets began to grow in 2012, and along with the growth came renewed growth in spending on applications, this time including a strong uptick in SaaS spending.

"This would indicate the growth in application spending as a percentage of the IT operational budget is a secular rather than a cyclical trend," says Computer Economics. "Now that IT budgets have begun to recover from the Great Recession, it is important to consider how the world has changed."





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BREAKING NEWS: VoIP Fraud Detection Is Out



All customers are eligible for a free one month trial!

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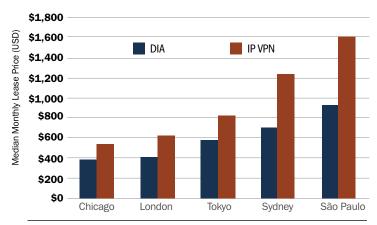
For more information on our VoIP Fraud Detection Service, download a handy QR Code Reader to your smart phone and then scan this QR code!

IP VPN NOT ALWAYS MOST COST EFFECTIVE

IP VPN remains the most pervasive enterprise network service globally, but it is not always the most cost-effective solution for every network site, suggest data from TeleGeography. While not perfect substitutes, replacing IP VPN with dedicated Internet access (DIA) or Layer 2 Ethernet VPN (EVPN) at some sites can result in significant cost savings, says the research firm.

According to TeleGeography, the majority of MPLS IP VPN sales occur between 2Mbps and 10Mbps. At capacities of 10Mbps or above, or in more remote geographies where VPN is priced at a premium or is not widely available, DIA services can provide an economical alternative. For example, in Q1 2015, the median price of a 10Mbps DIA port in London was \$398 (USD) per month, or 36 percent lower than the \$626 monthly price of a comparable IP VPN port. Similarly, in Chicago, the median DIA port price was \$387 per month, or 28 percent below the \$536 per month charged for IP VPN. Price disparities in farther-flung markets are even more apparent. In Q1 2015, median 10Mbps DIA prices in Sao Paulo and Sydney were \$922 and \$704 per month, respectively, or 43 percent lower than the price of IP VPN in both cities.

Media Monthly Lease Price, DIA vs. IP VPN, 10 Mbps



Source: TeleGeography

At the 10Mbps capacity level, EVPN, which appeals to customers requiring high-capacity multipoint-to-multipoint connections with guaranteed class of service levels, is priced higher than DIA and IP VPN. However, at 50Mbps and above EVPN becomes increasingly cost-effective. In Q1 2015, the median monthly price of a GigE EVPN port in Chicago was \$6,200 per month, or 40 percent lower than the \$10,400 monthly price of a comparable IP VPN port. At \$22,802 per month, the median GigE EVPN price in Tokyo was 8 percent lower than that of comparable IP VPN service.

Of course, while DIA or EVPN services can provide a cost-effective alternative to IP VPN, they are not always appropriate for every network site.

"For sites with latency sensitive requirements, IP VPN services are able to prioritize and manage traffic, while DIA offers no such traffic differentiation," said TeleGeography analyst Brianna Boudreau. "EVPN services do provide the same traffic prioritization as IP VPN but have more limited geographic availability and are most cost-effective at sites with significant capacity requirements, such as company headquarters or data centers. For many enterprise customers, a hybrid solution that combines all three technologies may be the best option."

FASTON ADDS DIGITAL VOICE

Easton Telecom Services recently announced its newest service offering: Easton Digital Voice (EDV). The service, available to businesses nationwide, offers hosted, trunk and primary rate interface line options.

Easton has partnered with a platform-as-a-service (PaaS) provider to deliver EDV. The company said that the platform gives Easton the freedom to customize services to meet the requirements of each end user serviced. When it comes to today's technology needs, every customer is faced with a unique situation. So for EDV, every customer will receive a customized quote to address these needs in one easy-to-mange, easy-to-understand package.

"There is currently a tremendous push in the marketplace for businesses to transition to IP-based services. The Easton Digital Voice family of services allows us to offer a full suite of voice services at a great price to customers large and small," said Rob Mocas, president of Easton Telecom.

By utilizing Easton's long-standing partnerships with some of the largest voice and data carriers, Easton is able to assure quality and serviceability in a nationwide footprint, said Mocas.

"The Easton Advantage has always been our approach to the reseller model. With more than 20 underlying carriers; Easton is able to provide multi-location customers quality services at great rates, on one invoice, with one customer service number to call. Easton Digital Voice enhances our footprint and allows us to provide voice services in many new areas," he added.

Based in Cleveland, Ohio, all of Easton's products and services are carried over the networks of top providers ensuring quality and reliability.

dincloud Partners with CDW

Cloud services provider dinCloud recently announced a partnership with CDW whereby CDW can now offer and sell dinCloud's award-winning Hosted Virtual Desktops



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(HVDs) and related cloud services, including its high-performance servers and cloud-based storage.

The dinCloud dinHVD hosted virtual desktop runs from a private virtual data center, enabling administrators to provision resources within minutes, says the company. Users have access to the same workspace, regardless of device (laptop, desktop, iPad or Android). WebH-VD, dinCloud's latest generation hosted virtual desktop, is accessible from Google's Chrome browser on Windows, Mac OS X, Linux or any Google Chromebook.

"Cloud solutions continue to gain popularity as businesses look to conserve resources by offloading data center management, while gaining the IT flexibility to meet their evolving business needs," said Stephen Braat, vice president, cloud and managed solutions, CDW. "CDW's hosted virtual desktop offering, powered by dinCloud, puts the direct benefits of cloud computing in our customers' hands."

Through its partnership with dinCloud, CDW also is now able to office dinServer, dinCloud's hosted virtual servers, which includes a firewall, private virtual server, network and storage; dinManage, dinCloud's cloud orchestration and provisioning tool; and dinStorage D3, an Amazon API-compatible S3 cloud storage alternative.

STAR2STAR ROLLS OUT INTERNATIONAL LICENSING PROGRAM

We live in a global world, where companies of all sizes may have international customers or partners looking for cloud-based voice and unified communications that can link together disparate locations cost-effectively while boosting productivity. For international carriers and telecom providers looking to provide cloud communications services to their customer bases, Star2Star has kicked off an international licensing program.

Star2Star's Galaxy cloud-based infrastructure combines Star2Star's premises-based StarBox Cloud Connection Manager (CCM) and its Constellation delivery architecture to provide on-premises IP-PBX functionality, with an integrated suite of hosted applications and services. This blended architecture allows scaling from a small single location to thousands of locations, each with thousands of extensions acting as one in the cloud.

To take advantage of this, providers can license the Star2Star solution as a complete offering or as standalone offerings. Carriers can license StarBox CCM hardware components, and platform and application components are also available. Carriers can make use of the Application Framework and all the core service delivery, operations and support infrastructure, as well as the apps themselves, such as voice, UC, call center capabilities and more.

The solution is a managed one: Star2Star's Constellation network monitors and manages all voice traffic around-the-clock with six levels of failover.

On the billing front, carrier customers can offer pooled voice lines between locations, burst extra lines on demand, or use a traditional line or seat model.

ADTRAN ACHIEVES SHORETEL CERTIFICATION

ADTRAN has received ShoreTel Innovation Network interoperability certification for the ADTRAN NetVanta switch portfolio. ADTRAN is the only partner in the Innovation Network to have a complete, end-to-end solution set certified to support requirements from point of demarcation with enterprise session border controllers all the way to the LAN with Ethernet switches, says the company.

According to sources at ADTRAN, traditional switch vendors are building products without focusing on the demanding application needs of VoIP. In contrast, ADTRAN is maintaining a sharp focus on voice quality to provide a stronger foundation for VoIP business communications. The interoperability certification ensures that ADTRAN and ShoreTel solutions will provide seamless quoting, deployment and management processes for partners, in addition to offering proven reliability, say the companies.

"The ShoreTel Innovation Network guarantees our partners seamless interoperability and cutting-edge capabilities as they build and deploy hardware, software and services," said Chad Horton, manager of innovation and network services at ShoreTel. "These additions allow partners to access best-in-class technology that is easy to manage and meets our high standards for customer satisfaction."

"By combining our solution set with ShoreTel's business UC platform, we are empowering the market with the best tools to deliver high-quality voice services while simplifying infrastructure and streamlining deployments. The pre-integrated solution reduces costs of VoIP rollouts and improves margins, allowing VARs, MSPs and carriers to focus on maintaining a competitive edge in the market," said Todd Lattanzi, director of product management for ADTRAN's Enterprise Networks Division.

VONAGE APP AVAILABLE FOR APPLE WATCH

Addressing the increasingly popular wearables market, Vonage continues its commitment to innovation by bringing the Vonage Mobile App to Apple Watch. Vonage Mobile on Apple Watch means that users no longer need to pick up their iPhone to respond to messages and calls. Vonage Mobile users can respond to calls and text messages from other Vonage Mobile users directly from Apple Watch.

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Direct Feed

Understanding consumers are always on-the-go, Vonage Mobile for Apple Watch is one of the first wearable communications apps on the market that allows users to set personal reminders to return a phone call or message at a later time, says the company. This can be done directly from the watch's incoming call screen or by accessing recent calls/ messages from the watch.

Vonage Mobile users also can easily reject a call and send a pre-set "Can't talk right now" message to the caller from the watch. In addition, they can respond to text messages with voice-to-text functionality or one of five preset responses. Other Vonage Mobile features for Apple Watch include integration with the phone's native contact list, call waiting and mirroring the iPhone's notifications.

Vonage Mobile for Apple Watch is available from the App Store for Apple Watch.

VOCAL IP NETWORX SIGNS CARRIERSALES AS MASTER AGENT

Vocal IP Networx has formed a strategic partnership with master agency CarrierSales. This partnership enables CarrierSales partners across the country to leverage and present Vocal IP Networx VoIP and carrier services to their customers.

Vocal IP Networx is a national facilities-based carrier and IP telephony services provider headquartered in New York City. Vocal IP Networx operates two super-POPs in Newark, N.J. and Las Vegas, with two smaller access POPs in Chicago and Dallas.

According to Austin Holverson, vice president of marketing for CarrierSales, Vocal IP Networx will fill a strategic niche in the portfolio for the master agency's partners selling hosted PBX and SIP services.

SHORETEL, INGRAM MICRO, HP TEAMS UP ON UC SOLUTIONS

ShoreTel, Ingram Micro and HP are jointly bringing to market unified communications offerings for small- to medium-sized businesses to be sold through Ingram Micro's channel partner network. The program will include ShoreTel cloud services and HP routers and POE switches.

Ingram Micro has been selling the ShoreTel on-premises solution for four years and is now certified to offer ShoreTel Sky. With this joint solution, named HP Networking for ShoreTel Solutions, customers purchase the ShoreTel cloud offering and can choose from an HP switch or both an HP switch and an HP router, depending on their needs. The offers will be available via joint HP and ShoreTel channel partners that work with Ingram Micro.

"Unified communications-as-a-service is a growing sales and ongoing service opportunity for channel partners who specialize in the IT needs and business outcomes of SMBs," said Eric Kohl, executive director of Ingram Micro Advanced Solutions. "By working closely with HP and ShoreTel, we're able to bring to market a tightly integrated, seamless, end-to-end hosted IP telephony and UC solution that is built for SMBs and easy for channel partners to market, sell and support."

"Our SMB customers are looking to reap the benefits of a hosted solution, and this solution complements the existing on-prem HP-ShoreTel offering and provides the network backbone for ShoreTel's complete UC&C solution," said Bob Johnson, vice president of HP Networking Americas. "This is HP's first offering for the ShoreTel Sky cloud solution and will help SMB customers realize benefits including ease of management, increased efficiency and lower costs."

HP Networking for ShoreTel Solutions will be available in calendar Q3 2015.

EQUINIX, GLOBAL CAPACITY COLLABORATE ON CLOUD ACCESS

Global interconnection and data center company Equinix and Global Capacity announced a collaboration to provide enterprise customers with direct access to the many cloud service providers available on the Equinix Cloud Exchange via Global Capacity's One Marketplace. Through a direct Ethernet connection from One Marketplace to the Equinix Cloud Exchange, enterprises gain high-performance access to multiple cloud services from the eight Equinix International Business Exchange (IBX) data centers in which Global Capacity resides.

And, because Global Capacity provides network access to 9.6 million commercial addresses, cloud service providers have the ability to extend their market reach to a larger enterprise audience.

Leveraging One Marketplace, enterprise customers can bypass the public Internet with secure, private Ethernet services, connecting their headquarters, data centers and remote locations to cloud providers available on the Equinix Cloud Exchange, says the company. With these services, enterprises can now access cloud service providers from additional IBX data centers. For example, if an enterprise requires access to Amazon Web Services (AWS), but is not in one of the eight markets offering AWS on the Cloud Exchange, by using One Marketplace they are able to gain access to this service without being physically inside that location.

"The secure, high-performance connectivity provided by One Marketplace to the Equinix Cloud Exchange allows enterprises to access the services needed to build sophisticated hybrid cloud solutions capable of supporting their business-critical operations and applications," said Jim Poole, vice president, global service providers, Equinix. "With this solution, cloud providers such as AWS in Washington, D.C., are now easily accessible from nearby metropolitan centers such as New York."

Global Capacity and Equinix have been working together since 2013. Global Capacity is currently interconnected in

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Direct Feed

eight Equinix IBX data centers in North America, including Atlanta, Chicago, Dallas, Seattle, Silicon Valley and Washington, D.C., with additional sites being added in 2015.

XO ADDS LATIN AMERICA REACH

XO Communications has broadened the reach of its international data services via new network-to-network interconnections (NNIs) with Neutrona Networks, a neutral and independent Latin American carrier.

XO selected Neutrona as part of its strategy to improve its international coverage because the company's strong regional presence in Mexico, as well as Central and South America, it said. XO interconnects to the Neutrona network from XO's points-of-presence in Dallas and Miami.

"Expanding into Latin America through Neutrona is the first phase of our strategy to broaden significantly our international coverage to meet customer needs," said Jake Heinz, senior vice president of marketing and product at XO Communications. "Our international connectivity strategy is based on teaming with respected providers with strong regional network footprints. Through Neutrona, we are pleased that we can now offer cost-effective high-speed data connections into Latin America while offering the consistent global service level our customers demand."

"Neutrona looks forward to helping XO grow their international enterprise business by providing a transparent network bridge into Latin America and by providing high quality field operations and logistics," added Luciano Salata, president and COO of Neutrona Networks.

NTT RECOVERY SERVICE NAMED A GARTNER QUADRANT LEADER

NTT Communications Corp. was recognized for its cloud-based disaster recovery services and positioned as a leader in the *Magic Quadrant for Disaster Recovery as a Service* (*DRaaS*) report issued by Gartner. In this inaugural Magic Quadrant DRaaS report, Gartner evaluated the capabilities of a select set of DRaaS providers that have support for communication services, DR/BC recovery services, hosting and infrastructure-as-a-service and direct cloud recovery. NTT was recognized for its "ability to execute and completeness of vision," in the report.

"DRaaS is quickly becoming a highly diverse market evolving from a service that appealed mainly to small businesses to one that serves organizations of all sizes across all verticals, and NTT Communications is proud to be distinguished as a leader," said Nayan Naik, senior director product strategy, NTT Communications. "However, despite industry progress, disaster preparedness is often overlooked leaving companies in a vulnerable position. With our hybrid cloud-based DR solutions, we help companies identify their weaknesses and prepare them for any disaster event."

Gartner estimates the size of the DRaaS market to be approximately \$1.3 billion, with a related compound annual growth rate of approximately 30 percent. By 2018, Gartner estimates that the size of the DRaaS market will exceed that of the market for more traditional subscription-based DR services."

ACCELERATION SYSTEMS BOWS CHANNEL STRATEGY

Cloud-based, software-as-a-service (SaaS) bandwidth optimization provider Acceleration Systems has launched a channel partner program. The announcement follows the recent appointment of Alan Fortier as vice president of channel sales.

Acceleration Systems offers bandwidth optimization and Internet acceleration technology to the SMB market. The offerings are available in a subscription-based SaaS format and are targeted across many vertical segments, including energy and natural resources, satellite network operators, Internet service providers, government, travel and hospitality, education, disaster relief, health care and retail.

The partner program offers two tier classifications, as well as the ability to sell private cloud services. Partners can select the program type that best fits their operation and customers' requirements.

GDS FORGES AHEAD IN CHINA

GDS Services, a carrier-neutral data center service provider, is hopping on the "One Belt and One Road" strategy, which has been devised and promoted by the Chinese government. Focused on the countries along the old Silk Road, into Europe and around the globe, it seeks to encourage trade, commerce and a whole range of other forms of international exchange through both infrastructure and interconnectivity.

GDS aims to help companies targeting foreign businesses enter the Chinese market via new international partnerships that will allow GDS to exchange markets, resources and strengths. It plans to focus on professional service platforms providing high-availability IT support for the international expansion strategies of both Chinese and foreign customers.

To go along with this, GDS has introduced a brand-new concept, CloudMix. CloudMix is a hybrid infrastructure service concept combining legacy platform, cloud and high-availability services. It also optimizes the customer experience through a one-stop infrastructure service.

Traditional data centers and cloud services struggle to meet the challenges posed by growing IT complexity – legacy platforms are still widespread. CloudMix instead integrates data centers, laaS, private cloud and other related services to allow customers to move data and applications between legacy platform, private and public cloud, while providing security, availability, agility and automation.



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Data Points

Numbers Worth Noting

By Martin Vilaboy

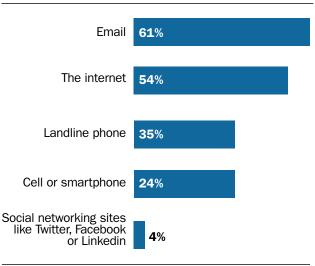
10,000

The maximum theoretical downlink speed, in Mbps, expected for 5G wireless technology, according to GSMA. To put in perspective, 100 Mbps is the maximum theoretical of standard 4G/LTE.

BLOCKING & TACKLING

Social media gets the buzz, but email still does all the work. Online workers in the U.S. overwhelmingly site email as being "very important" to their jobs versus just 4% who say the same about social networks, according to a Pew Research Center study.

Percent of working internet users who say each is "very important" to doing their job ...



Source: Pew Research Center

35

Percentage of IT services today that are delivered totally or partially by cloud, according to a CDW survey. Of those, 54 percent migrated from traditional delivery.

VENDOR CONTENT KINGS

Product brochures and white papers are considered by B2B technology buyers as the vendor-produced content that is most influential toward a purchase, according to a survey from Eccolo Media. The vendor content type seen as being least influential on buying decisions are tweets (4%).

Content Types Ranked as the Top Five Asset Types Being Very Influential

Product brochures	39%
White papers	33%
Case studies/success stories	31%
Detailed technology guides	23%
Competitive vendor worksheets	22%
Video/multimedia files	17%
Webinars	16%

Source: Eccolo Media

TOP OF MID-MARKET MINDS

Cloud computing and mobility remain the top IT priorities among mid-market firms in 2015, according to surveys by Techaisle, but budget constraints and managing that mobility top the list of challenges. The number one "business issue" among mid-market firms, not surprisingly, is reducing operational costs.

2015 Top 10 Mid-Market Issues, Priorities, Challenges

Top 10 Business Issues	Top 10 IT Priorities	Top 10 IT Challenges
Reducing operational costs	Cloud computing	Budget constraints
Increase profitability	Mobility solutions	Excessive data growth
Increase business growth	Server virtualization	Mobile device management
Improve quality of products/processes	Social media	Mobile security
Improve workforce productivity	Collaboration	Data protection/recovery/BC
Managing inventory effectively	Business intelligence	Implementing/accelerating cloud computing
Creating innovative products	Managed services	Regulatory compliance
Managing uncertainty	VDI/DaaS	Data/application integration
Keeping pace with competition	Big data	Energy efficiency and monitoring
Government policies/ regulations	Converged infrastructure	Controlling cost/Justification for IT investment

Source: Techaisle



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NetCarrier's integrated
communications services to
our agent community. We
believe NetCarrier's focus on
the channel, combined with
TBI's deep sales and support
teams, will spell real success
for our agents. Importantly,
NetCarrier's ability to hand off
their services to POTS, PRI, or
SIP over customers' existing
bandwidth makes them very
versatile and an option for the
majority of the quotes we do."

- Ken Mercer, Vice President of TBI.





Roaming into Global Opportunity



By Tara Seals

nternational roaming charges for wireless data and voice calls are a notorious wallet-buster, with horror stories about four-digit cell phone bills after a European vacation or business trip being not uncommon. A handful of high-profile communications giants are now saying that they're paving the way for the end of bill shock – which could be good for agents looking to help out their globetrotting business customers.

Mobile Ecosystem's Mark Lowenstein laid out the problem in a recent column: "Fix International. There has been some headway by operators, but the whole

international ball 'o wax can still be confusing and expensive. Plus, it's still not easy for the occasional traveler to buy a temporary plan on an as-needed basis."

Into the breach come a few players: Sprint, for instance, said that it's dropping the charges for international roaming in Latin America, Europe and Japan. The offer is actually applicable in only 15 countries (Argentina, Brazil, Chile, Costa Rica, El Salvador, Germany, Guatemala, Japan, Mexico, Nicaragua, Panama, Russia, South Korea, Spain and the United Kingdom), and it applies mainly for voice. Data roaming is a different animal, because the "free" aspect only applies to 2G.



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But, there are alternatives for those that need to use a lot of data. Sprint's prepaid international roaming plans, for instance, offer 3G speeds at reasonable day rates: \$15 for a oneday pass and 100MB of data; \$25 for 200MB over seven days; or \$50 for 500MB for 14 days.

Sprint's not alone in zeroing in on international roaming as a differentiator. T-Mobile has rolled out an "un-carrier" offering of no annual contracts, overages or international roaming fees for enterprise users, available via its channel partner program.

The company recently launched Un-Carrier 9.0, or Un-Carrier for Business, in which it promises a "radically new level of transparency, simplicity and value – and upending how business buys wireless."

The carrier said that the average American business can save more than \$5,100 on 20 lines over two years.

"We're going to do for businesses what we've already been doing for consumers," said John Legere, T-Mobile's president and CEO. "Eliminate pain points and force change. The majority of U.S. businesses – a full 99.7 percent - have less than 500 employees and don't have the money or resources to waste debating, negotiating and deciphering the carriers' hidden pricing."

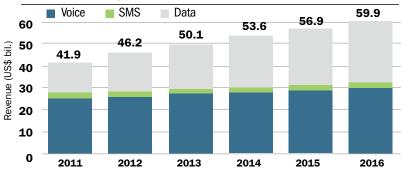
Google's Project Fi, its mobile virtual network operator (MVNO) play, also aims to shake up the roaming world. For one, the service, when launched, will allow users to pay only for the data they use, anywhere in the world.

IDC analysts Brian Haven and Carrie MacGillivray wrote in a research note that Google is banking on industry disruption, enabling seamless handoff between cellular and "a million free, open Wi-Fi hotspots," even though at launch, Google is offering just one device.

"Project Fi could be concerning for all mobile operators – in particular AT&T and Verizon," they wrote. "Google represents the third platform in its truest sense, and is infringing on the mobile operators' turf by riding on borrowed (read: wholesaled) access. With this offering, Google is essentially relegating the cellular network to a pipeline for which to deliver its product, similar to what OTT [overthe-top] providers like Netflix and HBO Go have done to traditional broadband providers. If Google can achieve some meaningful scale, it could significantly disrupt the market, and this business model could emerge as an alternative to the way that consumers traditionally subscribe to wireless service. The question is whether or not Google will try to achieve this scale – as scale is limited by the one device offered, Google Nexus 6."

Gene Munster, a financial analyst with Piper Jaffray, put it more simply: Google's Project Fi is an effort to "motivate other wireless providers to provide cheap

Global Roaming Revenues, 2011-2016



Source: Informa Telecoms and Media, 2013

wireless service that will basically make it easier for us to consume more data." And data (and the advertising that comes with it) is after all the business that Google

Again though, channel partners putting together wireless strategies for their customers would do well to examine the fine print.

"The main thing that strikes me is that it's not especially cheap," said Dean Bubley of Disruptive Analysis. "Yes, \$20 per month is a good headline price for U.S. consumers who have a major-operator plan today, but \$10 per GB isn't really that good a deal, unless you're a mostly Wi-Fi user who just needs a bit of cellular data for maps and emails when you're out and about."

International, though, could be its ticket. Google said that it will offer wireless roaming in 120-plus countries without charging roaming fees. It will cost \$20 a month for unlimited talk/text around the world and \$10 per 1GB of global data – because thanks to a deal with Hong Kong-based Hutchison Whampoa, U.S. customers will be able to travel across international markets for free. The arrangement includes roaming on Hutchison's three operations in the United Kingdom, Ireland, Italy and other markets around the world.

"If this is going to be a unique software/hardware oriented experience, Google could take a stab at improving the experience for users when calling internationally or when traveling," Lowenstein said.

There's also the old-fashioned way to avoid roaming fees: buy a local SIM card in the country you're traveling to. Agents can often strike bulk wholesale deals with overseas distributors in popular markets such as the UK or Mexico. Users simply swap out their SIM cards inside the device. As Lowenstein pointed out, this can be confusing for end users. But, agents can help users determine whether CDMA or GSM is the compatible way to go.

Of course, for those businesspeople traveling to a number of countries on a regular basis, the home carrier's roaming plan may actually be the optimal choice. Again, a channel partner has an opportunity here to play a consultative role.

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Network Resurgence Drives Bandwidth Growth



By Tara Seals

'nternet bandwidth continues to explode - and exponentially. As a snapshot: the 65Tbps of new capacity deployed in 2014 is comparable to nearly the entire amount of bandwidth in service globally in 2011. In fact, new data from TeleGeography reveals that international bandwidth grew 44 percent in 2014, to reach 211Tbps.

Network operators are meeting bandwidth demand by both upgrading the capacity of existing cables and investing billions of dollars in new systems. New cables set to enter service in 2015 include Asia Pacific Gateway, Hibernia Express, the Pacific Caribbean Cable System and Bay of Bengal Gateway. While Africa and Asia have accounted for the bulk of new submarine cable investments during the past three years, the focus of new investment is shifting, with more than \$1 billion worth of new cables expected in Latin America and also on the Europe-Asia route by the end of 2016.

This rapid capacity growth is driven by a changing mix of global network operators, the firm added. Private networks, particularly those of large content providers, account for a growing share of international bandwidth, even surpassing Internet bandwidth on the trans-Atlantic route last year. That's mainly due to the exponential growth of streaming video.

Consequently, network operation has become a core part of the business for some of the largest content providers.

For instance, while Internet service providers (ISPs) get a lot more attention than any of the other players in the streaming video space, there's another piece of the video ecosystem that is becoming absolutely critical to how content on streaming sites such as Netflix finds its way to people's TVs: content distribution networks (CDNs).

A report from BI Intelligence on the video ecosystem finds that CDNs specialize in delivering large volumes of traffic over multiple ISPs, varying geographies and piping it through internet infrastructure. In short, CDNs take the guess-work and heavy lifting out of the complex task of delivering video, in a reliable manner, to millions of viewers served by a variety of different ISPs.

Now, content providers such as Netflix and Google are continuing to build out their own CDN networks - Netflix Open Connect and Google Global Cache, respectively — to better deliver content to consumers and attain more control over how their traffic is routed. Purpose-built CDNs such as Open Connect give streaming video services greater control over the performance and cost of content delivery.

And, with the largest content companies building their own networks, where does that leave traditional network operators? There are plenty of roles to play on the wholesale front. For instance, just like third-party CDNs, content provider-run CDNs must also establish relationships with other network operators. Netflix, for instance, would not have had to establish its individual paid interconnect agreement with Comcast, if it had continued to use a third-party CDN service instead of Open Connect.

However, not all wholesale customers can achieve as large of a scale as content companies, leaving additional, and substantial, demand for purchases of more granular increments of capacity, Telegeography noted.

"Traditional wholesale carrier consortia are continuing to build global cable systems, even though content providers now play a major role in network development on core routes," said TeleGeography research director Alan Mauldin. "While content providers and other large capacity users invest in new submarine cable systems to acquire large blocks of capacity, such as a fiber pair, at low cost, service providers build cables to improve route diversity, reach new or underserved markets, or secure competitive advantage."

Mobile networks are continuing to drive plenty of traffic, as well. According to the latest annual update of the Cisco Visual Networking Index (VNI) Global Mobile Data Traffic

Forecast for 2014 to 2019, the ongoing adoption of more powerful mobile devices and M2M connections, combined with broader access to faster cellular networks, are key contributors to significant mobile traffic growth.

The worldwide shift from basic-feature phones to smartphones – combined with the continued growth in tablets, a resurgence in laptops with tablet-like capabilities as well as expanding machine-to-machine (M2M) applications – are key factors supporting the increasing smart traffic trend. From a global mobile network perspective, 3G is expected to surpass 2G as the top cellular technology, based on connection share, by 2017. By 2019, 3G networks will support 44 percent of global mobile devices and connections; 4G networks will support 26 percent of connections, though will generate 68 percent of traffic.

Last year, 88 percent of global mobile data traffic was "smart" traffic, with advanced computing/multi-media capabilities and a minimum of 3G connectivity, but that figure is expected to rise to 97 percent by 2019.

In terms of topline traffic growth, the Cisco VNI projects that global mobile data traffic will reach an annual run rate of 292 exabytes by 2019, up from 30 exabytes in 2014. That represents 292 times more than all the IP traffic, fixed and mobile, generated in 2000; or 65 trillion images (e.g., 23 daily images per person on earth for a year; or a trillion video clips, which is more than two daily video clips per person on earth for a year.)



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Statflash: Snowballing Capacity Demand and the Internet of Things

By Tara Seals

rom its infancy in the dial-up days of the early 1990s, the modern World Wide Web has become a great unwieldy beast that consumes resources at an alarming clip: by 2019, global mobile IP traffic alone will reach an annual run rate of 292 exabytes, up from 30 exabytes in 2014, according to Cisco's Visual Networking Index.

The stats are pointing to a hockey-stick of consumption, led now by mobile, and in the future by the Internet of Things. In both instances channel partners have significant opportunities to expand their revenue streams.

Global network users will generate 3 trillion Internet video minutes per month – the equivalent of 6 million years of video, 1.2 million video minutes every second, or more than two years' worth of video every second. Most of it from mobile connections.

And the scope of the connectedness is escalating too: more than a third of the world population is now online, and smart mobile devices are growing ever more popular. There will be 5.2 billion global mobile users, up from 4.3 billion in 2014, and 11.5 billion mobile-ready devices and connections.

So what does all of this mean? For one, everything will screech to a jarring halt without the floodgate networks required to carry all of that traffic. On the wireline side, operators are trenching fiber to support 100Mbps – it's a slow process, but it's happening, and the technology is understood. On the wireless side, operator are working to evolve today's 4G networks to meet the challenge of what's coming and to interface with what's happening on the wireline side.

For channel partners, this snowballing cascade of Internet demand and capacity-building means that businesses and consumers alike are changing how they communicate. For instance, in the last 10 years the shift to mobile has seen companies increasingly turn away from the static PC toward on-the-go mobiles, tablets and phablets, in a quest for convenience and productivity. This has given rise for a need to handle data in more responsible ways, particularly as businesses go global.

That said, the IoT will be yet a bridge farther along when it comes to a sea change for businesses. Soon, all manner of devices, from toothbrushes to cars to entire cities, will be connected to the Internet and to each other, representing larger and larger networks containing billions of devices. PwC points out that the price of connectivity itself is declin-

ing, and the enabling devices, such as smartphones and tablets, are themselves becoming less expensive, more powerful and ubiquitous.

Telecom firms and their channel partners are taking advantage of this new user base of people and things by developing a variety of new services, sometimes in partnership with other companies. For example, in the U.S., AT&T is working with IBM on a smart cities program, and Spain's Telefónica offers an IoT product called Thinking Things that lets individuals develop programs to adjust climate and lighting in rooms, offices and buildings currently and in the future to control all of the home and office equipment and data they interact with.

In conjunction with companies such as Nespresso and Coca-Cola, the U.K.'s Orange has launched a machine-to-machine (M2M) communications system. Germany's Deutsche Telekom is supporting the digitizing of manufacturing with its Industrie 4.0 initiative. And an Indian firm, Bharti Airtel, is in a joint venture with the State Bank of India to develop mobile banking apps for people unable to access a local branch. Providing such farsighted services for all kinds of industries, equipment and individual needs is essential for every innovative telecom operator.

Obviously this drives a big future opportunity for channel partners in terms of providing underlying connectivity, but there are ancillary opportunities, as well as rapid evolution in communications is driving new requirements for business outcomes in general.

"Certainly the immense growth in the interconnection of machines, cameras, sensors and devices – the Internet of Things (IoT) – is increasing the connectedness of people and things on a previously unimagined scale," said Jeremy Galbraith, Burston-Marsteller's EMEA CEO and the company's global chief strategy officer. "It is also creating yet more Big Data to be dealt with responsibly and with consumers' best interests at heart."

PwC also pointed out that because many of these new services are managed in cloud-based systems, the digital environment will require a higher level of security and privacy protection than currently exists.

"That potentially presents yet another opportunity — it could be called a duty — for [channel partners] to set the benchmarks and standards for safeguarding the sensitive personal information shared by consumers, companies and machines over these ubiquitous networks," the firm said.



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PTCCORNER

The Accelerating **Evolution of ICT Infrastructure**

By Anthony Rossabi

Editor's Note: The views expressed in this article represent those of the author and Telx and not necessarily PTC or ChannelVision magazine.

Globalization, enterprise mobility, the Internet of Things, big data – none of these critical trends in corporate competition and computing would have been imaginable only a decade and a half ago. Big data finds its roots in business intelligence, which has been around for a while, and enterprise mobility arguably began when the first standard cell phone hit the market.

However, the scale, power, speed and level of competition seen on the global stage today, specifically as they relate to these and other trends, would simply not be fathomable to a professional back in 2000. Now, they are very much realities that all organizations, regardless of industry or region, must embrace and handle proactively.

One of the key themes here is the convergence of information and communications technologies into more holistic and centralized environments. For example, think about how unified communications systems are increasingly hosted in cloud computing environments. Going a step further, much of the average corporate IT budget is now being directed toward software defined networking (SDN) and cloud computing assets.

None of the trends mentioned above would really be possible, or at least come with the capability to thrive, had legacy IT still been the only real form of infrastructure when they emerged. This includes globalization, as information sharing and cross-border competition would simply not be where it is today without the robust digital environments to which so much of the world now has access.

For evidence, consider a Data Center Knowledge article from April 2015, which cited 451 Research's projections that the colocation data center market will grow significantly in the next two years. This will result in 40 million square feet in global footprint growth, and revenue will increase from \$22.3 billion this spring to \$36 billion by 2017, a 50 percent increase in revenues over just two years.

If that is not enough, ESG Research's Jon Oltsik published an article this May in Network World to describe



some of his firm's findings. They included an estimate that 68 percent of mid-market and large enterprise firms are using software-as-a-service currently, while 41 percent are using infrastructure-as-a-service, and 35 percent have deployed platform-as-a-service. Cloud computing markets are flourishing, to say the least.

Finally, it is not just nameless groups of organizations and enterprises making changes to their ICT infrastructure. Also in April, Verizon released a public statement regarding its work with several major ICT players to migrate to a software defined networking infrastructure. Considering the fact that this is one of the more powerful telecommunications players, it should be clear that the market is transforming from top to bottom.

Most of the changes taking place are truly needsbased, as service providers and telecom companies need to handle price wars, to meet expectations of increasingly demanding clientele and to navigate more competitive landscapes than ever before.

Dynamic and futuristic cloud ecosystems are being erected, SDNs are becoming vital to everyone's future growth, colocation is gaining serious traction and global, borderless competition and corporate operations are now realities. It should not be surprising the already massive and accelerating demand for these modern components of infrastructure is ushering in a new era of competition

between vendors, developers and service providers.

As necessity is the mother of invention, let's take a deeper look at why ICT infrastructure is evolving so quickly, and then dive into how the relevant innovations are playing out on a global scale.

Even if you are not all that keen on buzzwords, two that have gained real substance in the past few years have been "fast" and "agile." For the purposes of this discussion, let's also throw "lean" into the mix.

In short, the most successful entities in the private sector today tend to be the most agile, which allows them to become quicker in their approaches to new trends and opportunities. The lean aspect fuels agility and speed, as financial and operational restraints will be eased given the eradication of waste.

These are the firms that survive, and often thrive, given the immense volatility of the global economy, as well as the speed with which preferences and demands change on a large scale.

Those trends mentioned in the beginning of this article – globalization, enterprise mobility, the IoT, and big data – have arguably come with the biggest impacts to the ways in which enterprises and other organizations go about ICT infrastructure provisioning. This is because they have among the most complex network, storage, access, security, uptime, and cost control demands.

Try to envision a small business in a rural area embracing enterprise mobility with traditional ICT frameworks; we bet you cannot, because it would not be possible. Cloud computing, SDN, colocation and other advanced approaches to ICT infrastructure have not only made it possible for most entities to embrace enterprise mobility and other critically important trends, but do so in a fast, agile and lean fashion.

Take public cloud as an example, which will generally be an operational expenditure rather than a capital expenditure, easing what would traditionally be massive strain on budgets when a firm needed to overhaul its IT. Companies also will almost always pay for only what they need, rather than going overboard.

The speed with which public cloud solutions — including laaS — can be deployed in an organization once the final contracts have been signed is also breathtaking. Whenever the firm needs to adjust its provisioning, such as situations in which demand either spikes or drops, it can do so with far less trouble than trying to return or replace physical equipment.

The cloud strengthens corporate agility, efficiency and speed for other reasons, while colocation data centers and SDNs come with similarly positive impacts on these characteristics of operations. With respect to those major trends discussed above, these advanced infrastructure options further improve a firm's ability to embrace, optimize and capitalize on all of them.

Just as a note here, ICT is the crux because of how quickly market competition has become rooted in the digital space.

This really only represents a minor part, but Statista explained that global ecommerce sales surpassed \$1.2 trillion in 2013 between business and consumers alone — not even

factoring in B2B. The segment of total gross domestic product that digital commerce comprises is growing very fast and is expected to accelerate further.

With the global economy seemingly moving in the right direction, as well as the fact that another major recession can strike at any time, there are so many opportunities and risks out there today.

To capitalize on opportunities and mitigate risks in stride, fast, agile and lean technologies are needed, and leading players in ICT markets are making it happen.

Now, while all of the above assertions and explanations should be enough to illustrate how complex, demanding and rapidly evolving ICT infrastructure truly is, we did not even go into other emerging trends. More efficient data center technologies that use renewables and minimize carbon footprints represent one major movement that is beginning to take shape.

Multi-tenant cloud computing environments are being leveraged to reduce costs on an individualized basis, while more valuable and rewarding colocation and interconnectivity environments are being erected by leaders in the field. Add to this the fact that so many telecom companies and others are beginning to migrate to SDN infrastructure, and the direction in which the market is moving should be clear.

Telx's latest strategies, objectives and achievements represent how all of these matters are converging. Take, for example, the 451 Research report on the company that discussed Telx's MarketplacePORTAL and other solutions, as well as its improvements to service level agreements that now guarantee 100 percent uptime and 24-hour cross-connect provisioning.

This was made possible by the advancement of data center, colocation and cloud computing facilities strategically positioned in central commercial hubs. 451 Research's Kelly Morgan noted that Telx's decision to start 2015 with two expansions in its leading market of New York will likely propel it toward the expected 20 percent year-over-year revenue growth this year.

This involved the Telx Trifecta of data center facilities – NYC1 in Tribeca, NYC2 in Chelsea and NYC3 also in Tribeca, which have dramatically increased the connectivity, power and space it can now offer to clientele. These and other facilities include densely interconnected meet-me room facilities that help bring clientele together.

Furthermore, the Telx Cloud Xchange ecosystem of public, private and hybrid cloud solutions, as well as managed services, gives customers the edge when it comes to provisioning, procurement and deployment.

In the coming years, businesses will need to ensure that they are leveraging the most advanced, efficient, affordable and powerful ICT infrastructure to survive and thrive. Colocation, cloud computing, SDNs and other advanced data center options will be at the center of progress for years to come, regardless of whether trends tie back to IT or telecommunications.

Anthony Rossabi is Executive Vice President of Marketing, Sales & Strategy at Telx.

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According to Frost and Sullivan, the cloud contact center market is growing at almost twice the rate of premises-based contact center systems (11.6 percent versus 6.1 percent). And no wonder: moving a contact center to the cloud has a number of benefits in terms of flexibility. It allows customer service agents

and supervisors to be in any location and allows companies to scale up to manage peak or seasonal demands – a huge benefit in the retail and entertainment sector, in particular. In addition, cloud-based contact centers support business continuity and remote agent strategies.

There's also cost-efficiency to consider. A cloud service solution eliminates the need to maintain premises-based contact center infrastructure or to download thick clients

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on individual agent endpoints, which can provide significant management efficiencies.

Avaya, for instance, is collaborating with Google on a cloud-based solution, dubbed the OnAvaya Powered by Google Cloud Platform. It includes a subscription-based license and the customer engagement OnAvaya software – from there, users can provision a Chrome device and a head-set. Customer service reps will be able to access the Customer Engagement OnAvaya agent and supervisor desktops with a Google Chrome device and communicate through a WebRTC-enabled interface and headset.

In the U.S., certified Avaya and Google business partners and Google for Work partners authorized by Avaya will be able to sell the solution.

"Avaya is bringing its customer engagement technology

leadership to midmarket companies with an easy-to-use subscription service," said Joe Manuele, senior vice president and general manager of global cloud services at Avaya. "Through the power of Google Cloud Platform, Avaya is providing a simple and scalable foundation that allows customers and partners to deploy contact centers faster, and agents to work from anywhere."

"We continue to see our customers transi-

tioning to cloud-based offerings to speed the implementation of business-critical customer engagement services," said Tony Bianco, president of the cloud computing division at Onix, one of the first partners to pilot and offer the platform. "This offer from Avaya, working with Google, eliminates installation complexity and provides us with access to the industry's leading contact center software-as-a-cloud service. We anticipate that customers in a variety of industries will be very excited about this product offering."

These traditional benefits are critical talking points in the sales process. But there's also a benefit (and additional value for the channel partner) when it comes to providing differentiating, omnichannel, personalized customer service.

IT'S A MULTICHANNEL WORLD

A January 2015 customer experience survey examined consumer perceptions of service while making online or phone purchases of more than \$25 in the previous six months. The study, conducted online by Harris Poll on behalf of inContact, found that consumers expect a personalized, omnichannel customer journey that includes agent service continuity and choice of channels for follow-up communications.

In order of importance to consumers, preferred agent-sup-

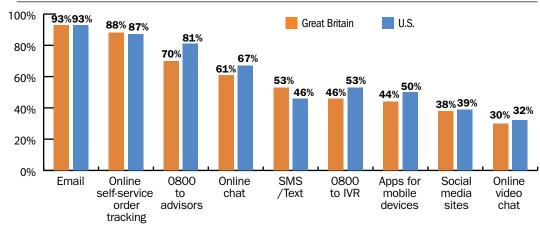
ported channels include: email (93 percent); 1-800 to live reps (81 percent); online chat (67 percent); apps for mobile devices (50 percent); SMS/text message (46 percent); social networking sites (39 percent); and online video chat (32 percent).

When feeling dissatisfied with an order, the majority (81 percent) of U.S. adults prefer assistance from a live representative via phone or online chat rather than using email or online self-service – but, they want these other channels available too.

According to the findings, 43 percent of U.S. adults who made at least one purchase online of more than \$25 during the last six months had interacted directly with a company representative at least once, with an average of two interactions. When purchasing via phone, 84 percent of buyers were in touch with a company representative an average of five times.

Consumers Expect Multichannel Choices

Consumers who think these channels are important for service when purchasing online



Source: Harris Poll, inContact

"We set out to understand how shoppers interact with companies when they are making purchases online or via phone," noted Paul Jarman, CEO of inContact. "Consumers still frequently turn to agent-assisted channels in addition to using selfservice options during different stages of the purchase cycle, which makes the contact center a vital link to the customer experience when it matters most – when they are buying."

A FOCUS ON PERSONALIZATION

Given this expectation for multichannel communication, it's perhaps unsurprising that personalization is a key to loyalty and a good experience for consumers.

According to the InContact research, a full 65 percent of U.S. adults expect customer service reps to know their purchase history regardless of method of communication (e.g., phone, chat, email). And, there's a need for more focus on transition times. About two-thirds (67 percent) expect to be able to call the same company representative they worked with previously if they had an order or service issue. And research from Aspect Software found that nearly all (96 percent) of the consumers surveyed said when contacting customer service about the same issue, they should be able to pick up where they last left off, regardless of channel.



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Aspect in fact found that the top customer service frustration for consumers today is having to repeat themselves multiple times to multiple people via multiple channels – ahead of being transferred and ahead of not getting any issue resolution at all. Essentially, any customer service engagement, whether with an agent or through self-service, if done in isolation from a customer's interaction history or live-service engagement, can create consumer frustration.

The InContact study found that the stakes are high: it revealed that 86 percent would be very likely to switch to another company in the future after a bad customer service experience. "Companies need to be more intentional about the omnichannel journey or face the consequences of increased dissatisfaction and churn," Jarman said.

CONTEXTUAL RELEVANCE

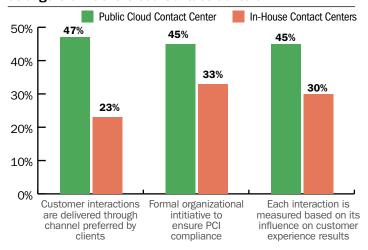
One of the benefits of a cloud-based contact center strategy is the ability to wrap in other IP-based functionality by integrating customer experience software.

For instance, Aspect has tackled the contextual issue with Aspect Experience Continuity, available in a cloud-based configuration. It's an intelligent customer interaction platform that provides context and continuity for those times when customers move from self-service to live-service, switch between service channels, or migrate between proactive outbound communication and inbound service inquiries.

Connected and contextually linked service gives customers quick and convenient access to information when needed, and can also provide quick ROI for businesses that can focus their contact center staff on more elaborate inquiries and customer retention efforts.

As an example, consider an exchange about a policy claim between a customer and their insurance company. The customer makes a call outside of business hours and interacts with the IVR, inquiring about a claim, but doesn't get all the answers they want from the automated system. The Continuity Server stores data about this interaction so the next day the insurance company takes action based on this information and calls the

Strengths of Public Cloud Contact Centers



Source: Aberdeen Group

customer back, asking them if they'd like to pick up where the IVR conversation had left off.

"With the proliferation of available customer care channels in this age of pervasive mobile computing, a smooth handover between channels such as mobile app, IVR or Web site, or when switching from self-service to live-service, is more crucial than ever to providing excellent customer service," said Spence Mallder, CTO and general manager at Aspect. "We call it 'Experience Continuity."

By storing context cookies in Aspects' Continuity Server during the customer journey, customers can experience continuity when attempting to complete an interrupted transaction either at a later time, or on a different channel, explained Mallder. "If executed effectively, it significantly reduces the age-old complaint of customers having to repeat themselves."

Also, now out of stealth mode, software startup Altocloud is prepping a commercial launch of its predictive communications platform for customer service.

The hosted platform takes aim at boosting customer sales and engagement with a combination of machine learning and real-time communications. The idea is to intelligently identify and profile an online visitor and deliver tailored chat, voice, video and content to that customer. In doing so, the platform makes real-time decisions such as "will connecting this prospect to this sales representative now help them purchase today, or should we simply make a recommendation?"

"We are a digital business driving value through our digital and self-service channels," said Steven Wastie, CMO at AppDynamics, which is a beta customer for the platform. "Altocloud predictive communications allows us to profile and engage prospects where they are – online – according to their personas and behaviors to improve customer experiences and sales conversion."

To that end, the software-as-a-service play also can integrate with existing marketing automation and e-commerce platforms.

"There is a better route to digital customer engagement than yesterday's 1-800 numbers, random chat pop-ups and disjointed telephone conversations," explained Altocloud CEO Barry

O'Sullivan. "Our platform enhances existing marketing and sales software so that companies doing business online can reach out to prospects at a time when they're most interested, to drive increased sales."

Bottom line? The cloud offers many perks that channel partners can talk up to their clients, both prospective and existing. And being armed with the knowledge of key pain points – i.e. the need to enable a customer interaction trail that provides channel-agnostic context to the service rep – can be a true differentiator in the rapidly developing contact center space.

"Our research shows that customers, on average, use more than four different self-service or live-assist channels in order to complete their e-commerce tasks," said Dan Miller, lead analyst at Opus Research. "Rapid recognition of each customer's intent within the context of an ongoing conversation shortens each step, promotes loyalty and creates a more pleasing experience for both customers and their selected agent."



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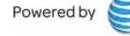












Buyer's Choice



Purchase factors varied for small business VoIP

By Tara Seals

osted PBX and unified communications (UC) services are a growth market that has moved well beyond early stages, with revenue on track to grow 13 percent through August and positive activity in every major geographic region, according to Infonetics. And, small businesses will be a critical growth element in the market, especially in the cloud space.

Infonetics expects continued strong worldwide growth for the cloud PBX and UC market during the next five years, projecting it will reach \$12 billion in 2018 with 62.6 million seats in service.

"While sales of premises-based PBX systems have been stagnant to declining over the past few years, the market for cloud services continues to expand with businesses worldwide seeking out hosted alternatives,"

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Technology Adoption Lags for Small Business

Small business owners are facing significant headwinds when it comes to adopting new technologies, network security and staying connected with their customers in today's highly competitive market.

According to Time Warner Cable Business Class' second annual small business technology survey, security remains a major area of focus and continued education is needed to help small business owners understand the offerings and benefits of outsourced security solutions. A full 27 percent of survey respondents said that securing their network from external threats is their biggest technology challenge today.

About a third – 33 percent – of small business owners manage their own network security solutions, while 40 percent use a managed security network solution from a third party. Unfortunately though, 27 percent of small business owners do not have a security solution in place.

Other technology challenges facing small business owners today include the fact that 32 percent find that keeping up with the latest technology and upgrade trends is the greatest challenge. Slow Internet was identified by 27 percent of respondents as a key challenge, and 26 percent of small business owners have a tough time dealing with securely backing up their data.

"Leveraging new technologies by small businesses is critical for their ultimate success," said Maureen Link, group vice president for small business at Time Warner Cable Business Class. "Small business owners are being stretched and challenged to meet the growing demands of today's consumer. Modern technology deployments and services allow them to provide a memorable experience while maintaining the trust and business of customers. Our latest survey has also shown that small business owners are focused on keeping their doors open and growing their business, not technology. We need to continue to engage with our customers on the solutions out there that will help enable them to exceed their business goals."

Further data points have to do with growth areas. Social media continues to be a growth opportunity for small business owners when it comes to connecting with customers and prospective customers. Facebook is the social platform of choice for small business owners, with 60 percent of respondents using it regularly to promote their business and connect with customers. LinkedIn is the second most, used platform at 28 percent.

They're making some progress here: 60 percent of small business owners use social media to attract new customers to their business. But 63 percent of small business owners do not use social media in order to have a better understanding of their customers.

The survey also showed that Wi-Fi for customers can provide higher rates of customer satisfaction when offered by small businesses: 74 percent of the small businesses that do offer Wi-Fi see business benefits from a higher rate of customer satisfaction, repeat business and more time and revenue spent within their business. Yet, most small businesses (68 percent) do not provide free Wi-Fi to their customers today.

"As the world and consumers become more connected, businesses need to continue to understand and implement technology that makes their business more secure, efficient and attractive to customers," said Brian Allen, GVP and chief security officer for legal and security at Time Warner Cable Business Class. "The stats from our latest survey show that small business owners are focused on their core business, while we need to continue to educate and engage them on cost-effective ways to protect their business from the growing threat of security attacks and technology disruptions."

noted Diane Myers, principal analyst for VoIP, UC and IMS at Infonetics Research.

Hosted VoIP services in particular have hit their stride, experiencing broad adoption among small, medium and large enterprises.

That said, the competitive landscape for business services is highly fragmented, with an increasing number of PBX and unified communications vendors, enterprise agents, system integrators and resellers expanding into the market along with traditional service providers. The biggest challenges for businesses evaluating hosted solutions are the wide variety of options available and inconsistent billing structures across the industry.

For those channel partners looking to tap the small business market effectively, it pays to understand what's driving interest – and purchasing decisions – in this segment.

COMMUNICATIONS NEEDS DIVERSE

Small business VoIP is one significant growth area, with thousands of organizations looking for the right voice or unified communications service that can converge audio and data. According to a recent survey from Software Advice, more small business buyers already use VoIP service (36 percent of the sample) than any other type of voice service (POTS usage is at 24 percent, and PRI usage is at 11 percent) – with many, many others evaluating the purchase of a replacement product.

The study also shows that small business priorities are varied.

For instance, buyers view call forwarding as the most critical PBX functionality. Indeed, more request call forwarding (29 percent) than even voicemail (25 percent) – a staple of small-business communications – making it the most requested functionality in the report. Most of the buyers who request call forwarding say they want to send calls to mobile devices. Another 21 percent seek PBX systems with mobile compatibility.

Some businesses also value call reporting (7 percent) and monitoring (6 percent) functionality, which are commonly used by call centers. Increasingly, call centers want the information logged on call reports about inbound and outbound calls, including phone numbers and call length, served up in real time, along with the ability to monitor calls without agents' knowledge. Many of those buyers that already use cloud-based phone systems, in particular, request call reporting in the form of visual displays known as dashboards.

Other businesses are interested in integrating VoIP software with other kinds of business software (6 percent). Of these buyers, three-quarters specifically want integrations with customer relationship management (CRM) systems, which help businesses store, organize and analyze data related to customer interactions. For instance, call centers often integrate phone systems with CRM systems so agents can instantly view customer data during a call.

Another interesting trend is the need for a centralized phone-system setup (cited by 7 percent). Some of these buyers work at organizations with multiple locations that each have their own PBX system. These multi-vendor setups can



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"We are very grateful for the recognition from ChannelVision magazine, and we can't wait to continue pushing the boundaries of innovation in 2015." — Nicholas Aldi, CFO/COO, Telispire



create problems, such as expensive per-minute rates and a lack of routing functionality for calls between locations. Other buyers work at organizations that are opening new locations, and want to replace existing systems with a new one that will be deployed uniformly across the company.

VoIP is helping buyers reduce their overall number of lines. It allows businesses to provision lines more flexibly, because services are priced according to the average number of employees simultaneously on the phone, as opposed to the total number of employees. Small businesses with 20 to 49 employees are making particularly good use of this cost-saving characteristic of VoIP technology, suggest the findings from Software Advice.

To satisfy this varied slate of requirements, cloud system adoption is becoming more widespread.

"The adoption rate for cloud systems among small businesses is nearly even with those for on-premises IP PBX systems and legacy PBX systems," Software Advice said in the report. "Many buyers move to the cloud to save money and avoid the hassle of updating and maintaining their phone systems themselves, though some buyers prefer to manage their own systems and opt for on-premises solutions."

PURCHASE DRIVERS FOR SMALL BUSINESSES

Communications needs are one thing, but when it comes to actually pulling the trigger to purchase technology, the evolution of VoIP sales has been driven by the organizational needs of the customer. This trend is most obvious in the market for UC software.

There are thousands of small business organizations now looking for the right voice and unified communications service. In a look at the top purchase drivers shaping the market, budget, call-quality and uptime issues turn out to be relatively insignificant, said Software Advice. That suggests that most buyers looking for VoIP systems already receive reliable service with satisfactory audio quality at a decent price.

Instead, the highest percentages of buyers seek new phone systems because they need a more scalable solution to accommodate growth (15 percent), or need to replace an aging system (14 percent).

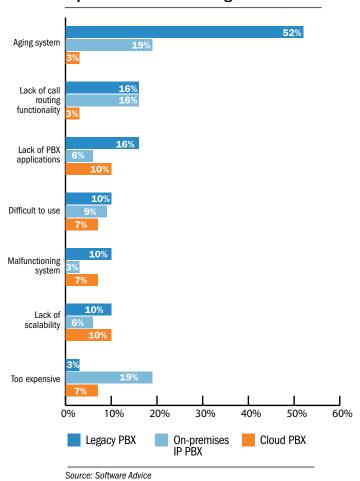
The vast majority of buyers seeking to replace aging systems are using legacy PBX systems with PRI (52 percent) and/or POTS service (36 percent). Almost one-fifth (19 percent) of the buyers in the Software Advice sample report difficulties with aging on-premises IP PBX systems.

First-generation IP PBX systems from the early 2000s generally don't have the dramatic problems that plague aging legacy PBXs from the late '80s and '90s (which lack support, qualified technicians, replacement parts, etc.). That said, some buyers still complain that their older on-premises IP PBX systems don't offer the functionality of newer ones, and that they're more challenging to use.

For instance, one buyer with an on-premises IP PBX purchased in 2005 complains, "We have an auto-attendant, but it's difficult to use. We have remote checking of voicemail, too, but it's difficult to use and program."

Many businesses also have the need for a centralized phone-system setup (cited by 7 percent). Some of these buyers work at organizations with multiple locations that each have their own PBX system. These multi-vendor setups can create problems, such as expensive per-minute rates and lack of routing functionality for calls between locations. Other buyers work at organizations that are opening new locations and want to replace existing systems with a new one that will be deployed uniformly across the company.

By Current Phone System Type: Top Reasons for Evaluating New VolP



Also, businesses relying on cellular service run into difficulties scaling their systems more frequently than other groups in the sample. This is likely because only 1 percent use a "virtual number system," which adds a business line to users' personal mobile devices. Businesses relying on cellular service don't have a unified phone system, but rather, work using just a collection of employees' personal devices. This is a ripe opportunity for UC.

According to the FCC, 15 percent of all American businesses have now adopted VoIP and UC. And the Software Advice findings indicate that many small businesses are eager to jump on the bandwagon. Understanding what motivates buying behavior can be invaluable to capitalizing on the opportunity.

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Unified communications

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VoIP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR Colocation/Data Center services

Email Ethernet services Integrated access Managed network services Private line, Point to point

Storage Support/Other Services:

Billing/05 Expense/Mobile management

113 S. Airport Rd. Suite A Traverse City, MI 49686 231.933.9744 (voice) www.anavontech.com
Contact:Russ Madsen

rmadsen@anavon.net **Primary Underlying Providers:**

123Net Charter Cynergy Mitel NetSolutions Telarus TelNEt Windstream

Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking

VoIP Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Integrated access Managed network services Private line, Point to point Security/Firewall WAN transport
Web Hosting
Wireless data access
Support/Other Services:

Installation Premises systems/gear

Associated Telecommunication

Network (ATN) 10080 Caroll Canyon Rd. San Diego, CA 92131 858.637.5700 (voice) 858.637.5720 (fax)

www.atn-online.com
Underlying Providers:

AT&T ATN CenturyLink Verizon

Voice Services: POTS lines

Centrex

Data/Network Services:

Access (dial-up, DSL, cable. T1)/T-1 Access (DS0-0Cn) Private line, Point to point

Association Resource

Group (ARG) 7926 Jones Branch Drive Suite 1150 McLean, VA 22102 703.734.3500 (voice) 866.371.7982 (fax)

www.myarg.com
Contact: Greg Praske
gpraske@assnresource.com
Primary Underlying Providers:

Allied Cogent Cox Level3 Microsoft PGi Sprint Verizon Windstream

Voice Services:

Conferencing IP Telephony Mobile services POTS line

SIP Trunking Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR

Colocation/Data Center services Ethernet services Integrated access Private line, Point to point Support/Other Services Expense/Mobile management

Atrion Networking Corp. 125 Metro Center Blvd. Warwick, RI 02886 401.736.6400 (voice) 401.633.6766 (fax) www.atrioncarrierservices.net inform@atrion.net

Primary Underlying Providers:

Comcast Level 3 Lightower New Horizon Tierpoint Towerstream Verizon Windstream

Zayo Voice Services: Conferencing

Dedicated local/LD Hosted PBX SIP trunking VoIP

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data center services

Dark fiberÉthernet Infrastructure/platforms Managed services MPI S

Private line, Point to point Security

Storage Virtualization

Avant Communications 153 West Ohio St. Suite 500 Chicago, IL 60654 877.312.AVANT (voice) info@avantcommunications.net www.avantcommunications.net Primary Underlying Providers: 365 Data Centers AccessPoint Allied

Ascent T&TA Business Only Broadband CallOne CenturyLink Comcast ComLink CoreSite

DataPipe Digital Realty dinCloud Enventis Equinix Eunetworks **FvolveIP** Expedient Involta

FiberLight FiberTech First National GSG Hosting Hudson Fiber Immedion inContact IntelePee InterCall Internap Internap ITEMize

KDDI Latisvs Layered Tech Level 3 Lightower FiberNetwork

LiveOps Masergy Mosaic Networx NaviSite NetWolves Ngenx Nitel **Nscaled** OneStream OpenText Pacnet **PCCW**

Peak10 Phoenix NAP OTS Raging Wire RapidScale RootAxcess Server Central ShoreTel

Singlehop Hosting SingTel SoftLayer

Southern Light Sprint Steadfast Sunesys Sungard Telefonica

TeleHouse Telx Thinking Phone Networks

Time Warner Cable tw telecom Unitas Global US Signal Verizon Viawest West IP Windstream

YourLink Zavo

Voice Services: Conferencing Dedicated local/LD Hosted PRX Mobile services Prepaid voice/data SIP trunking VoIP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR Colocation/Data Center services

Dark Fiber
Desktop virtualization Ethernet services Hosted email Hosted infrastructure/platforms

Hosted Office IT services Integrated access International access
Managed network services

MPLS VPN
Private line, Point to point
Security/Firewall Storage Virtual servers

WAN optimization Web hosting Wireless data access

BCN Solutions Express 254 S. Main St. 4th Floor

New City NY 10956 800.411.3611 (voice) www.bcnsolexp.com

Contact: Mike McCrosson agentsalesmanager@bcnsolexp.

com
Primary Underlying Providers:

AT&T CenturyLink Charter Comcast Cox Earthlink Fairpoint Frontier Level 3 Lightpath/Optimum Megapath Sprint

Time Warner cable TW Telecom Verizon Business Windstream

XO Communications
Voice Services:

Conferencing Dedicated local/LD Hosted PBX

Mobile services Prepaid voice/data SIP trunking VoIP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR

Colocation/Data center services Data storage/analysis

Ethernet services Hosted infrastructure/platforms Integrated access Managed network services

MPLS VPN Private line, Point to point WAN optimization

WAN transport Support/Other Services:

Billing/OSS (See ad page 40-41)

Business Communications

ent (BCM) Management 521 Fifth Ave. 14th Floor New York, NY 10175 800.543.4226 (voice)

www.bcm-tel.com
Contact: Frank Wassenbergh newpartners@bcm-tel.com
Primary Underlying Providers:

AboveNet ACC Business Airband **Broadview Networks** CenturvLink Cogent Comcast

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Rainbow Broadband RCN Business Savvis ShoreTel Sprint TelePacific

Terramark Time Warner Cable TowerStream tw telecom Verizon

Webex West IP

Telx

Xigo Now XO Zayo Voice Services:

Windstream

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

BC/DR Colocation/Data Center services Dark Fiber Desktop virtualization Ethernet services Hosted email
Hosted infrastructure/platforms

Hosted Office IT services Integrated access International access

Managed network services MPLS VPN Private line, Point to point Security/Firewall

Storage Virtual servers

WAN optimization

Web hosting
Wireless data access
Support/Other Services:
Billing/OSS

Business services
Expense/Mobile management Installation

IT Integration services Premises systems/gear

Belmont Telecom, Inc./ dba Long Distance Post PO Box 481

Belmont MA 02478 617.489.5952 (voice) 617.812.0370 (fax)

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sales@ldpost.com Services Offered:

Dedicated LD International Mobile services Prepaid voice/data Virtual office

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Voice Services: Dedicated LD/local

Prepaid

Data/Network Services: Access (DS0-OCn)
Private line, Point to point

Bridgepointe Technologies 1900 S. Norfolk St. Suite 305 San Mateo, CA 94403 650.701.1481 (voice) 650.294.4809 (fax) info@bpt-corp.com

www.bpt-corp.com
Underlying Providers: ACC AireSpring

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LoopUP Masergy

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Samsung

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T-Mobile

Toshiba tw Telecom UCN

Verizon

Windstream

Voice Services:

TNCI

Switch and Data

Telnes Time Warner Business Class

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ACC Business Access Point

ww.carrierconsulting.com

Contact: Jonathen Marder

info-la@carrierconsulting.com

Primary Underlying Providers:

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ViaWest Wiline Windstream XΩ Zayo Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP Unified communications Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) BC/DR

Colocation/Data Center services

Hosted infrastructure/platforms Hosted Office IT services

Ethernet services Hosted email

Integrated access

International access Managed network services Private line, Point to point Security/Firewall Storage Virtual servers WAN optimization Web hosting Wireless data access

oadband Nationa

Covad

2770 Indian River Blvd. Suite 501 Vero Beach, FL 32960 772.564.9871 (voice) 772.316.1004 (fax)

www.broadbandnational.com Primary Underlying Providers: Bright House CenturyLink Comcast

DeltaCom Direct TV Frontier Insight MegaPath Optimum Lightpath Packet8 SpeakEasy Suddenlink Time Warner Cable Verizon Windstream Voice Services:

IP Telephony

Data/Network Services: Access (dial-up, DSL, cable, T1)
Access (DS0-0Cn)
Ethernet services Integrated access MPLS VPN

Private line, Point to point Satellite broadband

> 12129 University Ave. Suite 2000 Clive, IA 50325 515.440.0595 (fax) www.carrieraccessinc. sales@

carrieraccessinc.com

Primary Underlying Providers: AireSpring AT&T CenturyLink Charter Comcast Dell Fathom Voice Frontier Communications **Global Crossing** Green Cloud InterCall Klarratee Lightedge Masergy Mediacom MegaPath Nitel Time Warner Business tw telecom

Prepaid voice/data SIP trunking

communications

Access (dial-up, DSL, cable, T1)
Access (DSO-OCn)

Ethernet services Hosted infrastructure/ platforms Hosted Office IT

Integrated access

Managed network

Private line, Point to point WAN optimization

Wireless data access
Support/Other

Business services

Carrier Consulting

531 Main St. Ste. 650

El Segundo, CA 90245 800.987.4000 (voice)

310.640.0635 (fax)

Expense/Mobile management

Data/Network

VolP

Unified

Services:

BC/DR

services

services MPLS VPN

Conferencing Dedicated local/LD Hosted PBX Verizon Windstream Mobile services Voice Services: Prepaid voice/data SIP trunking Conferencing Dedicated local/LD VolP Hosted PBX Unified communications Mobile services

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data Center services Fmail Ethernet services

Integrated access Managed network services MPLS VPN Private line. Point to point

Security/Firewall

Storage
Wireless data
Support/Other Services: Installation Premises systems/gear

Carrierbid Communications 3219 E. Camelback Rd.

Suite 274 Phoenix, AZ 85018 888.706.5656 (voice) 866.338.7594 (fax) www.carrierbid.com

agents@carrierbid.com **Primary Underlying Providers:**

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Conferencing Dedicated local/LD Mobile services SIP trunking

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Cloud computing Ethernet services Managed network services MPLS VPN Private line, Point to point WAN transport Wireless data access

CarrierSales.com 11781 S. Lone Peak Pkwy. Suite 230 Draper, UT 84020 800.838.9500 (voice) 801.838.9501 (fax) www.carriersales.com

Contact:Josh Lupresto jlupresto@carriersales.com Primary Underlying Providers:

ACC Bsuiness AireSpring CenturyLink Comcast EvolveIP Frontier inContact Integra Level3 Masergy Megapath MetTel Momentum PGi Telesphere TNCI Velocity ViaWest Windstream

Voice Services:

Conferencing Dedicated local/LD Hosted PBX SIP trunking Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) Colocation/Data center svs Dark fiber Desktop virtualization Hosted email
Hosted infrastructure/platforms Integrated access Managed network services Private line, Point to point Storage Virtual servers WAN optimization Wireless data access
Support/Other Services:

Energy Expense/Mobile management

11757 W. Ken Caryle Ave. Suite F 406

Littleton, CO 80127 720.515.2866 (voice) www.cloudnexion.com Contact: Jake Cummins jake@cloudnexion.com Primary Underlying Provider: ACC Business Accel Networks Airband AireSpring

Aiubeo Alpheus Communications

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Frnest Fortrust GTT InContact

Integra Inteliquent InterCall Internap

Latisys Level 3 Lightower Lightpath Masergy MegaPath

Metro Optical Netwolves NewCloud

Nitel Peak Colo Rackspace RealLinx Savvis

ServerCentra Sidera SimpleSignal Sprint Staminus

Sunset Telehouse America TelePacific TeliaSonera

Tely Terramark

Time Warner Business Class tw telecom

Unitas Global Verizon Viawest West IP

Windstream YellowFiber

Zayo Voice Services:

Conferencing Dedicated Local/LD Hosted PBX Mobile SIP trunking VoIP

Unified communications Data/Network Services: Access (DSO-OCn)

BC/DR Colocation/Data center Dark fiber Desktop virtualization Hosted email Hosted infrastructure/

platforms Hosted office IT services Integrated access International access Managed network

services MPLS VPN Private line, Point to point Security/Firewall Storage/Data analysis Virtual servers WAN optimization Web hosting

Wireless data acess Support/Other Services:

Business services Consulting Expense/mobile management

CM Group

16 Via Helena Rancho Santa Margarita, CA 92688 949.459.0311 (voice) 949.459.5420 (fax)

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Primary Underlying

Providers: ACC Business Access One Allegiance Telecom Associated Telecom Datalink Networks Electric Lightwave Global Crossing ICC Internap Pac West Sprint

TelePacific

Voice Services:

Conferencing Hosted PBX IP telephony Mobile services POTS lines Prepaid Unified communications/

collaboration

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Colocation/Data center services Ethernet services Private line, Point to point

Web Hosting Wireless data access

Colocation America

9360 W. Flamingo Rd. Suite 110-178 Las Vegas, NV 89147

800.296.8915 (voice) www.colocationamerica.com
Contact: Albert Ahdoot

partners@colocationamerica.com

Voice Services:

Data/Network Services:

Colocation/Data center services Managed services

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www.colotrag.com Contact: Lou Peccoralo lpeccoral@colotrag.com

Primary Underlying Providers:

Colt Cyrus One Interxion Sungard Telx ViaWest

Voice Services:

Unified communications

Data/Network Services: Colocation/Data center services Hosted infrastructure/platforms

Managed network services

Support/Other Services:
Consulting

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888.861.0230 (voice) 336.790.8572 (fax) www.comlinktelecom.com Contact: Rod Randolph info@comlinktelecom.com

Primary Underlying Providers: T&TA

Comcast Earthlink Time Warner Cable Windstream 40 other providers **Voice Services:**

Conferencing Dedicated local/LD Hosted PBX SIP trunking VoIP

Data/Network Services: Access (dial-up, DSL, cable, T1)/T-1 BC/DR Ethernet services Hosted Office IT services WAN optimization Wireless data access

Support/Other Services: Business services Consulting Expense/Mobile management Installation IT Integration services Premises systems/gear

27068 La Paz Rd. Suite 160 Aliso Viejo, CA 92656 949.394.5710 (voice) 949.221.3508 (fax) www.commadvisors.com info@commadvisors.com

Primary Underlying Providers: Level 3 AT&T MegaPath CenturyLink Spring
Spring
Masergy
China Telecom
Tata Communications

Dedicated LD/local

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Ethernet services

Private line, Point to point MPLS VPN

Communication Management 2240 5th Ave. San Diego, CA 92101 800.233.8258 (voice) 619.544.0900 (fax)

www.cmstelcom.com Contact: Tiffany Wolf **Primary Underlying Providers:** T&TA

AboveNet ACC Access Point Airband AireSpring Cbeyond CenturyLink Comcast Copper Conferencing CradlePoint EarthLink **FvolveIP**

Globalinx Granite Ingram Micro Level 3 Lightyear Masergy MegaPath PGi Powernet RIM Sprint TelePacific Tempo TempoPro

Time Warner Cable tw telecom Verizon Windstream

Voice Services: Conferencing Hosted PBX IP Telephony Mobile services SIP Trunking Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Colocation/Data Center services Email

Ethernet services
Hosted Office IT services Integrated access Managed network services MPLS VPN

Private line, Point to point Support/Other Services: Expense/Mobile management

Comtel Communications 4551 Cox Rd. Suite 475 Glen Allen, VA 23060 800.435.1718 (voice) www.comtelcommunications.com
Contact: Ben Humphreys

comtelcommunications.com

Primary Underlying Providers: AboveNet

ACC Business Access Point Allied Telecom American Telesis Broadsmart CenturyLink Coast2Coast Comcast EarthLink EvolvelP inContact Level 3 Magellan Hill Masergy MetTel NetWolves Sawis Simplicity Sprint Verizon Windstream West IP

Conferencing Mobile VolP

Voice Services:

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) Conferencing Email

Ethernet services MPLS VPN Private line, Point to point

Web hosting
Wireless data access
Support/Other Services: Business services Expense/Mobile management IT Integration services

Premises systems/gear Concierge Core Services LLC 4801 S Lakeshore Dr.

Ste. 106 Tempe AZ 85282 888.353.9900 (voice) www.conciergecs.com Contact: Clark Atwood ccs-broker@conciergecs.com

Primary Underlying Providers: ACC Business America On Hold T&TA Birch Communications C7 Data Centers CenturyLink Control Fusion Cox Communications EvolveIP inContact

Integra Telecom

Jive Communications

Mammoth Networks Masergy ON24 OpenText PĠi SimpleSignal Sprint SunGard

Telesphere Telx Time Warner Cable Verizon Wireless Windstream XO Communications Voice Services:

Conferencing Hosted PBX Mobile services SIP trunking Unified communications

Access (dial-up, DSL, cable, T1)
Access (DSO-OCn)
BC/DR Data/Network Services: Colocation/Data center Dark fiber Desktop virtualization Ethernet services Hosted email Hosted infrastructure/platforms Hosted Office IT services

Integrated access International access Managed network services MPLS VPN Private line, Point to point Security/Firewall Storage Virtual servers WAN optimization

Wireless data access Support/Other Services Business services

Consulting Expense/Mobile management

Connectivity Source 7780 Brier Creek Pkwy. Suite 225 Raleigh, NC 27617 919.781.4186 (voice) 866.819.7901 (fax) www.connectivitysource.com partner@connectivitysource.com

Access Point CenturyLink Charter Earthlink Fusion Time Warner Cable Business Class

Windstream

XO

Primary Underlying Providers:

and many more Voice Services Dedicated local/LD Hosted PBX Mobile services SIP trunking VoIP

Unified communications Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) Managed network services MPLS VPN Private line, Point to point

Converged Network Services Group (CNSG) 11016 Rushmore Dr. Suite 180

Wireless data

Charlotte, NC 28277 866.738.1662 (voice) 704.584.0463 (fax) www.cnsg-usa.com Contact: Matthew Harty

info@cnsg-usa.com **Primary Underlying Providers:** ACC Business

Airband Allegiance Merchant Services AT&T Bright House Broadview Networks

C3 Integrated Services Call Tower Cbeyond CenturyLink

Comcast Business Class DC74 DukeNet

EarthLink Entelegent Evolve IP Expereo

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Hosted PBX Mobile services

SIP trunking VoIP

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR

Colocation/Data Center services Dark Fiber Desktop virtualization Hosted email Hosted infrastructure/platforms

Hosted Office IT services Integrated access International access
Managed network services

MPLS VPN
Private line, Point to point
Security/Firewall

Storage Virtual servers

WAN optimization
Web hosting
Wireless data access
Support/Other Services:
Business services

Cost Management Group 5490 McGinnis Village Pl. Suite 100 Alpharetta, GA 30005 800.599.9315 (voice) 678.405.6195 (fax)

www.partnertel.com info@costmfg.com Contact: Chad Fisher cfisher@partnertel.com

Voice Services:

Conferencing Dedicated local/LD Hosted PBX
Mobile services
Prepaid voice/data
SIP trunking

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-0Cn)
Colocation/Data Center services

Ethernet
Hosted infrastructure/platforms
Hosted Office IT services
Managed network services MPLS VPN

Private line, Point to point WAN optimization

Web hosting
Wireless data access
Support/Other Services:

Business services Expense/Mobile management

CPI Communications

4200 University Ave. Suite 300 West Des Moines, IA 50266 515.331.7560 (voice) 515.331.7563 (fax) www.cpitelecom.net Contact: Cale Perry

cperry@cpitelecom.net
Primary Underlying Providers: Alliance Connect CenturyLink Enventis

Frontier MediaCom Suddenl ink Windstream

Voice Services:

Conferencing Dedicated local/LD Hosted PBX

SIP trunking Unified Communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Colocation/Data center Dark Fiber Deskton virtualization

Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access International access Managed network services MPLS VPN Private line, Point to point Support/Other Services:

Business services Consulting

CrosStar Network Solutions 108 West 39th St.

Fourth Floor New York NY 10018 212.997.7676 (voice) www.crosstarnetwork.com info@crosstarnetwork.com

Primary Underlying Providers: AboveNet ACC Business AireSpring American Telesis Broadview Networks Bullseye Telecom

CenturyLink Charter Business China Telecom China Unicom
Coast to Coast Cellular

Cogent Comcast Covad CTI FiberNet

Genesys Conferencing Globalinx

Granite Level 3 Ligthtower Masergy MegaPath

New Edge Networks NTT Communications One Communications

Optimum Lightpath Powernet RCN Sprint Stage 2 Spectrotel tw Telecom Telepacific Time Warner cable T-Mobile

Transbeam Verizon WBS Connect

Voice Services: Dedicated local/LD Hosted PBX

Prepaid voice/data SIP trunking VoIP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Dark Fiber
Desktop virtualization Ethernet Hosted email Hosted enfail
Hosted infrastructure/platforms
Hosted Office IT services
Integrated access Managed network services MPLS VPN

Private line, Point to point Web hosting

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www.ctg3.com
Contact: Tony Cheng

tony@ctg3.com
Primary Underlying Providers:

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Hurricane Electric

Integra

Mammoth Networks ViaWest Wave Broadband Windstream
Voice Services: Conferencing Dedicated local/LD

Hosted PBX Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Dark fiber Email Ethernet services Managed network services MPLS VPN

Private line, Point to point Storage WAN transport

Support/Other Services: Energy services

DataTel Solutions 875 Laurel Dr.

Roseville, CA 95678 888.835.2681 (voice) 925.470.2832 (fax) www.datatelsolutions.com

info@datatelsolutions.com Primary Underlying Providers: ACC Business

AireSpring AT&T Cbeyond CenturyLink Charter Cogent Colotraq Comcast

Cox Datatel Dial 411 Easton

First Communications

Integra ITS Global Crossing Level 3 MegaPath New Edge Nitel

Sprint SureWest Telepacific TeleSphere tw telecom Verizon Windstream

XCast XO

Zayo Voice Services:

Conferencing Dedicated local/LD Mobile services

VAIP Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Colocation/Data center services Content delivery network

Managed network services MPLS VPN

Private line Storage WAN optimization WAN transport
Web hosting
Wireless data access

Support/Other Services:

Expense/Mobile management

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Calibrus Comm-Core CostCrushers Curvature eSuite Fathom Voice Global Risk Management

Green Light

HarborLink Kindred My Force NetOnTheRun Network Intelligence R66T Rapidscale Ringbox SignalPay Star2Star Triple Crown Digital

UNSi US Network Voice4Net Voyport Voice Services:

Conferencing Dedicated local/LD Hosted PBX

Mobile SIP trunking VoIP

Data/Network Services: Access (dial-up, DSL, cable, TI) Colocation/Data Center Hosted email
Hosted infrastructure/platforms Hosted Office IT services Integrated access International access Managed network services MPLS VPN

Private line, Point to point Security/Firewall

Storage Virtual servers WAN optimization

Web hosting
Wireless data access
Support/Other Services:
Business services

Consulting Energy services Installation Legal/Regulatory/Compliance

Digital Planet

Communications, Inc.

178 9th St. Suite 200 St. Paul, MN 55101 651.233.5800 (voice) 651.233.5801 (fax)

www.dpcinc.com info@dpcinc.com **Primary Underlying Providers:** AboveNet

ACC Business Access One AccessPoint T&TA Avaya Broadsky Broadview Networks

Cbeyond CenturyLink Comcast Confertel

Copper Conferencing

EarthLink Eventis Globalinx GTT Integra Integra InterCall Intronis Level 3 Masergy

McGraw MegaPath Netwolves

nGenx One Communications Optimum Lightpath

Polycom Savvis Sophos Sprint Telepacific TeleShere telx

Time Warner Cable TNCI

tw telecom Windstream XΟ Zone Telecom

Voice Services: Conferencing Dedicated local/LD Mobile services SIP trunking

VoIP Unified communications Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data Center services

Ethernet services Hosted email

Hosted infrastructure/platforms Hosted Office IT services Integrated access
Managed network services
MPLS VPN

Private line, Point to point Security/Firewall

Storage
Web hosting
Support/Other Services:

Business services Consulting Installation Premises systems/gear

ECT Telecom

8668 Navarre Pkwy. Suite 105 Navarre, FL 32566 850.664.3071 (voice) 772.325.2297 (fax) www.ecttelecom.com

Contact: Kenny Wilder kenny@ecttelecom.com Primary Underlying Providers: A+ Conferencing **ACC Business** Accel Networks Airband

AireSpring AT&T CenturyLink Cogent

Covad Global Crossing InContact IntelePeer

Level 3 Masergy MegaPath Nitel

Nuvox PCCW PGi Powernet

ShoreTel Sprint

Telecom Recovery TNCI TouchTone Verizon West IP

Windstream

Voice Services: Conferencing Hosted contact center

SIP trunking VoIP Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR

Colocation/Data Center services Email Managed network services MPLS VPN

Private line Virtual desktop Web hosting Wireless data access

Squared Communications

560 E 3rd St. Suite 202 Lexington, KY 40508 859.685.4600 (voice) 859.685.4601 (fax)

www.esquaredcom.com

Primary Underlying Providers:
ACC Business

Airespring AT&T Broadvox BullsEye Telecom Cbeyond CenturyLink EarthLink Ernest Communications First Communications

Granite Insite Business

Itemize

Level 3

MetTel NuVox One Communications Powernet QX.Net Thinking Phone Time Warner cable T-Mobile Verizon XO Communications

Windstream Voice Services: Conferencing Dedicated local/LD

Mobile services

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Ethernet services Integrated access

Managed network services MPI S VPN Private line Security/Firewall

Wireless data access Support/Other Services: Expense/Mobile management

2110 East Rt. Unit 21 Cherry Hill, NJ 08003 856.751.1125 (voice) www.expresswireless.net

Primary Underlying Providers:

Verizon
Voice Services: Mobile services

155 Willowbrook Blvd. Wayne, NJ 07470 973.638.2100 (voice) www.fusionconnect.com
Contact: Toni Campanello tcampanello@fusionconnect.com **Primary Underlying Providers:**

Alpheus Broadview CenturyLink Charter Cable Cogent Comcast

MegaPath COX Cable Deutsche Telekom EarthLink Fauinix

FiberTech FPL Fibernet (FL Power & Light) Hurricane Electric

Inteliquent Level 3

Lightower Fiber Networks LigthPath TelePacific Communications

Time Warner Cable tw telecom Transbeam Verizon

Windstream

Zayo Voice Services:

Conferencing Dedicated local/LD Hosted PBX Prepaid SIP trunking

Data/Network Services: Access (dial-up, DSL, cable, T1) BC/DR

Integrated access Managed network services MPLS VPN WAN optimization

Web hosting Support/Other Services:

Consulting

Installation Premises systems/gear



10333 E. Dry Creek Rd. Suite 320 Englewood, CO 80112 303.865.9000 (voice) 866.709.5800 (fax)

Primary Underlying Providers:

ACC Business Airetel Ajubeo Arkadin

AT&T Avava Bell Canada BroadSky BullsEye CenturyLink China Telecom

China Unicom Cisco Cogent Comcast CoreSite

CyrusOne Data Foundry Digital Realit Dimension Data Equinix Evolve IP Faction

Fortrust Global Capacity Global Cloud Exchange Granite GTT

Hosting.com Inernap Integra Telecom IO Cloud Data Centers Level 3 LiveOps Mammoth Networks Masergy MegaPath Mercury Payment Systems MHO Networks Momentum NaviSite NetFortris Nitel

PhoenixNAP Quality Technology Services Server Central Simple Signal

SingTel SoftLayer Spectrum Business Sprint Sungard Telehouse Telepacific

NTT

PacNet

Peak10

Thinking Phones Time Warner Cable T-Mobile Unisys Unitas Global Vantage Data Centers Verizon Wireless ViaWest

Visage West IP Windstream Wowrack XO

Zayo Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services SIP trunking

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Colocation/Data center services Content delivery network

Ethernet services Hosted infrastructure/platforms Hosted Office IT services

Managed network services MPLS VPN Private line, Point to point Security/Firewall WAN optimization WAN transport

Web Hosting Wireless data access Support/Other Services: Business services Expense/Mobile management IT Integration services Premises systems/gear

5489 Wiles Rd. #301 Coconut Creek, FL 33073 954.623.6300 (voice) www.gstpartners.com Contact: Geoffrey McCarroll geoffrev@gstpartners.com Primary Underlying Providers:

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Prepaid voice/data services
SIP Trunking
Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

BC/DR Colocation/Data Center Email Ethernet services Hosted infrastructure/platforms

Integrated access Managed network services MPLS VPN Private line, Point to point

Storage WAN optimization

Web hosting
Support/Other Services:
Expense/Mobile management

Global Telecom Solutions 1501 6th St. Detroit, MI 48226 313.371.9440 (voice) 313.557.6369 (fax) www.gtsdirect.com Contact: Mark Stackpoole info@gtsdirect.com Primarily Underlying Providers: 123.NET ACC Business

AireSpring AT&T CenturyLink Charter Business Comcast Business Earthlink Grid 4 Level 3 Masergy Telnet Time Warner Cable

US Signal VOXOX Windstream

XO Voice Services:

Conferencing
Dedicated Local/LD
Hosted PBX
Mobile SIP trunking Unified communication

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-0Cn)
Colocation/Data Center
Desktop virtualization Hosted email Hosted infrastructure Hosted office IT services Integrated access International access Managed network services MPLS VPN
Private line. Point to point Security/Firewall Storage Virtual servers WAN optimization Wireless data access

Support/Other Services:

Great American Power

Energy services

Great American Power 320 Centre St. Pottsville, PA 17901 877.215.4140 (voice) 484.229_0707 (fax) admin@greatamericanpower.com www.greatamericanpower.com
Services Offered:

GreenAppX 6000 Fairview Rd. Suite 1200 Charlotte, NC 28210 877.207.9555 (voice) www.greenappx.com Contact: Jim Safran jim@greenappx.com Underlying Providers:

BlueTie DataMotion Global Relay GoMeetNow McAfee McAfee Microsoft Mozy OfficeDesktop Skoot Spontania

US DataVault WebEx Cloud Services: Business Continuity Business Process

Conferencing Remote Email Remote IT management Security/Firewall Virtual Desktop

Green Razor Communications

28030 Dorothy Dr. Suite 302 Agoura Hills, CA 91301 818.309.4000 (voice) 818.309.4020 (fax) sales@greenrazor.com

www.greenrazor.com
Primary Underlying Providers:

AboveNet ACC Business AireSpring AT&T Wireless BCE Nexxia Cbeyond CenturyLink Charter cable Comcast Earthlink Level 3 Megapath Sprint TCAST Telepacific Time Warner cable T-Mobile

tw telecom Verizon Wireless Windstream

Voice Services: Conferencing Dedicated Local/LD Hosted PBX

Mobile Services

SIP trunking Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn)

BC/DR Colocation/Data center services Ethernet services Integrated access Managed network services MPLS VPN

Private line WAN transport Wireless data access

Infolink Communications

2801 Grover Dr. North Greensboro, NC 27455 800.625.2860 (voice) 336.282.7244 (fax) www.infolinktele.com

sales@infolinktele.com
Primary Underlying Providers:

Accel Networks AccuConference Advantix AireSpring Alpheus AT&T Birch Broadsky Broadview Cbeyond

CenturvLink

Charter

Comcast

Appia Arkadin AT&T BCN Telecom Brich BroadSky Broadview

Earthlink Ernest GTT inContact Integra Level 3 Masergy MegaPath NetWolves New Cloud Nitel Optimum Lightpath

Powenet Reallinx StartMeeting Suddenlink Telepacific Telnes

Time Warner Business Class tw telecom

UNSi Verizon Business Vocal IP West IP

Windstream XΩ Zavo

Voice Services:

Conferencing Dedicated local/LD Hosted PRX Mobile services Prepaid voice/data SIP trunking

VoIP Unified communications Data/Network Services: Access (DS0-0Cn)

Dark Fiber Ethernet services Hosted Office IT services Integrated access
Managed network services MPLS VPN
Private line. Point to point Security/Firewall

Support/Other Services: Expense/Mobile management

877.948.3526 (voice)

www.integralchoice.com
Primary Underlying Providers:

ACC Business AireSpring AT&T Birch Broadview Cbeyond CenturyLink Charter ClarityTel DynaLink EarthLink

FiberLight Level 3 Masergy Telepacific Verizon West IP Windstream

XO Voice Services:

Conferencing Dedicated local/LD Mobile services SIP trunking

VolP Data/Network Services: Access (dial-up, DSL, cable, T1)

Ethernet MPLS VPN Support/Other Services:

Expense/Mobile management

1318 Redwood Way Suite 120 Petaluma, CA 94954 800.615.8330 (voice) 707.792.4908 (fax) www.intelisyscorp.com

info@intelisys.com
Primary Underlying Providers:

8x8 ACC Business Access Point

Bright House

CallTower Cogent Cologix Comcast CoreSite Corvisa Farthl ink Equinix First Communications FPL Fibernet

Frontier Fusion Globalinx Granite Green Cloud Icore Networks inContact iNet Communications

Integra IntelePeer InterCall InterNap Jive

Level 3 Lightower Masergy Matrix McGraw MegaPath NetWolves Optimum Lightpath Pacnet PGi RapidScale SAFEView

ServerCentral ShoteTel SimpleSignal SpectroTel Spectrum Sprint Star2Star SuddenLjnk T-Mobile TelePacific Telnes

Telx thinking Phones
Time Warner Cable Business

TNCI Windstream tw telecom UnitedLayer Verizon Windstream

XO Communications Zayo

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services SIP trunking VolP

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO – OCn) Access (DSO – OCH)
BC/DR
Colocation/Data center
Dark fiber
Desktop virtualization
Ethernet service

Hosted email
Hosted infrastructure/platform
Hosted Office IT services
Integrated access

International access

Managed network services MPLS VPN Private line, Point to point Security/Firewall Storage Virtual servers

WAN optimization WAN transport Web hosting
Wireless data access
Support/Other Services:

Expense/Mobile management Installation

Intellex Communications Corp.

Access Point

4551 Cox Rd. #475 Glen Allen, VA, 23060 804.201.4444 (voice) 866.251.2248 (fax) Contact: James Booker

info@intellexcommunications.com www.intellexcommunications.com **Primary Underlying Providers:** ACC Business

Cavalier Telephone MetTel New Edge Networks Primus Sprint Verizon Windstream Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR Colocation/Data Center services

Hosted email Integrated access Managed network services MPLS VPN

Private line, Point to point

WAN optimization Support/Other Services: Billing/OSS Business services

Consulting
Expense/Mobile management Legal/Regulatory/Compliance Location-based services

Testing/Certification

Interactive Telecom Solutions 12 Rt. Ste. 120 Paramus, NJ 07652 Contact: Keith Muller 201.845.5515 (voice) 201.221.7567 (fax)

www.i-telcom.com
Contact: Brett Diamond

bdiamond@i-telcom.com
Primary Underlying Providers: AboveNet ACC Business

AT&T Cablevision CenturyLink Cervalis Cogent

Comcast CoreSite Cox EarthLink Equinix

FiberMedia Global Crossing GlobalNet

Internap io Data Centers

Level 3 Lightower Masergy McGraw MegaPath

Optimum Lightpath Pacnet

RCN Russo Development

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Spread Wireless Star2Star Sungard

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tw telecom Windstream XCast Labs XO

Wireless

Zayo Services Offered:

Hardware Project management Voice

Invictus Converged

Solutions, Inc. 100 South Bedford Rd Mount Kisco NY 10549 888.748.4273 (voice)

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Time Warner Business Class

Voice Services: Conferencing IP Telephony

SIP Origination & termination Unified communications **Data/Network Services:** Access (dial-up, DSL, cable, T1)

Access (DS0-0Cn) Ethernet services Hosted infrastructure/platforms Private line, Point to point Security/Firewall

WAN optimization
Support/Other Services:

Consulting
Expense/Mobile management

Premises systems/gear

PO Box 460099 Denver, CO 80246 303.468.4815 (voice) 303.847.9179 (fax) www.iqwired.net info@awired.net

Primary Underlying Providers:

8x8 A+ Conferencing AboveNet ACC Business Access One Access Point Access2Go

Airband Communications

AireSpring Alcatel - Lucent American Telesis AT&T ATI/InterMetro

BandTel Broad Sky Networks Broadview

Broadvox BullsEye Telecom Cavalier

CBeyond, Inc. CenturyLink Charter Cable ChinaUnicom Cincinnati Bell Cogent Colotraq

Comcast Comstructure Conferencing Advisors

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Data Storage Defero3 Dynalink EasyLink EasyNet

EcoMotion Ernest Communications

Excel Conferencing First Communications foreThought

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inContact

Level 3 Lightyear Masergy

McGraw MegaPath MetTel

MHO NetWolves New Edge Networks

NTT Communications

One Communications PAETEC PCCW PeakColo PowerNet Global Premiere Global CenturyLink Simple Signal

SingTel Speakeasy Sprint

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Sungard TATA TCAST Communications

Telecom Recovery TelePacific Telesphere TelNes

TelX Terremark Time Warner Cable TMC

TNCI Total Call / OPEX TouchToné TSI

TW Telecom US Signal Velocity Networks Verizon Verticomm

ViaWest West IP Windstream XO

Zayo Zone Telecom Voice Services:

Conferencing Dedicated local/LD Hosted PBX SIP trunking VolP

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn)

Colocation/Data Center services Dark fiber

Desktop virtualization

Hosted Email
Hosted infrastructure/platforms
Hosted Office IT services
Integrated access

International access
Managed network services MPLS VPN Private line, Point to point Security/Firewall

Storage Virtual servers WAN optimization
Web hosting
Wireless data access
Support/Other Services:

Consulting
Expense/Mobile management

ITD Solutions Inc. 2 Neptune Road Suite 413 Boston, MA 02128 617.884.2426 (voice) www.itdpartners.com

Contact: Darren Tessitore darren@itdsolutions.net Primary Underlying Providers:

AireSpring

Alteva Appia Communications

AT&T Broadview Networks CenturyLink Charter

DSCI Earthlink Evolve IP Hosting Hostway

Jive Level 3 Microsoft **NaviSite** NEF NeoNova nGenX

PGi Polycom RapidScale Savvis Server Central

Star2Star Thinking Phone Networks Time Warner Business Class

VoXox Windstream XO

Zayo Voice Services:

Hosted PBX SIP trunking Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) BC/DR Desktop virtualization Hosted email

Hosted infrastructure/platforms Hosted Office IT services MPLS VPN Storage

Support/Other Services:



James Communications Corp. 800.745.4170 (voice)

www.jamescom.com Contact: Brad James

brad@jamescom.com Primary Underlying Providers: Access One

Avaya Cbeyond CenturyLink EarthLink Level 3 Mitel Panasonic.

Polycom Samsung ShoretTel Sprint Talkswitch TelePacific Toshiba

Verizon Windstream

Voice Services:

Conferencing Hosted PBX IP Telephony Mobile services POTS line SIP Trunking

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR Email

Private line, Point to point Wireless data access Support/Other Services:

Business services

Energy services Premises systems/gear



King Communications 1566 W. Algonquin Rd.

Hoffman Estates, IL 60192 847.776.7777 (voice) 847.574.7410 (fax) www.kingcommunications.com SelecTel/opportunities.shtml
Contact: Ron Bohm

rbohm@kingcommunications.com
Primary Underlying Providers:
A+ Conferencing

ACC Business

AireSpring CenturyLink inContact Masergy Nitel

TouchTone Communications West IP

Windstream
Voice Services:

Conferencing Dedicated local/LD

Hosted PBX Mobile services Prepaid voice/data SIP trunking
Unified communications/

collaboration

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

Colocation/Data center services Email Ethernet services

Integrated access MPLS VPN Private line, Point to point

Web hosting Wireless data access Support/Other Services: Premises systems/gear

KINGCOM 8060 SW Pfaffle Tigard, OR 97223 844.267.5464 (voice)

www.kingcom.com
Contact: Reed Reynolds
rparris@kingcom.com
Primary Underlying Providers:

AT&T Charter Cogent Comcast Level 3 Lightower Lightpath PGI

Star2Star Time Warner Cable tw telecom Windstream

Zayo Voice Services:

Conferencing

Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data services SIP trunking
Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1)
Access (DSO-OCn) BC/DR Colocation/Data Center Dark fiber Desktop virtualization Ethernet services Hosted Email Hosted infrastructure/platform Hosted Office IT services Integrated access International access Managed network services MPLS VPN Private line, Point to point Security/Firewall

Storage Virtual servers WAN optimization

Web hosting
Wireless data access
Support/Other Services:

Business services
Consulting
Expense/Mobile management

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www.ldpost.com
Contact: Alex Filippov

sales@ldpost.com Voice Services: IP telephony Mobile services Prepaid voice/data

Liquid Networx PO Box 780099 San Antonio, TX 78278 866.547.8439 (voice) info@liquidnetworx.com www.liquidnetworx.com

Contact: Don Douglas
Primary Underlying Providers:

CenturyLink Cisco CityNap IBM Level 3 Masergy tw telecom Windstream

Voice Services:

Conferencing Hosted PBX Mobile services SIP trunking VoIP

Voliv Unified communications Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data Center Dark fiber

Desktop virtualization Ethernet services Hosted Email Hosted infrastructure/platform Hosted Office IT services Integrated access International access Managed network services MPLS VPN Private line, Point to point Security/Firewall Storage Virtual servers WAN optimization Web hosting
Wireless data access
Support/Other Services: Business services Consulting
Expense/Mobile management
Installation



MicroCorp Inc. 4901 Olde Towne Pkwy Suite 200 Marietta, GA 30068 770.649.1919 (voice) 770.649.1717 (fax)

Premises systems/gear

www.microcorp.com
Contact: Stacy Conrad

stacy @microcorp.com
Primary Underlying Providers:

AireSpring BCN Solutions Express Birch Bright House Broadview CBeyond CenturyLink

Charter Comcast Business Class

Contingent EarthLink Evolve IP Global Solutions Inc inContact

Intercall Internap

Level 3 Masergy NBS NeoNova NetWolves

Nitel PGi Powernet

QTS Rapidscale ShoreTel Sky Sprint Stratus Networks TelePacific

Time Warner Cable tw telecom West IP Windstream

Zayo Voice Services:

Conferencing Hosted PBX Mobile services

SIP trunking

SIP trunking
VoIP
Unified communications
Data/Network Services:
Access (dial-up, DSL, cable, T1)
Access (DSO-OCn)
Colocation/Data center services Dark fiber
Desktop virtualization

Hosted email
Hosted infrastructure/platform

Integrated access International access Managed network services MPLS VPN Private line, Point to point

Security/Firewall Storage Virtual servers WAN optimization

Web hosting Wireless data access
Support/Other Services:

Business services
Consulting
Expense/mobile management



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Primary Underlying Providers:

Microsoft Vidyo VM Ware

Voice Services:

Conferencing Hosted PBX SIP trunking VoIP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Desktop virtualization Hosted infrastructure/platforms Virtual servers

Support/Other Services: Expense/Mobile management

8 Buxley Court Medford, NJ 08055-9174 800.862.6232 (voice) www.namada.com

Contact: Joseph Horton jh@namada.com **Primary Underlying Providers:**

iTeleCenter | tel3 Advantage The Conference Group Callture United World

Voice Services: Conferencing Dedicated local/LD Hosted PBX

International calling services

Network Consulting Group

Yorba Linda St. Tustin, CA 92780 714-505-1050 (voice) www.ncgtelecom.com Contact: John Wheels

sales@ncgtelecom.com
Primary Underlying Providers:

ACC Business AireSpring CenturvLink Comcast Cox Level 3 Sprint Star2Star Sonic.net TelePacific Time Warner Cable tw telecom Windstream ΧO Zavo

Voice Services: Dedicated local/LD Hosted PBX Mobile services

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR Ethernet services Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access Managed network services Private line. Point to point

Wireless data access
Support/Other Services:

Consulting Expense/mobile mamnagement Installation

New Horizon Communications Group

Virtual servers

420 Bedford St. Suite 250 Lexington, MA 02420 800.600.4642 (voice) www.nhcgrp.com
Contact: Glen Nelson gnelson@nhcgrp.com

Primary Underlying Providers:

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Voice Services: Conferencing Dedicated local/LD Hosted PBX SIP trunking VoIP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Email Ethernet services Managed network services MPLS VPN

Private line, Point to point WAN optimization WAN transport Web hosting Wireless data access

Nice Touch Communications

41 Union Square West New York, NY 10003 212.584.2350 (voice) www.nicetouch.net info@nicetouch.net **Primary Underlying** Providers:

American Telesis AT&T Broadview Cbeyond China Unicom Cincinnati Bell Colotrag . Comcast

CoreSite Cox Earthlink Evolve IF Frontier GTT Hudson Fiber InterCall

Internap **KDDI** Latisys Level 3 Lightower LigthPath Masergy

MegaPath MetTel NaviSite Netwolves NTT PacNet **PCCW**

Powernet OTS Shoretel Sprint Star2Star Tata Telefonica

Telehouse TeleSphere Telx

Time Warner Cable T-Mobile US Signal West IP

Windstream XΩ Zayo

Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Colocation/Data center services Dark fiber Hosted IT services Ethernet services Integrated access Managed network services MPLS VPN Private line Security/Firewall
Web hosting
Wireless data access
Support/Other Services: Billing/OSS Expense/Mobile

Premises systems/gear



Omni Solutions Inc. www.omnisolutionsinc.com

Contact: Randy Marshall rmarshall@omnisolutionsinc.com Voice Services:

Dedicated local/LD

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) BC/DR Colocation/Data center services MPLS VPN Private line

WAN transport
Support/Other Services:

Billing/ÓSS

Business Services Consulting Legal/Regulatory/Compliance

On Track Communications

248 W. Main St. Stoughton, WI 53589 608.873.3838 (voice) 608.873.4454 (fax) www.ontrackcom.com Contact: Bill Mansfield

bill@ontrackcom.com

Primary Underlying Providers:

ACC Business BCN Telecom Broadvox Charter Business Contingent Dialogue EarthLink Ernest Communications NetOnTheRun Nitel

Time Warner Cable

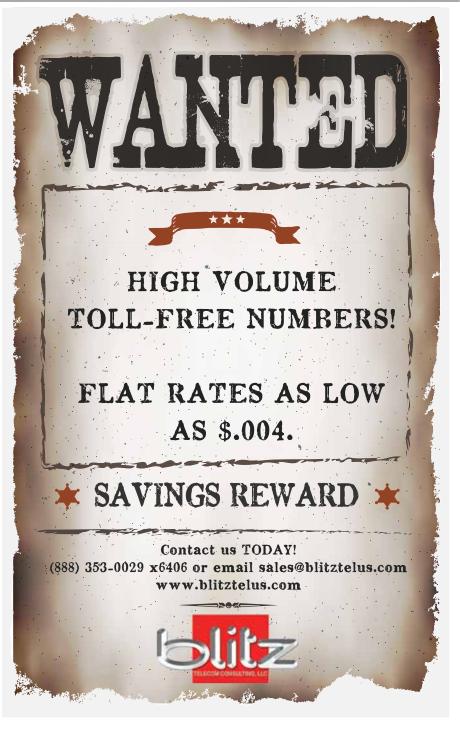
US Signal West IP Windstream
Voice Services:

Dedicated local/LD Hosted PBX SIP trunking VoIP

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data Center services Ethernet

Fiber services Hosted infrastructure Hosted IT services Integrated access Managed network services MPLS VPN Private line, Point to point

Security Storage



Web hosting Wireless data access Other/Support Services: Expense/Mobile management

OneSimCard.com PO Box 481

Belmont, MA 02478 617.313.8888 (voice) 617.812.0370 (fax) www.onesimcard.com

Contact: James O' Neill dealers@onesimcard.com
Underlying Providers:

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Voice Services: Mobile services Prepaid voice/data services

SIP trunking

1255 W. 15th St. Suite 620 Plano, TX 75075 469.241.9200 (voice) www.onvisource.com info@onvisource.com Voice Services: Call center services Dedicated local/LD Hosted PBX

VolP Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Hosted IT services Private line Wireless data access
Other/Support Services:
Business services

445 Broadhollow Rd. Suite CL 42 Melville, NY 11747 866.677.8352 (voice) www.osstelco.com Contact: James Ulrich iulrich@osstelco.com

Primary Underlying Providers:

8x8 ACC Business AireSpring Arkadin AT&T Birch **Broadview Networks** Cbevond CenturyLink Charter Cogent Cologix Comcast EarthLink Equinix EvolvelP InContact Intelepeer InterNap Io Data Centers Level 3 Lightower Lightpath

Masergy NetWolves Nitel PacNet PGi RapidScale ShoreTel SoundConnect Spectrotel Sprint Telecom Recovert TeleSphere

Telnes Telx Thinking Phones Time Warner Cable T-Mobile

tw telecom Unitas Global UNSi

Verizon Viawest

Windstream

60

Voice Services: Conferencing Dedicated local/LD Hosted PBX SIP trunking

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-OCn) Colocation/Data center services Email

Ethernet services Hosted infrastructure/platforms Hosted Office IT services Managed network services MPLS VPN

Private line, Point to point Security/Firewall WAN optimization

Web hosting Wireless data access Support/Other Services:

Billing/OSS Business services Energy services Expense/Mobile management Premises systems/gear



P2 Telecom, LLC

53 Larkin St. Stamford, CT 06907 203.388.7250 (voice) www.p2telecom.com Contact: Bill Patchett BPatchett@p2telecom.com

Primary Underlying Providers: AT&T

Bandwave Broadsmart Charter Conference Group Broadview American Telesis BullsEye Comcast Earthlink Globainx MetTel New Horizons

Nitel Time Warner Cable Thinking Phones Telnes

Spectrotel Transbeam Optimum CenturyLink Sprint

Windstream

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP

Unified communications

Data/Network Services:

Colocation/Data Center services Dark fiber Desktop virtualization Hosted email

Ethernet services
Hosted infrastructure/platforms

Hosted Office IT services Integrated access

Private line, Point to point Storage Web hosting

Wireless data access
Support/Other Services:

Business services

Consulting Expense/Mobile management

Phone Tech

Communications, Inc. 6004 W 146th St. Overland Park, KS 66223 913.345.0437 (voice) www.phonecommunications.com info@phonecommunications.com

Contact: Vivek Dayal

vivek@phonecommunications.com
Primary Underlying Providers: A+ Conferencing ACC Business

Access2Go AireSpring AT&T Bandwave CenturyLink Covad Ernest

Global Crossing

Level 3 New Edge Nitel

Sprint TelePacific Time Warner Business Class TouchTone

tw telecom Windstream

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services SIP trunking

Data/Network Services: Access (dial-up, DSL, cable, T1)

Access (DS0-0Cn)
Colocation/Data Center services Managed network services MPLS VPN

Private line, Point to point

WAN optimization
Web hosting
Wireless data access
Support/Other Services:

Business services
IT Integration services Premises systems/gear

PlanetOne Communications Inc. 9845 E. Bell Rd. Suite 130 Scottsdale, AZ, 85260 877.487.8353 (voice) 480.596.3334 (fax) www.planetone.net

Contact: Lauren Shapiro

lauren.shapiro@planetone.net Primary Underlying Providers:

ACC AT&T Centuryl ink Cogent Corvisa EarthLink EvolveIP GTT inContact Integra IntelePeer Internap Latisys Leveĺ 3 Lightower Masergy MegaPath NetWolves Nitel

NuveStack

NYY PGI QTS Retarus ScaleMatrix

Spring TelePacific TeleSphere Telness

Telx Thinking Phones T-Mobile

West IP Windstream XΩ Zavo

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile

SIP trunking VoIP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1)

Colocation/Data Center services Dark fiber Desktop virtualization

Hosted email
Hosted Office/IT services

Integrated access International access Managed network services MPI S VPN

Private line, Point to Point Security/Firewall Storage Virtual servers

WAN optimization Web hosting

Wireless data access

Support/Other Services:

Business services Expense/Mobile management Financial services

Premier Companies

415 N. Prince St., Ste. 200 Lancaster, PA 17603 888.581.1231 (voice)

www.premiercompaniesllc.com
Contact: Daryl Heller

dheller@premiercompaniesllc.com Primary Underlying Providers:

ΔΤ&Τ AT&T Wireless Broadview CenturyLink Level 3 Sprint Verizon

Verizon Wireless

Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Colocation/Data center services
Private line, Point to point Web hosting
Wireless data access

Other/Support Services:

Billing/OSS Consulting Expense management Premises systems/gear

PSI Networks Inc.

24800 Chrisanta Dr.

Suite 250 Mission Viejo, CA 92691 800.377.0049 (voice) www.psi-net.com

sales@psi-net.com Primary Underlying Providers: ACC Business AireSpring
Alliance Cost Containment

AT&T Broadview BullsEye Cbeyond Charter Cogent Colotraq Comcast

Cox Earthlink Integra Level 3 Masergy MegaPath Nitel PGi RapidScale

Sonic.net Sprint Star2Star TechMD Telekenex TelePacific

Tier Zero Time Warner Cable

T-Mobile Towerstream tw telecom Unitas Global

Verecloud Verizon Windstream Centuryl ink X2nSat **XCast**

Zayo Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1)

Access (DS0-0Cn) BC/DR Colocation/Data Center services Dark Fiber Desktop virtualization Ethernet services Hosted email Hosted infrastructure/platforms
Hosted Office IT services Integrated access International access Managed network services MPLS VPN
Private line, Point to point Security/Firewall Storage Virtual servers WAN optimization Web hosting

R

Telecommunications Solutions

476 Robert St. North Saint Paul, MN 55101 651.556.1200 (voice) info@renodis.com www.renodis.com

Wireless data access

Primary Underlying Providers:

Enventis

Ernest Communications Integra Sprint Wireless

Verizon XO

Zavo Bandwidth

Services Offered: Enterprise mobility services Enterprise network services Expense/Mobile management Telecom Consulting

Rittenhouse Communications Hittenhouse Communication 1616 Walnut St. Suite 600
Philadelphia, PA 19107 215.600.0019 (voice) 215.240.8006 (fax) www.rittenhousecom.com contact@rittenhousecom.com

Primary Underlying Providers: Alteva

Ancero AT&T ATC Bandwave Broadview BullsEye CenturyLink Cogent Comcast Covad DynaLink EvolvelP Granite InPhonex Line Systems Masergy MetTel

NetCarrier New Edge Optimum

Paetec Paramount Communications

Reliance Globalcom Speakeasy

Spectrol Vantage Communications

Verizon Whaleback Windstream

Voice Services: Conferencing Dedicated local/LD

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Ethernet services Integrated access

Managed network services MPLS VPN

Private line, Point to point Wireless data access

Sandler Partners 1200 Artesia Blvd. Suite 305 Hermosa Beach, CA 90254 310.796.1393 (voice) 310.546.3922 (fax) www.sandlerpartners.com Contact: Alan Sandler alan@sandlerpartners.com

Primary Underlying Providers: AboveNet

ACC Business Access One AccessLine Adigo AirBand AireSpring ΔΤΑ.Τ Bandcon **BCN** Broadview Calltower CenturvLink

Charter China Unicom Cogent Color Broadband Conserto Covad Cox EarthLink Easton

Excel Frontier Global Crossing Granite Host.net inContact Integra Intelletrace

Level 3 Masergy MegaPath Netwolves

ITS

01 Communications Paetec Powernet

Savvis Sprint Sungard

Telnes Time Warner Cable

T-Mobile tw telecom Verizon Xcast XΩ

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) BC/DR Colocation/Data Center services Email

Ethernet services Hosted infrastructure/platforms Hosted Office IT services Integrated access

Managed network services MPLS VPN Private line, Point to point Security/Firewall Storage WAN optimization Web hosting Wireless data access

Support/Other Services: Business services

Expense/Mobile management Installation IT Integration services

Premises systems/gear

1580 Chapel St. New Haven, CT 06511 203.777.1234 (voice) 203.724.5952 (fax)

www.sarcocommunications.com bstrom@sarcotel.com

Primary Underlying Providers: New Horizons

Windstream Voice Services:

Corporate calling card Emergency services Hosted Local

One Communications

Outbound long distance Data/Network Services:

Access (dial-up, DSL, cable, T1) Ethernet

Private line

Save More on

21301 Bermuda St. Chatsworth, CA 91311-1429 800.318.1510 (voice) 888.311.9046 (fax) www.call4less.com info@call4less.com

Primary Underlying Providers:

AccessOne AccuLinQ AireSpring Allegiance CenturyLink Mpower Powernet Talk America Total Call International

Voice Services: Conferencing Dedicated local/LD Prepaid voice/data

SIP trunking

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Private line, Point to point Wireless data access

1133 Airline Dr. Ste. 2200

Grapevine, TX 76051 817.442.8566 (voice) 419.730.3767

www.sierrabiz.com
Contact: Scott Hailey scotth@sierrabiz.com Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services

SIP trunking Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1)

Colocation/Data center services Desktop virtualization Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access International access Managed network services MPLS VPN

Private line, Point to point Security/Firewall Storage Web hosting

Support/Other Services:

Consulting Energy services Expense/mobile management Premises systems/gear

SimpleComm Solutions Inc.

125 N. Halsted St. Suite 302 Chicago, IL 60661 312.715.1600 (voice) 312.715.1595 (fax) www.simplecomm.net

Primary Underlying Providers: AboveNet AccessOne

AT&T Cogent Comcast Converged Communications Farthlink First Communications Grapevine Intercall Internap Level 3 Lower Electric MegaPath Prime Communication

Sprint Stratosphere Networks T-Mobile **US Signal**

Verizon Wireless XΩ Zavo

Voice Services: Conferencing Dedicated local/LD

Mobile services Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Colocation/Data center services Ethernet services Integrated access

Managed network services MPLS VPN Private line. Point to point

Wireless data access Support/Other Services:

Business services Energy services Premises systems/gear

Smith Communications Group

1119 Sandstone Rd. Greensburg, PA 15601 724.850.7979 (voice) 724.552.0123 (fax) www.smithcommgroup.com





770-449-7704 www.netgencommunications.com



Contact: Curt Smith csmith@smithcommgroup.com **Primary Underlying Providers:**

AboveNet ACC Business AT&T CenturyLink Duquesne Light Energy Dominion First Energy Level 3 Nuvox One Communications tw telecom XΩ

Voice Services:

Dedicated local/LD Integrated access VoIP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Dark Fiber Ethernet services Integrated access

International access Managed network services MPLS VPN Private line, Point to point Support/Other Services: Energy services

SOVA, Inc. 18 Maffett St. Plains, PA 18705 570.824.6800 (voice) 570.824.6801 (fax) www.sova.com
Contact: Angela Welby

sales@sova.com
Primary Underlying Providers: Verizon Verizon Cloud

Verizon Wireless Voice Services: Dedicated local/LD Hosted PBX Mobile services

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

BC/DR Colocation/Data Center services Hosted email Hosted infrastructure/platforms Integrated access International access Managed network services MPI S VPN Private line, Point to point Security/Firewall Storage Virtual servers WAN optimization
Web hosting
Wireless data access
Support/Other Services:

Consulting

ectrum Inc.

9145 Governors Way Cincinnati, OH 45249 513.697.2000 (voice) 513.697.2001 (fax)

www.3spectrum.com
Primary Underlying Providers:

CenturyLink Level 3 TNCI XO

Services Offered:

Broadband services Expense/Mobile management Voice and Data

StrataCore

2320 2nd Ave. Suite 2100 Seattle WA 98121 206.686.3211 (voice) www.stratacore.com info@stratacore.com

Primary Underlying Providers:

AT&T CenturyLink China Telecom DataPipe Digital Fotress Digital Realty Edge Cast Integra Inteliquent Interxion io Data Centers Latisys Level 3 Limelight NaviSite Pacnet QTS

Sabey Data Centers Server Central Softl aver Spectrum Sungard Tata Telx

The Westin Building TierPoint Verizon

WCI Wowrack

Voice Services: Dedicated local/LD SIP trunking VoIP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) Colocation/Data center Hosted infrastructure/ platforms MPLS WAN transport Web hosting Wholesale Internet

T-1 Connections Inc.

877.673.3781 (voice) www.t-1connections.com Contact: Robert Fox rfox@t-1c.com

Primary Underlying

Providers: ACC Business

Acces2Go AireSpring AT&T **Broadview Networks** Chevond CenturyLink Covad Level 3 MegaPath MetTel Speakeasy Sprint TelePacific T-Mobile Verizon Windstream

Voice Services:

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Integrated access
Private line, Point to point Support/Other Services: Premises systems/gear

T1 Solutions

PO Box 12232 Research Triangle Park North Carolina 27709-2232 800.360.4864 (voice) www.t1solutions.com info@t1solutions.com

Primary Underlying Providers:

AT&T Cbeyond CenturyLink Earthlink Level 3 MegaPath Sprint Time Warner Cable tw telecom Windstream Verizon

Voice Services:

Voice T1 Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Integrated access
Private line, Point to point

T2 Technologi

4610 Ulster St #150 Denver, CO 80237 303.762.1100 (voice) 866.296.7888 (fax) www.t2technologies.com info@T2technologies.com Voice Services: Conferencing Dedicated local/LD Hosted VolP Mobile services

Network monitoring SIP trunking VoIP origination/termination Data/Network Services:

Access (DS0-0Cn), Fmail MPLS/VPN Premises systems/gear Private line, Point to point

TDM. Inc 7608 Hwy 146

Suite 300 PeWee Valley KY 40056 Voice 502.244.1668 **Fax:** 502.245.1155 Contact: Brad Fenton bradf@tdm.cc

TDM100.com **Primary Underlying Providers:**

123Net ACC Access Point Airnet Alteva American Telesis Randwave Rirch Bright House

Broadview Bulk TV CCI Centurylink Cincinnati Bell Comcast Contingent Convey Cox Dynalink Earthlink

Entelegent Ernest Granite Intercall Kevstone Level 3 Mediacom Megapath Mitel NetWolves ngenx Nitel NTT

PGi

Powernet

Retarus

Dedicated local/LD Prepaid voice/data SIP trunking



Spectrotel SCD.net Airespring Spectrum Business Suddenlink TDM Inc. TelePacific The Conference Group Time Warner Cable Business Class Velie/ West IP

Voice Services:

Windstream

WOW

Conferencing Dedicated Local/LD Hosted PBX Mobile SIP Trunking

Unified Communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Colocation/Data Center Desktop virtualization Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access International access Managed network services MPLS VPN Private line Point to point Security/Firewall Storage Virtual servers

WAN optimization Web hosting Wireless data access

Support/Other Services: Expense/mobile management

Blackberry

5350 Tech Data Drive Clearwater, FL 33760 800.237.8931 (voice) www.techdata.com/tdmobility brian.kosoy@techdata.com Primary Underlying Providers:

Sprint Symantec T-Mobile Verizon **VMWare** Services:

Mobile devices Mobile lifecycle management Premises systems/gear Turnkey wireless services

Technology Management

1443 E. Washington St. Suite 117 Pasadena, CA 91104 626.737.2960 (voice) www.tms-tech.com

Contact: Ralph Teel rteel@tms-tech.com

Data/Network Services: Access (DSO-OCn)

BC/DR Email Hosted infrastructure/platforms Hosted Office IT services Managed network services Private line, Point to point Security/Firewall

Web hosting
Support/Other Services:

Business services Consulting IT Integration services Regulatory/Compliance

Tel-Affinity Corp 888.419.6722 (voice) 781.433.0951 (fax) www.tel-affinity.com info@tel-affinity.com

Primary Underlying Providers: A+ Conferencing

ACC Business Access One AireSpring Allegiance Telecom American Telesis AT&T

MegaPath Sprint TelePacific TMC Verizon Windstream

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VoIP

Unified communications Data/Network Services: Access (dial-up, DSL, cable, T1)

Access (DSO-OCn) BC/DR Colocation/Data center services Email

Ethernet services MPLS VPN Private line, Point to point Security/Firewall Web hosting

Support/Other Services:

Business services Expense/mobile management

Telarus, Inc.

45 W Sego Lily Dr. Suite 220 Sandy, UT 84070 801.523.2100 (voice) www.telarus.com

Contact: Ryan Bennion rbennion@telarus.com
Primary Underlying
Providers:

365 Main

ACC Business AccuConference Advantix AireSpring Alpheus Birch Broad Sky

Broadvox C7 Data Centers CentraCom Centurylink Cogent

Comcast Earthlink Exede

Granite inContact Inegra Level 3 Lightpath

Masergy MegaPath Momentum NetWolves New Cloud

Nitel Optimum Peak10 Powernet Reallinx StartingMeeting

Suddenlink TelePacific TeleSphere Telnes

Time Warner Cable Business Class tw telecom Unitas Global

Verizon ViaWest VocalIP Networx VX Suite Spectrum Business

West IP Windstream

Voice Services:

Zavo

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking

VolP Unified communications Data/Network Services: Access (dial-up, DSL

cable, T1) Access (DSO-OCn) BC/DR

Colocation/Data Center Dark fiber Desktop virtualization

Hosted email Managed network services MPLS VPN

Private line, Point to point Security/Firewall Storage Virtual servers

WAN optimization Web hosting Wireless data access
Support/Other Services:

Billing/ÓSS Business services Consulting
Expense/Mobile management Installation

TelcolQ4300 Forbes Blvd.
Suite 110
Lanham, MD 20706
202.595.1500 (voice) www.telcoiq.com contact@telcoig.com

Primary Underlying Providers:

ACC Business AT&T Cavalier Centuryl ink

Cogent Covad Global Cross Level 3

Masergy MegaPath New Edge Nuvox Savvis Speakeasy

Sprint West IP Windstream

Xspedius

Voice Services: Dedicated local/LD Hosted PBX

Prepaid voice/data SIP trunking VoIP

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) Colocation/Data center services Ethernet services Integrated acess Private line, Point to point

888.853.9664 (voice) www.telcombrokers.com

Primary Underlying Providers:

ACC Business



Airband AireSpring American Telesis ANI Networks ATN Broadsmart BullsEye Cbevond CCI Network Services CenturyLink Charter Coast2Coast Comcast Compass Global CRA DynaLink EarthLink Fusion Globalinx GTT HyperCube inContact Level 3 Masergy MegaPath My Global Talk Nitel PGi RapidScale SingTel Sprint TeleData Solutions TelePacific Telnes The Conference Group Time Warner Business Class T-Mobile TNCI TowerStream tw telecom UCN US Colo Velocity Networks Verecloud West IP Widepoint Windstream

Zavo Voice Services: Conferencing Dedicated Local/LD Hosted PBX SIP trunking

XCast Labs

XO

VoIP Unified communications

Data/Network Services: Access (dial-up. DSL. cable. T1) BC/DR

Colocation/Data Center services Desktop virtualization

Email Ethernet services

Hosted infrastructure/platforms Hosted Office IT services Integrated access Managed network services

Private line, Point to point Security/Firewall

Web hosting
Support/Other Services:

Telcorp International 11650 Olio Road

Suite 1000-287 Suite 100-287 Fishers, IN 46037 317.849.5239 (voice) 317.578.0394 (fax) www.telcorpinternational.com

bob@telcorpinternational.com Primary Underlying Providers:

Bluetone Corvisa Goodwin InContact **PowerNet** TouchTone USA Digital plus many other

Voice Services: Conferencing Call center services Hosted PBX

IP Telephony
SIP Trunking
Data/Network Services:

64

Access (dial-up, DSL, cable, T1) Access (DS0-0Cn) Colocation/Data Center services Ethernet services Managed network services

MPLS VPN Private line, Point to point

TeleCHOICE

11556 Willow Garden S Windermere, FL 34786 888.735.3535 (voice) www.telechoice.net
Primary Underlying Providers:

ACC Business AireSpring BCN Solutions Express

Broadview
BullsEye Telecom
Cbeyond
CenturyLink Cogent Earthlink EvolvelP FiberLight InContact Integra IntelePeer InterCall InterNap Level 3

LiveOps Masergy Nitel NTT Powernet QTS RapidScale Tata SingTel TCN

TeleSphere Time Warner Cable Business

Class TouchTone tw telecom West IP Windstream

TelePacific

"More than 70 top providers" **Services Offered:**

Conferencing Voice Services:

Conferencing Hosted PBX SIP Trunking

Unified communications

Data/Network Services: Contact center services

Dark Fiber Ethernet services Hosted email Hosted infrastructure/platforms International access

Integrated access Hosted Office IT services Managed network services MPLS VPN

Private line, Point to point Security/Firewall

Storage Virtual deskton

Virtual desktop Virtual servers Support/Other Services:

Business services

Telecom Brokerage Inc. (TBI) 8770 West Bryn Mawr Ave. Chicago, IL 60631 847.465.4500 (voice) 847.465.1488 (fax) www.tbicom.com Contact: Ken Mercer

info@thicom.com

Primary Underlying Providers:

8x8 ACC Business ADAR Airespring ANPI Birch **Bright House**

Business Only Broadband Cbeyond CenturyLink

Charter Cogent Comcast Business EarthLink Business

Fvolve IF Ernest First Communications

Fortis Frontier Fusion Granite GTT inContact

Integra Intercall IT Savvy JMark Level 3 Lightower

Masergy Mediacom MegaPath MetTel Mitel Netcarrier Netwolves Nitel PCCW PGi

Rapidscale Rootaxcess Singlehop Sprint Suddenlink T-Mobile

Telepacific TeleSphere Telnes Telx

Thinking Phones
Time Warner Cable Business

Class TruMobility tw telecom **US Signal** Verizon Voxox West IP Whoa Windstream

WOW Business XO Communications Zavo

Voice Services: Conferencing Dedicated Local/LD

Hosted PRX Mobile services SIP trunking VoIP

Unified communications
Data/Network Services:
Access (dial-up, DSL, cable, T1)
Access (DSO-OCn)

BC/DR Colocation/Data Center services Dark fiber

Desktop virtualization Hosted email

Hosted infrastructure/platforms Hosted Office IT services Integrated access

International access
Managed network services
MPLS VPN
Private line, Point to point
Security/Firewall

Virtual servers WAN optimization

Web hosting
Wireless data access
Support/Other Services:

Consulting Expense/Mobile management

om Consulting Group

602 E. McNab Rd. Pompano Beach, FL 33069 954.776.5000 (voice) www.tcg-partners.com Contact: Dan Pirigyi

dan@tcg-partners.com
Primary Underlying Providers:

ACC Business

Access Point Airespring ANPI ТЯТА Atlantic Broadband

Bright House Broad Sky Networks Broadsmart Broadvox BullsEye Telecom CallTower

Cbeyond CenturyLink Charter Cogent

Comcast Conference Group Cox Digium

EarthLink Fauinix Fiberlight

FPL Fibernet

Green Cloud HiQ Data Host.net Hotwire iM Integrated inContact

iNet Communications Intercall Internap IP FONE JIVE Level 3 LiveOps Mediacom MegaPath MetTel NetWolves

Nexogy Nextiva Optimum Cable PGi

Powernet OTS QxC Communications

Rapidscale Sprint Start Meeting Suddenlink Sungard TelePacific Telnes Thinking Phones

Time Warner Cable Towerstream tw telecom Verizon ViaWest Vonage West IP

WHOA com Windstream **WOW Business** X2NSat

XO Zayo

Voice Services: Conferencing Dedicated local/LD Hosted PBX

Mobile services SIP trunking Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

BC/DR Colocation/Data center Dark fiber Desktop virtualization Ethernet services

Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access International access

Managed network services MPLS VPN Private line, Point to point

Storage Virtual servers Wireless data access

Support/Other Services: Consulting

Telecommunications

On Demand, Inc.
1 S. 2nd St.
Pottsville, PA 17961
570.581.8300 (voice)
484.229.0707 (fax) www.tcdemand.com

Contact: Jeffrey Bornstein jeff@tcdemand.com

Services: Business process services Contact center services Energy services Telemarketing services

TeleDomain Inc. 131 W 35th St 8th Fl. New York, NY 10001 516.504-9448 (voice) www.teledomain.com info@teledomani.com

Web content services

Underlying Providers: AboveNet ACC Access Point AireSpring

American Telesis AT&T ATC **Broadsmart** Broadview CenturyLink Cogent Dialog DynaLink Earthlink iZigg Level 3 Lightower LoopUp MegaPath Mettel NetWolves New Horizon Optimum Lightpath Powernet PGi RCN SpectroTel

Telecom Recovery TelePacific telx Time Warner cable TouchTone TowerStream Transbeam Verizon VoDa Networks West IP

Windstream Zone Telecom Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking

VoIP Toll Free

Wholesale termination **Data/Network Services:**Access (dial-up, DSL, cable, T1) Access (DS0-0Cn)
Colocation/Data Center services

Ethernet services Integrated access Integrated access

Managed network services MPLS VPN

Private line, Point to point Storage

WAN optimization Support/Other Services:

Installation
Premises systems/gear

Telegration, Inc

905 W. Maple Rd. Clawson, MI 48017 248.284.6700 (voice) 800.860.6571 (fax)

www.telegration.com
Contact: Heather Conaway

hconaway@telegration.net
Primary Underlying Providers:

123.net ACD.Net AireSpring AT&T Bright House Networks Broadview Birch

BullsEve Telecom CBeyond CenturyLink Comcast Comlink

Farthlink EvolvelP First Communications

Fusion Grid 4

inContact Integra Level3

Lynx Network Group Masergy Megapath

New Vortex Nitel PGi OTS

Retarus ShoreTelSky Spectrum

Star2Star TDS Metrocom Telesystems Telnet

Thinking Phone

Time Warner Cable Business Class US Signal Windstream XO Communications WOW Business Voice Services: Conferencing

Dedicated local/LD Hosted PBX Mobile services SIP Trunking

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data Center Content delivery network Dark fiber Email Ethernet services Hosted infrastructure/platforms Integrated access Managed network services MPLS VPN Security/Firewall

Storage WAN optimization Web hosting Wireless data access Support/Other Services:

Billing/OSS Business services Expense/Mobile management Location-based services Premise systems/gear

TeleProviders Inc. 23461 Southpointe Dr. Suite 185 Laguna Hills, CA 92653 888.999.4244 (voice) 888.999.5801 (fax) www.teleproviders.com

Primary Underlying Providers:

AboveNet CenturyLink Cogent Earthlink InterCall Level3 Lightyear Masery MetTel Rackspace Savvis Sprint TelePacific Tata Communications tw telecom Verizon

Windstream

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-0Cn)
Colocation/Data Center services Hosted infrastructure/platforms Integrated access International access Managed network services Private line, Point to point Wireless data access

TheTechDepot.com 952 Kinwat Ave

Baltimore, MD 21221 443.865.3080 (voice) 866.441.0074 (fax)

www.thetechdepot.com
Contact: Chuck Anthony chuck@thetechdepot.com
Primary Underlying Providers:

ACC Business AireSpring Cavalier Network Innovations One Communications UCN

Voice Services: Conferencing Dedicated local/LD Hosted PBX

Mobile services SIP trunking

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Colocation/Data Center services Desktop virtualization Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access International access Managed network services

Private line, Point to point Storage Virtual servers WAN optimization Wireless data access

MPLS VPN

Support/Other Services: Expense/Mobile management

Top Speed Data Communications 1310 Redwood Way Suite 200 Petaluma, CA 94954 707.242.8266 (voice) 707.795.3050 (fax) www.topspeeddata.com glenn@topspeeddata.com

Primary Underlying Providers: ACC Business Allworx AT&T BroadSky CenturyLink Charter Business Comcast EarthLink Integra InterCall Level 3 Masergy MegaPath Nitel

Quest Skyriver

Spectrum Sprint Stratus TelePacific Time Warner Cable tw telecom Utility Telephone Vista Broadband Widepoint Windstream **XCast** X2nSat X0

Zayo Voice Services: Conferencing Dedicated local/LD Hosted PBX

Mobile services Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DSO-OCn) Ethernet services Integrated access Private line. Point to point Wireless data access

Torrent Technologies Inc.

30711 Zims Ln Grand Rapids, MN 55744 218.327.9025 (voice) 218.327.9024 (fax) www.torrenttechnologies.com Contact: Jeff Yeschick jeff@torrenttechnologies.com

Primary Underlying Providers: Voice Services:

Conferencing Dedicated local/LD Hosted PBX SIP trunking

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR

Colocation/Data center services Ethernet services
Hosted infrastructure/platform Private line, Point to point Web Hosting Wireless data access

Total Telecom Consulting

2218 Boustead St. Pittsburgh, PA 15216 412.450.0005 (voice) www.totaltelecomconsulting.com Contact: Robert Stevens

agents@totaltelecomconsulting.com Primary Underlying Provider:

ACC Business ADTRAN Airband AireSpring AT&T AT&T Wireless BroadSky Broadview Broadvox BullsEye Cavalie

Cbeyond CenturyLink Cimco Comcast Covad Earthlink

First Communications Global Telecom & Technology

Granite Hughes IntelliFiber InterCall Internap Level 3 Lightyear Masergy MegaPath MetTel Netwolves

One Communications



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Providing your special circuit customers with notifications of upcoming maintenance windows can be an operational burden. Thanks to TeleSphere's Advantage Circuit Management, this process just got a lot more efficient. Customers are associated with circuits, shelves, equipment and ports and can easily be notified by leveraging built-in email functionality.

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OPEX/Total Call Powernet RealLinx Spectrum Telepacific Telnes tw telecom US Signal USA Digital Verizon Verizon Wireless Vocalip Networks Voda Voxitas West IP Windstream

Voice Services: Conferencing Dedicated local/LD Hosted PBX

Mobile services Prepaid voice/data SIP trunking VolP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1)

Access (DS0-0Cn) BC/DR

Colocation/Data Center services Dark Fiber Desktop virtualization

Hosted email Hosted infrastructure/platforms Hosted Office IT services

Integrated access International access Managed network services

MPLS VPN
Private line, Point to point
Security/Firewall

Storage Virtual servers WAN optimization Web hosting
Wireless data access
Support/Other Services:

Business services Consulting Expense/Mobile management

Installation Premises systems/gear



Ultimate Office Tech 2900 N. Quinlan Park Rd. Ste. B240-127 Austin, TX 78732 512-275-4333 (voice) www.ultimateofficetech.com
Contact: Dan Taggart

sales@ultimateofficetech.com
Primary Underlying Providers:
ACC Business

Accel Networks Access One inc. Access Point AireSpring Alcatel - Lucent Alpheus American Telesis ANPI AT&T Wireless

BandTel Birch Communications Blue Diamond Solutions Blue Star

Broad Sky Networks

Broadview

Broadvox BullsEye Telecom CBeyond, Inc. CenturyLink Charter Cable ChinaUnicom Cincinnati Bell

Cogent Colotrag Colt

Comcast Conferencing Advisors Constellation NewEnergy Coresite

CounterPath Cox Dynalink EarthLink Business

EasyLink EasyNet eMobile

Excel Excel Conferencing First Communications FluxCom Fonality Frontier Communications

Solutions Galileo

Galieo
Glacial Energy
Global Risk Management
Solutions
Globalinx (TMC)
GSG Mobile Manager **HLC Capital**

inContact Integra Intelepeer InterCall Internap

Jive Communications KDDI

Latisys Level 3 Communications Lightower Lightpath Masergy MediaCom MegaPath

Message Broadcast MetTel

NaviSite (Time Warner Cable) NetWolves New Cloud NiTel

NTT Communications Olympusat Telecom Optimum Business (Cablevision)

PacNet PCCW PGi Powernet QTS

RapidScale ShoreTel Sky Simple Signal SingTel Solar City Spark Energy

Sprint Star2Star Stratus Sungard T-Mobile TATA

Teleira Telecom Recovery

TelePacific Telesphere Telnes

TelX Time Warner Cable

Ting TouchTone Towerstream TSI

tt Telecom UNSi (Airband) US Signal Velocity Networks

Verizon Verizon Wireless ViaWest

VoxOx West IP Windstream XΩ

Voice Services: Conferencing Dedicated local/LD

Hosted PBX Mobile services Prepaid voice/data SIP trunking VoIP

Unified communications

Data/Network Services: Access (dial-up, DSL, cable, T1)
Access (DS0-0Cn)
BC/DR

Colocation/Data Center services Dark Fiber Desktop virtualization

Hosted email Hosted infrastructure/platforms Hosted Office IT services Integrated access International access

Managed network services MPLS VPN Private line, Point to point Security/Firewall

Storage

Virtual servers WAN optimization Web hosting
Wireless data access
Support/Other Services:

Billing/OSS Business services Consulting Energy services Expense/Mobile management Installation Legal/Regulatory/Compliance

Premises systems/gear



14650 N. 78th Way Scottsdale, AZ 85260 602.277.0000 (voice) 602.277.5151 (fax) www.venicom.com
Contact: Stephen Goble

partnersignup@venicom.com
Underlying Providers:

CenturvLink T-Mobile
Over 100 other carrier relationships
Voice Services:

Conferencing Dedicated LD/local Hosted PBX

Mobile Prepaid voice/data SIP trunking Unified communications

Data/Network Services: Access (dial-up, DSL, Cable, T1) Access (DSO-OCn) BC/DR Colocation/Data center Dark fiber Desktop virtualization

Hosted email
Hosted infrastructure/platform
Hosted Office IT
Integrated access International access

Managed network services MPLS VPN Private line, Point-to-point Security/Firewall

Storage Virtual servers

WAN optimization
Web hosting
Support/Other Services:

Billing/OSS Business services Consulting Energy services Expense/mobile management Installation

Legal/Regulatory Premises systems/gear

VentureGroup 2520 Whitehall Park Dr. Charlotte, NC 28273 704.409-2411 (voice)

www.vgei.com
Contact: Mark Hoffman mh@vgei.com

Primary Underlying Providers: Over 45 Service Provider

Relationships
Voice Services: Conferencing

Dedicated local/LD Hosted PBX Mobile SIP trunking VoIP

Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

Colocation/Data center services Data storage/analysis Dark fiber
Desktop virtualization
Ethernet services
Hosted Email

Hosted Efficient Hosted infrastructure/platform Hosted Office IT services Integrated access International access Managed network services

Private line, Point to point

Security/Firewall Storage Virtual servers WAN optimization Wireless data access Support/Other Services:

Consulting Energy services Expense/Mobile management

Visioncom, Inc

Visioncom, Inc 7265 Highway 1 Finland, MN 55603 248.661.8290 (voice) 248.661.4713 (fax) www.callvci.com Contact: Jay Lewis

jlewis@callvci.com Voice Services: Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking

Unified communications

Data/Network Services:

Access (DS0-0Cn) Email Ethernet services Hosted Office IT services Integrated access Managed network services MPLS VPN Private line, Point to point

Wireless data access Support/Other Services: Business services

Vital Voice & Data 153 Morris Ave. Long Branch, NJ 07740 888.558.8855 (voice) 908.325.0100 (fax) www.vitalvoiceanddata.com

Contact: Michael Longo info@vitalvoiceanddata.com

Underlying Providers: "All major carriers" Avaya Broadview

BullsEye CenturyLink Cisco Dell Granite HP Intuit Microsoft

Level 3 Mitel Nortel Siemens Verizon Windstream

Voice Services:

Conferencing Dedicated local/LD Hosted PBX Mobile services Prepaid voice/data SIP trunking VolP

Unified communications

Data/Network Services:

Access (dial-up, DSL, cable, T1) Access (DS0-OCn) BC/DR Colocation/Data center services Content delivery network Dark fiber

Email Ethernet services Managed network services MPLS VPN Private line, Point to point

Security/Firewa WAN optimization WAN transport

Web hosting
Wireless data access
Support/Other Services: Billing/OSS

Business services
Consulting
Expense/Mobile management Installation Legal/Regulator/Compliance Premises systems/gear Prepaid voice/data Testing/Certification

Voice Smart Networks 4840 Market St.

Suite D Ventura, CA 93003 805.642.3558 (voice) 805.642.2954 (fax) www.voicesmartnetworks.com sales@voicesmartnetworks.com

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FreedomIQ Interactive Intellgence Mitel ShoreTel TAG 7ultvs

Voice Services: Conferencing Hosted PBX Premises systems/gear POTS lines IP telephony Unified communications/

collaboration Data/Network Services:
Access (dial-up, DSL, cable, T1)
Access (DS0-0Cn)
Colocation/Data center services Ethernet services
Hosted Office IT services Managed network services MPLS VPN

Private line, Point to point Wireless data access
Support/Other Services:

Business services Installation IT Integration services

Premises systems/gear



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Sprint Time Warner Telecom T-Mobile Triton US Cellular Verizon

Windstream Xtream Studio

Voice Services: Conferencing Hosted PBX IP telephony Mobile services

POTS lines Unified communications/collaboration

Data/Network Services:
Access (dial-up, DSL, cable, T1)
Access (DSO-OCn)
Colocation/Data center services

Ethernet services
Private line, Point to point Web Hosting Wireless data access

WinTel Communications Corp. 18 E. 48th St., 10th Fl New York, NY 10017 212.532.2300 (voice) 212.532.2333 (fax)

www.wintelworks.com info@wintelworks.com **Primary Underlying Providers:**

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www.wtgcom.com Underlying Providers:

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Colt Telecommunications Conferencing Advisors CoreSite CounterPath Cox Business Data Storage Corp.

Defero 3 Dynal ink EarthLink EasyLink

EasyNet **EMobile** Frnest Evolve IP Excel

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Internap iTFMize Jive KDDI America

Latisys Level 3 Lightower Lightpath

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MetTel NaviSite NRS

NetWolves NewCloud Nitel NTT

Olympusat Pacnet PCCW Powernet

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Sprint Star2Star Stratus Networks Sunguard

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Telnes Telstrs International

Time Warner Cable Business Class T-Mobile

TNCI TouchTone TowerStream tw telecom US Signal Velocity Networks Verizon

Verizon Wireless ViaWest Voxox West IP Windstream

XΩ Zayo

Zone Telecom Voice Services: Conferencing Hosted PBX IP Telephony Mobile services POTS line

Prepaid voice/data services

SIP trunking Unified communications Data/Network Services: Access (dial-up, DSL, cable, T1) Access (DSO-OCn)

BC/DR Colocation/Data Center services

Email Ethernet services Hosted infrastructure/

platforms Hosted Office IT services Integrated access Managed network

services MPLS VPN Private line, Point to point Security/Firewall Storage

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Wireless data access
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Hosted infrastructure/platforms

Hosted Office/IT services Integrated access International access Managed network services

Private line, Point to point Security/Firewall

Storage Virtual servers WAN optimization Web hosting Wireless data access



THE CHANNEL MANAGER's Playbook



Editor's Note: Following are the third and fourth chapters in a series on best practices for managers of indirect sales partners by noted blogger and channel curmudgeon Peter Radizeski. Chapters five through eight of the series will appear in subsequent ChannelMagazine issues. To sign up to receive the full series upon completion, contact us at ebooks@bekapublishing.com.

CHAPTER 3: "They Aren't Selling My Stuff"

Much of the demand that drives quotes from the channel originates from the customers. And in a Pavlovian response, partners jump to get a quote. All too often, however, this is done without doing much discovery at all. "The customer is hot! Let's get the quote quick and win this one!" This often turns into hurry up and wait.

If the customer says, "I want broadband," how often is the question that follows, "Why? What are you using the Internet for?" Or "How vital is the Internet to your business?"

One reason that this question: "How much would a thirty minute outage cost?" isn't asked often enough is because the answer may be, "We've never had an outage." And then the dialog is stifled. Or is it?

"My job is to sell you productivity and efficiency. The whole purpose of moving to the cloud for a business is to make that business more flexible, efficient, productive and competitive. We do this by getting you back time in seconds or minutes. On a congested pipe, all that waiting for pages causes delay and frustration." (The same can be said for malware, viruses and older computers.)

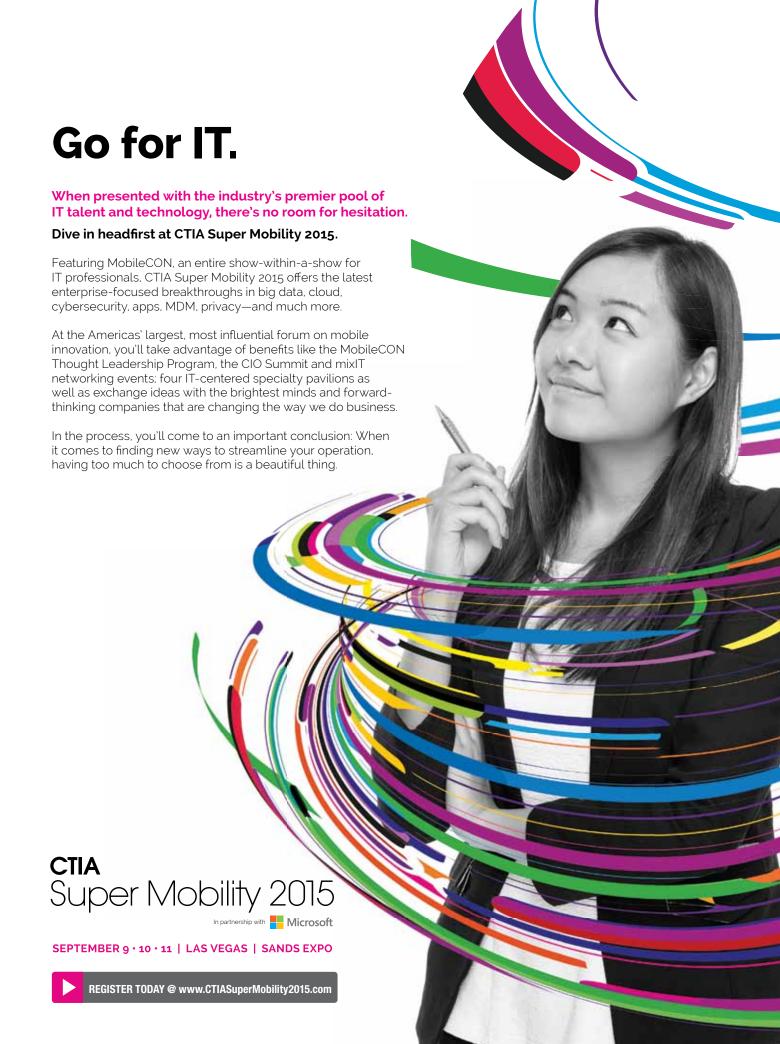
"Let's take a look at what you are using the Internet for, so that we can get you the right pipe. Fair enough?"

One responsibility of channel managers is to educate your partners. The education is often about products; it is rarely about how to sell it, what questions are working. When was the last time a channel manager provided a script to a new partner?

When the partner gets better at selling, he will sell more stuff – some of it will be yours, some of it won't.

Another component of education is on the Solution Sale. The customer asked for an Internet quote, did you ask what he was doing with it? We have options beyond managed router for the customer. We have hosted email, backup, collaboration, conferencing, etc. Telling your partner these options may help him keep them in mind for when the customer doesn't want a quote (for he is stuck in a contract). He can ask what they do for hosted email or backup — or even what conferencing bridge they use.

If anyone likes fishing, you use different lures for different fish on different days. The service portfolio is a tackle box filled with lures that the partner can use to go fishing for prospects. Many businesses have a contract for three years for phone and Internet. Getting in the door with something such as email or conferencing gives you a billing



relationship with that customer, and billing builds trust.

To be a true Telecom Solution Seller, the partner has to want to be more than the pipe salesperson. He may not be comfortable asking about any other services. He may be transactional. Replacement services of like for like (broadband or T1 for 10MB, SIP trunk for PRI) are easy to sell transactionally. But most businesses are using hosted email, conferencing, backup (hello, Dropbox!), especially today with smartphones and their personal clouds with Apple, Amazon and Google. It can still be a replacement sale.

It is about customer wallet share. Getting deeper into the customer (for the partner) means that the churn goes down, ARPU goes up and the commission checks get bigger. Another factor: no other partner will come along and replace your services with their own, cutting you out.

Network is the easy piece. Voice and cloud services are usually a little complicated because there are moving parts (such as phone numbers, data to move, and new processes to train employees on). Yet once you get them on your service, they are sticky.

The key to sales is to be helpful. In what ways can you enhance your relationship with your partners? One way is to let them know who is buying what. When a sale is made, let partners know. "This bank bought this and that". Now the partner has a concrete idea that banks buy this and that. Service providers can do this by email, but they can also utilize their LinkedIn group or Twitter account. It doesn't have to be email all the time.

The other big issue is: How do I get their attention? Partners are drowning in email and webinar invites. Maybe email isn't the best way to reach them. Have you asked them what method of communications they would prefer?

If the partner is ignoring emails, there are other avenues. Social networks such as Google + , LinkedIn and Twitter allow for a different way to reach out to a partner. It doesn't have to be a "Hey you!"

In my experience, congratulations are a great way to touch a person. Whether it is a birthday, promotion, anniversary — or, even better, their name mentioned in the press — dropping a quick "Congrats!" on social networks is a way to

get noticed while acknowledging the moment for the partner.

"Being helpful" was Zig Ziglar's definition of sales. Jeffrey Gitomer used to say, "Always give value first." What most people care about is themselves. WIIFM is the watch word of the day: What's In It For Me.

Treat the partner to a marketing campaign to peak his interest. Tweet about the new SPIFFs without details – have them reach out to you. Use it as a hook. "One partner just got a check for \$2,000. Contact me to find out how you can get one."

Send a Vine or a video email that is two minutes or less but is personal. "Hey, your last quote request was for a bank. Just sold a couple of bank deals. Think we can leverage that for your deal? Call me." It was quick, personal (or relevant), concrete, clear with a call to action.

Often I am added to email lists. This morning I received a "newsletter" with the subject line about a disaster area. The body was a mess of info about energy and mesh and renewable. No idea who sent it or why I got it. That is the case often. Don't be that person.

The subject line needs to catch their attention. (So does the sender name.) There needs to be a call to action. An irresistible offer – SPIFF, promotions – also helps. Through all this keep in mind: am I being helpful? Is this valuable? Would I send it to a friend?

As far as being helpful, think about new partners. How can you work with a new partner to get them a win in their first 60 or 90 days?

One reason Freemium is a popular model today is that the risk for a user is really low. Extrapolate that to our business. Free-trial offers or no-risk guarantees are noteworthy. If a partner is new, a smaller deal is less risky.

It isn't always about the price, sometimes it is about the risk (which is about trust). Build trust in little ways like testimonials and reference accounts. Written procedures for deployment and introductions to the implementation team or project manager also can help build trust with a partner.

Recruiting and on-boarding are just the beginning in a partner relationship. Helping the new partner with her first win is just as important.

CHAPTER 4: Recruitment

It all starts with recruitment. Pick the wrong partners and you will be wasting time. You can't even assume Pareto's Rule of 80/20; it's often 95/5. Only about 5 percent of your partners will produce consistent sales. And you want more like them, correct?

In each channel program, there is always the "quantity versus quality" debate. More often than not, there is pressure to add more partners. More is better. More

means more sales. That's the theory anyway.

"If the partner is selling our competitor, why couldn't he sell our stuff?" There actually could be a bunch of reasons. Ask Cisco partners to sell Juniper or Xerox partners to add Ricoh to their lines. Why aren't Ford dealers selling new Chevrolets?

But let's back up a little. Whenever I start a project in channel sales, the first thing I do is determine the

value proposition of the service provider. What differentiates this service provider from the competition? I ask that internally and externally – from partners, customers and employees. It is a valuable exercise. It is the foundation for the program: Why this service provider?

The why or the value prop is significant. It works out that organizations with a strong culture have the why baked in. Simon Sinek and Jim Collins have written about this extensively. The CEO of Zappos, Tony Hsieh, built a billion dollar business around his customer service culture. So the value prop, culture or the why is an important ingredient.

Next, I examine the existing partners. I create a partner profile of the best producers. Or, at the least, I create a set of criteria for potential partners. With the criteria, I have a checklist to use to determine who to look for - and who to decline.

While upper management may agree with a criteria (as a good idea), in actual practice, upper management will want to see signed partner agreements (plural, many). When asked why so few agreements were signed, the response that most did not fit the criteria is often met with sour looks.

Upper management wants to believe that everyone should sell their stuff, that everyone should want to and be able to. This is the crux of the problem. Most service providers are not Cisco or Microsoft with a service offering that is a good fit for everyone. Most companies deliver a service that has a good fit in a specific company and size (despite the crazed concept of being all things to all people).

Recently on a panel about "Why unified communication deployments go bad," all the panelists agreed that a majority of the issues with UC deployments were that the customer was sold the wrong service. The panelists also admitted that they would never say "No" to a sale, any sale. Why? They just want to book revenue – even bad revenue. They really don't care if the customer is a good fit (or if the customer is happy) as long as the customer is paying the bill. It is why many customers bounce at the end of contracts.

Then there is the flip side of the coin. The channel executives will wonder why the partners aren't selling. What they should be asking is: Why did we sign them up in the first place? Well, because you have a quota for new agreements - not new partners, new signed partner agreements.

Signing a partner agreement does not make anyone a partner. It is just one piece of the puzzle. It is a case of measuring the wrong metric.

In the VAR world of hardware and software, while anyone can sign an agreement, committed quota determines your discount and your support level.

If upper management decides that they need as many partners as can ink an agreement, well, you just have to go along. But be warned - programs that involve fogging a mirror as the chief requirement tend to falter. It

is expensive to hire enough partner managers, sales engineers and support staff to manage 500 partners. And channel managers only can interact with a finite number of partners per month. They can only provide a finite number of quotes each day. There is a point when having too many partners generating activity or needing attention will impact results.

One partner can generate a lot of work – quotes, questions, conference calls – but never generate a sale for a variety of reasons, not the least of which is that he doesn't trust you or he likes another service provider better. And let's not forget the golden oldie: he just needed three quotes.

The key to recruitment is a Red Velvet Rope Policy. It is a concept from Michael Port – and any trendy nightclub. A velvet rope only lets in the "cool" people, the people on the list. Not everyone can get in. It creates demand and peaks interest. Outback Steakhouse used to artificially create a line in order to spark demand. The RBOCs used to do this with exclusivity clauses, tests and hurdles to joining their program. Today, most programs just look for the ability to sign the agreement. If you can keep the pen in your hand long enough to sign, you are in. But does signing a partner agreement itself constitute a partnership?

The master agency model is kind of a red velvet rope policy. Over the years, a few carriers shifted to a master agency model, whereby only masters were partners; everyone else would have to go through a master. It formed a kind of velvet rope. Exclusivity is the velvet rope. If anyone can get in, it is about as special as McDonalds.

One way that channel managers see interest from a prospective partner is when there is a suspected hot deal. The potential partner wants to sign up in case this hot deal closes. I suggest you start asking some pertinent questions.

"Is this a one-time deal or do you see us working together with many of your customers?"

"How do you see us working together? How do you see our services fitting into your portfolio?"

In 15 years, only one channel manager has ever asked me these questions! Ask it and you will stand out, too.

Learn to say "No." It is liberating. It can morph into the take-away close – or it frees up your time to work with partners that will produce results. At the end of the month, we all have quotas to hit. In sales today, time management is one of the keys of selling. So any time that you can save and not waste will be a plus. In other words, learn to value your time like money.

The success of any program starts with recruitment. On-boarding is key, but without the proper partners

> to on-board, the program's success will be limited.



Peter Radizeski is President of RAD-INFO INC., a telecom strategy and marketing consulting agency.

PROFILE

NetCarrier Eyes Organic Expansion



netcarrier

By Tara Seals

NetCarrier has come a long way since its start as an AOL dial-up alternative operating out of a basement in Philadelphia. Back then, in 1996, no one could have predicted the shift to all-IP carrier networks – but NetCarrier has since become one of the strongest companies in the field, with a focus that's squarely on master agents.

From that humble start — "we had a couple of PRIs," according to vice president of sales Bruce Wirt — the company blossomed into a force in the market, with Internet access customers up and down the East Coast. In the late 1990s and early 2000s, when it was clear that dialup was going away, the company became a CLEC in Pennsylvania and went on to grow its footprint throughout the mid-Atlantic. Then, in 2011, it began a national push and now offers a full coast-to-coast slate of local and long-distance voice and data services, plus a prodigious bring-your-own-bandwidth proposition for a range of VoIP services.

On the facilities-based side, the company has six different NNIs for dedicated access, and its own last mile in 40 major U.S. markets across the country, served with fiber or copper and either type 1 or 2 access. It has an MPLS network that can integrate into any of those areas, and NetCarrier can get phone numbers in all 48 lower U.S. states with the ability to port numbers for almost any operator, including in the smaller cities served by independent LECs. And finally, it has six backbones for least-cost routing and redundancy.

As far as VoIP goes, "Our hosted VoIP platform is really unique," Wirt said. "This is based around a proprietary SIP architecture that allows us to bring enterprise-level features to SMBs – we can scale to thousands of seats, or serve as few as two or three."

It's not a fresh push for the company, he added, noting that the network was built around VoIP from the beginning. "Even back in 2001 and 2002, when we were just starting out as a CLEC, we had dynamically allocated T1s when no one was even thinking about that." said Wirt.

Also, all deployments are managed, he explained. "We don't believe in plug and pray," he said.

"Everything we do is managed, from the site survey to the equipment installation and testing to the LNP turn-up. We also have no answering service, and no customer service outsourcing. Customers call and we answer, with a 27-second average response time."

Of the BYOB push, Wirt explained, "We had a lot of customers that had Comcast circuits already and those from other providers. We discovered that customers in many cases would order a circuit with enough bandwidth from someone in their local market, but then want to deploy NetCarrier voice."

To add momentum to its ongoing expansion, the company has been building out a dialogue with master agents, and to date has signed up CSNG and TBI, among others.

"The thing that wins them over is the fact that we're not just a VoIP provider," Wirt said. "Our niche is that we can offer hosted VoIP over any type of access, but also the traditional stuff."

In 2007, the company decided to go completely indirect, jettisoning the last of its direct sales people in favor of hiring a team of channel managers, support personnel, sales engineers and operational staff. As part of that decision, the company is structured under one organizational chart. "Our messaging is aligned to the same goals across departments," Wirt said. "Some of the big guys, when you submit an order, sales sends it on to support, and it's a separate org chart, and they may kick it back. We are set up with the right model to have the best support we can for our partners."

Going forward, the company's goal is to continue to grow its master agent channel and cultivate solid VAR relationships, to position for ongoing, national, organic growth.

"Our eyes are focused on the master agent channel, because we know that's the best way to develop market penetration in different geographies around the country," Wirt said. "We actively recruit VARs almost everywhere — and we feed those to our master agents. We also have agreements with different providers to give us channel partners on the street in various markets."



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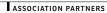






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