Diameter to be tested by data, VoLTE demand; evolve in a NFV, SDN, cloud world

By Dan Meyer
Mobile telecom networks are constantly seeing their capabilities pressured by ever-increasing demand from consumers to remain connected at all times. This has forced telecom operators to throw billions of dollars at spectrum resources, network technologies and marketing tactics in order to gain control over their operations.

One network element increasingly coming under the microscope is Diameter signaling, which is the traffic cop tasked with identifying and routing network traffic across IP-based LTE networks to ensure everything runs smoothly. When Diameter platforms struggle, we have seen networks nearly brought to their knees. But, when they are up to the task, they disappear into the complicated morass that is the modern telecom network.

The Diameter protocol is responsible for authentication, authorization, accounting, policy and charging, and mobility management in LTE networks, expanding its 3G role in policy and charging – meaning that issues with Diameter not only have the potential for slow networks or dropped connections, but lost billing information.

In this latest update on the Diameter space, we will look at how the market has evolved over the past 12 months; where we stand today in terms of Diameter development and deployment; challenges facing the Diameter market; the impact new services like voice over LTE and increased consumer demand for mobile video are having on Diameter; and what can be expected from the market over the next 12 months.

**Diameter market by the numbers**

Infonetics Research recently noted the global Diameter signaling controller market increased 81% in 2014, hitting $381 million. The market was boosted by growing LTE network deployments and customer usage, with Infonetics predicting the Diameter signaling control market to grow threefold between 2014 and 2018, hitting $1.8 billion.

Infonetics also found that in 2014, top use cases for Diameter were based on centralized routing and roaming via Diameter edge agents. North America was singled out as the largest market for Diameter signaling controller revenue, accounting for more than one-third of the market, followed by Europe, the Middle East and Africa and Asia Pacific.

“Growth in the regions is predominantly tied to rising LTE subscribers, however in EMEA, where there are many more operators, the need for signaling controllers for roaming is having an impact,” the firm noted.

Infonetics noted a number of top vendors in the space, including Huawei, F5, Oracle, Ericsson, Alcatel-Lucent, Sonus and Mavenir, with expectations of continued consolidation possible.

Oracle, as part of an extensive report, said it expects traffic across Diameter signaling platforms to surge from 30 million messages per second in 2014, to 395 million messages per second in 2019, which it attributes to increased penetration of LTE services. (See sidebar for more details from Oracle.)

**Diameter in a growing data world**

Obviously, the numbers show the market for Diameter is expected to post robust growth over the next several years. But, that doesn’t mean the market has not seen growth and evolution over the past 12 months. This surge
Oracle cites LTE Broadcast, policy and VoLTE as Diameter traffic drivers

Telecom operators have been busy in recent years throwing out diverse rate plans in order to entice increasingly fickle consumers and outmaneuver their rivals. These moves have put tremendous stress on LTE Diameter signaling traffic, which is expected to explode over the next five years.

According to a new report, “Oracle Communications LTE Diameter Signaling Index, Fourth Edition,” LTE Diameter signaling traffic is predicted to grow at a 68% compound annual growth rate through 2019, with total Diameter traffic surging from 30 million messages per second in 2014 to 395 million MPS by 2019. Oracle notes that growth will push Diameter signaling traffic past total global IP traffic over that time frame, and put a substantial burden on wireless carriers to bolster their Diameter signaling platforms.

“As CSPs continue implementing LTE networks, they must effectively manage the resulting Diameter signaling traffic in capacity planning. Ignore it, and CSPs risk network outages or overprovisioning,” said Greg Collins, founder and principal analyst at Exact Ventures, in a statement tied to the Oracle study. “With the massive growth that Oracle is forecasting … CSPs should focus on implementing a Diameter signaling infrastructure that is scalable and reliable to cost-effectively control and route signaling traffic.”

The Oracle report cites a handful of application areas expected to generate healthy increases in Diameter signaling traffic, including:

- LTE Broadcast, which Oracle states is the fastest-growing generator of Diameter signaling traffic on track to rack up 49.5 million MPS by 2019. “The technology is just emerging, and continued growth is expected as CSPs trial LTE Broadcast for everything from digital signage to live video feeds at sporting events,” Oracle notes.
- Policy, which is the main driver of Diameter signaling traffic and expected to create 277 million MPS by 2019. “With more sophisticated policy use cases, the number of Diameter transactions between policy enforcement points and charging has increased,” Oracle said.
- Voice over LTE, which is expected to post a 49% CAGR by 2019, generating 43.1 million MPS.

Breaking down predicted Diameter signaling growth by region, Oracle predicts developed markets will be the biggest overall drivers of traffic, though developing markets will see the most dramatic increases in overall traffic generated.

Asia-Pacific is expected to post the most Diameter signaling traffic by 2019, with the region generating 188 million MPS by 2019, at a 78% CAGR. Oracle also notes the region will lead in VoLTE signaling, generating 19.9 million MPS by 2019, at a 55% CAGR.

North America was cited by Oracle as “beginning to mature in Diameter signaling traffic,” predicted to generate 82.9 million MPS by 2019, though with growth slowing to a 42% CAGR. Europe is expected to be a close No. 3, generating 78.7 million MPS within the next four years.

Of the regions expected to post the most dynamic growth, Oracle noted Latin America and the Caribbean will see a 118% CAGR by 2019, with overall Diameter traffic hitting 15.4 million MPS. The Middle East and Africa is expected to post slightly lower growth with a 103% CAGR, through overall traffic is forecast to hit 29.8 million MPS by 2019.
has been boosted by the continued rollout of IP-based LTE networks that rely on the Diameter standard to handle network signaling; the continued adoption of mobile data services by consumers, most notably bandwidth-hungry mobile video services; and telecom operators continuing to bolster their LTE core with IP multimedia subsystem deployments.

“Diameter has been growing really strong over the past few years,” noted Greg Collins, founder of technology analyst firm Exact Ventures. “LTE and IMS are driving a lot of the growth, though there are a number of different elements that ‘speak’ Diameter, including policy and billing, with that number expanding as network traffic grows in the packet core and IMS.”

According to recent figures from the Global mobile Suppliers Association, at mid-year 422 operators had launched commercial LTE systems in 143 countries, with expectations of 460 commercial LTE networks by the end of 2015. Those networks were supporting 755 million mobile connections, with more than half of those added over the past 12 months. The GSA said it expects total LTE-based connections to hit 1 billion by the end of the year.

This growth has come from both the launch of new networks garnering early adopters as well as increased competition in developed markets supporting multiple LTE carriers.

“We are past the point of Diameter being a novel thing with the number of LTE deployments out there,” said Bill Welch, senior product manager of Diameter signaling controllers at Sonus.

Vendors noted carriers in those developed markets have rapidly moved beyond the phase of just having an LTE network in order to be competitive to over the past year figuring out that they needed to tap into the full capabilities of those networks in order to remain competitive and gain
greater operating efficiency.

“This year we have seen the market move beyond just offers of plain data,” explained Kevin Summers, senior director mobile strategy at Mitel. “The rollout of LTE seems to be inevitable. What I am seeing is that when I spoke with customers last year they said LTE was wonderful and couldn't we keep it just like that. The answer for most developed markets is no. Voice and video need to be supported and it has impacted all vendors. On the signaling front it means that this year we have had to start working hard to support voice over these networks and interfaces. That evolution is just going to grow.”

In support of that evolution, telecom carriers appear to be recognizing the need to ensure their LTE networks are able to handle growing demand. Early trials and tribulations showed that underestimating the need of robust Diameter support for LTE deployments will cause network pains, which some noted carriers have taken to heart.

“We as an industry have done a good job in letting carriers know that they need to understand,” said Peter Nas, senior solutions architect at F5. “Network traffic growth problems require operators to put serious though put into their diameter deployments and I think they have realized the importance of really thinking through those deployments. The technology and those deployments are more mature now and operators know it’s not just a sales pitch anymore. It’s how they need to design it and they are more realistic in those designs. They know they need to put in diameter to protect their networks.”

SS7 remains in play

With growth in LTE deployments and customer adoption driving increased Diameter traffic, some vendors noted that over the past year they have also seen telecom operators needing to bolster their legacy SS7 platforms serving their 2G and 3G networks. Joerg Ewert, technical product manager for Ericsson’s BU Cloud and IP division, explained that in some cases LTE networks still lack the outright reach of legacy networks, but that hasn’t stopped consumers from increasing their data demands.

“Over the past 12 months there has been momentum to combine Diameter and SS7 traffic,” Ewert said. “SS7 is not growing as much, but its still being supported and a lot of the legacy SS7 equipment is older and carriers are finding it needs to be updated.”

Summers said that with 90% of mobile customers worldwide still on 2G or 3G connections, SS7 will remain a significant part of telecom networks for years to come.

“Big operators I have talked to have said it will be at least 10 years before they expect to see any reduction in SS7 traffic,” Summers said. “It’s maybe not growing, but it’s not shrinking or going away. There are certain end-of-life situations occurring that means there are vendors being asked to upgrade. But, for now you can’t just turn off SS7 support and if your platform is not able to handle any increase in traffic load, then you are likely looking at some sort of upgrade.

Policy and charging platforms are also in need of updating as mobile operators become more aggressive in marketing services. That aggressiveness has seen carriers roll out new rate plans for both traditional mobile customers as well as more creative offerings tied to enterprise customers and growing insertion of cellular connectivity tied to the “Internet of Things.” What were initial deployments designed to handle basic rules and functions have become platforms tasked with making sense of marketing and billing creativity.

“[Policy and charging rule functions] was deployed as part of Diameter because it was part of the specification or was thrown in because it was part of the packet core, but carriers did not pay attention to the details. For many that deployment let them check that box,” explained Steffen Paulus, director of product marketing for policy, charging and network analytics at Alcatel-Lucent. “But, as mobile data surged and policy became more central to operations, those PCRFs were not made for that. Similar to the Diameter signaling controller market in that a lot of the tools can do the job, but are not really made to handle the changing and growing market.”

VoLTE pushing diameter demand

VoLTE, while still in its infancy, is also said to be placing considerable strain on Diameter platforms. Vendors noted just setting up a single VoLTE call results in up to a dozen Diameter signals, which considering operators are looking towards VoLTE to at some point support all voice traffic, is setting up to be a significant signaling generator.

Domestically, three of the nation's four largest mobile operators have launched VoLTE services, providing high-definition voice and
video capabilities to some customers. However, limitations remain in terms of device compatibility and so far there is no support for cross-carrier conversations, though work is progressing on both of those fronts. Those issues have also kept carrier somewhat subdued in terms of promoting those efforts, thus keeping VoLTE-related signaling traffic modest.

Analysts are also somewhat mixed on their views VoLTE to impact signaling platforms.

“VoLTE could create its own signaling storm, although we don’t see it being nearly as problematic as previous signaling storms,” noted Michael Thelander, CEO and founder of Signals Research Group, in a recent report looking at VoLTE deployments. “We do believe that an increase in signaling traffic isn’t necessarily a bad thing. In the case of diameter signaling, it could merely be an artifact of new sources of revenue that did not previously exist. This situation is much different than what transpired with the 3G signaling storm, which was generally caused by rogue applications which generated a disproportionate and frankly unnecessary amount of signaling traffic relative to the actual data payload. Then again, operators in many regions of the world do not have any specific plans to monetize VoLTE. Instead, they are including it as a ‘free service’ that gets billed no differently than what they offer today with their subscription packages that typically involve unlimited voice and a limited monthly data package. … Further, the industry is better prepared to deal with a signaling storm. Vendors have supposedly taken into consideration high signaling loads when designing their platforms and operators claim to have architected their network accordingly. If anything, the anticipated increase in diameter signaling traffic does add credence to the need for some sort of diameter signaling controller/agent to aggregate, route and control the signaling traffic that does exist.”

Exact Ventures’ Collins echoed Thelander’s comments, stating he thinks there should not be any signaling issues related to broader VoLTE deployments in the near term, though it was still too early to tell what could happen down the road.

“VoLTE has not yet taken a lot of traffic yet,” Collins said. “A lot of work has been done to handle potential signaling storms, but so far it’s hard to say if there is enough capacity to handle the load. I think there is not enough capacity there today to handle loads that will be there in three years. … Operators have been slower to deploy VoLTE and hopefully they can work on getting the support in place.”

Despite the slower than expected roll out of VoLTE, carriers know they must move forward with deployments if they want to stay above the “dumb pipe” analogy in the minds of consumers. Over-the-top players have already established a beachhead in the minds of consumers for providing video calling and advanced messaging services, with FaceTime, Skype and Facebook quickly becoming the “Kleenex” of the space.

Vendors have noticed that pressure and are working with carriers on battling the OTT threat.

“VoLTE is tricky from so many angles,” Summers explained. “Operators took the approach that ‘I can’t make money on this. I can’t sale voice as an extra service.’ Now we know that’s not true. Operators were asleep on
Mobile operators need to be fully prepared for the global rise in LTE subscriptions and the new signaling concerns this presents

Robin Kent, director of European operations, Adax

The number of devices with access to LTE networks is constantly rising across the globe. ABI Research predicts the total number of LTE subscribers will hit almost 1.37 billion by the end of the year, rising to 3.5 billion by 2020, as the technology continues to thrive in a range of markets. It’s clear that the demand from end users to be connected to a “smarter world” is ever increasing, driven by the much publicized “Internet of Things,” the rise in data and application use, and voice and video calls over LTE, which operators are now beginning to offer end users.

However, this surge in traffic across the network will have a detrimental impact on operators that are ill prepared for the future. While investment in LTE infrastructure is expected to grow nearly 10% year-on-year, it’s paramount for operators to know exactly how to prepare efficiently.

Network operators that are unprepared will be faced with a potentially severe “bottleneck” in their network. There are basic issues with Diameter signaling, the protocol that enables communication among network elements, that threaten to cause mass disruption to the network, which could lead to a diminished quality of experience for network subscribers and ultimately operator revenue loss.

Problems with the underlying transport protocol

The problem is not with Diameter itself, but rather its underlying transport protocol. Many operators are still using the outdated transmission control protocol, or indeed user datagram protocol for radius as a transport, which are simply not up to the task of handling tens of thousands of active co-current connections.

TCP is largely insufficient and cannot cope with the specific signaling needs that the LTE network requires, let alone the demands that IoT traffic and increased voice over LTE will place on the network. A single VoLTE call alone can require more than nine Diameter transactions, which places a large amount of pressure on the networks.

Greater volumes of data transfer and consumption mean that the strain is being felt at various levels, and critical, evolved signaling and transport solutions are needed to match the demands.

A creaking TCP infrastructure is also having a huge impact on operators’ ability to analyze data. A reliable and robust transport layer, which can cope with thousands of signaling messages, is a fundamental part of the analytics process for operators. It is one of the primary steps in the data analytics sequence. Data has to be delivered to operators on time, accurately and reliably. Unstable signaling will have a negative effect on network behavior and distort this analytic data.

The transport layer is not only important in the data analysis process. It also plays a significant part in the control of data consumption and the volume of transactions. This has become especially important following the vast uptake in data-centric applications. Instant messaging and voice over Internet Protocol, along with video content downloads and sharing, are all particularly bandwidth sapping, meaning the transport layer is a vital component for operators.

How to keep up with the evolving end user habits

In light of these issues, stream control transmission protocol is the transport solution that operators should be, and indeed more are, beginning to turn to due to the limitations of TCP. Embedded Linux SCTP may seem like the more convenient and economical solution but it cannot keep up with the multitude of connections and constant user activity that is the very essence of the new LTE network. This requires a large number of signaling connections and concentration for efficient routing, which is only going to increase as more devices join the network. The challenge for operators is pre-empting this problem by employing signaling solutions that can support more intelligent signaling and traffic patterns.

While there are deficiencies in the standard SCTP protocol, the problem is far greater than simply signaling transport technology. Operators are running the risk of failing to keep up with their network subscribers’ needs and demands. This isn’t a case of replacing the entire transport protocol; operators should be implementing upgraded solutions that recognize the changing data consumption landscape. Unlike previous networks, operators are experiencing an unparalleled volume of simultaneous connections on the LTE network. The number of Diameter transactions is on a sharp increase and the performance of its underlying transport layer – SCTP – is critical to maintaining a high level of customer experience on the network.

The solution Adax has developed, SCTP/T, provides Diameter with thousands of robust and reliable associations; ensuring Diameter’s instant readiness and ability to carry the traffic required by the host application to any and all of its possible destinations.

Policy management, maximizing revenue and effective billing

If the transport protocol cannot cope, then it poses a problematic challenge for operators who are trying to manage the signaling messages that are coming through from the network. Again, the issue here is forward planning as operators will be unable to identify popular items of data and subsequently manage or alter policy accordingly.

It’s clear that LTE has opened up a number of alternative revenue channels for operators, but due to the signaling deficiencies in the network there is a high risk that service providers won’t bill users accordingly. The ability to control communications is seriously affected with inadequate transport protocols, but the power to control billing policy will also suffer because operators are effectively operating wearing a blindfold. Information is not being transported correctly, and personalizing their service plans will be near impossible.

Overcoming challenges and securing the next generation network

To overcome the challenges of an ageing signaling infrastructure, operators must look at a solution that performs vigilant in-service quality monitoring along with precise detection capabilities. But it’s not just a case of improving the reliability of signaling transport solutions.

It’s also crucial that operators look at investing in transport technology that provides the necessary security for the network and its subscribers. The rapid development of IoT has worried some. Not all IoT traffic will go over LTE, some will run over 3G or could potentially be broken down to a more granular protocol level, with GFP for example. Some answered questions also remain as to whether IoT devices that require network connectivity have the necessary security protection that is required of traditional devices accessing the network.

If there is a fault in the transport protocol, operators are either receiving mixed or incorrect messages that can compromise network security. Faulty signaling, on any level, is an invite to harmful content and ability to carry the traffic required by the host application to any and all of its possible destinations.

The LTE network is maturing quickly, but there are still fundamental problems with the basic infrastructure. With the developments in IoT technology, the rise in voice and video over LTE offerings, and data and application use on the increase, not to mention “5G” on the horizon, the problems with inadequate network signaling capabilities in the core network have to be eradicated now otherwise the infrastructure will be unsustainable. As new technologies that require network connectivity develop, it becomes incrementally important that basic network requirements, such as reliable signaling processes, are prepared and fully functional by the time the connecting technology is ready to be connected. LTE needs reliable, high-performance, high-capacity signaling capabilities now.
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message and have lost that market to OTT and now voice could be next in line. Operators are doing a great job with their networks and the OTT guys are going to take advantage of that.”

Summers added that while VoLTE can be a significant challenge for VoLTE in terms of initial call set up, the application itself does not require a lot of bandwidth, and thus should not be much of a burden once a connection is established. More troubling for carriers are VoLTE’s low latency requirements and coverage.

**Diameter in a virtualized world**

When looking towards advancements in Diameter platforms, many pointed towards virtualization. The telecom virtualization space has witnessed significant moves towards the use of SDN, NFV and cloud in order to help mobile operators gain further network efficiency and increase network agility, and the software-centric nature of Diameter lends itself to such deployment models.

Infonetics recently said it expects Diameter signaling controllers to be implemented as virtual network functions beginning this year, with North American operators and a few European mobile operators leading the charge.

Oracle’s latest Diameter market index predicts Diameter signaling will become more common in virtualized network deployments, as “the ability to virtualize various components provides CSPs with more flexibility in their implementations. Adding more components means adding to the Diameter signaling MPS.”

“LTE innovation is still in the early stages, but it is gaining momentum,” said Doug Suriano, SVP and GM at Oracle. “And we’re looking beyond today’s LTE – NFV is developing, creating a very attractive cloud-based LTE opportunity. The time for CSPs to plan for Diameter signaling growth is now.”

Analysts also see the opportunity virtualization can provide for Diameter plans, noting the scalability and agility expected from virtualized deployments are a good fit for carrier Diameter plans.

Larger telecom operators appear to be heeding that advice, with vendors noting a growing interest from their customers in platforms with virtualization as part of their roadmap.
“We have some major tier-one operators in Europe sending out RFPs and RFIs for full blown automated NFV architectures,” explained Sonus’ Welch, who added he has been a bit surprised at the advanced nature of these efforts.

“I did not expect to have these discussions on bringing NFV to market until 2016, so it’s sort of six months ahead of schedule,” Welch said, adding that while advanced in terms of discussion timing, telecom operators are still a bit perplexed on just how they plan on virtualizing their Diameter operations.

“Most of the talks are looking at [capital expense] and [operating expense] savings,” Welch said. “Some are looking at the mobile core first then coming back to Diameter later, but then they come back with RFPs asking about moving first with Diameter. This mostly seems attached to their risk tolerance. If they are starting from scratch and have not had any type of acquisition for a cloud player then they are still scratching their head. But, if they have picked up cloud players or software players they are thinking more about it a move.”

Despite the seeming match between Diameter and virtualization, there remain concerns over the reliability of NFV and SDN deployments, especially in terms of handling something as important to network integrity as Diameter signaling.

“Signaling is really critical and operators are still a bit averse to move from the platforms they know and love to virtualized environment,” Collins said. “A lot of Diameter platforms now are software based and run on third-party hardware so there’s not much of a stretch to move towards virtualization, but valid concerns remain.”

Welch admitted that those questions are indeed still out there and will likely result in telecom operators dabbling first with virtualizing less mission critical platforms before making the jump to virtualizing their Diameter efforts.

“Probably the first thing we will see will be just in support of Diameter instead of a full blown scalable model,” Welch said.

IoT uncertainty

Looking further down the road, Diameter signaling platforms are also expected to see an influx of work tied to the growing IoT space. Vendors have been very vocal in predicting tens of billions of “things” will soon be clamoring for access to the Internet, with many of those striving for a mobile connection.

While models are still being worked out, what has been seen so far in the connected car space is enough to concern Diameter platform deployments. Gartner predicts there will be a quarter-billion connected vehicles on the road by 2020, with new vehicles dramatically increasing the proportions of connected cars. Those vehicles will require networks to handle a multitude of potential chores through a single LTE connection, some of which will require near-zero latency.

Broader IoT models will likely not require as much signaling per device as a connected vehicle, but are expected to make up some of that difference in the sheer mass of those connections.

“IoT will expand the number of devices and will increase the number of transactions, but it will depend on what the devices are that are attaching to the network,” Collins said. “Meters, for instance, won’t generate a lot of traffic, but the connected car will.”

Ericsson’s Ewert concurred, noting these IoT connections are set to fuel the market. Ericsson recently announced a partnership with AT&T and chipmaker Altair to showcase battery technology designed to power an IoT device for up to 10 years, highlighting the long tail nature of the IoT market.

“IoT definitely needs to be factored into the conversation in terms of Diameter signaling,” said Robin Kent, director of European operations at Adax. “Will it be a device that just connects to the network once per day, or is it live and constantly being polled. The impact of the application will have a huge impact on how carriers manage their Diameter platforms.”

These questions are significant in the vacuum of just M2M and IoT models, but when discussed in the bigger picture they become even more significant.

“Is this segment does become a bigger signal driver, carriers are not going to want those services to override their need to support VoLTE signaling, which is an immediate consumer-facing service,” noted F5’s Nas. “Carriers want to be able to be ahead of these issues and manage the potential risk.”

Indeed, it appears that a number of technology advances and service trends are set to have an impact on the Diameter market moving forward. Then again, if the market is to hit forecasts, that impact is to be expected. (6-0)
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JDSU serves markets that are at the heart of what's important, making virtually every network in the world faster and more reliable. From development and planning, through deployment and turn-up testing, to optimization and assurance, JDSU test instruments, software, and expertise ensure that all network's DSL, fiber, cable, and wireless are always working at their best.

Jinny Software
Telecom Software
www.jinnysoftware.com
Global provider of Mobile VAS infrastructure, Mobile Advertising and Diameter Signalling solutions.

Kansys, Inc
Telecom Software
www.kansys.com
Kansys, Inc is an IT Solutions Firm founded in 1997. Our adaptive approach allows us to Collaborate, Develop and Manage solutions that increase revenue and maximize operational efficiency. The use of Metadata driven software allows us to be nimble and quickly build solutions.

KPMG CE1M
Telecom Software
tmt@kpmg.com
www.kpmg.com
KPMG’s team of telecoms experts work with some largest fixed, mobile and satellite companies all over the world to address their current challenges and better align their capabilities with today’s consumer. Whether this means acting as a central ecosystems manager, or providing network, software and device capabilities, our global team can help define strategies to adjust to today’s rapidly changing market.

Laris Consulting LLC
Telecom Software
213 Carnegie Center #3522
Princeton, NJ 8543
Contact: Michael Gayden
609-542-0478
info@larisconsulting.com
www.larisconsulting.com

Laris Consulting provides value-added services to regional mobile carriers. We leverage a proven business model (music bundled with a rate plan) to drive subscriber growth, enhance brand loyalty, and create subscriber stickiness. We make carriers stronger.

Level70
Telecom Software
171 Nashua Rd.
Bedford, NH 03110
Contact: Noelani McGadden
603-661-9191
noelani@level70.com
www.level70.com
Level70 provides value-added services to regional mobile carriers. We leverage a proven business model (music bundled with a rate plan) to drive subscriber growth, enhance brand loyalty, and create subscriber stickiness. We make carriers stronger.

Link Analytics
Telecom Software
1050 Crown Pointe Parkway
Suite 1580
Atlanta, GA 30338
404-645-7308
info@linkanalytics.com
www.linkanalytics.com

Link’s suite of Advanced Analytical technology-based solutions, designed for the Communications industry, can be integrated into your organization to optimize media and marketing spend, discover competitive opportunities, and understand the customer experience.

MATRIXX
Telecom Software
www.matr ixsw.com
MATRIXX Software enables NOW. We give Communications Service Providers instant visibility, intelligence and control of services across your network. Our patented, smart charging technology enables a seamless, intuitive service experience that empowers your subscribers - in the moment, every moment. Delivering up to a 100 times increase in efficiency and scalability, we equip you with the most advanced solution designed specifically for the data generation. Charging. Policy. Insight. Value. NOW.

Mavenir
Telecom Software
www.mavenir.com
Mavenir is a leading provider of software-based networking solutions that enable mobile service providers to deliver high-quality internet protocol (IP)-based voice, video, rich communications and enhanced messaging services to their subscribers globally.
MDS (Martin Dawes Systems)
Telecom Software
www.mdscem.com
MDS provides managed revenue and customer management solutions for communications service providers that are flexible and assured to enable operators to grow their business and effectively serve their most complex customer bases.

Metaswitch
Telecom Software
www.metaswitch.com
Metaswitch is powering the transition of communication networks into a cloud-based, software-centric future. With a reputation earned by solving tough technical problems, Metaswitch develops openly programmable solutions that run on standard hardware or in virtualized environments and act as the key control points in elastic voice, video and data networks.

Microsoft
Telecom Software
www.microsoft.com
Microsoft, in concert with its Partners, delivers flexible B/OSS solutions that span billing and real time charging, service fulfillment, service assurance, service delivery platforms, and network management and scale to meet the requirements of Service Providers of all sizes.

MobileComm Professionals Inc.
Telecom Software
465 W President George Bush Hwy, #200
Richardson, TX 75080
Contact: Gurmeet Likhari
214-575-4500
newsletters@mcpsinc.com
www.mcpsinc.com
MobileComm Professionals is a key industry player in the wireless services arena. We utilize our expertise in wireless services to provide quality centric, cost effective solutions to all major Wireless Mobile Operators, Engineering firms, Infrastructure providers and Original Equipment Manufacturers (OEMs).

Mobixell Networks
Telecom Software
www.mobixell.com
Mobixell provides intelligent mobile video optimization and web acceleration technologies that optimize Operator's data network and maximize data profitability. Mobixell solutions enable operators to provide superior broadband and Internet services to their subscribers, with excellent rich media user experience and enhanced value added services. Our solutions include mobile data and video optimization technologies, Web acceleration, overall traffic management, and advanced revenue generating services.

Mobolize
Telecom Software
2800 28th St
Santa Monica, CA 90134
Contact: Tiffany Ashnawy
310-693-8340
info@mobolize.com
www.mobolize.com
Mobolize CacheFront is Endpoint Web Optimization software that provides content delivery optimization at the point of greatest impact: the endpoint device.

Mocana
Telecom Software
www.mocana.com
Mocana unlocks the extended mobile enterprise and simplifies wide-scale deployments by securing apps automatically, in seconds. The company’s Mobile Application Protection (MAP™) app-shielding solution - distributed globally by SAP - mitigates the complexities of mobile management, while freeing developers from tedious and expensive security coding projects. Frost and Sullivan 2013 “Ten to Watch” list of operational support systems companies (OSS)/business support systems (BSS).

Monolith Software
Telecom Software
www.monolith-software.com
Monolith Software provides a next generation, software that provides content delivery optimization at the point of greatest impact: the endpoint device.

Mycum
Telecom Software
www.mycum.com
Mycum is a leading independent provider of carrier-grade Network and Services Performance Management solutions and Advance Engineering Services to the world’s largest Communications Service Providers (CSPs). Its products, services and 700 staff are focused on delivering advanced network performance intelligence that enables CSPs to optimize networks, govern suppliers, rapidly launch new technology and services, and deliver high quality customer experiences.

Nakina Systems
Telecom Software
www.nakinasystems.com
Nakina Systems provides Network Integrity Management solutions to the telecommunications industry worldwide. Our solutions enable service providers to introduce new services and grow networks more rapidly and with fewer outages by automating the discovery of network equipment, reconciling with inventory systems, auditing software in the network, and centralizing management of network security. Nakina’s solutions power integrity in the world’s largest networks, and they are provided in partnership with the world’s largest and most advanced equipment manufacturers.

Napatech
Telecom Software
www.napatech.com
Napatech is the world leader in accelerating network management and security applications. As data volume and complexity grow, the performance of these applications needs to stay ahead of the speed of networks in order to do their jobs. We make this possible, for even the most demanding, high volume, telecommunication, corporate and government networks. Now and in the future, we enable our customers’ applications to run faster than the networks they need to manage and protect. Intelligent Real-Time Network Analysis - Frost and Sullivan 2013 “Ten to Watch” list of operational support systems companies (OSS)/business support systems (BSS).
NetCracker
Telecom Software
University Office Park III, 95 Sawyer Road
Waltham, MA 02453
800-477-5785
joanna.larivee@NetCracker.com
www.netcracker.com
NetCracker Technology is the proven partner for communications service providers and cable operators offering comprehensive, end-to-end solutions and delivery capabilities to optimize their enterprise. With its global reach, leading-edge technology, and unbroken track record of successful implementations, NetCracker helps eliminate operational and business silos and delivers real-time experience in an on-demand world.

Netformx
Telecom Software
www.netformx.com
Netformx is the leader in collaborative requirements-to-order software solutions for enterprise technology.

NetNumber
Telecom Software
650 Suffolk Street, Ste. 307
Lowell, MA 01854
Kim Gibbons
978-848-2820
info@netnumber.com
www.netnumber.com
NetNumber delivers a common NFV infrastructure for all signaling control, policy enforcement and subscriber database services in the network.

Netscout
Telecom Software
310 Littleton Road
Westford, MA 01886
800-357-7666
info@netscout.com
www.netscout.com
NetScout Systems, Inc. is the market leader in Unified Service Delivery Management enabling comprehensive end-to-end network and application assurance. For over 25 years, NetScout has delivered breakthrough packet-flow technology that provides trusted and comprehensive real-time network and application performance intelligence for the network, applications and users.

Neustar
Telecom Software
www.neustar.biz
Neustar, Inc. (NYSE: NSR) is a trusted, neutral provider of real-time information and analysis to the communications services, financial services, retail, media and advertising sectors. Neustar applies its advanced, secure technologies to help its clients promote and protect their businesses.

Newfield Wireless
Telecom Software
2855 Telegraph Avenue, Suite 200
Berkeley, CA 94705
Contact: Matthew Ehrenmann
510-848-8248
sales@newfieldwireless.com
www.newfieldwireless.com
Newfield Wireless is a pioneer in next-generation mobile geoanalytics. Our TrueCall platform unlocks rich user experience and location data enabling mobile operators to optimize their networks, maximize service assurance, launch new services and monetize subscriber data. Operators can view their entire networks one subscriber experience at a time.

NexGen Utility Solutions LLC
Telecom Software
2050 Marconi Drive Suite 300
Alpharetta, GA 30005
404-713-6972
tstrickland@nexgenusa.com
www.nexgenusa.com
NexGen Utility Solutions is a provider of device installation solutions and technical resources to leading energy utilities, communications companies and OEM device manufacturers throughout the United States. Our company implements, builds and supports America’s infrastructure: the smart grid, wireless communications systems, wireline telecommunications.

Nexius Software Solutions
Telecom Software
www.nexius.com/services/software-solutions
Network and Business Intelligence data-driven solutions to assure a quality service experience, drive operational efficiencies and uncover business opportunities. Nexius believes that there is a treasure trove of opportunities in Big Data from networks, devices, and social media to improve a service provider’s business. Through our deep experience with structured and unstructured data, business and operational support systems (B/OSS), and leading data analytics platforms, we can develop, integrate and optimize a solution to unlock the value in your data.

Nokia Solutions and Networks
Telecom Software
6000 Connection Drive
Irving, TX 75039
Contact: Pepe Lastres
972-374-3000
pepe.lastres@nsn.com
www.nsn.com
Nokia Solutions and Networks (NSN) provides the world’s most efficient mobile networks, the intelligence to maximize network value and the services to make it all work seamlessly.

Ontology Systems
Telecom Software
www.ontology.com
Ontology Systems is revolutionising how companies use their application data. Using semantic search technology, Ontology applies the power, simplicity and speed of search to business applications across the enterprise. Search and centralise applications, databases, files, spreadsheets – anywhere, without the cost and risk of integration.

Openet
Telecom Software
1886 Metro Center Drive, Suite 310
Reston, VA 20190
703-480-1820
info@openet.com
www.openet.com
Openet software enables the world’s largest network operators to innovate service offerings in an increasingly mobile, data-driven society. Our technology extends from the network core to the mobile device and our products represent an integrated suite of industry leading charging, policy, data management, and interaction capabilities. Together, these represent a powerful platform for service innovation in a dynamic, connected world.

OpenText
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275 Frank Tompa Drive
Waterloo, ON N2L 0A1
519-888-7111
sales@opentext.com
www.opentext.com
Our EIM products enable businesses to grow faster, lower operational costs, and reduce information governance and security risks by improving business insight, impact and process speed. OpenText strives to enrich the way people use information, foster innovation, be trusted in our relationships, be committed to excellence in all that we do, work with our stakeholders and demonstrating honesty and passion towards common goals.
Openwave Messaging
Telecom Software
www.owmessaging.com
Openwave Messaging is the leading global provider of innovative messaging software solutions. The company’s Universal Messaging Suite™ provides a powerful, open and flexible, complete messaging environment optimized for today’s most complex messaging requirements, including millions of mailboxes, security controls, identity management, and ease of integration with both internal systems and external partners.

Openwave Mobility
Telecom Software
1600 Seaport Boulevard, 4th Floor
Redwood City, CA 94063
650-480-7200
info@owmobility.com
www.owmobility.com
Openwave Mobility empowers operators to manage and monetize mobile data. Openwave Mobility’s data service solutions are used by over half a billion subscribers worldwide. Frost and Sullivan 2013 “Ten to Watch” list of operational support systems companies (OSS)/business support systems (BSS).

Oracle
Telecom Software
500 Oracle Parkway
Redwood Shores, CA 94065
650-506-7000
www.oracle.com
Oracle’s software and systems span the communications industry technology landscape – from carrier-grade servers, storage and IT infrastructure, to mission-critical business and operational support systems and service delivery platforms; from business intelligence applications and retail point-of-sale solutions to the Java platform running on more than two billion mobile and handheld devices.

Orga Systems
Telecom Software
sales@orga-systems.com
www.orga-systems.com
Orga Systems is a leading software vendor for real-time charging and billing solutions, with an international customer base in the telecommunications, utilities and automotive markets.

PCTEL
Telecom Software
20410 Observation Dr, Suite # 200
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Contact: Chintan Fafadia
301-444-2047
chintan.fafadia@pctel.com
www.rfnetworks.pctel.com
PCTEL RF Solutions specializes in the design, optimization and testing of today’s wireless communication networks. We develop and build innovative scanning receivers, drive test software, and interference management solutions that help wireless cellular operators get the most out of their wireless spectrum.

POLARIS NETWORKS INC
Telecom Software
75 Robbins Road
Lexington, MA 02421
Contact: Pamela Datta
-11035
pamela_datta@polarisnetworks.net
www.polarisnetworks.net
Leading supplier of software for LTE EPC. Includes S1AP, GTPu, GTPv2C, Diameter, PMIPv6.

Procera
Telecom Software
www.proceranetworks.com
Procera Networks delivers Internet intelligence solutions designed for carriers, service providers and enterprises worldwide. Procera’s Packet-Logic solutions provide actionable intelligence and policy enforcement to ensure a high quality experience for any Internet connected devices. Network operators deploy Procera’s technology to enable real-time visibility, superior performance and scalability, and deliver personalized services for millions of enterprises and consumers. Enterprises utilize Procera’s embedded NAVL solutions to ensure that they can deliver on BYOD and Cloud services to their employees.

Progress Software
Telecom Software
www.progress.com
One way forward is the New Generation Operations Systems and Software (NGOSS) frameworks created by the TM Forum, and Progress has the only solution for the TM Forum’s information framework (the SID). Progress OSS/BSS Integration, powered by Progress® DataXtend® Semantic Integrator (SI) will reduce operational cost, integration complexity and the risks associated with OSS/BSS integration, giving you a faster time to market and an enhanced experience for your customers. With the OSS/BSS Integration solution, business analysts, architects and developers can create, maintain and govern common-model-based data services in your service-oriented architecture (SOA). These services reduce the complexity and cost of your SOA implementations while improving agility.

PT Communications
Telecom Software
www.pt.com
As a global supplier of advanced network solutions, PT offers Diameter and SS7 Signaling Systems delivering advanced routing/applications to SS7, 4G/LTE and IMS telecom networks.

Pulse Electronics/Larsen Antennas
Telecom Software
3611 NE 112th Avenue
Vancouver, WA 98682
Contact: Steve Bruegger
360-944-7551
antennas.us@pulelectronics.com
www.pulelectronics.com
Pulse Electronics is a leading global supplier of LTE, WLAN, 3G/4G, DAS and M2M fixed and mobile antenna solutions.

Radcom
Telecom Software
6 Forest Avenue
Paramus, NJ 07652
800-RADCOM-4
support@radcomusa.com
www.radcom.com
Radcom provides innovative service assurance and customer experience management solutions for leading telecom operators and communications service providers. RADCOM specializes in solutions for next-generation mobile and fixed networks, including LTE, VoLTE, IMS, VoIP, UMTS/GSM and mobile broadband.

Radisys
Telecom Software
www.radisys.com
Radisys is a leading provider of embedded wireless infrastructure solutions for telecom, aerospace, defense, and public safety applications. Radisys’ market-leading MRF (Media Resource Function) and T-Series Virtualized Platforms coupled with Trillium software, services and market expertise enable customers to bring their products to market faster with lower investment and risk.
In a revolutionary new development that leverages 10 years of working exclusively with leading global communications providers, analyzing massive volumes of data, delivering cloud based analytics to CFO organizations at AT&T, Verizon, Comcast, T-Mobile, Tata, Telus, Facebook and numerous others, Razorsight has married a team of the industry’s best Data Scientists with its industry leading cloud analytics software to create a new Predictive Analytics solution.

Red Bend Software
Telecom Software
www.redbend.com

Red Bend Software is the leader in Mobile Software Management (MSM). Over 1.75 Billion Red Bend-Enabled™ devices use our software and services for firmware over-the-air (FOTA) updating, application management, device management, device analytics and mobile virtualization. More than 80 leading manufacturers, mobile operators, semiconductor vendors and automotive companies worldwide trust Red Bend to make their mobile devices and services continuously better in a rapidly changing world.

Rohde & Schwarz (IPOQUE acq in 2011)
Telecom Software
www.iqouque.com

iqouque provides network intelligence and policy control solutions helping fixed and mobile broadband operators to better understand traffic patterns, monetize new data services and improve the quality of experience for their subscribers. Our application classification and analysis engine enables bandwidth and congestion control, prioritized quality of service delivery and detailed network visibility. iqouque was founded in 2005 in Leipzig, Germany, and has become a Rohde & Schwarz company in 2011.

RoX
Telecom Software
www.rox.ru

RoX Solutions is a rapidly growing Russian software company focusing at innovative next-gen Customer Experience Management (CEM) solutions for the Telco 2.0 environment.

Sage Instruments
Telecom Software
240 Airport Blvd
Freedom, CA 95019
Contact: Steve Glassman
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Sage Instruments is a global leader in the development of performance monitoring and network monitoring solutions for the telecommunications industry. Their comprehensive suite of products helps operators optimize network performance, improve service quality, and reduce operational costs.

Sandvine
Telecom Software
408 Albert Street
Waterloo, Ontario, Canada N2L 3V3
519-880-2600
sales@sandvine.com
www.sandvine.com

Sandvine provides a single platform to introduce unified, standards-compliant network policy control into any fixed, mobile or converged access network, at any scale. An unmatched commitment to research and development delivers the industry-first, exclusive and standards-compliant solutions that let our customers out-maneuver their competition.

SAP
Telecom Software
SAP (UK) Ltd. Clockhouse Place
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Headquartered in Walldorf, Germany, with locations in more than 130 countries, SAP SE is the world leader in enterprise software and software-related services.

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3999 West Chester Pike
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Unwire your employees, customers, and partners with proven, highly-rated mobile solutions from a company you can trust. SAP is the only vendor that can provide you with complete, end-to-end software solutions that mobilize your entire organization. Use a single, unified mobile platform for all your employee, consumer, and partner app needs.
ServiceFrame
Telecom Software
Belfield Innovation Centre, Nova UCD
Dublin, Ireland
Contact: Yiru Huang
35317163620
info@serviceframe.com
www.serviceframe.com
ServiceFrame is the leading independent governance platform, addressing Performance, Risk and Compliance in Telco Managed Services. ServiceFrame brings smart relationship intelligence, the expertise of the organization, and rich visualization together to initiate and enable the Governance process. ServiceFrame is Software delivered as a service ensuring rapid deployment, easy integration and configuration, and anywhere on any device availability. The worlds smartest managed services rely on ServiceFrame.

SEVEN Networks
Telecom Software
959 Skyway Road, Suite 100
San Carlos, CA 94070
650-381-2670
info@seven.com
www.seven.com
SEVEN Networks develops innovative software solutions that help wireless carriers manage and optimize mobile traffic before it impacts the network. SEVEN’s flagship Open Channel products reduce operator costs, increase efficiency in the use of wireless infrastructure, and enhance end-user experience. Extending the management of data traffic from the network to the mobile client brings immediate capacity relief to overloaded networks. Operators gain actionable intelligence on their networks, application activity is optimized, and unnecessary signaling activity is significantly reduced. SEVEN products are in production in 20 languages across five continents.

Sigt Sigma Systems
Telecom Software
55 York Street, Suite 1100
Toronto, Ontario M5J 1R7 Canada
800-938-2196
delivered@sigma-systems.com
www.sigma-systems.com
Sigma Systems helps telco and cable service providers around the world deliver more than 150 million advanced communication and enhanced entertainment services every day. Our proven, award-winning portfolio of OSS products and solutions for service order management, provisioning and activation; device provisioning; and advanced mediation support integrated, bundled IP service offerings for residential and business subscribers including VoIP, ultra-fast broadband, advanced digital and IP video, IPTV, wireless and more.

Smith Micro
Telecom Software
51 Columbia
Aliso Viejo, CA 92656
800-477-1543
cs@smithmicro.com
www.smithmicro.com
Smith Micro Software, Inc. provides software and services that simplify, secure, and enhance the mobile experience. The Company’s portfolio of wireless solutions includes a wide range of client and server applications that manage voice, data, video, and connectivity over mobile broadband networks. Our primary customers are the world’s leading mobile network operators, mobile device manufacturers, and enterprise businesses. In addition to our wireless and mobility software, Smith Micro offers personal productivity and graphics products distributed through a variety of consumer channels worldwide.

Solarwinds
Telecom Software
3711 South MoPac Expressway
Building Two
Austin, Texas 78746
866-530-8100
Sales@SolarWinds.com
www.solarwinds.com
SolarWinds’ mission has been to provide purpose-built products that are designed to make IT professionals’ jobs easier. We offer value-driven products and tools that solve a broad range of IT management challenges – whether those challenges are related to networks, servers, applications, storage or virtualization.

Solutelia Telecom Software
Telecom Software
3033 S. Parker Rd., Ste. 460
Aurora, CO 80014
Keith Sach
720-748-3004
contact@solutelia.com
www.solutelia.com
Solutelia has demonstrated itself as a leading industry resource for establishing and improving wireless coverage for over a decade. Solutelia provides RF engineering and DAS services and solutions. Solutelia has recently introduced the WINdâ‘ software platform that addresses some of the wireless industry’s most pressing concerns by providing real-time reporting, testing and analysis of network performance by using the latest commercially available Android smartphones. WINdâ‘ supports mobile voice and data technologies, including GSM, UMTS, CDMA, EVDO, LTE, VoLTE, LTE-A and WiFi. Cloud-based control and analysis tools allow access to real-time results, from anywhere.

Sonus
Telecom Software
4 Technology Park Drive
Westford, MA 01886
1-855-GO-SONUS
www.sonus.net
Sonus secures real-time communications so that the world’s leading service providers and enterprises can embrace SIP-based applications through secure, reliable and scalable IP networks. With service provider and Fortune 500 customers in more than 50 countries and 17 years of experience enabling VoIP video and Unified Communications, Sonus offers a complete portfolio of hardware-based and virtualized Session Border Controllers (SBCs), policy/routing servers and Diameter and SS7 Signaling Systems.

Spirent
Telecom Software
www.spirent.com
Spirent TestCenter Live leverages hardware probes and client software applets to provide an end-to-end view of the network and application performance—one that starts in the RAN and is segmented to include the backhaul, core and cloud environments.
StepLeader
Telecom Software
819 W. Hargrett St
Raleigh, NC 27603
Contact: Matthew Davis
919-573-9701
info@stepleaderdigital.com
www.stepleaderdigital.com
StepLeader develops, builds and sells mobile apps, and helps customers monetize the advertising on those apps.

Subex
Telecom Software
12303 Airport Way,
Bldg. 1, Ste. 390,
Broomfield, CO 80021
303-301-6200
sales@subex.com
www.subex.com
Subex Limited is a leading global provider of Business Support Systems (BSS) that empowers communications service providers (CSPs) to achieve competitive advantage through Business Optimisation - thereby enabling them to improve their operational efficiency to deliver enhanced service experiences to subscribers.

Synchronoss
Telecom Software
www.synchronoss.com
Synchronoss is the mobile innovation leader that provides personal cloud solutions and software-based activation for connected devices across the globe. Founded in December 2000, the company completed a successful IPO in June 2006. Stock Exchange: Nasdaq – Symbol: SNCROur solutions help customers acquire, retain and service subscribers quickly, reliably and cost-effectively by simplifying the processes associated with managing the customer experience for activating and synchronizing connected devices and services. Synchronoss’ industry-leading customers include tier 1 service providers such as AT&T Inc., Verizon Wireless and Vodafone, tier 1 cable operators/MSOs such as Cablevision, Charter Communications, Comcast, and Time Warner Cable and large OEMs such as Apple, Dell, Panasonic and Nokia. These customers utilize our platforms, technology and services to service both consumer and business customers, including over 300 of the Fortune 500 companies.

Syniverse
Telecom Software
8125 Highwoods Palm Way
Tampa, FL, 33647
813-637-5000
www.syniverse.com
We are mobile innovators, and our stellar work is recognized by both the global industry and local communities. Syniverse connects more than 4 billion mobile subscribers through voice, data, SMS, MMS, mobile video communications and more.

Tango Telecom Inc
Telecom Software
400 Trade Center, Suite 5900
Woburn, MA 1801
Contact: Rebecca Walsh
781-879 9552
info@tangotelecom.com
www.tangotelecom.com
Tango Telecom is a leading provider of Policy and Charging Control Solutions for evolving mobile networks. Through an evolutionary approach to infrastructure replacement and seamless integration capabilities, our solutions drive service innovation, monetizing the growing demand for mobile data while optimizing network resources.

Taqua
Telecom Software
740 East Campbell Road, 2nd Floor
Richardson, TX 75081
972-692-1800
www.taqua.com
Taqua was founded in 1998 to develop next generation telecommunications systems and applications. The company has evolved into a leading supplier of products and services that enable a seamless user experience as the carrier transitions into VoIP, IMS, WiFi and 4G/LTE. Today, hundreds of carriers utilize Taqua to cost effectively provide a full array of revenue generating, broadband and mobile applications to all types of communication devices.

Tarana Wireless
Telecom Software
2953 Bunker Hill Lane, Suite 100
Santa Clara, CA 95054
Contact: Luke Angelus
408-351-4085
info@TaranaWireless.com
www.TaranaWireless.com
Tarana Wireless’ universal wireless transport delivers deterministic performance at full capacity across True NLoS, nLoS, and LoS operation enabling backhaul anywhere small cells are located.

Tecnotree
Telecom Software
www.tecnotree.com
Tecnotree is a global provider of telecom IT solutions for the management of products, customers and revenue. Tecnotree helps communications service providers to transform their business towards a marketplace of digital services. Tecnotree empowers service providers to monetise service bundles, provide personalised user experiences and augment value throughout the customer lifecycle. With over 1100 telecom experts, Tecnotree serves more than 100 service providers in over 70 countries. Tecnotree is listed on the main list of NASDAQ OMX Helsinki with the trading code TEM1V.

Tektronix
Telecom Software
www.tek.com
Whenever you view a web site, click a mouse, make a cell phone call, or turn on a TV you touch our work. As a world leader in test, measurement and monitoring technology, we enable our customers to do more than they ever have. Technical innovators of all kinds benefit from our products and expertise.

Telecom Product Profiles, LLC
Telecom Software
711 9th Ave SE #107
Watertown, SD 57201
Contact: Dana Lemmerman
765-427-5827
sales@telepp.com
www.telepp.com
Towers, Shelters, Cabinets, Coax, Generators, and Fiber
When it comes to mission-critical wireless communications, TeleCommunication Systems, Inc. (TCS) (NASDAQ: TSYS) solves some of the toughest technical challenges. We produce solutions for communications that demand proven high levels of reliability, security, and availability

**Telesatx**
9600 Escarpment Blvd Ste 745
Austind, TX 78749
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www.telesatx.com

TelStax provides Open Source Communications software and services that facilitate the shift from legacy SS7 based IN networks to IP based LTE and IMS networks hosted on private (on-premise), hybrid or public clouds. TelStax products include Restcomm, JSLEE, SMSC Gateway, USSD Gateway, SS7 Resource Adaptors, SIP Servlets, Rich Multimedia Services, Presence Services/RCS, Diameter/AAA Services, XMPP Services, WebRTC services and others.

**Tellabs**
1415 West Diehl Road
Naperville, IL 60563
630-798-8800
sales@tellabs.com
www.tellabs.com

Tellabs Insight AnalyticsSM Service offers a model that helps minimize complexity, reduce risk to launch new subscriber services, upgrading infrastructure, or migrating to IP; TNS delivers mission-critical services in a managed services model that helps minimize complexity, reduce risk and speed time to market.

**TNSI**
10740 Parkridge Boulevard, Suite 100
Reston, VA 20191
703-453-8440
www.tnsi.com

A single connection to TNS provides connectivity to carriers around the globe and access to a suite of advanced signaling & transport, intelligent database and next generation services. Whether launching new subscriber services, upgrading infrastructure, or migrating to IP; TNS delivers mission-critical services in a managed services model that helps minimize complexity, reduce risk and speed time to market.

**TOA Technologies**
3333 Richmond Rd., Suite 420
Beachwood, OH 44122
Contact: Rick Shimko
216-925-5950
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www.toatech.com

Field service software gets mobile employees to the right place, on time. Predictive analytics optimize field work - driving efficiencies, empowering employees, improving customer relationships.

**Tibco**
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- 372,863 monthly page views
- 262,599 unique monthly visitors to websites
- 76,000+ opt in newsletter subscribers
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- 68,522 monthly videos viewed on RCR Wireless News Youtube channel
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