





# **Picking Your Partners**

What to look for in a great supplier and how to know them when you see them.

**Interviews with Industry Leaders** 

Tips & Quotes to Consider

And a List of the Best Companies to Work with in the Wireless Infrastructure Community



Your Resource for the Wireless Infrastructure Community

January 2014 /// Volume 11 /// No. 01







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# **Picking Your Partners**

What to look for in a great supplier and how to know them when you see them.

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And a List of the Best Companies to Work with in the Wireless **Infrastructure Community** 



Your Resource for the Wireless Infrastructure Community

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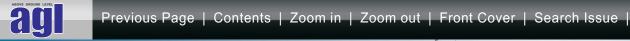




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# From The Editor



Although many business partnerships do not stand the test of time, such as Bill Gates and Paul Allen, others do, such as Warren Buffet and Charlie Munger, partners since the 1970s.

The best partnerships include partners equally committed to success yet complementary in their skills and interests.

The person with an interest in the product or service offered might be better off with a partner who instead has an interest in marketing, sales and business operations.

If one partner is available to spend full time with the business and the other isn't, the full-time partner risks becoming distracted by the other partner's absence, inattention or perceived lack of commitment. Distractions could be other business interests, family obligations, health problems and a desire to spend more time at leisure.

Maybe in an effort to cement a sales and purchasing relationship that otherwise would not have the hallmarks of a business partnership or maybe in a genuine effort to elevate such a relationship to a higher degree of information sharing and cooperation, some people call their customers their partners. I'm not certain customers think of their vendors as partners as often as their vendors do, but maybe so.

Some tower owners refer to their wireless carrier customers as partners. Their interests are complementary in that carriers operate communications networks and tower owners offer them places to put network equipment. I've heard industry

leaders say wireless carriers and tower owners are all in the wireless broadband business together. I've also heard many tower owners say they are in the real estate business, and I've never heard a wireless carrier say it was in the real estate business.

Meanwhile, some suppliers to the tower owners and antenna-site developers want to be considered more as partners. There's good reason. A supplier becoming involved early on with siting projects, as a partner might, could benefit both parties, as a partnership is supposed to do.

Whether you use this buyers guide issue of AGL to find a vendor to sell you a product or a service, or whether you use it to find a partner, the steps you take to qualify your counterparty should include evaluating quality, reliability, customer service and delivery.

If buyers guide helps you find just the right vendor or even a partner, let me know, won't you?

Don Bishop, Executive Editor

dbishop@aglmediagroup.com

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The art and science of tower management

**Towers That Mean Business** 















# From The Publisher



Sometimes I've missed the benefit of picking the right partner. I've spent my professional life being the company/professional that another company has to pick to award business to.

I started out as a supplier of online radio coverage and database services, and in those early days it was about having the best products and marketing them. For me, as an engineer, it was always about the product. Perhaps the downfall of almost all engineers is to let the service stand above all else and forget to market, promote and sell. You may have the best thing going, but if no one knows about it, it will make no difference to your customers or to you.

I've always had success getting to know my customers/clients by having an opening dialog. "These are the things I know," I say. "Is there anything I can do to help your process and to help your deployment?" Or turn that around, as we did in the early days of the industry: "Show me how you are doing things, and let me see if I can help improve the process and increase efficiency."

For my particular skillset, I was able to make a big difference in the deployment of some early cellular and PCS systems and help a lot of companies make things more efficient. Of course, I did well at the same time. That is a good vendor. That is a partnership.

Picking the right vendor partner is a fairly difficult choice. I've been working to deploy a number of rural markets and a number of fast-turn projects for some folks who obtained spectrum a little late and who are up against the mandatory build out requirements. I've learned to appreciate the importance of a vendor partner that knows you and your needs, and that will go the extra mile when you need help. Business should be more cut and dried, but it never is.

In some of the projects I've been successful at lately, I've only been able to be successful through the extraordinary efforts of my vendors. Because my company is just a vendor to another company, I've been A+. So I get more work. And I give more work to my vendors—those that do well for me.

And so we present our annual buyers guide to the industry. I know one thing: The right partner/vendor is in this issue, here for you. The right partner sometimes takes a little effort to find, but it sure is worth the effort in the end.



**Rich Biby, Publisher** rbiby@aglmediagroup.com

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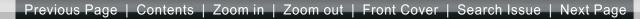


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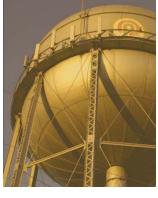
# Supplier Listings Plus Helpful Tips & Feature Articles

















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**AM DETUNING – ANTENNAS** 



# **Lawrence Behr Associates**

3400 Tupper Drive Greenville, NC 27834 Mike Britner lbagrp@lbagroup.com 252.757.0279 lawrencebehrassociates.com

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# **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

See ad on page 42

# **ANCHORING**

# **Anchorguard**

2224 E. 39th St. N. Sioux Falls, SD 57104 Scott Bartlett dscott@anchorguard.com 800.653.3392 anchorguard.com

# FrenchCreek Production

100 N. 13th St. Franklin, PA 16323 Jeff Greksa marketing@ french creek production.com814.437.1808 frenchcreekproduction.com

# **ANTENNAS**



# **Alliance**

2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com

Alliance Corporation is a valueadded distributor of wireless infrastructure products. The company builds custom fiber optic and coax cable assemblies and jumpers and supplies all the necessary accessories. Alliance Corporation stocks products from the industry's key manufacturers.

# **Alpha Wireless**

8375 Camino Santa Fe San Diego, CA 92121 Billy Fenton sales@alphaantennas.com 888.559.2530 alphaantennas.com

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Amphenol provides interconnectivity. Founded in 1932, Amphenol designs, manufactures and markets fiber-optic, electrical and coaxial interconnect products, including antennas. Amphenol products are engineered and manufactured globally.

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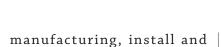
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1155 E. Collins Blvd., Suite 100 Richardson, TX 75081 Technical Support marcom@anritsu.com 800.ANRITSU anritsu.com

Anritsu, a global provider of innovative test and measurement solutions, provides solutions for existing and next generation wired and wireless communication systems and operators. Products include wireless, optical, microwave/RF and digital instruments, together with operations support systems for R&D,

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maintenance.

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4 Westbrook Corporate Center, Suite 400 Westchester, IL 60154 Tania Patrone tania.patrone@commscope.com 708.236.6586 commscope.com/andrew

CommScope says it has played a vital role in the world's best communication networks. The company says its solutions span the entire RF landscape, helping wireless carriers manage ever-increasing cell site complexities. CommScope's end-to-end RF solutions include critical infrastructure needed to build high-performance wireless networks.

# See ad on page 17

# **Flanigan Communications**

109 E. Woodsfield St. Norton, KS 67654 Gary Flanigan cmf1958@yahoo.com 785.871.0010



### **Galtronics**

1131 W. Warner Road Tempe, AZ 85284 Robert Booth sales@galtronics.com

866.206.9482 galtronics.com

Galtronics says it designs and manufactures in-building and outdoor DAS and small cell anten-

applications. Huber+Suhner offers expertise in radio frequency, fiber optics and low frequency all under one roof, thus providing innovation for the in-building (DAS and small cell) and FttA/

# The right partnership can make or break a company. -Seth Godin

nas of the highest quality and superior performance. The company's Pear and Ethernet product lines include several omnidirectional and panel antennas that are low-PIM-certified and that offer what Galtronics calls innovative mounting flexibility.

# **GPS Networking**

373 E. Industrial Blvd. Pueblo West, CO 81007 Steve Vasquez salestech@gpsnetworking.com 719.595.9880 gpsnetworking.com

# **Huber+Suhner**

19 Thompson Drive Essex Junction, VT 05452 Dick Schmidt info@hubersuhner.com 630.816.4021 hubersuhner.com

The Huber+Suhner group is a global supplier of components and systems for electrical and optical connectivity. The company says its communications customers appreciate that it has specialists with detailed knowledge of practical PttA macro site needs of customers all over the world.

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# **IEEE Communications Society**

3 Park Ave., 17th Floor New York, NY 10016 Marilyn Catis t.gallus@comsoc.org 212.705.8953 comsoc.org/training

# Metal & Cable Corp., Inc.

# Metal & Cable

9337 Ravenna Road, Unit C Twinsburg, OH 44087 David Klein david@metal-cable.com 330.963.7909 metal-cable.com

Metal & Cable's high-capacity Magnemount antenna mount and Magnemount cable/cable tray mount are non-penetrating magnetic mounts designed for use on steel water towers. Metal & Cable says that in eight years in service, it has never had a service failure.

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# **Phazar Antenna**

101 S.E. 25th Ave. Mineral Wells, TX 76067 Steve Schueler sschueler@phazar.com 940.325.3301 antennaproducts.com

Phazar says it is the largest supplier of oDAS antennas used on street lights, utility poles or structures. It offers multiple-frequency coverage for 700/850 MHz, AWS, PCS, WiMAX, and Wi-Fi on omni's, trisector and quasi-omni styles. New antennas offer LTE/MIMO with low PIM and VSWR performance.

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3611 N.E. 112th Ave. Vancouver, WA 98682 Customer Service antennas.us@pulseelectronics.com 800.426.1656 pulseelectronics.com/products/ antennas

# **RAD Data Communications**

900 Corporate Drive Mahwah, NJ 07430 Chris Fleming market@radusa.com 201.529.1100 radusa.com

# RADIO FREQUENCY SYSTEMS



# **Radio Frequency Systems**

200 Pond View Drive Meriden, CT 06450 Paula Mennone-Preisner sales.americas@rfsworld.com 800.321.4700 rfsworld.com

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, along with active and passive RF conditioning modules, providing total-package solutions for outdoor and indoor wireless infrastructure. RFS serves OEMs, distributors, system integrators, operators and installers. Its customers include the four largest wireless carriers, the majority of tier 2 and 3 wireless carriers in North America and many of the top wireless and microwave OEMs worldwide

# See ad on page 57

# **Radio Waves**

495R Billerica Ave. North Billerica, MA 01876 sales@radiowaveinc.com 978.459.8800 radiowavesinc.com

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# SPAA05.com

Kleiweg 24
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003.141.6565005
spaa05.com

# spectracom

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1565 Jefferson Road, Suite 460 Rochester, NY 14559 Wade Sober wade.sober@spectracom.orolia.com 585.321.5810 spectracomcorp.com

The Path Align-R is a high-performance test solution designed for fast, accurate microwave path alignment. The manufacturer says the unit is endorsed by leading wireless communications suppliers, and it provides precise alignment results in about 20 minutes. No power or radios are required on-site. The Path Align-R provides proof of alignment with recorded and documented records.

# See ad on page 103



# **Spinner ICT**

5126 South Royal Atlanta Drive Tucker, GA 30084 Michael Horan info-atlanta@spinner-group.com 770.263.6326 spinner-group.com/us

Spinner ICT says it is the leader in low-PIM performance for jumper cables, coaxial connectors and passive components. The company says it provides the highest quality German-engineered design to meet and exceed industry requirements.

See ads on pages 77 and 85







# **Talley**

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@tallevcom.com 562.906.8023 talleycom.com

# **TE Connectivity**

541 E. Trimble Road San Jose, CA 95131 Seri Yoon seri.yoon@te.com 408.952.2400 te.com/DAS



### **Telewave**

660 Giguere Court San Jose, CA 95133 sales@telewave.com 800.331.3396 telewave.com

Telewave designs and manufactures RF infrastructure equipment for wireless communication systems and interoperability. Customers include public safety organizations; local, county and federal agencies; industry; and the military.

# See ad on page 27

# **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494 John Celentano celentanoj@tessco.com 410.229.1186 tessco.com

# **Thin Air Construction**

3500 Cannon St. Hastings, MN 55033 Jules Fisher lules.fisher@thinairconstruction.net 651.319.0152 thinairconstruction.net

# **Ventey**

375 W. Padonia Road Timonium, MD 21093 Ginny Gullett-Tawes gulletttawes@ventev.com 800.759.9996 ventev.com

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Media Venture Partners provides strategic counsel and financial services, mergers/acquisitions, private equity/debt raises, valuations and appraisals. Media Venture Partners has completed more than \$14 billion in transactions and focuses on clients in the media, telecom, data center, renewables and technology industries. Founded in 1987, Media Venture Partners has offices in San Francisco, CA; Kansas City, Mo.; Boston and Boulder, Colo.

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# Milestone Media

848 N. Rainbow Blvd., #680 Las Vegas, NV 89107 Derrick Engel mmllc.com@gmail.com 303.335.9843 milestonemediallc.com

# **ASSOCIATIONS**



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152 W. Zandale Drive Lexington, KY 40503 Corinne Hoch choch@acuta.org 859.278.3338 acuta.org

ACUTA is a 43-year-old nonprofit association that provides professional networking and educational resources such as conferences. seminars, and printed and electronic publications to the men and women responsible for collaboration technologies, including voice, data and video communications on college campuses.

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ANTENNAS – ASSOCIATIONS





The association says it has earned a reputation as the go-to source for information regarding campus networks, including Wi-Fi, fixed mobile convergence, VoIP, DAS and wireless security issues.



# **National Association of Tower Erectors**

8 Second St. S.E. Watertown, SD 57201 Todd Schlekeway nate@natehome.com 605.882.5865 natehome.com

The National Association of Tower Erectors (NATE) is a nonprofit trade association in the wireless infrastructure industry providing a unified voice for tower erection, service and maintenance companies. The association has more than 600 member companies throughout the United States, Bahamas, Canada, Ghana, India, Jamaica, Romania, Saudi Arabia, South Africa, Trinidad and Tobago and the United Arab Emirates.

See ad on inside front cover

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500 Montgomery St., Suite 500 Alexandria, VA 22314 Caitin Colligan caitin.colligan@pcia.com 703.535.7424 pcia.com

PCIA - The Wireless Infrastructure Association represents the companies that make up the wireless telecom infrastructure industry. Members are the carriers, infrastructure providers and professional services firms that own and manage more than 130,000 telecommunications facilities worldwide.

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# **ATTORNEYS**

# Fletcher, Heald & Hildreth

1300 N. 17th St., Suite 1100 Arlington, VA 22209 Frank Jazzo office@fhhlaw.com 703.812.0400 fhhlaw.com

### Matthew J. Traiser

8805 Tamiami Trail North Naples, FL 34108 Matthew Traiser matthew.traiser@gmail.com 612.414.3322



# Phillips Lytle LLP

# **Phillips Lytle**

One Canalside, 125 Main St. Buffalo, NY 14203 Douglas Dimitroff 716.847.5408 phillipslytle.com

Phillips Lytle's telecommunications attorneys handle a full range of matters including

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# **Shulman Rogers**

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Shulman Rogers is a full-service telecom and business law firm, providing brokerage services, contract negotiations, regulatory filings and dispute resolution, among other services, for tower owners, lessors and lessees. From rooftops to DAS and backhaul to insurance, Shulman Rogers says, "We stand ready to assist."

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# **Tower Seekers**

3805 Shale Court Carlsbad, CA 92010 Mike Ritter mike@towerseekers.com 760.917.1123 towerseekers.com

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# We know wireless infrastructure

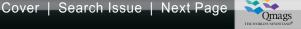
Whether you plan to build a single site or undertake a massive network upgrade, CommScope is there to provide high-performance solutions for all your needs, from the base station to the top of the tower - along the entire RF path.

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# BRACKETS/ MOUNTS



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2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com

Alliance is a distributor of wireless infrastructure products. The company builds custom fiber-optic assemblies, coax cable assemblies and jumpers and supplies all the necessary accessories. Alliance stocks product from the industry's key manufacturers.

# **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

# See ad on page 161

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P.O. Box 3951 Incline Village, NV 89450 Steve Hopkins sales@comsitehardware.com 775.832.2523 comsitehardware.com



# **Connect-It Wireless**

210 Commerce Way, Suite C Jupiter, FL 33458 Alisa Whitacre sales@connectitwireless.net 866.781.1300

# connectitwireless.net

Connect-It Wireless manufactures and supplies what it calls the highest-

330.963.7909 metal-cable.com

Metal & Cable's high-capacity

# Asking for referrals from business associates you respect and trust is a great way to source supplier candidates.

quality site hardware available. It says its customer service and industry knowledge are second to none. Connect-It Wireless has antenna site needs in stock, including antenna mounts, bridge kits, coax support, grounding and a huge safety line.

Magnemount antenna mount and Magnemount cable/cable tray mount are nonpenetrating magnetic mounts designed for use on steel water towers. Metal & Cable says that in eight years in service, it has never had a service failure.



# **Kenwood Telecom**

3431 Novis Pointe Acworth, GA 30101 Paul Novis pauln@kenwoodtelecom.com 888.439.0500 kenwoodtelecom.com

In business since 1980 and a veteran-owned business, Kenwood Telecom manufactures tower site infrastructure steel components, accessories and customized mounting and bracket solutions. The company also provides installation support material needs.

# Metal & Cable Corp., Inc. Metal & Cable

9337 Ravenna Road, Unit C Twinsburg, OH 44087 David Klein david@metal-cable.com

# See ad on page 97

# **Radio Waves**

495R Billerica Ave. North Billerica, MA 01876 sales@radiowaveinc.com 978.459.8800 radiowavesinc.com

# **Sabre Site Solutions**

2101 Murray St. Sioux City, IA 51111 Michael Burnett mjburnett@sabreindustries.com 800.369.6690 sabresitesolutions.com

# See ad on page 99

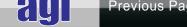


# Telewave

660 Giguere Court San Jose, CA 95133 sales@telewave.com 800.331.3396 telewave.com

See ad on page 27

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A valmont of COMPANY

# Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, Ind.; and Salem, Ore. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.



# **Wanho Manufacturing**

137 Mattatuck Heights Waterbury, CT 06705 sales@wanho.com 203.759.3744 wanho.com

Wanho says it is a key supplier to all major OEMs throughout the world and that it is dedicated to serving these companies, which build and maintain wireless systems on a global basis. Wanho says its components are used extensively in communications systems in all corners of the world including the Americas, Europe and Asia.

See ad on page 137

# **BUILDINGS/ SHELTERS**

# **Alpha Technologies**

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

See ad on page 39



# **Fibrebond**

1300 Davenport Drive Minden, LA 71055 Kevin McCann kevin.mccann@fibrebond.com 318.371.6361 fibrebond.com

Fiberbond says quality and service have earned it a reputation as a trusted partner in the telecommunications industry. The company's shelters, equipment installations and field services offer a number of benefits that translate into cost savings, time savings and safer working conditions.

# See ad on page 153

# **Hanson Pipe & Precast**

13201 Old Gentilly Road New Orleans, LA 70129 Oliver Delery heather.meiner@hanson.com 504.254.1596 hansonpipeandprecast.com

# RELIANT SHELTERS

# **Mobile Modular Express II / Reliant Shelters**

58120 County Road 3 South Elkhart, IN 46517 Tim Fve tfye@mobilemodular.com 574.295.1214 mobilemodular.com

Wherever you need an equipment shelter, Mobile Modular Express II/Reliant Shelters says its highly experienced engineering and production teams are ready to provide a cost-efficient design. The company says they get the job done by offering unlimited solutions in custom factory-built shelters of any size and shape.

# **Oldcastle Precast Shelter Solutions**

7921 S. Park Plaza Littleton, CO 80120 John Albert barbara.bogo@oldcastle.com 561.914.6584 oldcastleprecast.com

Oldcastle Precast Shelter Solutions and Services offers a single point of contact. The company offers a turnkey shelter solution. It specializes in head ends, data centers, OTNs and hubs, and any type of above and below ground equipment shelter. Whether it's a concrete shelter, existing facility build out or new construction, Oldcastle Precast manages customers' projects from beginning to end. Oldcastle Precast produces precast concrete products and has more than 70 manufacturing facilities in the United States.

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# **Pioneer Energy Products** (Pepro)

671 Colbert Ave. Oil City, PA 16301 Kelly Lander klander@peprollc.com 814.676.5688 peprollc.com

Pepro says it is the leading manufacturer of patented shielded enclosures for remote communication and mission-critical applications. Pepro has more than 20 years in the industry without loss or upset of radio equipment caused by lightning. Pepro provides complete site solutions and installation.

# See ad on page 143

# Sabre Industries Building Systems by CellXion

# Sabre Building Systems by CellXion

5031 Hazel Jones Road Bossier City, LA 71111 Jim Phillips jphillips@sabreindustries.com 770.301.8080 sabrebuildingsystems.com

Sabre Building Systems designs and manufactures concrete, structural steel and ultra-light aluminum shelters. The company also offers mobile, panelized and field-erectable products including COWs, mini-COWS, COLTs and tower trailers.

# See ad on page 99

# Thermo Bond Buildings

109 E. Pleasant St. Elk Point, SD 57025 Jonathan Jansen ion@thermobond.com 800.356.2686 thermobond.com

Thermo Bond Buildings is a manufacturer of equipment shelters and cabinets engineered and constructed to meet any project's unique needs. Thermo Bond Buildings offers full electrical and integration capabilities so customers' buildings are ready for power and equipment once they are offloaded.

# See ad on page 161

# **BUILD-TO-SUIT SERVICES**



# AMERICAN TOWER®

# **American Tower**

10 Presidential Way Woburn, MA 01801 leasing@americantower.com 877.409.6966 americantower.com

American Tower is a wireless and broadcast communications infrastructure provider that offers access to more than 49,000 communications sites throughout the United States. Its solutions include wireless and broadcast towers, managed rooftops, in-building and outdoor distributed antenna system (DAS), small cell and Wi-Fi networks, and other right of way options and services that speed network deployment.

# **Antietam Wireless Services**

103 Carnegie Center, Suite 300 Princeton, NJ 08540 Michael Shine info@anteitam-wireless.com 973,454,0302 antietam-wireless.com

# **Arcadia Communications**

3814 West St., Suite 325 Cincinnati, OH 45227 Sam Johnston sam@arcadiatowers.com 513.702.0628 arcdiatowers.com



### **AW Solutions**

300 Crown Oak Centre Drive Longwood, FL 32750 Keith Hayter keith.hayter@awsolutionsinc.com 407.260.0231 awsolutionsinc.com

AW Solutions is licensed throughout the United States, Canada and Caribbean to provide turnkey site infrastructure development and build-to-suit services to the wireless, iDAS, oDAS, wireline and fiber industries.



# **Beacon Towers**

3001 Salterbeck St., Suite 200 Mt. Pleasant, SC 29466 Martin Deputy martind@vitessewireless.com 843.324.9731

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**BUILDINGS/SHELTERS — BUILD-TO-SUIT SERVICES** 

BUILD-TO-SUIT SERVICES



# **High Gain Wireless** P.O. Box 308 Great Falls, VA 22066-0308 Tom Ferguson tferguson@highgainwireless.com 717.592.9578 highgainwireless.com

High Gain Wireless says it offers experts to help customers in executing difficult site developments by unifying team members' diverse backgrounds in engineering, site development, construction, project management and finance. The company says one of its unique offerings is High Gain Wireless' expertise in building out license-save markets.



# 40 Lone St. Marshfield, MA 02050 Tom Lennon melissa.goodwin@induscom.com 781.319.1012 industrial communications.com

# **MidAmerica Towers**

P.O. Box 6556 Gainesville, GA 30504 Jay Panozzo jay@midamericatowers.com 815.693.1565 midamericatowers.com

# **New Horizon Towers**

11471 Twin Lakes Lane San Angelo, TX 76904 Tom Thornton newhorizontowers@aol.com 325.947.3436 newhorizontowers.com



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# **Central States Tower**

323 S. Hale St. Wheaton, IL 60187 Liz Erbes elizabethe@ centralstatestower.com 630.221.8500 centralstatestower.com

# **CIS Communications**

749 Old Ballas Road Saint Louis, MO 63141 Brick P. Storts brick@ciscomm.com 314.569.2275 ciscomm.com

# **ComSites West**

2555 Third St., Suite 200 Sacramento, CA 95818 Charlie Feick charlie@comsiteswest.com 530.414.4376 comsiteswest.com

# **Dietz Brothers**

12185 51st. St. NE Spicer, MN 56288 Alan Dietz alan@dietzbros.net 320.894.5957 dietzbros.net

# **Eco-Site**

1414 Raleigh Road, Suite 445 Chapel Hill, NC 27517 Mike Collins mcollins@eco-site.com 919.636.6810 eco-site.com

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# **Oldcastle Precast Shelter Solutions**

7921 S. Park Plaza Littleton, CO 80120 John Albert barbara.bogo@oldcastle.com 561.914.6584 oldcastleprecast.com



# **Parallel Infrastructure**

4601 Touchton Road East. Building 300, Suite 3200 Jacksonville, FL 32246 Edward Lee eddy@parallelinfrastructure.com 904.565.4115 parallelinfrastructure.com

Parallel Infrastructure says it is the leader in right of way management and infrastructure development, focusing on maximizing the value of underutilized land assets for third-party clients. The firm's capabilities include telecommunications infrastructure development.

# See ad on page 117



# **Prime Tower Development**

5755 N. Point Parkway, Suite 37 Alpharetta, GA 30022 Steve Handmaker shandmaker@

primetowerdevelopment.com 770.335.1057

# **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com

# **Rinkers Communications**

103 South Main St. Barre, VT 05641 Karl A. Rinker lazykarl@aol.com 802.479.0121 rinkers.com



# **SBA Communications**

5900 Broken Sound Parkway N.W. Boca Raton, FL 33487 Lynne Hopkins request@sbasite.com 800.487.SITE sbasite.com

As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

See ad on back cover

# **BUSINESS BROKERS**

# 17 Mile

P.O. Box 826 Ardmore, PA 19003 Phone: (610) 613-6927 mark@17mile.net 17mile.net



# **Endeiro Capital Partners, LLC**

# **Endeiro Capital Partners**

741 Avignon, Suite B Ridgeland, MS 39157 Jerry M. Sullivan jmsullivan@endeiro.com 601.326.0525

Endeiro Capital Partners is a diversified management and investment firm providing private equity, debt and operating support services to entrepreneurs in both new and emerging businesses and to growth-stage companies seeking to expand their existing operations.

# **Media Capital Advisors**

824 Topaz Drive West Chester, PA 19382 Steve Bitner steve@mediacapadvisors.com 610.701.0961 mediacapadvisors.com



# MEDIA VENTURE PARTNERS

### **Media Venture Partners**

244 Jackson St., 4th Floor San Francisco, CA 94111 info@mediaventurepartners.com 415.391.4877 mediaventurepartners.com

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Media Venture Partners provides strategic counsel and financial services, mergers/acquisitions, private equity/debt raises, valuations and appraisals. Media Venture Partners has completed more than \$14 billion in transactions and focuses on clients in the media, telecom, datacenter, renewables and technology industries. Founded in 1987, Media Venture Partners has offices in San Francisco; Kansas City, Mo.; Boston and Boulder, Colo.

# See ad on page 87

# Milestone Media

848 N. Rainbow Blvd., #680 Las Vegas, NV 89107 Derrick Engel mmllc.com@gmail.com 303.335.9843 milestonemediallc.com

# **RBC Capital Markets**

3 World Financial Center, 200 Vesey St., 11th Floor New York, NY 10281 Nick Stevenson bruce.wilmsen@rbccm.com 212.428.6405 rbccm.com/communications

# **Tower Advisors**

2338 Messenger Circle Safety Harbor, FL 34695 Steven L. Ouzts steve@toweradvisorsllc.com 727.643.8907 toweradvisorsllc.com

# **Vertix Consulting**

2961-A Hunter Mill Road, Suite 640 Oakton, VA 22124 Greg Weiner greg.weiner@vertixconsulting.com 866.990.8378 vertixconsulting.com

# CABINETS/ ENCLOSURES

# **Alpha Technologies**

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

See ad on page 39

# **Ampheno**FIBER OPTIC PRODUCTS

# **Amphenol Fiber Optic Products**

2100 Western Court Lisle, IL 60532 Anis Khemakhem sales@amphenol-fiberoptics.com 630.432.5715

Amphenol provides interconnectivity. Founded in 1932, Amphenol designs, manufactures and markets fiber-optic, electrical and coaxial interconnect products, including antennas. Amphenol products are engineered and manufactured globally.



# **Charles Industries**

5600 Apollo Drive Rolling Meadows, IL 60008 Dominic Imbrogno mktserv@charlesindustries.com 847.806.6300 charlesindustries.com

Charles Industries manufactures innovative enclosed solutions including remote cabinets for wireless backhaul, small cell, DAS, AMI, site support, and BTS deployments; fiber distribution building terminals and hubs; and

fiber cross-connect and distribution point pedestals. Charles is a U.S. based manufacturer and ISO 9001/TL 9000 registered company.

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# Clearfield

5480 Nathan Lane Plymouth, MN 55442 Johnny Hill sales@clfd.net 763.476.6866 clearfieldconnection.com

No matter whether the objective is to deliver fiber to the home, business or cell site, Clearfield delivers solutions that lower the cost of broadband deployment. Clearfield says its FieldSmart fiber management platform is the industry's only fiber management solution based upon a single architecture. With the Clearview Cassette and Clearview xPAK at its heart, FieldSmart delivers a value proposition that scales from small towns to large enterprises.

# See ad on page 109

# **CommScope**

4 Westbrook Corporate Center, Suite 400 Westchester, IL 60154 Tania Patrone tania.patrone@commscope.com 708.236.6586 commscope.com/andrew

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**BUSINESS BROKERS – CABINETS/ENCLOSURES** 









# Eltek

2925 E. Plano Parkway Plano, TX 75074 Sales sales.us@eltek.com 469.330.9100 eltek.com

# **Peabody Concealment**

13435 Estelle St. Corona, CA 92879 Sales RFTC sales@peabodyconcealment.com 888.511.6828 peabodyconcealment.com

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# Surround yourself with winners. Never forget -people win. -Bear Bryant

# **Fibrebond**

1300 Davenport Drive Minden, LA 71055 Kevin McCann kevin.mccann@fibrebond.com 318.371.6361 fibrebond.com

# See ad on page 153

# Hanson Pipe & Precast

13201 Old Gentilly Road New Orleans, LA 70129 Oliver Delery heather.meiner@hanson.com 504.254.1596 hansonpipeandprecast.com

# **Mobile Modular Express II / Reliant Shelters**

58120 County Road 3 South Elkhart, IN 46517 Tim Fye tfye@mobilemodular.com 574.295.1214 mobilemodular.com

# **Oldcastle Precast Shelter Solutions**

7921 S. Park Plaza Littleton, CO 80120 John Albert barbara.bogo@oldcastle.com 561.914.6584 oldcastleprecast.com

# **Pioneer Energy Products** (Pepro)

671 Colbert Ave. Oil City, PA 16301 Kelly Lander klander@peprollc.com 814.676.5688 peprollc.com

# See ad on page 143

# Raycap

806 S. Clearwater Loop Post Falls, ID 83854 Lisa Duckett marketing@raycap.com 208.777.1166 raycapsurgeprotection.com

Raycap says it is a world leader in lightning protection and cable management solutions for fiber-to-the-antenna (FTTA) networks. Its products connect and protect tens of thousands of 3G and 4G sites in the latest networks being built by the world's largest operators.

# See ad on page 69

# **Sabre Building Systems** by CellXion

5031 Hazel Jones Road Bossier City, LA 71111 Jim Phillips jphillips@sabreindustries.com 770.301.8080 sabrebuildingsystems.com

# See ad on page 99

# **Talley**

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@talleycom.com 562.906.8023 talleycom.com

# **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494 John Celentano celentanoi@tessco.com 410.229.1186 tessco.com

# Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, Ind.; and Salem, Ore. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.

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# **Westell Technologies**

750 N. Commons Drive Aurora, IL 60504 contactsales@westell.com 800.377.8766 westell.com

# **CABLE**

### **ACS Solutions**

495 Horizon Drive, Suite 200 Suwanee, GA 30024 Bob Diehl bdiehl@acssolutions.com 800.241.9881 acssolutions.com



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# **Alliance**

2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com

Alliance is a value-added distributor of wireless infrastructure products. The company builds custom fiber-optic assemblies, coax cable assemblies and jumpers and supplies all the necessary accessories. Alliance stocks products from the industry's key manufacturers.

### **Allied Fiber**

845 Third Ave., 8th Floor New York, NY 10022 Hunter Newby info@alliedfiber.com 631.285.1136 alliedfiber.com

# Ampheno

# **Amphenol Fiber Optic Products**

2100 Western Court Lisle, IL 60532 Anis Khemakhem sales@amphenol-fiberoptics.com 630.432.5715

Amphenol provides interconnectivity. Founded in 1932, Amphenol designs, manufactures and markets fiber-optic, electrical and coaxial interconnect products, including antennas. Amphenol products are engineered and manufactured globally.



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Anritsu, a global provider of innovative test and measurement solutions, provides solutions for existing and next-generation wired and wireless communication systems and operators. Products include wireless, optical, microwave/RF and digital instruments, together with operations support systems for R&D, manufacturing, installation and maintenance.

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# Clearfield

5480 Nathan Lane Plymouth, MN 55442 Johnny Hill sales@clfd.net 763.476.6866 clearfieldconnection.com

No matter whether the objective is to deliver fiber to the home, business or cell site, Clearfield delivers solutions that lower the cost of broadband deployment. Clearfield says its FieldSmart fiber management platform is the industry's only fiber management solution based upon a single architecture. With the Clearview Cassette and Clearview xPAK at its heart, FieldSmart delivers a value proposition that scales from small towns to large enterprises.

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# CommScope

4 Westbrook Corporate Center, Suite 400 Westchester, IL 60154 Tania Patrone tania.patrone@commscope.com 708.236.6586 commscope.com/andrew

CommScope says it has played a vital role in the world's best communication networks. The company says its solutions span the entire RF landscape, helping

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ture needed to build high-perfor-

mance wireless networks.

# Corning

800 17th St. NW Hickory, NC 28601 Isolde Karro karroi@corning.com 828.901.6406

### **Electro-Wire**

933 E. Remington Road Schaumburg, IL 60173 James Torok sales@electrowire.com 847.944.1500 electrowire.com

# See ad on page 134

630.816.4021

hubersuhner.com

# **Hutton Communications**

2520 Marsh Lane Carrollton, TX 75006 Wendy DeLawder sales@huttoncom.com 877.648.8866 huttononline.com

# **Pasternack Enterprises**

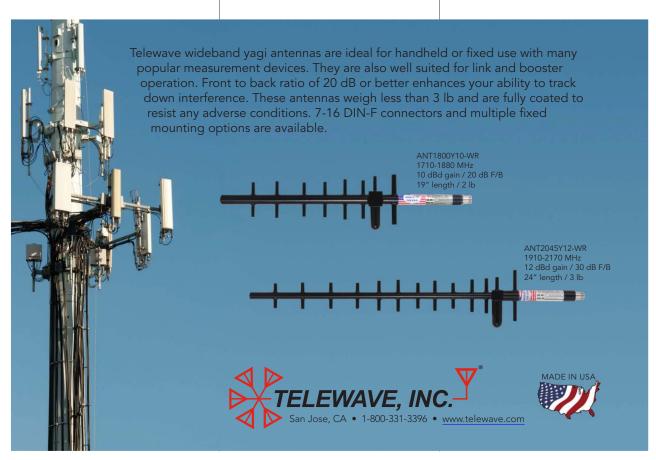
17802 Fitch Irvine, CA 92614 Shaun Gameroz sales@pasternack.com 949.261.1920 pasternack.com



# **Radio Frequency Systems**

200 Pond View Drive Meriden, CT 06450 Paula Mennone-Preisner sales.americas@rfsworld.com 800.321.4700 rfsworld.com

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, along with active and passive RF conditioning modules, providing total-package solutions for outdoor and indoor wireless. infrastructure. RFS serves OEMs, distributors, system integrators, operators and installers. Its customers include the four largest wireless carriers, the majority of

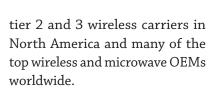


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### **Radio Waves**

495R Billerica Ave. North Billerica, MA 01876 sales@radiowaveinc.com 978.459.8800 radiowavesinc.com

### **RF Industries**

7610 Miramar Road San Diego, CA 92126 Richard LaFay rlafay@rfindustries.com 800.233.1728 rfindustries.com



### Southwire

240 Chestnut St. Warwick, RI 02888 Karen Lawrence bruce.wasser@southwire.com 401.780.2035 southwire.com/industrial/ telcoflex.htm

Southwire says its TelcoFlex cable the premier LSZH central office power cable used for all levels of telecom equipment installations and battery back-up in central offices and remote locations. TelcoFlex is compliant with Telcordia GR-347, and it is UL-listed and CSA-certified.

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# **Spinner ICT**

5126 South Royal Atlanta Drive Tucker, GA 30084 Michael Horan info-atlanta@spinner-group.com 770.263.6326 spinner-group.com/us

Spinner ICT says it is the leader in low-PIM performance for jumper cables, coaxial connectors and passive components. The company says it provides the highest quality German-engineered design to meet and exceed industry requirements.

# See ads on pages 77 and 85

# **Superior Essex**

6120 Powers Ferry Road, Suite 150 Atlanta, GA 30339 Matt Wheeler jamie.bailey@spsx.com 770.657.6000 ce.superioressex.com

# **Talley**

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@talleycom.com 562.906.8023 talleycom.com

# **Tech Products**

105 Willow Ave. Staten Island, NY 10305 Daniel D. O'Connor team@techproducts.com 718.442.4900 techproducts.com



# **Times Microwave Systems**

358 Hall Ave. Wallingford, CT 06492 Carolyn Turner sales@timesmicro.com 203.949.8400 timesmicrowave.com

See ad on page 104



# **Trilogy Communications**

2910 Highway 80E Pearl, MS 39208 Angela Lourenco info@trilogycoax.com 601.932.4461 trilogycoax.com

Trilogy is a manufacturer of fully bonded air-dielectric coaxial cables. AirCell Transline, radiating and plenum cables eliminate water migration and offer the best attenuation. Trilogy offers LTE PIM-certified premade jumpers. AirCell cables have been 100 percent American-made since 1985.

# Ventev

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# **Wanho Manufacturing**

137 Mattatuck Heights Waterbury, CT 06705 sales@wanho.com 203.759.3744 wanho.com

Wanho says it is a key supplier to all major OEMs throughout the world and that it is dedicated to serving these companies, which build and maintain wireless systems on a global basis. Wanho says its components are used extensively in communications systems in all corners of the world including the Americas, Europe and Asia.

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# **CLIMATE CONTROL**



# **Bard Manufacturing**

1914 Randolph Drive Bryan, OH 43506 Paul Quigley bard@bardhvac.com 419.636.1194 bardhvac.com

Wall-mount air conditioners from Bard Manufacturing for telecommunication shelters feature 1-to 6-ton cooling capacity, left or right service access, economizer ventilation options and specific telecom control module options. Singlestage equipment is available up to 10.2 EER efficiencies, and two-stage equipment up

to 15.2 IPLV is also offered for even greater efficiencies.

See ad on page 62

# Dantherm

CONTROL YOUR CLIMATE

# **Dantherm**

110 Corporate Drive, Suite K Spartanburg, SC 29303 Lourdes Sisk dantherm.usa@dantherm.com 864.699.1058 dantherm.com/us

Dantherm Solutions provides energy-efficient heat removal from telecom shelters, rooms, cabinets and enclosures. Dantherm also offers air conditioners, heat exchangers, free cooling and combo cooling designed to meet cooling requirements while reducing energy and operating costs.



# Marvair

156 Seedling Drive Cordele, GA 31015 Kim Pate marvairsales@airxcel.com 229.273.3636 marvair.com

# COLLOCATION **SERVICES**

# **Allied Fiber**

845 Third Ave., 8th Floor New York, NY 10022 **Hunter Newby** info@alliedfiber.com

631.285.1136 alliedfiber.com

# **Arcadia Communications**

3814 W. Street, Ste. 325 Cincinnati, OH 45227 Sam Johnston sam@arcadiatowers.com 513.702.0628 arcdiatowers.com

# **Blue Ridge Telecom**

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# **Central States Tower**

323 S. Hale St. Wheaton, IL 60187 Liz Erbes elizabethe@ centralstatestower.com 630.221.8500 centralstatestower.com

# **CIS Communications**

749 Old Ballas Road Saint Louis, MO 63141 Brick P. Storts brick@ciscomm.com 314.569.2275 ciscomm.com

# **Communications Structures**

1920 Front St., Suite 840 Durham, NC 27705 Charles Durst charles.durst@csmitowers.com 919.309.1106 csmitowers.com



# **ComSites West**

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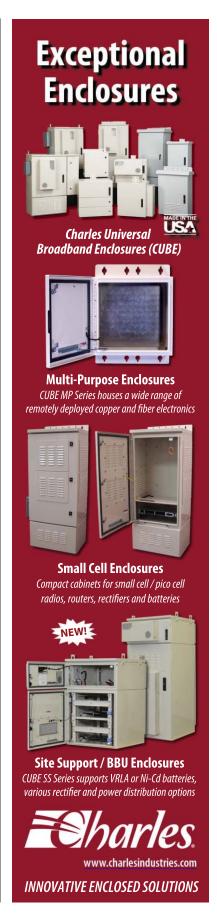
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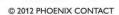






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Dynamic Environmental Associates says it is the industry-recognized source for NEPA compliance, environmental site assessments, permitting, auditing and reporting. The company says that by adhering to its core principles, DEA has achieved recognition from both the tower industry and peers as leading experts in environmental assessment and compliance. DEA says that for nearly 20 years, it has been providing the communications industry with expert professional environmental services.

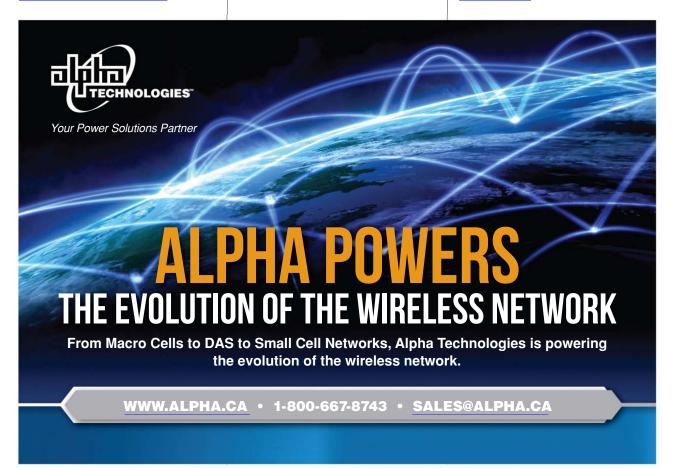
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**INDUSTRY INTERVIEW** 





# The Importance of Partners

# Industry veteran Jim Innes recounts the importance of partners for his tower-building and tower-owning businesses

Jim Innes has seen many changes during his nearly 30 years in the telecom-infrastructure industry—including some changes that he himself pioneered. But he's yet to employ a full-time purchasing manager for one of the tower-building or owning firms he's headed. And he's never hired a certified purchasing manager (CPM).

Innes says the trend toward tower builders employing CPMs on their staffs started to pick up steam around 2009 or 2010—just when he was leaving that business. "Before then, there were very few CPMs, or even full-time purchasing managers, in the small and medium portfolio tower development industry," he said. "And very few wireless tower builders in my experience used supplier databases until very recently."

For the past five years, Innes has run what he calls a "boutique wireless technical services and wireless real-estate firm." He describes it as a half consulting/half management services business. "I don't build or operate wireless towers now," he said. "I manage tenant sites for others and provide advisory services to larger companies such as

power utilities for specific wireless tenant and carrier backhaul provider issues."

Innes is the chief executive officer of CarrierClass Group, the founder and president of CarrierClass Deployment Services (CCDS) and was formerly the CEO of CarrierClass Site Development. CCDS operates in several wireless infrastructure development areas: multitenant wireless antenna site development; wireless backhaul systems design, engineering, deployment, and operations; wireless infrastructure deployment technical services; and rooftop wireless site management.

Innes knows his way around the telecom infrastructure business because he's been involved in almost every facet of it, starting in 1986 with his first job in the industry. His experience includes sales, marketing, management, and 14 years in developing, leasing, and operating every type of wireless site. He's designed and deployed low and high-capacity wireless backhaul systems for cellular carriers in major metro area markets; he's developed and operated high-density telecom real estate including income-generating antenna sites of all types.









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Innes spent the most amount of time choosing partners when he was in the microwave backhaul world. "I had a part-time purchasing manager who did purchasing, but not a full-time one," he said. He used a tracking software program to keep tabs on project spending, products, suppliers and prices. "When I was a tower builder, we got advance notice if prices were expected to vary within the known ranges. We've delivered infrastructure to carriers. I hired all the individual vendors, and purchased most of the hardware pieces. I tended to use the same group of vendors, and the same group of contractors did the work," he said.

These days, Innes often turns to distributors for purchasing smaller items. "Distributors, especially on a boutique basis, can really add value to a project," he said. "As a smaller firm, we more often go to manufacturing reps for big items because distributors mostly serve large-scale tower builders on larger infrastructure items."

Like many technical specialists who specify products for specific applications, Innes demands a particular quality. "Our industry specifies very sophisticated technical equipment," he said. "While I don't want to pay top price, quality is always more important in my business—this was especially true when I was building towers and implementing critical microwave facilities. Also, I like to build a good relationship with people I know I can trust. Vetting and quality control on vendors and subcontractors is an ongoing process. It is important to see how well they pay attention to quality and their overall level of ethics.

Innes said he was lucky during a period from 2002 to 2005 when all he did was microwave-backhaul work. "The firm I was involved with built 36 towers, and we had a really great team," he said. "We were all good buddies. And we kept margins. Everyone's expectations were well aligned."

Another of Innes's best practices was rigorous, preprice quote or proposal profit-and-loss modeling of the overall job. He would do a practice markup pricing bid to allow a cushion for any of the many unforeseen problems that can plague a construction site. "I'd allow a normal prices markup, setting margins that allowed overages," Innes said. "I would never charge them the maximum price and then would try to negotiate from there. I would try to find the highest prices I could get from a customer that the customer would happily take—but on my models, I'd actually lower my profit by building in a contingency factor right from the start."

Basically, Innes would build in a 10 percent contingency for overruns. "On a job where I wanted to get 35 percent, my model would say 25 percent or maybe 22 percent," he said. "Vendors would say, 'Why's your margin so low?' I'd say, 'I've included a 5 percent contingency for cost overruns that I expect.' Therefore, if everyone did a really good job, and nothing bad happened on the project, then the contractor got a 5 percent bonus. If the job didn't go well, the contractor had margins." Innes believes that this model may be going by the wayside with the pressures of the large-scale carrier build outs.

#### About the author:

Mike Harrington is a freelance writer in Prairie Village, KS.



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INDUSTRY INTERVIEW







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High Gain Wireless says it offers experts to help customers in executing difficult site developments by unifying team members' diverse backgrounds in engineering, site development, construction, project management and finance. The company says one of its unique offerings is its expertise in building out license-save markets.

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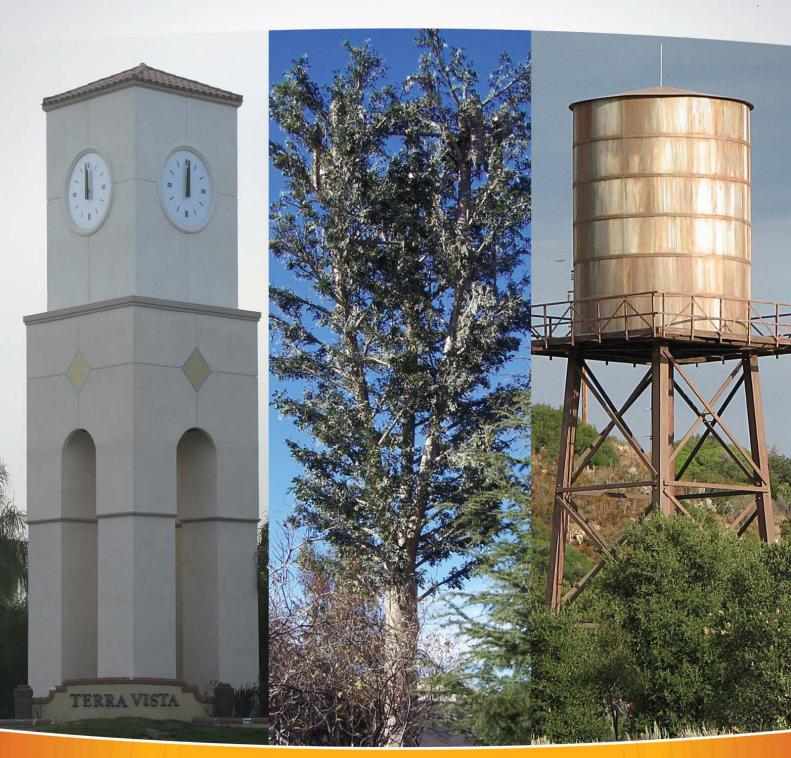
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Media Venture Partners provides strategic counsel and financial services, mergers/acquisitions, private equity/debt raises, valuations and appraisals. Media Venture Partners has completed more than \$14 billion in transactions and focuses on clients in the media, telecom, datacenter, renewables and technology industries. Founded in 1987, Media Venture Partners has offices in San Francisco, Ca; Kansas City, Mo.; Boston and Boulder, Colo.

#### See ad on page 87

#### **Milestone Media**

848 N. Rainbow Blvd., #680 Las Vegas, NV 89107 Derrick Engel mmllc.com@gmail.com 303.335.9843 milestonemediallc.com

#### **NewCore Wireless**

3717 23rd St. South, Suite 201 St. Cloud, MN 56301 (320)333-7285 stephanie.court@corewg.com 320.333.7285 newcorewireless.net

See ad on page 123



#### P. Marshall and Associates

1000 Holcomb Woods Parkway, Suite 210 Roswell, GA 30076 Greg Hazlehurst info@pmass.com 678.280.2325 pmass.com

PM&A is an award-winning, multidiscipline engineering and site development company that services the southern part of the United States. PM&A has a unique team of professionals blending traditional and advanced engineering with various technical, real estate and consulting services.

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250 E. Broad St., Suite 600 Columbus, OH 43215 Barb Tucker btucker@pjfweb.com 614.221.6679 pjfweb.com

PJF is a structural engineering firm that says it has a national reputation for designing and analyzing communications structures since 1966. PJF offers high-volume capacity with quick turn times. PJF has professional engineer registrations in all 50 states, the District of Columbia, Puerto Rico and Canada.



#### **PierCon Solutions**

63 Beaver Brook Road, Suite 201 Lincoln Park, NJ 07035 Rich Conroy rich.conroy@piercon.net 973.628.9330 piercon.net

PierCon Solutions' antenna site management division offers rooftop sites for antenna collocation nationwide. Specializing in hospitality properties such as Marriott, PierCon facilitates the process from initial carrier requests to getting sites built and quickly on-air, all the while maintaining what it calls outstanding customer service that is truly amazing.



#### **RCC Consultants**

100 Woodbridge Center Drive Woodbridge, NJ 07095 Mike Hunter info@rcc.com 732.404.2400 rcc.com

#### **RJR Wireless**

23501 Park Sorrento, Suite 218 Calabasas, CA 91302-1381 Rich Reichler rjrwireles@aol.com 818.222.7483

Since 1998, RJR Wireless has provided consulting and special project services for antenna site managers, owners and users. RJR Wireless is a member of PCIA and EWA, and Reichler is a member of the Radio Club of America.

#### **Safety One Training**

8181 W. Brandon Drive Littleton, CO 80125 info@safetyoneinc.com 303.734.0772 safetyoneinc.com









#### **SellTower Consulting**

2925 Saint Charles Drive Conway, AR 72034 Thomas Dolislager thomasd@selltower.com 501.329.2114 selltower.com

#### **Shulman Rogers**

12505 Park Potomac Ave., 6th Floor Potomac, MD 20854 Michael Higgs mhiggs@shulmanrogers.com 301.945.9244 shulmanrogers.com

#### See ad on page 161

#### Site ID

103 Carnegie Center, Suite 300 Princeton, NJ 08540 Michael Shine mshine@siteidinc.com 973.454.0302 siteidinc.com



#### **Solution Seven**

430 Chestnut St., Suite 101 Chattanooga, TN 37402 Janet Gill janet@solutionseven.net 423.702.0313 solutionseven.net

The Solution Seven consulting firm has a team of experienced industry leaders that implement strategic and profitable solutions through marketing, brand management, revenue growth plans, financial consultancy and M&A transactions. Solution Seven says it provides companies with unique business disciplines that deliver visible results.

#### **SureSite Consulting Group**

3659 Green Road, Suite 214 Cleveland, OH 44122 Courtney Schmidt c.schmidt@sure-site.com 216.593.0400 sure-site.com

#### **Vertical Solution**

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Tectonic provides a full spectrum of site acquisition, A/E professional services and program management. Tectonics' staff of 500 is located throughout offices nationally, providing site acquisition, permitting, zoning, due diligence, NEPA/SHPO, Phase I, civil, structural and geotechnical engineering and tower analysis.

#### See ad on page 61

#### **Tower Innovations**

107 Dunbar Ave., Suite E Oldsmar, FL 34677 Bruce McIntyre bruce@towerinnovationsinc.com 813.818.8766 towerinnovationsinc.com

#### **Vertix Consulting**

2961-A Hunter Mill Road, Suite 640 Oakton, VA 22124 Greg Weiner greg.weiner@vertixconsulting.com 866.990.8378 vertixconsulting.com



#### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive

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customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

#### See ad on page 42

#### White Buffalo Environmental

6321 E. 102nd St., Suite C Tulsa, OK 74137 Steve McFarlin steve.mcfarlin@whitebuffalo.com 918.660.0999 whitebuffalo.com

See ad on page 161

### DAS & SMALL CELLS

#### **Advanced Frequency Engineering**

10482 Almond St. Rancho Cucamonga, CA 91737 Dana Dulabone dana@rfawareness.com 813.495.0038 rfawareness.com

#### **Advantage Engineers**

7070 Samuel Morse Drive, Suite 150 Columbia, MD 21046 Matt Eveland meveland@ advantageengineers.com 443.367.0003 advantageengineers.com

#### See ad on page 73



170 Ridgeview Center Drive Duncan, SC 29334

Dennis Beck sales@aflglobal.com 678.576.7641 aflglobal.com

#### Alliance

2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com

#### **Alpha Technologies**

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

See ad on page 39



#### **AMERICAN TOWER®**

#### **American Tower**

10 Presidential Way Woburn, MA 01801 leasing@americantower.com 877.409.6966 americantower.com

American Tower is a wireless and broadcast communications infrastructure provider that offers access to more than 49,000 communications sites throughout the United States. Its solutions include wireless and broadcast towers, managed rooftops, in-building and outdoor distributed antenna system (DAS), small cell and Wi-Fi networks, and other right of way options and services that speed network deployment.

#### **Amphenol Fiber Optic Products**

2100 Western Court Lisle, IL 60532 Anis Khemakhem sales@amphenol-fiberoptics.com 630.432.5715

Amphenol provides interconnectivity. Founded in 1932, Amphenol designs, manufactures and markets fiber-optic, electrical and coaxial interconnect products, including antennas. Amphenol products are engineered and manufactured globally.



#### **AW Solutions**

300 Crown Oak Centre Drive Longwood, FL 32750 Keith Hayter keith.hayter@awsolutionsinc.com 407.260.0231 awsolutionsinc.com

AW Solutions is licensed throughout the United States, Canada and Caribbean to provide turnkey site infrastructure development and build-to-suit services to the wireless, iDAS, oDAS, wireline and fiber industries.

#### **Axell Wireless**

15950 N. Dallas Parkway, Suite 400 Dallas, TX 75248 Matthew Thompson info@axellwireless.com 972.361.8038 axellwireless.com











#### **Black & Veatch**

10950 Grandview Drive Overland Park, KS 66210 Kristi Klohs klohskm@bv.com 913.458.6271 bv.com

Black & Veatch network infrastructure deployment/upgrade solutions include program/ project management, site acquisition, A&E engineering, zoning and permitting, tower structural analysis/mods, procurement, construction and construction management, DAS and small cell and decommissioning.

#### See ad on page 10

#### **Black Box Network Services**

1000 Park Drive Lawrence, PA 15055-1018 Carly Burton carly.burton@blackbox.com 724.746.5500 blackbox.com

#### **BlueStream Professional Services**

3305 Highway 60 West Faribault, MN 55021 Sales contactkgp@kgptel.com 800.755.1950 bluestreampro.com

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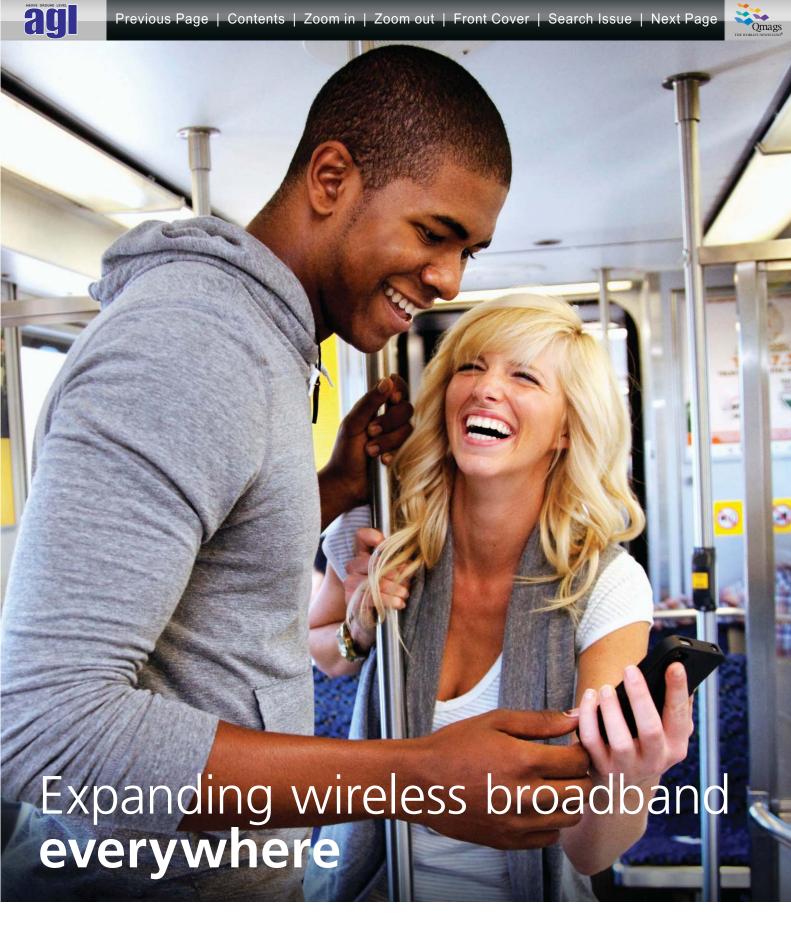
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#### Clearfield

5480 Nathan Lane Plymouth, MN 55442 Johnny Hill sales@clfd.net 763.476.6866 clearfieldconnection.com

#### See ad on page 109

#### **Coleman Global Telecommunications**

84 Merrill Road Clifton, NJ 07012-1622 Marty Coleman marty@colemanglobal.com 973.519.6416 colemanglobal.com

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4 Westbrook Corporate Center, Suite 400 Westchester, IL 60154 Tania Patrone tania.patrone@commscope.com 708.236.6586 commscope.com/andrew

#### See ad on page 17

#### **Corning**

800 17th St. NW Hickory, NC 28601 Isolde Karro karroi@corning.com 828.901.6406

#### **Dali Wireless**

535 Middlefield Road, Suite 280 Menlo Park, CA 94025 Laura Hayes lhayes@daliwireless.com 604.420.7760 daliwireless.com

#### **DAS Advisers**

67 W. Boulder St. Colorado Springs, CO 80903 **Deborah Crowley** deborahcrowley@dasadvisers.com 304.549.5075 dasadvisers.com



#### DeltaNode

30303 Aurora Road Solon, OH 44139 Tom Boyle tboyle@birdrf.com 440.248.2172 deltanode.com

Deltanode a Bird Technologies Company, is a total solution provider of high performance, quality coverage extension equipment and services to the public safety and global wireless voice, data and multimedia market. Their core business includes infrastructure products and sub systems such as repeaters and Distributed Antenna Systems.

#### See ad on page 161

### **Distributed Wireless Group**

587 N. Ventu Park Road, Suite E221

Newbury Park, CA 91320 Craig J. Stanziano craig.stanziano@ distributed-wireless.com 805.768.4121 distributed-wireless.com

#### **EBlink**

7011 Koll Center Parkway, Suite 164 Pleasanton, CA 94566 Frederic Leroudier frederic.leroudier@e-blink.com 408.420.5858 e-blink.com

#### **Edison Carrier Solutions**

4900 Rivergrade Road, 2B-1, First Floor Irwindale, CA 91706 Brian Ryan carriers@sce.com 800.634.7999 edisoncarriersolutions.com



#### **Electro-Wire**

933 E. Remington Road Schaumburg, IL 60173 James Torok sales@electrowire.com 847.944.1500 electrowire.com

Electro-Wire says it is committed to providing the highest-quality wire and cable products and related services. The company says that through over 30 years of doing business, it has built strong relationships with leading manufacturers. Electro-Wire offers central office power cable and wireless solutions that enable its customers to build, maintain and operate their wireless networks. Electro-Wire offers DAS-related coax and connectors, RF jumpers, plenum-rated power cables, bulk fiber, terminated fiber and related accessories.

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254 E Hacienda Ave. Campbell, CA 95008 Pamela Valentine pvalentine@exaltcom.com 408.688.0200 exaltcom.com

#### **ExteNet Systems**

3030 Warrenville Road, Suite 340 Lisle, IL 60532 Manish Matta mmatta@extenetsystems.com 630.505.3846 extenetsystems.com

# Fullerton Engineering Consultants

9600 W. Bryn Mawr, Suite 200 Rosemont, IL 60018 Jeff Latzko jlatzko@fullertonengineering.com 224.585.4430 fullertonengineering.com



#### Galtronics

1131 W. Warner Road Tempe, AZ 85284 Robert Booth sales@galtronics.com 866.206.9482 galtronics.com

Galtronics says it designs and manufactures in-building and outdoor DAS and small cell antennas of the highest quality and superior performance. The company's Pear and Ethernet product lines include several omnidirectional and panel antennas that are low-PIM-certified and that offer what Galtronics calls innovative mounting flexibility.

#### **GPS Networking**

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Pueblo West, CO 81007
Steve Vasquez
salestech@gpsnetworking.com
719.595.9880
gpsnetworking.com

#### Henkels & McCoy

985 Jolly Road Blue Bell, PA 19422 Paul DeMara pdemara@henkels.com 215.283.7578 henkels.com

#### **High Gain Wireless**

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The Huber+Suhner group is a global supplier of components and

systems for electrical and optical connectivity. The company says its communications customers appreciate that it has specialists with detailed knowledge of practical applications. Huber+Suhner offers expertise in radio frequency, fiber optics and low frequency all under one roof, thus providing innovation for the in-building (DAS and small cell) and FttA/PttA macro site needs of customers all over the world.

#### See ad on page 134

#### **Hutton Communications**

2520 Marsh Lane Carrollton, TX 75006 Wendy DeLawder sales@huttoncom.com 877.648.8866 huttononline.com

#### **iBwave**

7075 Robert-Joncas, Suite 95 Montreal, QC H4M 2Z2 Canada Juan Felipe Gonzalez info@ibwave.com 514.397.0606 ibwave.com

#### **JDS Uniphase**

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#### **KGP Logistics**

3305 Highway 60 West Faribault, MN 55021 Chanel Cottengim contactkgp@kgptel.com 800.755.1950 kgplogistics.com







#### Larson Camouflage

1501 S. Euclid Ave Tucson, AZ 85713 Tom Feddersen feddersen@larsoncamo.com 520.294.3900 larsoncamo.com

Larson says it pioneered cellular camouflage with the first monopine in 1992 and that it has been leading the industry ever since. The company's products include pines, palms, elms, cypress, cacti, rooftops and DAS towers. Larson also refurbishes trees with field-installed bark, branches and fronds.

#### See ad on page 37

#### **Lawrence Behr Associates**

3400 Tupper Drive Greenville, NC 27834 Mike Britner lbagrp@lbagroup.com 252.757.0279 lawrencebehrassociates.com

#### **Mercury Communications**

1710 Larkin Williams Road Fenton, MO 63026 Jeff Fischer bmagee@mercurycom.net 636.717.2700 mercurycom.net



#### **MUTI-Sabre Industries Telecom Services**

2626 Midwest Court Champaign, IL 61822

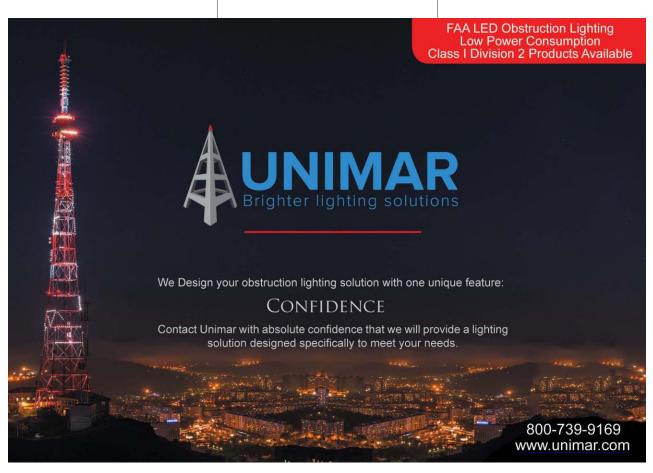
Scott Kisting skisting@mutionline.com 217.819.3040 mutionline.com



#### **Network Building** and Consulting

7380 Coca Cola Drive, Suite 106 Hanover, MD 21076 Jeff Ebihara chelseas@marriner.com 616.218.9444 networkbuilding.com

NB+C (Network Building & Consulting) says customers can count on it for wireless infrastructure needs: architecture and engineering, construction and site development. From new site construction,



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small cell installs or engineering, NB+C says it is the company to count on for results, not excuses.

#### See ad on pages 8-9



#### **Optiglow Systems**

380 Holly Trail Crownsville, MD 21032 William Imperato wimperato@optiglow.com 410.409.8061 optiglow.com

Optiglow provides wireless consulting, equipment provisioning, installation and commissioning services to its clients. Their wireless services include DAS, Wi-Fi and public safety systems. Optiglow's clients are in real estate, health care, hospitality, education and government.

#### **Pasternack Enterprises**

17802 Fitch Irvine, CA 92614 Shaun Gameroz sales@pasternack.com 949.261.1920 pasternack.com



20410 Observation Drive, Suite 200 Germantown, MD 20876 Chintan Fafadia chintan.fafadia@pctel.com 301.444.2047 pctel.com

#### Phazar Antenna

101 S.E. 25th Ave. Mineral Wells, TX 76067 Steve Schueler sschueler@phazar.com 940.325.3301 antennaproducts.com

#### **Pierson Wireless**

P.O. Box 22704 Lincoln, NE 68542 Ross Pierson solutions@piersonwireless.com 402.730.8638 piersonwireless.com

#### **Pulse Electronics/ Larsen Antennas**

3611 N.E. 112th Ave. Vancouver, WA 98682 **Customer Service** antennas.us@ pulseelectronics.com 800.426.1656 pulseelectronics.com/products/ antennas

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200 Pond View Drive Meriden, CT 06450 Paula Mennone-Preisner sales.americas@rfsworld.com 800.321.4700

rfsworld.com

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, along with active and passive RF conditioning modules, providing total-package solutions for outdoor and indoor wireless infrastructure. RFS serves OEMs, distributors, system integrators, operators and installers. Its customers include the four largest wireless carriers, the majority of tier 2 and 3 wireless carriers in

North America and many of the top wireless and microwave OEMs worldwide.

#### See ad on page 57

#### **RCC Consultants**

100 Woodbridge Center Drive Woodbridge, NJ 07095 Mike Hunter info@rcc.com 732.404.2400 rcc.com



#### Solid

617 N. Mary Ave. Sunnyvale, CA 94085 Matt Atkins info@solid.com 888.409.9997 solid.com

Solid is a global wireless infrastructure company that enables indoor and outdoor cellular, public-safety and Wi-Fi communications at some of the world's bestknown venues.

#### See ad on page 129



#### **Spinner ICT**

5126 South Royal Atlanta Drive Tucker, GA 30084 Michael Horan info-atlanta@spinner-group.com







770.263.6326 spinner-group.com/us

Spinner ICT says it is the leader in low-PIM performance for jumper cables, coaxial connectors and passive components. The company says it provides the highest quality German-engineered design to meet and exceed industry requirements.

#### See ads on pages 77 and 85

#### Squan

329 Harold Ave. Englewood, NJ 07631 Douglas Fishman info@squan.com 201.408.5111 squan.com



#### **Stealth Concealment Solutions**

3034-A Ashley Phosphate Road North Charleston, SC 29418 Cindy Wishart cindywishart@stealthsite.com 800.755.0689 stealthconcealment.com

"Got something to hide?" Stealth Concealment Solutions asks. "Camouflage your antennas and improve the environmental landscape. Trust the experts who were here first." Stealth Concealment Solutions says it has been the leader and master of quality antenna concealment solutions for the wireless industry since 1992.

See ad on page 29

#### **Superior Essex**

6120 Powers Ferry Road, Suite 150 Atlanta, GA 30339 Matt Wheeler jamie.bailey@spsx.com 770.657.6000 ce.superioressex.com

#### Talley

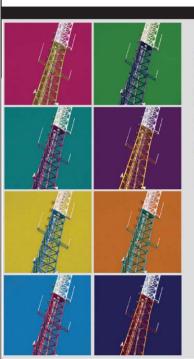
12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier

sales@talleycom.com 562.906.8023 talleycom.com

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2953 Bunker Hill Lane, #100 Santa Clara, CA 95054 Luke Angelus info@taranawireless.com 617.413.4373 taranawireless.com

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70 Pleasant Hill Road, P.O. Box 37 Mountainville, NY 10953 Richard P. Kummerle <a href="mailto:lskinner@">lskinner@</a>
tectonicengineering.com
800.829.6531
tectonicengineering.com

#### See ad on page 61

#### **Tempest Telecom Solutions**

136 W. Canon Perdido, Suite 100 Santa Barbara, CA 93101 Elda Rudd erudd@tempesttelecom.com 805.879.4829 tempesttelecom.com



#### **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494 John Celentano celentanoj@tessco.com 410.229.1186 tessco.com

Tessco Technologies says it is "your total source for making wireless work." With more than 25,000 products, services and solutions from over 375 industry-leading manufacturers, Tessco says it has everything its customers need for building, using and maintaining wireless broadband, DAS and small cell systems.



#### **Times Microwave Systems**

358 Hall Ave. Wallingford, CT 06492 Carolyn Turner sales@timesmicro.com 203.949.8400 timesmicrowave.com

#### See ad on page 104

#### **Trilogy Communications**

2910 Highway 80E Pearl, MS 39208 Angela Lourenco info@trilogycoax.com 601.932.4461 trilogycoax.com

#### **TRM**

7468 Candlewood Road Hanover, MD 21076 Tom Napoli tnapoli@trmcom.com 240.205.1588 trmcom.com

#### TRM

16 Chestnut St., Suite 220 Foxborough, MA 02035 Justin Leland 617.510.1115 trmcom.com

#### **Tuf-Tug Products**

3434 Encrete Lane Moraine, OH 45439 Joey Deuer tuftug@aol.com 937.299.1213 tuf-tug.com

#### **UniTek Global Services**

1777 Sentry Parkway West Blue Bell, PA 19422 Mike Treger mtreger@pinnaclewireless.com 201.249.8528 unitekglobalservices.com

#### **Vertix Consulting**

2961-A Hunter Mill Road, Suite 640 Oakton, VA 22124 Greg Weiner greg.weiner@vertixconsulting.com 866.990.8378 vertixconsulting.com

#### **Vision Technologies**

530 G McCormick Drive Glen Burnie, MD 20161 Al Saxon asaxon@visiontech.biz 410.424.2183 visiontech.biz

#### **Waterford Consultants**

P.O. Box 2090
Ashburn, VA 20146-2090
Thomas Ferguson
sales@waterfordconsultants.com
703.910.5054
waterfordconsultants.com

#### See ad on page 42



### WESTELL

#### **Westell Technologies**

750 N. Commons Drive Aurora, IL 60504 contactsales@westell.com 800.377.8766 westell.com

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#### **Tempest Telecom Solutions**

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#### **KGP Logistics**

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#### **Connect-It Wireless**

210 Commerce Way, Suite C Jupiter, FL 33458 Alisa Whitacre sales@connectitwireless.net 866.781.1300 connectitwireless.net

#### Electro-Wire

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#### **Ingenuity Industries**

1114 G St. Marysville, CA 95901 Matthew Younce matthew@bondwasher.com 530.933.1522 bondwasher.com

#### LBA Technology

3400 Tupper Drive Greenville, NC 27834 Byron Johnson lbagrp@lbagroup.com 252.757.0279 lbatechnology.com

#### **Pinnacle Telecom Group**

14 Ridgedale Ave., Suite 209 Cedar Knolls, NJ 07927 Dan Collins dancollins@ pinnacletelecomgroup.com 973.451.1630 pinnacletelecomgroup.com

#### **UniTech Services Group**

295 Parker St. Springfield, MA 01151 Stephen Hofstatter shofstatter@unitechus.com 413.304.2100 unitech-rf.com

#### See ad on page 131



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#### Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, Ind.; and Salem, Ore. Products include coax cable accessories,













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#### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

See ad on page 42

### **EMPLOYMENT SERVICES**

#### **SellTower Consulting**

2925 Saint Charles Drive Conway, AR 72034 Thomas Dolislager thomasd@selltower.com 501.329.2114 selltower.com

### **ENGINEERS**



#### **Advantage Engineers**

7070 Samuel Morse Drive, Suite 150 Columbia, MD 21046 Matt Eveland meveland@ advantageengineers.com 443.367.0003 advantageengineers.com

Advantage Engineers provides consulting and engineering services to design, procure and deploy communications networks for commercial and government clients.

#### See ad on page 73



#### **Aero Solutions**

5500 Flatiron Parkway, Suite 100 Boulder, CO 80301 Jim Lockwood info@aerosolutionsllc.com 720.304.6882 aerosolutionsllc.com

Aero Solutions optimizes the load carrying capacity of monopole and tower structures, with thousands of upgrades completed in the United States since 2002. The company's innovative, nonwelded PoleMax reinforcing systems are supported by Aero-Soft design software and technical field support.

#### Aeroacoustic **Engineering Consultants**

8014 Olson Highway, Suite 210 Minneapolis, MN 55427-4712 Lawrence F. Hansen larry.hansen@aecnonoise.com 763.355.2030 aecnonoise.com



300 Crown Oak Centre Drive Longwood, FL 32750 Keith Hayter keith.hayter@awsolutionsinc.com 407.260.0231 awsolutionsinc.com

AW Solutions is licensed throughout the United States, Canada and Caribbean to provide turnkey site infrastructure development and build-to-suit services to the wireless, iDAS, oDAS, wireline and fiber industries.



#### **Black & Veatch**

10950 Grandview Drive Overland Park, KS 66210 Kristi Klohs klohskm@bv.com 913.458.6271 bv.com

Black & Veatch network infrastructure deployment/upgrade solutions include program/ project management, site acquisition, A&E engineering, zoning and permitting, tower structural analysis/mods, procurement, construction and construction management, DAS and small cell and decommissioning.

See ad on page 10

aglmediagroup.com











#### **Caltrop**

9337 Milliken Ave. Rancho Cucamonga, CA 91730 Matthew Dostal mdostal@caltrop.com 480.241.6363 caltrop.com



#### **Com-Ex Consultants**

4 Second Ave., Suite 204
Denville, NJ 07930
Douglas Smith
dsmith@comexconsultants.com
973.202.2758
comexconsultants.com

#### **CSI Telecommunications**

750 Battery St., Suite 350 San Francisco, CA 94111 Cathy Newman info@csitele.com 415.751.8845 csitele.com

CSI has delivered innovative telecommunications engineering solutions for more than 25 years. The company performs design work, and government agency and license application engineering. It prepares specifications and conducts propagation analysis, measurements, testing and operational reviews.



#### **Ehresmann Engineering**

4400 W. 31st St.
Yankton, SD 57078
Eric Taylor
e.taylor@
ehresmannengineering.com
605.665.7532
ehresmannengineering.com

Ehresmann Engineering says that values and ethics are entrenched in the company's daily activities. The company says it achieves performance with honesty in all aspects of its work. Whether it's managing a turnkey project or fabricating a custom-designed stealth structure, Ehresmann Engineering says it will compete aggressively on quality to provide

Jeff Latzko jlatzko@fullertonengineering.com 224.585.4430 fullertonengineering.com

Fullerton Engineering says it consistently delivers innovative solutions reinforced by responsive client service and a commitment to quality and excellence.

Background and reference checking are critical components of due diligence for key suppliers.

its customers with what they need, and nothing less.

#### See ad on page 113

#### **Engineering Specialties Group**

8501 Turnpike Drive, Suite 106
Westminster, CO 80031
Joel Deis, P.E.
joeld@
engineeringspecialtiesgroup.com
303.482.3186
engineeringspecialtiesgroup.com

#### **FDH**

6521 Meridien Drive Raleigh, NC 27616 Christopher Ply cply@fdh-inc.com 919.755.1012 fdh-inc.com

# **FULLERTON**

#### **Fullerton**

#### **Engineering Consultants**

9600 W. Bryn Mawr, Suite 200 Rosemont, IL 60018

#### **Hariton Wireless Consulting**

12 Willowdale Road Topsfield, MA 01983 Joel Hariton jhariton@hotmail.com 978.887.3833 haritonwireless.com

#### Henkels & McCoy

985 Jolly Road Blue Bell, PA 19422 Paul DeMara pdemara@henkels.com 215.283.7578 henkels.com



#### **Kimley-Horn and Associates**

3001 Weston Parkway Cary, NC 27513 Tony Dawson tony.dawson@kimley-horn.com 813.635.5524 kimley-horn.com

As a consulting firm, Kimley-Horn has more than 15 years of experience





in the telecom industry. Whether a project is local or national, Kimley-Horn says its staff is dedicated to finding solutions to its customers' toughest problems while delivering high-quality results.

#### Lyncole XIT Grounding

3547 Voyager St. Torrance, CA 90503 Leslie Provenzano lprovenzano@lyncole.com 310.214.4000 lyncole.com

#### MALOUF ENGINEERING INTL., INC.



#### STRUCTURAL CONSULTANTS

#### **Malouf Engineering**

17950 Preston Road, Suite 720 Dallas, TX 75252 Mark Malouf mmalouf@maloufengineering.com 972.783.2578 maloufengineering.com

Malouf Engineering is a nationwide structural engineering consulting firm specializing in the inspection, analysis, design and strengthening modification of tower structures, water tanks, building rooftops, and other special structures including camouflaged designs and facility support buildings.

#### **Noble**

#### **Engineering Consultants**

123 E. Railroad St. Flora, IL 62839 Eric Seals eseals@nbleng.com 618.662.5800 nbleng.com



aglmediagroup.com

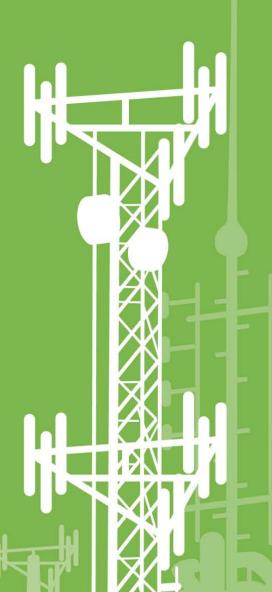


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**ENGINEERS** 







# The world counts on telecom. Telecom counts on Bard.

Customers count on flawless service every day from their cellular, PCS, long distance, cable, satellite and wireless providers worldwide. That's why telecom companies count on Bard, the wall-mount leader, to deliver:

- · Climate control solutions that work
- Controllers with 100% redundancy
- Green-friendly refrigerant
- Capacity upgrade replacement units



Bard – Reliability you can count on.



Bard Manufacturing Company, Inc. <u>www.bardhvac.com</u> 419.636.1194















#### P. Marshall and Associates

1000 Holcomb Woods Parkway, Suite 210 Roswell, GA 30076 Greg Hazlehurst info@pmass.com 678.280.2325 pmass.com

#### **Patriot Towers**

9332 N. 95th Way, Suite B203 Scottsdale, AZ 85258 Dale Gray dgray@patriot-tower.com 480.421.0234 patriot-tower.com



#### Paul J. Ford and Company

250 E. Broad St., Suite 600 Columbus, OH 43215 Barb Tucker btucker@pjfweb.com 614.221.6679 pjfweb.com

PJF is a structural engineering firm that says it has a national reputation for designing and analyzing communications structures since 1966. PJF offers high-volume capacity with quick turn times. PJF has professional engineer registrations in all 50 states, the District of Columbia, Puerto Rico and Canada.

#### **Pctel**

20410 Observation Drive, Suite 200 Germantown, MD 20876 Chintan Fafadia chintan.fafadia@pctel.com 301.444.2047 pctel.com

#### Ramaker & Associates

1120 Dallas St. Sauk City, WI 53583 Michael Pinske sdoody@ramaker.com 608.643.4100 ramaker.com



#### **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com

Retel Services, a certified Women's Business Enterprise, offers a self-performed turnkey solution. The company's experienced team delivers site acquisition, project management, environmental, engineering and construction services.



#### SSC

8500 W. 110th St., Suite 300 Overland Park, KS 66210 David Blaha info@ssc.us.com 913.438.7700 ssc.us.com

SSC provides services to the telecommunications, development and construction industries. The company says its full range of in-house services and abilities makes it uniquely capable of handling all aspects of the most challenging projects. SSC says it strives hard to serve its clients, solve their problems and communicate effectively.

#### See ad on page 91

# **TECTONIC**

Practical Solutions, Exceptional Service

#### **Tectonic Engineering & Surveying Consultants**

70 Pleasant Hill Road, P.O. Box 37 Mountainville, NY 10953 Richard P. Kummerle lskinner@ tectonicengineering.com 800.829.6531 tectonicengineering.com

Tectonic provides a full spectrum of site acquisition, A/E professional services and program management. Tectonics' staff of 500 is located throughout offices nationally, providing site acquisition, permitting, zoning, due diligence, NEPA/SHPO, Phase I, civil, structural and geotechnical engineering and tower analysis.

#### See ad on page 61

#### V-Comm

2540 U.S. Highway 130, Suite 101 Cranbury, NJ 08512 Dominic Villecco dominic.villecco@vcomm-eng.com 609.655.1200 vcomm-eng.com

#### **Vertical Solution**

2002 Production Drive Apex, NC 27539 Korey Stickney kstickney@ verticalsolutions-inc.com 919.321.6167 verticalsolutions-inc.com

aglmediagroup.com





#### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

#### See ad on page 42

### **ENVIRONMENTAL SERVICES**



#### Aarcher

**ENGINEERS – ENVIRONMENTAL SERVICES** 

910 Commerce Road Annapolis, MD 21401 Jason Los cboswell@aarcherinc.com 410.897.9100 aarcherinc.com

Aarcher provides Phase I environmental due diligence, NEPA screening, and cultural and natural resource services for antenna and tower installations. Since 1997, its team of environmental and conservation specialists and architectural historians supported thousands of installations from offices in Colorado, Maryland and Texas.

#### **Advantage Engineers**

7070 Samuel Morse Drive, Suite 150 Columbia, MD 21046 Matt Eveland meveland@ advantageengineers.com 443.367.0003

advantageengineers.com

#### See ad on page 73

#### **Aeroacoustic Engineering Consultants**

8014 Olson Highway, Suite 210 Minneapolis, MN 55427-4712 Lawrence F. Hansen larry.hansen@aecnonoise.com 763.355.2030 aecnonoise.com



#### **Dynamic Environmental Associates**

P.O. Box 7058 Lake Worth, FL 33466 David Jermakian diermakian@ dynamicenvironmental.com 877.968.4787 dynamicenvironmental.com

Dynamic Environmental Associates says it is the industry-recognized source for NEPA compliance. environmental site assessments, permitting, auditing and reporting. The company says that by adhering to its core principles, DEA has achieved recognition from both the tower industry and peers as leading experts in environmental assessment and compliance. DEA says that for nearly 20 years, it has been providing the communications industry with expert professional environmental services.

#### See ad on page 65

#### **FDH**

6521 Meridien Drive Raleigh, NC 27616 Christopher Ply cply@fdh-inc.com 919.755.1012 fdh-inc.com

#### GSS

3311 109th St. Urbandale, IA 50322 Steve Blazenko sjblazenko@gssmidwest.com 515.205.6570 gssmidwest.com

#### International **Climatic Evaluation**

1110 Finch Ave. West, Suite 716 Toronto, ON M3J 2T2 Canada Simon Weisman simon@weisman-consultants.com 416.736.7453 weisman-consultants.com



#### **IVI Telecom Services**

55 W. Red Oak Lane White Plains, NY 10604 Adrian Berezowsky adrian.berezowsky@ivi-intl.com 914.310.8066 ivi-telecom.com

IVI Telecom Services offers a wide spectrum of environmental services for nationwide telecommunications infrastructure development ranging from environmental site assessments to FCC/NEPA screenings and Section 106 consultations. IVI says it understands customers' program and schedule constraints and uses its expertise to realize customers' goals in a cost-effective and timely manner.

#### LR Kimball

615 W. Highland Ave. Ebensburg, PA 15931 Bill Waugaman communications.technology@ lrkimball.com 814.472.7700 lrkimball.com





#### **Martin**

#### **Environmental Solutions**

8823 San Jose Blvd., Suite 103 Jacksonville, FL 32217 Tom Martin contactmes@martinenviro.com 866.731.1034 martinenviro.com

#### Noble **Engineering Consultants**

123 E. Railroad St. Flora, IL 62839 Eric Seals eseals@nbleng.com 618.662.5800 nbleng.com

#### Ramaker & Associates

1120 Dallas St. Sauk City, WI 53583 Michael Pinske sdoody@ramaker.com 608.643.4100 ramaker.com

# If we are together, nothing is impossible. -Winston Churchill

#### **Remote Monitoring Services**

7732 County Road 150 Salida, CO 81201 Art Stone hillary@stonetechnology.com 719.539.1222 stonetechnology.com



#### **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com

678.292.5723 retelservices.com

Retel Services, a certified Women's Business Enterprise, offers a self-performed turnkey solution. The company's experienced team delivers site acquisition, project management, environmental, engineering and construction services.

#### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

See ad on page 42



Your towers are built to withstand tough conditions. **Your Environmental Compliance and Reviews should** withstand tough scrutiny.

If you are building a new tower you must comply with the National Environmental Policy Act (NEPA) and the FCC National Programmatic Agreement (NPA) for Impacts to Historic Resources. In many cases, modifications to existing towers must also comply with the NPA.

Dynamic Environmental Associates, Inc. is the Industry Recognized, Source For:

- NEPA & NPA Compliance
- · ASTM Environmental Site Assessments
- Permitting, Auditing & Reporting

We have been working with the tower and wireless industries since 1993. Our track record speaks for itself.

We don't cut corners. We cut risk.

Nationwide Toll Free 877.968.4787 info@DynamicEnvironmental.com www.DynamicEnvironmental.com

NVIRONMENTAL

SOCIATES. INC.

aglmediagroup.com





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**ENVIRONMENTAL SERVICES** 



**ENVIRONMENTAL SERVICES – FCC/FAA FILING** 



#### White Buffalo Environmental

6321 E. 102nd St., Suite C Tulsa, OK 74137 Steve McFarlin steve.mcfarlin@whitebuffalo.com 918.660.0999 whitebuffalo.com

White Buffalo Environmental conducts Phase I, NEPA, EA, tribal and agency consults. The company says customers can count on it to meet timelines and budgets. The company says it has experienced telecommunications environmental professionals, and that since 1998, it has provided expert services to majors and independents from single projects to large, multitower build outs.

See ad on page 161

### FCC/FAA FILING

#### **Advantage Communications**

515 S. Highland Drive Hollywood, FL 33021 Mark Lavallee mark.lavallee@ advantage-com.com 954.961.2642 advantage-com.com



#### **Caldwell Compliance**

3180 Crow Canyon Place, Suite 109 San Ramon, CA 94583

Karen Caldwell info@caldwellcompliance.com 925.570.9462 caldwellcompliance.com

Caldwell Compliance manages all aspects of the environmental regulatory process. Its experts oversee the process so its customers don't have to. Caldwell Compliance says it provides peace of mind that site compliance is taken care of 100 percent. The company says it improves customers' compliance experiences through its fresh approach.

#### Fletcher, Heald & Hildreth

1300 N. 17th St., Suite 1100 Arlington, VA 22209 Frank Jazzo office@fhhlaw.com 703.812.0400 fhhlaw.com

#### **Radio Licensing Services**

P.O. Box 22161 Milwaukie, OR 97222 Rick Mills radiolicensing@cuaccess.net 800.304.8821 radiolicensing.com



#### **SBA Communications**

5900 Broken Sound Parkway N.W. Boca Raton, FL 33487 Lynne Hopkins request@sbasite.com 800.487.SITE sbasite.com

As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer

satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

#### See ad on back cover

#### **Shulman Rogers**

12505 Park Potomac Ave., 6th Floor Potomac, MD 20854 Michael Higgs mhiggs@shulmanrogers.com 301.945.9244 shulmanrogers.com

#### See ad on page 161

#### Sitesafe

200 N. Glebe Road, Suite 1000 Arlington, VA 22203 Matt Butcher m.langford@velocitel.com 703.558.0502 sitesafe.com

#### **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494 John Celentano celentanoj@tessco.com 410.229.1186 tessco.com



#### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com









Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

See ad on page 42

### FINANCIAL **SERVICES**



#### **Advantage Funding**

1000 Parkwood Circle Atlanta, GA 30339 Jeff Farkas info@advantagefunding.com 800.241.2274 advantagefunding.com

Advantage Funding converts its customers' accounts receivables into instant cash at the time its customers are ready to bill their own clients. Customers can factor

one invoice or as many as they want. AFC does not require audits, financial statements or term contracts. It eliminates the drawbacks of traditional funding methods and offers many more advantages. The company says that dealing with AFC is as simple as 1-2-3.

#### See ad on page 161

#### **Black Dot**

27271 Las Ramblas Mission Viejo, CA 92691 Phil Ackerman packerman@ blackdotwireless.com 949.502.3819 blackdotwireless.com



The key to a good RFTC Telecom Concealment System is the way it's manufactured. Peabody RFTC Concealment has been doing this for over the last 2 decades, which means we have a lot of years of experience to rely upon. Working closely with carriers and providers gives us firsthand knowledge of what is wanted and needed in making a high quality concealment systems that are RF friendly and environmentally visually appealing. Our prefabricated concealment structures will save you thousands in installation costs compared to traditional build-on-site solutions.

Custom built to match

- ✓ Color
- Texture
- Building Details
- Appearance

Available as

- Cupolas
- Clock Towers
- Parapet Extensions
- ✓ Brick Walls
- Roof Tiles
- Radomes
- ✓ Water Towers
- And More



peabodyconcealment.com | sales@peabodyconcealment.com |

888.511.6828









## **Endeiro Capital Partners, LLC**

#### **Endeiro Capital Partners**

741 Avignon, Suite B Ridgeland, MS 39157 Jerry M. Sullivan jmsullivan@endeiro.com 601.326.0525

Endeiro Capital Partners is a diversified management and investment firm providing private equity, debt and operating support services to entrepreneurs in both new and emerging businesses and to growth-stage companies seeking to expand their existing operations.



LANDMARK DIVIDEND

#### Landmark Dividend

2141 Rosecrans Ave., Suite 2100 El Segundo, CA 90245-4747 Stephanie Simmons info@landmarkdividend.com 800.843.2024 landmarkdividend.com

Landmark Dividend says it is the national industry leader in ground lease transactions. Ground lease transactions are Landmark's only focus. The company says this single-minded commitment enables it to better understand customer needs as landlords and to offer customized capital solutions.

#### See ad on page 111

#### **Media Capital Advisors**

824 Topaz Drive West Chester, PA 19382 Steve Bitner

steve@mediacapadvisors.com 610.701.0961 mediacapadvisors.com



## Peppertree Capital

#### **Peppertree Capital Management**

86 West St. Chagrin Falls, OH 44022 Howard Mandel hmandel@peppertreecapital.com 440.528.0333 peppertreecapital.com

Peppertree Capital Management is a private equity fund manager focused on providing growth equity to telecommunications infrastructure companies in the United States and internationally. To date, Peppertree has sponsored 17 tower companies.

#### See ad on page 141



#### **RBC Capital Markets**

#### **RBC Capital Markets**

3 World Financial Center, 200 Vesey St., 11th Floor New York, NY 10281 Nick Stevenson bruce.wilmsen@rbccm.com 212.428.6405 rbccm.com/communications

#### **Tower Advisors**

2338 Messenger Circle Safety Harbor, FL 34695 Steven L. Ouzts steve@toweradvisorsllc.com 727.643.8907 toweradvisorsllc.com

### **FOUNDATIONS/** DRILLING

# CELL BLOCKS

#### **Cell Blocks**

277 Sumption Drive Columbus, OH 43230 Phillip Colflesh philcolflesh@cellblocksinc.com 614.800.0534 cellblocksinc.com

Cell Blocks is a nonpenetrating, engineered foundation made from individual precast concrete 7-foot-square blocks. The blocks are assembled in various configurations and post-tensioned, providing a foundation for poles, shelters and cabinets. Cell Blocks says predictability is key value.

#### FDH

6521 Meridien Drive Raleigh, NC 27616 Christopher Ply cply@fdh-inc.com 919.755.1012 fdh-inc.com

#### **Retel Services**

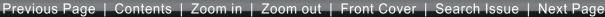
5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com

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FINANCIAL SERVICES — FOUNDATIONS/DRILLING







# When lightning strikes, will your radios keep working?

# {They will if you have Strikesorb}

Raycap's FTTA/PTTA connectivity and protection solutions for Remote Radio Head architectures enable distributed base station architectures and protect RRH systems from lightning damage.

They provide unique weatherproof solutions that protect your radios, manage your cables, are field upgradable, fully customizable, and significantly enhance the reliability and availability of the RRH site. Raycap products are the only protection you'll ever need for your valuable assets atop cell towers and inside base stations. We know our Strikesorb® surge protection technology works because it's already protecting tens of thousands of RRH sites worldwide.

Contact Raycap today for a detailed report of how Strikesorb can help protect your cell sites and contribute to your bottom line.









### **GENERATORS/ BATTERIES**

### **Alpha Technologies**

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

### See ad on page 39

### **Legacy Power Systems**

P.O. Box 360 Burley, WA 98322 Jamie Tracy jamiet@legacytowers.com 253.858.0214 legacypower.com



Sabre Industries Telecom Services

### **MUTI-Sabre Industries Telecom Services**

2626 Midwest Court Champaign, IL 61822 Scott Kisting skisting@mutionline.com 217.819.3040 mutionline.com

MUTI-Sabre Industries Telecom Services provides a variety of services to the telecommunications industry including tower construction, modifications, maintenance, inspections, microwave design and deployment, equipment integration, generators and HVAC maintenance.

### ReliOn

GENERATORS/BATTERIES – GROUNDING/SURGE SUP

15913 E. Euclid Ave. Spokane, WA 99216 Sandra Saathoff fuel.cells@relion-inc.com 509.228.6553 relion-inc.com



### **Southwire**

240 Chestnut St. Warwick, RI 02888 Karen Lawrence bruce.wasser@southwire.com 401.780.2035 southwire.com/industrial/ telcoflex.htm

Southwire says its TelcoFlex cable is the premier LSZH central office power cable used for all levels of telecom equipment installations and battery back-up in central offices and remote locations. TelcoFlex is compliant

# **GROUNDING / SUPPRESSION**



64 Catalyst Drive Canton, NC 28716 Eric Schilling info@alltecglobal.com 828.646.9290 alltecglobal.com

Alltec is an international, fullservice company specializing in engineered grounding/earthing and bonding, surge/transient

Ask your potential partners to identify their business strategies to see if you think your business is a good fit.

with Telcordia GR-347, and it is UL-listed and CSA-certified.

### See ad on page 121

### Thermo Bond Buildings

109 E. Pleasant St. Elk Point, SD 57025 Jonathan Jansen jon@thermobond.com 800.356.2686 thermobond.com

### See ad on page 161

### **Trojan Battery**

12380 Clark St. Santa Fe Springs, CA 90670 Meryl Cook kgarcia@trojanbattery.com 562.236.3165 trojanbattery.com

protection and lightning protection systems. It provides risk-mitigation strategies and engineered solutions for today's infrastructure challenges.

### See ad on page 43

### **Comsite Hardware**

P.O. Box 3951 Incline Village, NV 89450 Steve Hopkins sales@comsitehardware.com 775.832.2523 comsitehardware.com

### **Harger Lightning & Grounding**

301 Zielger Drive Grayslake, IL 60030 hargersales@harger.com 800.842.7437 harger.com

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Ingenuity Industries Incorporated

### **Ingenuity Industries**

1114 G St. Marysville, CA 95901 Matthew Younce matthew@bondwasher.com 530.933.1522 bondwasher.com

The original two-hole ground lug washer (Bondwasher) is here to stay, according to Ingenuity Industries, the company that brought the product to market five years ago. The company says it's now the only washer to consider using on ground bars. Ingenuity Industries also says the product is approved by the telecom industry "hands down."

### Lyncole XIT Grounding

3547 Voyager St. Torrance, CA 90503 Leslie Provenzano lprovenzano@lyncole.com 310.214.4000 lvncole.com



### NexTek

2 Park Drive, Building #1 Westford, MA 01886 Mike Kauffman sales@nexteklightning.com 978.486.0582 nexteklightning.com

NexTek designs and manufactures coaxial surge arrestors with performance from DC to 18 GHz and with transient ratings to 200 kA. The high-quality protectors feature a 10-year warranty and competitive pricing, and they are made in the United States. NexTek says, "Protect your investment by using NexTek arrestors."

# Kayca

### Raycap

806 S. Clearwater Loop Post Falls, ID 83854 Lisa Duckett marketing@raycap.com 208.777.1166 raycapsurgeprotection.com

Raycap says it is a world leader in lightning protection and cable management solutions for fiber-to-the-antenna (FTTA) networks. Its products connect and protect tens of thousands of 3G and 4G sites in the latest networks being built by the world's largest operators.

### See ad on page 69

### Southwire

240 Chestnut St. Warwick, RI 02888 Karen Lawrence bruce.wasser@southwire.com 401.780.2035 southwire.com/industrial/ telcoflex.htm

### See ad on page 121

### **Talley**

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@talleycom.com 562.906.8023 talleycom.com

### **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494 John Celentano celentanoj@tessco.com 410.229.1186 tessco.com

### **HVAC SYSTEMS**



### **Bard Manufacturing**

1914 Randolph Drive Bryan, OH 43506 Paul Quigley bard@bardhvac.com 419.636.1194 bardhvac.com

Wall-mount air conditioners from Bard Manufacturing for telecommunication shelters feature 1- to 6-ton cooling capacity, left or right service access, economizer ventilation options and specific telecom control module options. Single-stage equipment is available up to 10.2 EER efficiencies, and two-stage equipment up to 15.2 IPLV is also offered for even greater efficiencies.

See ad on page 62

### Dantherm

CONTROL YOUR CLIMATE

### **Dantherm**

110 Corporate Drive, Suite K Spartanburg, SC 29303 Lourdes Sisk dantherm.usa@dantherm.com 864.699.1058 dantherm.com/us

Dantherm Solutions provides energy-efficient heat removal from telecom shelters, rooms, cabinets

aglmediagroup.com





**HVAC SYSTEMS – INSPECTIONS** 



and enclosures. Dantherm also offers air conditioners, heat exchangers, free cooling and combo cooling designed to meet cooling requirements while reducing energy and operating costs.

### **Intelligent Power Management**

901 Jupiter Road Plano, TX 75074 Clint Pingleton diana stan@jabil.com 888.476.4752 intelligentpowermgmt.com



### Marvair

156 Seedling Drive Cordele, GA 31015 Kim Pate marvairsales@airxcel.com 229.273.3636 marvair.com

### **MUTI-Sabre Industries Telecom Services**

2626 Midwest Court Champaign, IL 61822 Scott Kisting skisting@mutionline.com 217.819.3040 mutionline.com

### **Tempest Telecom Solutions**

136 W. Canon Perdido, Suite 100 Santa Barbara, CA 93101 Elda Rudd erudd@tempesttelecom.com 805.879.4829 tempesttelecom.com

### Thermo Bond Buildings

109 E. Pleasant St. Elk Point, SD 57025 Jonathan Jansen jon@thermobond.com 800.356.2686 thermobond.com

See ad on page 161

### **Thin Air Construction**

3500 Cannon St. Hastings, MN 55033 Jules Fisher lules.fisher@ thinairconstruction.net 651.319.0152 thinairconstruction.net

### INSPECTIONS

10 Inverness Center Parkway, Suite 500 Birmingham, AL 35242 Ashley Little info@aldensys.com 205.978.2430 aldensys.com

### **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth kroth@allstatetower.com 270.830.8512 allstatetower.com

### See ad on page 161



### **AW Solutions**

300 Crown Oak Centre Drive Longwood, FL 32750 Keith Havter keith.hayter@awsolutionsinc.com 407.260.0231 awsolutionsinc.com

AW Solutions is licensed throughout the United States, Canada and Caribbean to provide turnkey site infrastructure development and build-to-suit services to the wireless, iDAS, oDAS, wireline and fiber industries.



### **Bell Tower**

6037 S. Industrial Road Chelsea, OK 74016 Richard Bell rose-btc@sbcglobal.net 918.789.9020 belltowercorp.com

For 22 years, Bell Tower has been designing, manufacturing and installing towers throughout the United States from 100-foot self-supporters to 2,000-foot broadcast towers. The company's experienced staff offers customers what Bell Tower says is finest safety record in the industry and fair pricing on challenging projects.



### BuzB

129 W. Official Road Addison, IL 60101 Jack Busby info@buzbcorp.com 630.543.5560 buzbcorp.com

BuzB offers detailed field mapping services for all tower structures and water tanks. Services include full structural, post modification inspections and platform audits. The areas served by BuzB include the Midwest and mid-South states from Minnesota to Arkansas and from Kansas to Ohio.

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### **Doty-Moore Tower Services**

100 W. Main St., Suite 400 Lansdale, PA 19446 Ed Deetscreek ed.deetscreek@stainlessllc.com 215.631.1323 stainlessllc.com



### Dynamic Environmental Associates

P.O. Box 7058
Lake Worth, FL 33466
David Jermakian
djermakian@
dynamicenvironmental.com
877.968.4787
dynamicenvironmental.com

Dynamic Environmental Associates says it is the industry-recognized source for NEPA compliance, environmental site assessments, permitting, auditing and reporting. The company says that by adhering to its core principles, DEA has achieved recognition from both the tower industry and peers as leading experts in environmental assessment and compliance. DEA says that for nearly 20 years, it has been providing the communications industry with expert professional environmental services.

### See ad on page 65

### **EMF Telecom**

328 Hill Ave. Nashville, TN 37210 info@emftelecom.com 615.291.6279 emftelecom.com

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### **Synergy Concepts**

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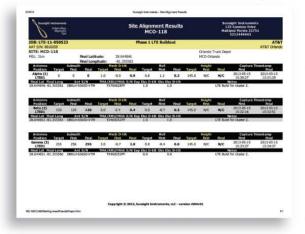
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1545 Pidco Drive Plymouth, IN 46563 Sean Gallagher sean.gallagher@valmont.com 503.589.6616 valmontstructures.com

### See ad on page 135

### **Vertical Solution**

2002 Production Drive Apex, NC 27539 Korey Stickney ksticknev@ verticalsolutions-inc.com 919.321.6167 verticalsolutions-inc.com

### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

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### INSTALLATION **SERVICES**

### **Aerial Infrastructure Services**

14026 W. 107th St. Lenexa, KS 66215 Tom Oren toren@AerialIServices.com 913.549.4545



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5500 Flatiron Parkway, Suite 100 Boulder, CO 80301 Jim Lockwood info@aerosolutionsllc.com 720.304.6882 aerosolutionsllc.com

Aero Solutions optimizes the load carrying capacity of monopole and tower structures, with thousands of upgrades completed in the United States since 2002. The company's innovative, nonwelded PoleMax reinforcing systems are supported by AeroSoft design software and technical field support.



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84 Merrill Road Clifton, NJ 07012-1622 Marty Coleman marty@colemanglobal.com 973.519.6416 colemanglobal.com



### **Day Wireless Systems**

4700 S.E. International Way Milwaukie, OR 97222 Dean Ballew dwssites@daywireless.com 503.659.1240 daywireless.com

Founded in 1969, Day Wireless Systems has 26 offices and 190 towers in the seven western states. The company specializes in collocation, site management, tower construction, system design, sales and service. Day Wireless says it is the largest full-service wireless integrator on the West Coast.

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9800 E. Easter Ave., Suite 140 Centennial, CO 80112 Fred McCoy fred@netstructures.com 303.539.008 netstructures.com

### **Optiglow Systems**

380 Holly Trail Crownsville, MD 21032 William Imperato wimperato@optiglow.com 410.409.8061 optiglow.com

### **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com



### **SBA Communications**

5900 Broken Sound Parkway N.W. Boca Raton, FL 33487 Lynne Hopkins request@sbasite.com 800.487.SITE sbasite.com

As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

### See ad on back cover

### **Shenandoah Tower Service**

P.O. Box 956 Staunton, VA 24402-0956 Dave Anthony davea@shensvc.com 540.569.6890 shenandoahtower.com

### SPAA05.com

Kleiweg 24 Waalwijk, FL 5145NB Hans Le Sage hans@spaa05.com 003.141.6565005 spaa05.com

# spectracom

### **Spectracom**

1565 Jefferson Road, Suite 460 Rochester, NY 14559 Wade Sober wade.sober@ spectracom.orolia.com 585.321.5810 spectracomcorp.com

The Path Align-R is a high-performance test solution designed for fast, accurate microwave path alignment. The manufacturer says the unit is endorsed by leading wireless communications suppliers, and it provides precise alignment results in about 20 minutes. No power or radios are required on-site. The Path Align-R provides proof of alignment with recorded and documented records.

### See ad on page 103

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P.O. Box 1960 Vega Alta, PR 00692 Carlos A. Rivera crivera@stcpr.com 787.553.9636

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### **Synergy Concepts**

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### **Vision Technologies**

530 G McCormick Drive Glen Burnie, MD 20161 Al Saxon asaxon@visiontech.biz 410.424.2183 visiontech.biz

### **WesTower Communications**

2460 Sand Lake Road Orlando, FL 32804 Angelique Stephens ccarlisle@westower.com 818.309.5163 westower.com

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2301 Highway 190 W. DeRidder, LA 70634 Marketing Department aiic-mktg@amerisafe.com 800.897.9719 amerisafe.com



### BB&T — Atlantic Risk Management

5850 Waterloo Road, Suite 240 Columbia, MD 21045 David Saul dsaul@bbandt.com 410.480.4413 atlanticrisk.com

BB&T — Atlantic Risk Management offers an insurance program endorsed by PCIA to meet the unique needs of tower owners. Property, liability, auto, workers' compensation and bonds are included.

### See ad on page 55

### **Landmark Dividend**

2141 Rosecrans Ave., Suite 2100 El Segundo, CA 90245-4747 Stephanie Simmons info@landmarkdividend.com 800.843.2024 landmarkdividend.com

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### **U.S. Title Solutions**

3 Werner Way Lebanon, NJ 08833 Jim Kudless jkudless@ustitlesolutions.com 908.849.3017 ustitlesolutions.com



Since 1946 SPINNER has been a leader in the development of the highest quality RF components.

For decades SPINNER has been at the forefront of designing Low PIM solutions. PIM performance affects wireless signals and data rates, which eventually affects your customers. Why take a chance on poor PIM performance?

This is also true for today's DAS systems. The N Type connector provides poor PIM performance when compared to a 7-16 connector, but the 7-16 is too big for DAS sytems. The 4.1-9.5 connector is the best available choice, it's the size of an N Type connector but it provides the superior PIM performance of a 7-16 connector.

The 4.1-9.5 connector family includes panel mount, bulkhead, field-fit and jumper products, all available to suit your Low PIM system design.

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**COVER STORY** 



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# PICKING YOUR PARTNERS

With supplier partners, product quality tends to trump price, while superior customer service tends to trump everything.

### By Mike Harrington

So much depends upon having the right partners for your business. The overall operation of any business—whether contractor, manufacturer, facility, or operational site—is only as good as the people, products and supplier partners it has. If employees are the heart and soul of your business, then your partners for products and services are the lifeblood. Picking the right partners can be just as important as choosing the right employees—particularly you're your partners provide big-ticket-item goods and services.

During the past decade or so, an increasing number of smaller businesses, including wireless infrastructure industry firms, have hired dedicated purchasing managers to help them track and choose partners to supply them with products. Smaller businesses also increasingly buy project management and tracking software to help them track project spending, quality products, good suppliers and low prices.





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urchasing products and services for a business is a specialized task that can be a daunting endeavor. For many industries, the purchasing management profession is no day at the beach —or shopping spree at the mall. Rather, it's a hydra-headed, shape-shifting monster rife with provisions, promises, factors, fears, options, negotiations and many other details. At least one professional likens purchasing management to spending each workday negotiating with tire sellers in an effort to buy the absolute best set of tires at the best price for a different car driven in a different climate —all while trying to capitalize on every special offer and discount.

Like selecting a new set of tires, choosing a product or service partner based on price alone is seldom the best way to go. For one thing, quality tends to trump price for both contractors and customers alike. More likely your supplier choice will depend on a wide range of factors including value, quality, reliability and service. Making the mistake of picking the wrong partners can quickly turn into a nightmare.

Still, some businesses in some industries are lucky to have formed long-term relationships with their suppliers and don't need to look for new ones. "There isn't one supplier that I found needed to be replaced," said John Paleski, owner and president Subcarrier Communications, a tower site management and telecommunications infrastructure development company with headquarters in Old Bridge, N.J.

Of course, for most companies purchasing doesn't always work so smoothly, or else there would be no need for purchasing managers. Because purchasing products and services is so complicated, and especially because mistakes can be expensive, most corporations have purchasing managers. Many of these procurement professionals have certified purchasing manager (CPM) credentials.

Most corporations have long employed computerized purchasing and procurement systems and order-management software to facilitate purchasing



management systems that can also manage a tender process and ad hoc purchasing activities. These programs are tailored to help the purchasing department with everything from what is in the inventory and what needs to be ordered to when things need to arrive. Therefore, most procedures for purchasing agents are centered on the use of software to perform many of the daily functions.

### **LIFE OF A PURCHASING MANAGER**

The fundamental job of a purchasing manager is to ensure that goods are purchased at the best price and terms to deliver the best profit for the company. This means that strong, clear purchasing procedures, including purchase orders and purchase requisitions, need to be in place.

According to eHow, an online how-to guide with more than 1 million articles and 170,000 videos, purchasing managers strive to make the best deals for their companies, while considering product cost, quality, availability, reliability and support when choosing supplies and suppliers. They dedicate endless hours to studying sales records, evaluating

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inventory levels, projecting demand, researching foreign and domestic suppliers and staying abreast of financial and political changes that could potentially affect the supply of, and demand for, necessary materials.

CareerBuilder.com, the online employment website, defines purchasing manager duties as follows:

- Maintain records of goods ordered and received
- Locate vendors of materials, equipment or supplies and interview them to determine product availability and terms of sales
- Prepare and process requisitions and purchase orders for supplies and equipment
- Control purchasing department budgets
- Interview and hire staff, and oversee staff training procedures
- Review purchase order claims and contracts for conformance to company policy

if the products come from overseas supplies. These procurements typically are handled by the most experienced purchasing managers. In addition to negotiating skills, they need in-depth knowledge of specific products and market conditions.

### WHAT TO LOOK FOR IN A SUPPLIER

"When choosing suppliers, one should consider quality, reliability, and service, as well as value for money," said Business Gateway, a business consulting firm with locations throughout Scotland. "How you weigh the importance of these different factors will depend on your business priorities and strategy. There are a number of key characteristics that you should look for when identifying and short-listing possible suppliers. Good suppliers should be able to demonstrate that they can offer the following benefits." Business Gateway prepared this checklist of supplier attributes:

Quality and Reliability: The quality of your supplies needs to be consistent—your customers will associate poor quality with you, not your suppliers. Equally, if your supplier lets you down with

> a late delivery or poor quality supplies, you may let your customer down.

> Speed and Flexibility: Being able to place frequent, small orders lets you avoid tying up too much working capital in stock. Flexible suppliers help

you respond quickly to changing customer demands and sudden emergencies.

**Value:** The lowest price is not always the best value. If you want reliability and quality from your suppliers, you'll have to decide how much you're willing to pay for your supplies and the balance you want to strike between cost, reliability, quality and service.

### Strong Service and Clear Communication:

You need your suppliers to deliver on time or give you plenty of warning if they can't. The best will want to talk with you regularly about what needs you have now and how they can better serve you the future.

Like selecting a new set of tires, choosing a product or service partner based on price alone is seldom the best way to go.

These days, it's only natural that most consumers, including purchasing managers, start their search for suppliers on the Internet. But most purchasing managers begin their days looking through reports, checking production schedules and noting any changes that might have happened from since the previous day. Purchasing managers within a company are usually each given a set responsibility for specialized items that the company uses on a regular basis—anything from purchasing office supplies to importing electronics from overseas. Each set of items has its place in the company, but some are easier to obtain than others and often take a great deal of planning to procure, especially

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inally, according to Business Gateway, it's only common sense to focus your efforts on choosing and managing strategic suppliers who provide goods or services that are essential to your business. "A strong relationship between buyer and supplier will benefit both sides,"

according to the consulting firm. "You want your suppliers to make every effort to provide the best service possible. Don't be afraid to remind your suppliers how important they are to your business.

"Our business requires that we work in faraway locations, including California or Hawaii, so we have to trust the contractors we hire are doing a good job for us," Paleski continued. "But, in the same vein, they have to trust us as well if they're going to get paid. So it helps to have very long-standing rela-

# "A strong relationship between buyer and supplier will benefit both sides"

Experts agree that the best way to deal with supplier partners is to acquire products in the right quantity, of the right quality, at the right cost, and at the right time and place. Avoid over-dependence on one partner. Cultivate good relationships with several partners, so that when one is unable to come through, you will always have a backup.

It pays to promote closer cooperation with all of your key partners. For instance, you may need to pay a higher premium for specific assurances or reward good service by paying more to certain suppliers who are prepared to go over and above what is usually expected of them. These actions can foster a special relationship, which ironically may save you money in the long run. Your partners and vendors can give you detailed specifications regarding products you have purchased and products you are considering purchasing.

### SUPPLIERS FOR CONSTRUCTION SITES

Contractors that perform construction work at sites all over the country typically develop relationships with partners they trust. The secret to success for some companies is simple: Treat your supplier partners well, and you'll be well treated. "Some organizations are net 30 or net 60 (a credit term, in which a client has either 30 or 60 days to pay the bill)," said Subcarrier's John Paleski. "We pay for all of our supplies right away. That really benefits both parties. It especially benefits me, because we don't have a list of payables that we have to worry about. And it benefits the supplier because they get paid right away.

tionships with all the different contractors and suppliers because they trust you. And if they trust you, they're going to do the work. If they don't trust you, you're not going to get your work done. Or, you're going to have to hire someone who may not be as qualified—a contractor who needs the work. That's why relationships in our industry are more important than in most industries — because I can't go to every site to supervise every little thing."

According to MonsterFm.com, a website founded to help FM start-ups, the best tower supplier partners will be those who share the following attributes:

**In-house engineering support:** Look for a supplier who has the in-house capability to design a tower to meet the particular criteria of your location and usage. Beware of suppliers who sell readymade solutions to your tower needs.

**Professional, registered engineers:** Be sure that professional, registered engineering in your state is available through the tower manufacturer. This certification assures you that the manufacturer has the credentials and capability to design a tower that will provide the required performance, and that the documentation will be timely and certified.

**Tower experience:** As with nearly any industry, the best, most-qualified suppliers are those who have been in the business the longest. Look for a supplier with at least 20 years' experience. Be sure to ask for a list of references.

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**Responsiveness:** Look for a tower supplier with the ability to quickly give you the right answers to your tower design questions. During the design construction process, prompt response to design changes and modifications of documentation can be key. A timely response to your questions can be a valuable benefit of selecting the right manufacturer.

### **FACTORS IN PICKING THE RIGHT PARTNER**

What's the best way to find suppliers in a very specialized industry? Meyer Tool & Manufacturing, Oak Lawn, Ill., which specializes in the design and manufacture of cryogenic, vacuum and pressure technologies for scientific and commercial applications, puts it this way: "We make buying decisions all the time. Most are trivial, and some are important. The selection of the supplier for the vacuum vessel, dewar, etc., will make the difference between real 'plug and play' integration vs. a more complicated process to integrate the component.

From our yearly customer surveys we see five factors that influence buying decisions: price, quality, schedule, experience and responsiveness. Each customer values these factors differently. The evaluation of these factors based on the bid responses leads to the determination of the best cost."

### **MEYER DETAILS THE FACTORS**

**Price:** This factor is easiest to evaluate, but the lowest price is not always your best choice.

Quality: This is hard to quantify. Use the supplied references. Ask for more if you are not sure. Anyone you are asking to bid should be able to supply three good references, but what about six or 10?

**Schedule:** Be up front with the supplier about schedule. Tight schedules often can lead to higher prices. If the schedule is important, indicate it in the request document. Ask the references about delivery.

**Experience:** Who are the supplier's customers? What value contracts do they give them? Are the references enthusiastic or lukewarm about the supplier?

**Responsiveness:** Again, what do the references



say? How were you treated during the bid? What sort of information/feedback did you get in the quotation? Did you get a price or a reasonable explanation of what to expect?

Meyer recommends asking a supplier straight out: Have you built X before? What project? When? What size/shape were the parts? If you're not satisfied with the answers, move on to the next supplier.

It's important to ask for references. "Explore possible mutual connections with the supplier," Meyer said. "Follow up and contact the references. How do you decide to whom to tender a request? If their references don't check out, skip them. Follow your instinct. You're sending out the request, not an order. If you've received good reference feedback and had a good conversation, try them out.

If you want to be analytical about it, look at your checklist. Assign a weight (0 to 5) to each item. Add up the scores—voila—pick your winners."

### About the author:

Mike Harrington is a freelance writer in Prairie Village, KS.

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### INTERMODULATION **STUDIES**

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### LR Kimball

615 W. Highland Ave. Ebensburg, PA 15931 Bill Waugaman communications.technology@ lrkimball.com 814.472.7700 lrkimball.com

### **PierCon Solutions**

63 Beaver Brook Road, Suite 201 Lincoln Park, NJ 07035 Rich Conroy rich.conroy@piercon.net 973.628.9330 piercon.net

### **Radio Licensing Services**

P.O. Box 22161 Milwaukie, OR 97222 Rick Mills radiolicensing@cuaccess.net 800.304.8821 radiolicensing.com

### **RCC Consultants**

100 Woodbridge Center Drive Woodbridge, NJ 07095 Mike Hunter info@rcc.com 732.404.2400 rcc.com

### SoftWright

P.O. Box 7205 Charlottesville, VA 22906 Jason Burkholder sales@softwright.com 303.344.5486 softwright.com

### **Telewave**

660 Giguere Court San Jose, CA 95133 sales@telewave.com 800.331.3396 telewave.com

Telewave designs and manufactures RF infrastructure equipment for wireless communication systems and interoperability. Customers include public safety organizations; local, county and federal agencies; industry; and the military.

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### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

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### LIGHTNING **PROTECTION**

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2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com

### Alltec

64 Catalyst Drive Canton, NC 28716 Eric Schilling info@alltecglobal.com 828.646.9290 alltecglobal.com

### See ad on page 43

### **Electronics Research**

7777 Gardner Road Chandler, IN 47610 David White sales@eriinc.com 812.925.6000 eriinc.com

### **Harger Lightning & Grounding**

301 Zielger Drive Grayslake, IL 60030 hargersales@harger.com 800.842.7437 harger.com

### **Huber+Suhner**

19 Thompson Drive Essex Junction, VT 05452 Dick Schmidt info@hubersuhner.com 630.816.4021 hubersuhner.com

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INTERMODULATION STUDIES - LIGHTNING PROTECTION









## Picking the right person for the right reasons at the right time is an art form. -Dr. Barton Goldsmith

### LBA Technology

3400 Tupper Drive Greenville, NC 27834 Byron Johnson lbagrp@lbagroup.com 252.757.0279 lbatechnology.com

### Lyncole XIT Grounding

3547 Voyager St. Torrance, CA 90503 Leslie Provenzano lprovenzano@lyncole.com 310.214.4000 lyncole.com



2 Park Drive, Building #1 Westford, MA 01886 Mike Kauffman sales@nexteklightning.com 978.486.0582 nexteklightning.com

NexTek designs and manufactures coaxial surge arrestors with performance from DC to 18 GHz and with transient ratings to 200 kA. The high-quality protectors feature

a 10-year warranty and competitive pricing, and they are made in the United States. NexTek says, "Protect your investment by using NexTek arrestors."

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SPINNER provides a wide variety of Low PIM products that are designed with DAS networks in mind. Our Mobile Network Combining System is used in Passive and Hybrid DAS networks, where multiple frequencies or multiple carriers need to be combined to meet technical and cost objectives.

The 4.1-9.5 connector family includes panel mount, bulkhead, field-fit and jumper products, all available to suit your Low PIM DAS system design. SPINNER also has connectors for Plenum cables, as well as Low PIM splitters and combiners for your growing network. Please contact us for more information on SPINNER DAS products.

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717.944.1300 phoenixcontact.com

Phoenix Contact develops and manufactures industrial electrical and electronic technology products that power, protect, connect and automate systems and equipment for many industries. Phoenix Contact employs more than 12,000 people worldwide, including 630 in the United States.

### See ad on page 34

# Pioneer Energy Products (Pepro)

671 Colbert Ave.
Oil City, PA 16301
Kelly Lander
klander@peprollc.com
814.676.5688
peprollc.com

### See ad on page 143

### Southwire

240 Chestnut St.
Warwick, RI 02888
Karen Lawrence
bruce.wasser@southwire.com
401.780.2035
southwire.com/industrial/
telcoflex.htm

### See ad on page 121



A **valmont ₹** COMPANY

### Valmont Site Pro 1

15 Oser Ave.
Hauppauge, NY 11788
Steve Hagee
steven.hagee@valmont.com
888.GETPRO1
sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, IN.; and Salem, OR. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.



### **Wanho Manufacturing**

137 Mattatuck Heights Waterbury, CT 06705 Sales sales@wanho.com 203.759.3744 wanho.com

See ad on page 137

### **LOANS**

### Peppertree Capital Management

86 West St.
Chagrin Falls, OH 44022
Howard Mandel
hmandel@peppertreecapital.com
440.528.0333
peppertreecapital.com

### See ad on page 141

### **RBC Capital Markets**

3 World Financial Center, 200 Vesey St., 11th Floor New York, NY 10281 Nick Stevenson bruce.wilmsen@rbccm.com 212.428.6405 rbccm.com/communications

### **MAINTENANCE**

### **Aerial Infrastructure Services**

14026 W. 107th St. Lenexa, KS 66215 Tom Oren toren@AerialIServices.com 913.549.4545

### AFL

170 Ridgeview Center Drive Duncan, SC 29334 Dennis Beck sales@aflglobal.com 678.576.7641 aflglobal.com

### **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

### See ad on page 161

### **Anchorguard**

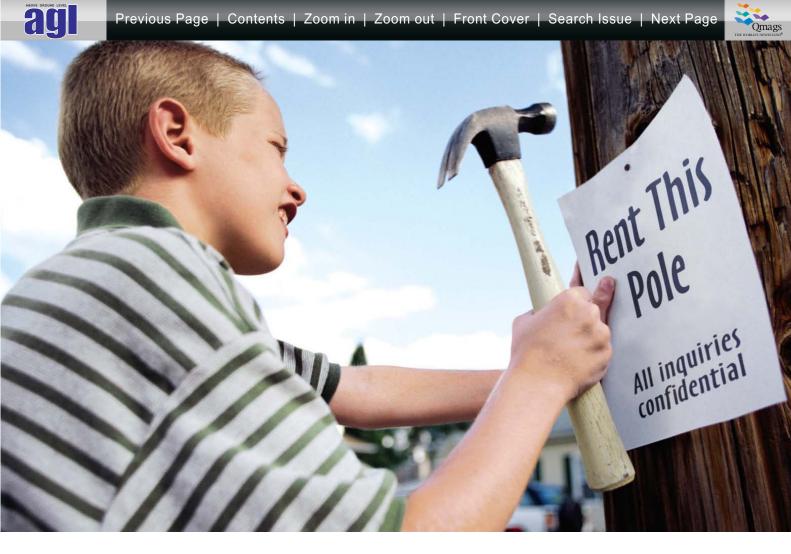
2224 E. 39th St. N. Sioux Falls, SD 57104 Scott Bartlett dscott@anchorguard.com 800.653.3392 anchorguard.com

AnchorGuard provides a corrosion control system for guy anchors and helicals. The company's monitoring device saves its customers time during inspections and provides them with peace of mind for what's going on "down under."

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Anritsu, a global provider of innovative test and measurement solutions, provides solutions for existing and next-generation wired and wireless communication systems and operators. Products include wireless, optical, microwave/RF and digital instruments, together with operations support systems for R&D, manufacturing, installation and maintenance.

### See ad on page 1

### **Doty-Moore Tower Services**

100 W. Main St., Suite 400 Lansdale, PA 19446 Ed Deetscreek ed.deetscreek@stainlessllc.com 215.631.1323 stainlessllc.com

### **EMF Telecom**

328 Hill Ave. Nashville, TN 37210 info@emftelecom.com 615.291.6279 emftelecom.com

### **FDH**

6521 Meridien Drive Raleigh, NC 27616 Dan Sammartano dsammartano@fdh-inc.com 919.755.1012 fdh-inc.com

### **Ingenuity Industries**

1114 G St.
Marysville, CA 95901
Matthew Younce
matthew@bondwasher.com
530.933.1522
bondwasher.com

skisting@mutionline.com 217.819.3040 mutionline.com

MUTI-Sabre Industries Telecom Services provides a variety of services to the telecommunications industry

# During interviews be candid about your typical payment schedules to avoid future conflict.

### **Legacy Power Systems**

P.O. Box 360 Burley, WA 98322 Jamie Tracy jamiet@legacytowers.com 253.858.0214 legacypower.com

### **Legacy Telecommunications**

1566 E. Weber Road Ritzville, WA 99169 Ryan J. Tracy ryant@legacytowers.com 509.659.4470 legacytowers.com

### **Matco Services**

100 Business Center Drive Pittsburgh, PA 15205 Dan Witt dan.witt@matcoinc.com 402.359.6753 matcoinc.com



Sabre Industries Telecom Service

### MUTI-Sabre Industries Telecom Services

2626 Midwest Court Champaign, IL 61822 Scott Kisting including tower construction, modifications, maintenance, inspections, microwave design and deployment, equipment integration, generators and HVAC maintenance.

### **NetStructures**

9800 E. Easter Ave., Suite 140 Centennial, CO 80112 Fred McCoy fred@netstructures.com 303.539.008 netstructures.com

### **Penn-Tech International**

3 S. Bacton Hill Road, Unit 2 Frazer, PA 19355 Thomas Hedberg pti@ptii.net 484.395.0145 ptii.net



### **Retel Services**

5871 Glenridge Drive N.E., Suite 110

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Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com

Retel Services, a certified Women's Business Enterprise, offers a self-performed turnkey solution. The company's experienced team delivers site acquisition, project management, environmental, engineering and construction services.



### **SBA Communications**

5900 Broken Sound Parkway N.W. Boca Raton, FL 33487 Lynne Hopkins request@sbasite.com 800.487.SITE sbasite.com

As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

### See ad on back cover

### **Shenandoah Tower Service**

P.O. Box 956 Staunton, VA 24402-0956 Dave Anthony davea@shensvc.com 540.569.6890 shenandoahtower.com



### SOLAR COMMUNICATIONS INTERNATIONAL

### **Solar Communications**

8885 Rio San Diego Drive, Suite 207 San Diego, CA 92108 Steve Holborn sholborn@rftransparent.com 619.243.2750 rftransparent.com

Solar Communications offers an array of concealment products and services for integrating wireless infrastructure into the community character, making SCI products what the company calls the ideal choice in any setting.

### See ad on page 45

### TRM

7468 Candlewood Road Hanover, MD 21076 Tom Napoli tnapoli@trmcom.com 240.205.1588 trmcom.com

### **UniTech Services Group**

295 Parker St. Springfield, MA 01151 Stephen Hofstatter shofstatter@unitechus.com 413.304.2100 unitech-rf.com

### See ad on page 131



### **Unites States Tower Services**

5263 Agro Drive

Frederick, MD 21703 **Ouentin** Ellis jim.martin@ustowerservices.com 301.874.5885 ustowerservices.com

United States Tower Services is based in Frederick, Md. Its business encompasses the sales, installation, construction, inspection, maintenance, repair, restructure, service and support of communications towers and related facilities.

### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

### See ad on page 42



### **Western Iowa Tech Corporate College**

4647 Stone Ave. Sioux City, IA 51106 Bill Koontz bill.koontz@witcc.edu 712.274.8733 corporatecollege.biz

Western Iowa Tech Corporate College offers what it calls unsurpassed customized training, combining classroom instruction reinforced with actual hands-on techniques. Training is available on-site at its campus or in its state-of-the-art mobile classroom.

### See ad on page 139

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MAINTENANCE



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### **WesTower Communications**

2460 Sand Lake Road Orlando, FL 32804 Angelique Stephens ccarlisle@westower.com 818.309.5163 westower.com

# MAPPING & SOFTWARE

### **Aerial Infrastructure Services**

14026 W. 107th St. Lenexa, KS 66215 Tom Oren toren@AerialIServices.com 913.549.4545

### Alden

10 Inverness Center Parkway, Suite 500 Birmingham, AL 35242 Ashley Little info@aldensys.com 205.978.2430 aldensys.com

### **Guymast**

1110 Finch Ave. West, Suite 716
Toronto, ON M3J 2T2
Canada
Simon Weisman
simon@weisman-consultants.com
416.736.7453
guymast.com

### **iBwave**

7075 Robert-Joncas, Suite 95 Montreal, QC H4M 2Z2 Canada Juan Felipe Gonzalez info@ibwave.com 514.397.0606 ibwave.com

### SoftWright

P.O. Box 7205 Charlottesville, VA 22906 Jason Burkholder sales@softwright.com 303.344.5486 softwright.com

### **Tower Maps**

38659 Bolington Road Lovettsville, VA 20180 David Ward info@towermaps.com 540.822.5092 towermaps.com



### **Tower Numerics**

1050 Waltham St., Suite 430 Lexington, MA 02421 Peter Chojnacki info@towernx.com 855.TOWERNX towernx.com

Tower Numerics is the developer of tnxTower (formerly RISA-Tower), which it says is the industry standard software for tower analysis and design.

### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

See ad on page 42

### **MONITORING**

### **Asentria**

1200 N. 96th St.
Seattle, WA 98103
Sales
chuck.erickson@asentria.com
206.344.8800
asentria.com



### **Bird Technologies**

30303 Aurora Road Solon, OH 44139 Tom Boyle sales@birdrf.com 440.519.2172 birdrf.com

### See ad on page 161

### **Davicom**

2300 Leon-Harmel, Suite 220 Quebec, QC G1N 4L2 Canada Guy Fournier dvsales@davicom.com 418.682.3380 davicom.com

### DeltaNode

30303 Aurora Road Solon, OH 44139 Tom Boyle tboyle@birdrf.com 440.248.2172 deltanode.com

### See ad on page 161

### **High Gain Wireless**

P.O. Box 308 Great Falls, VA 22066-0308 Tom Ferguson tferguson@highgainwireless.com 717.592.9578 highgainwireless.com

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### Supra

4001 Fairview Industrial Drive S.E. Salem, OR 97302 503.545.7402 suprasystems.com/traccess



### Unimar

3195 Vickery Road North Syracuse, NY 13212-4574 Christopher Phelps maurita@unimar.com 315.699.4400 unimar.com

As a provider of lighting solutions designed specifically to meet customers' needs, Unimar says it learns every aspect of its customers' business and regulatory needs, provides expertise in designing and building their lighting systems, and follows up with customer support. Unimar says the result is greater reliability, economy and performance.

See ad on page 53

# MONITORING/ REMOTE

### Asentria

1200 N. 96th St. Seattle, WA 98103 chuck.erickson@asentria.com 206.344.8800 asentria.com

### **Axell Wireless**

15950 N. Dallas Parkway, Suite 400

Dallas, TX 75248 Matthew Thompson info@axellwireless.com 972.361.8038 axellwireless.com

### **Bird Technologies**

30303 Aurora Road Solon, OH 44139 Tom Boyle sales@birdrf.com 440.519.2172

### birdrf.com

### See ad on page 161

### **Davicom**

2300 Leon-Harmel, Suite 220 Quebec, QC G1N 4L2 Canada **Guy Fournier** dvsales@davicom.com 418.682.3380 davicom.com



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Vanguard<sup>TM</sup> II comes with a new system enclosure to simplify installation, reduce operating temperature, and improve accessibility. A new marker has been designed to be lighter and more compact than ever before, which allows for easy installation and durable operation. Vanguard<sup>TM</sup> II has industry leading surge suppression making it more resilient to lightning induced surges. DC Power input, and infrared for better visibility through night vision goggles, further add to the list of options available with the Vanguard<sup>TM</sup> II . Call our sales team or go on our website to learn more.

# >Flash Technology

888.313.5274 flashtechnology.com









### **DeltaNode**

30303 Aurora Road Solon, OH 44139 Tom Boyle tboyle@birdrf.com 440.248.2172 deltanode.com

### See ad on page 161



### **Dialight**

1501 State Route 34
Farmingdale, NJ 07727-3932
info@dialight.com
732. 919.3119
dialight.com

Dialight offers the Vigilant line of obstruction LED lighting, controls and monitoring systems. With FAA certification for all tower and obstruction types and heights, Dialight says the new Vigilant obstruction line provides worry-free operation, lower power consumption, smaller size, less wind load and lighter weight.

### See ad on page 118

### >Flash Technology

### Flash Technology

332 Nichol Mill Lane Franklin, TN 37067 Technical Sales gayle.mason@spx.com 615.503.2025 flashtechnology.com

Flash says it is the world leader in FAA-approved aviation obstruction lighting, designed for easy installation, low power consumption and reduced maintenance with the latest in LED technology. Flash also offers component-level training and a 24/7/365 national operations center. Its product solutions enable customers to obtain QLI waivers. Flash Technology's slogan is: "Simply the Best!"

### See ad on page 92

### **High Gain Wireless**

P.O. Box 308 Great Falls, VA 22066-0308 Tom Ferguson tferguson@highgainwireless.com 717.592.9578 highgainwireless.com

### **Remote Monitoring Services**

7732 County Road 150 Salida, CO 81201 Art Stone hillary@stonetechnology.com 719.539.1222 stonetechnology.com



### **Sunsight Instruments**

125 Candace Drive Maitland, FL 32751 Marla Riggs sales@sunsight.com 321.244.9443 sunsight.com

Sunsight says it is the industry leader in the development and manufacturing of antenna alignment sensors, monitoring systems and tools. Their products will help you build your network and keep your signal strong. Contractors and carriers will benefit from eliminating re-trips and site level closeouts.

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### Supra

4001 Fairview Industrial Drive S.E. Salem, OR 97302 503.545.7402 suprasystems.com/traccess

## TWR Lighting, Inc. MR

### TWR Lighting

4300 Windfern Road Houston, TX 77041-8943 Jeremy Lochner jlochner@twrlighting.com 713.973.6905 twrlighting.com

TWR says it is "your one-source solution for LED lighting and wireless monitoring." With more than 100,000 systems installed worldwide, TWR says its field-proven, proprietary technology provides the lowest power consumption and community-friendly narrow beam optics, and it allows for a single controller and cable installation even with multiple flash heads. TWR says it has the most comprehensive five-year complete system warranty, and that it had the first FCC/FAA avian-compliant lighting system. Paired with its wireless monitoring systems, TWR's systems allow for yearly light inspections, which saves customers thousands of dollars over the system life.

### See ad on page 125

### Unimar

3195 Vickery Road North Syracuse, NY 13212-4574 Christopher Phelps maurita@unimar.com 315.699.4400 unimar.com

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MONITORING/REMOTE



### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson waterfordconsultants.com 703.910.5054 waterfordconsultants.com

### See ad on page 42

### **Westell Technologies**

750 N. Commons Drive Aurora, IL 60504 Sales contactsales@westell.com 800.377.8766 westell.com

### **PAINTING**

### **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

See ad on page 161



### **Base Group**

5636 Kendall Court U-F Arvada, CO 80002 **Dutch Purnell** contact@basepainters.com 303.408.6643 basepainters.com



### **GME Supply**

1801 Westfall Drive Columbia, MO 65202 Jim Zepp info@gmesupply.com 718.210.3913 gmesupply.com

GME Supply says it is America's premier outfitter of equipment and supplies. It says its mission is to keep workers safe and productive while on the job. The company asks customers to "climb higher with GME Supply, your trusted resource for expert advice and superior service."

### See ad on inside back cover

### **Synergy Concepts**

105 Ford Lane Hazelwood, MO 63042 Ben White benwhite@ synergyconceptsinc.com 314.895.2800 synergyconceptsinc.com

### **POINT-TO-POINT PRODUCTS**

### **Advantage Communications**

515 S. Highland Drive Hollywood, FL 33021 Mark Lavallee mark.lavallee@ advantage-com.com 954.961.2642 advantage-com.com

### **Alliance**

2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com

### **DragonWave**

600-411 Legget Drive Kanata, ON K2K 3C9 Canada Bill Paulsen info@dragonwaveinc.com 613.599.9991 dragonwaveinc.com

### **EBlink**

7011 Koll Center Parkway, Suite 164 Pleasanton, CA 94566 Frederic Leroudier frederic.leroudier@e-blink.com 408.420.5858 e-blink.com

### **Exalt Communications**

254 E. Hacienda Ave. Campbell, CA 95008 Pamela Valentine pvalentine@exaltcom.com 408.688.0200 exaltcom.com

### **PierCon Solutions**

63 Beaver Brook Road, Suite 201 Lincoln Park, NJ 07035 Rich Conroy rich.conroy@piercon.net 973.628.9330 piercon.net

### **Positron**

5101 Buchan St., Suite 220 Montreal, QC H4P 2R9 Canada Salvatore Carbonaro scohen@positron.ca 514.345.2214 positronpower.com

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MONITORING /REMOTE - POINT-TO-POINT PRODUCTS









### **RAD Data Communications**

900 Corporate Drive Mahwah, NJ 07430 Chris Fleming market@radusa.com 201.529.1100 radusa.com

### RADIO FREQUENCY SYSTEMS The Clear Choice



### **Radio Frequency Systems**

200 Pond View Drive Meriden, CT 06450 Paula Mennone-Preisner sales.americas@rfsworld.com 800.321.4700 rfsworld.com

Denver, CO 80239 Daniel White salesna@saftehnika.com 720.502.0724 saftehnika.com/en/ spectrumanalyzer

### **Tarana Wireless**

2953 Bunker Hill Lane, #100 Santa Clara, CA 95054 Luke Angelus info@taranawireless.com 617.413.4373 taranawireless.com

### **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494

### Friendship is essentially a partnership. -Aristotle

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, along with active and passive RF conditioning modules, providing total-package solutions for outdoor and indoor wireless infrastructure. RFS serves OEMs, distributors, system integrators, operators and installers. Its customers include the four largest wireless carriers, the majority of tier 2 and 3 wireless carriers in North America and many of the top wireless and microwave OEMs worldwide.

### See ad on page 57

### **SAF Tehnika JSC**

10500 E. 54th Ave., Unit D

John Celentano celentanoj@tessco.com 410.229.1186 tessco.com

### **Total Telecom Consulting**

2218 Boustead St. Pittsburgh, PA 15216 **Robert Stevens** rstevens@ totaltelecomconsulting.com 412.450.0005 totaltelecomconsulting.com

### **Trango Systems**

14118 Stowe Drive, Suite B Poway, CA 92064 John Seaman sales@trangosys.com 858.391.0010 trangosys.com

### **POWER** DISTRIBUTION **EOUIPMENT**



### **DuraComm**

6655 Troost Ave. Kansas City, MO 64131 Joe White sales@duracomm.com 816.472.5544 duracomm.com

DuraComm is a source of ultra-reliable AC-to-DC switch mode power supplies, DC-to-DC power converters, battery management and charging systems, DC power distribution equipment, and complementary accessories.

### **Intelligent Power Management**

901 Jupiter Road Plano, TX 75074 Clint Pingleton diana stan@jabil.com 888.476.4752 intelligentpowermgmt.com

### **Legacy Power Systems**

P.O. Box 360 Burley, WA 98322 Jamie Tracy jamiet@legacytowers.com 253.858.0214 legacypower.com

### **MUTI-Sabre Industries Telecom Services**

2626 Midwest Court Champaign, IL 61822 Scott Kisting skisting@mutionline.com 217.819.3040 mutionline.com

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### Southwire

240 Chestnut St. Warwick, RI 02888 Karen Lawrence bruce.wasser@southwire.com 401.780.2035 southwire.com/industrial/ telcoflex.htm

### See ad on page 121

### **Westell Technologies**

750 N. Commons Drive Aurora, IL 60504 Sales contactsales@westell.com 800.377.8766 westell.com

### **POWER SUPPLIES**



### **Alpha Technologies**

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

Alpha Technologies designs and manufactures powering solutions for evolving wireless networks. With over 35 years of expertise, Alpha offers superior AC, DC and renewable energy powering solutions.

See ad on page 39



...... SUPPLIERS / .......

### A Benny Lee Company

### **DuraComm**

6655 Troost Ave. Kansas City, MO 64131 Joe White sales@duracomm.com 816.472.5544 duracomm.com

DuraComm is a source of ultra-reliable AC-to-DC switch mode power supplies, DC-to-DC power converters, battery management and charging systems, DC power distribution equipment, and complementary accessories.



### **Eltek**

2925 E. Plano Parkway Plano, TX 75074 Sales sales.us@eltek.com 469.330.9100 eltek.com

### Southwire

240 Chestnut St. Warwick, RI 02888 Karen Lawrence bruce.wasser@southwire.com 401.780.2035 southwire.com/industrial/ telcoflex.htm

### See ad on page 121

### **Talley**

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@talleycom.com 562.906.8023 talleycom.com

### **Trojan Battery**

12380 Clark St. Santa Fe Springs, CA 90670 Meryl Cook kgarcia@trojanbattery.com 562.236.3165 trojanbattery.com

### **POWER** SYSTEMS/UPS

### Alpha Technologies

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

Alpha Technologies designs and manufactures powering solutions for evolving wireless networks. With over 35 years of expertise, Alpha offers superior AC, DC and renewable energy powering solutions.

### See ad on page 39

### Eltek

2925 E. Plano Parkway Plano, TX 75074 Sales sales.us@eltek.com 469.330.9100 eltek.com

### **Intelligent Power Management**

901 Jupiter Road Plano, TX 75074 Clint Pingleton diana\_stan@jabil.com 888.476.4752 intelligentpowermgmt.com

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POWER DISTRIBUTION — POWER SYSTEMS/UPS







### ReliOn

15913 E. Euclid Ave. Spokane, WA 99216 Sandra Saathoff fuel.cells@relion-inc.com 509.228.6553 relion-inc.com

### **REAL ESTATE SERVICES**

### 17 Mile

P.O. Box 826 Ardmore, PA 19003 Phone: 610.613.6927 mark@17mile.net 17mile.net

### Aarcher

910 Commerce Road Annapolis, MD 21401 Jason Los cboswell@aarcherinc.com 410.897.9100 aarcherinc.com

### **Atlantic Site Development**

229 Fenimore Lane Delanco, NJ 08075 Matt Bartlett mbartlett@atlanticsite.net 856.735.0443



### Black & Veatch

10950 Grandview Drive Overland Park, KS 66210 Kristi Klohs klohskm@bv.com 913.458.6271 bv.com

Black & Veatch network infrastructure deployment/upgrade solutions include program/ project management, site acquisition, A&E engineering, zoning and permitting, tower structural analysis/mods, procurement, construction and construction management, DAS and small cell and decommissioning.

See ad on page 10



### **Caldwell Compliance**

3180 Crow Canyon Place, Suite 109 San Ramon, CA 94583 Karen Caldwell info@caldwellcompliance.com 925.570.9462



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weld onto your painted tower to mount antennas or cables.

### You NO LONGER HAVE TO

remove tank coating to epoxy mounts for antennas or cables.

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### For more information, please contact: David Klein, President

(P) 330-963-7909 david@metal-cable.com Web site:www.metal-cable.com



aglmediagroup.com





Qmags THE WORLD'S NEWSSTAND



### caldwellcompliance.com

Caldwell Compliance manages all aspects of the environmental regulatory process. Its experts oversee the process so its customers don't have to. Caldwell Compliance says it provides peace of mind that site compliance is taken care of 100 percent. The company says it improves customers' compliance experiences through its fresh approach.

# CarrierClass Deployment Services

400 Stenton Ave., Suite 204
Plymouth Meeting, PA 19462
James Innes
james.innes@
carrierclassgroup.com
267.481.1461
carrierclassgroup.com



TELECOMMUNICATIONS SITE ACQUISITION & CONSTRUCTION

### **CIS Communications**

749 Old Ballas Road Saint Louis, MO 63141 Brick P. Storts brick@ciscomm.com 314.569.2275 ciscomm.com

### **CW Solutions**

6040 Blvd. East, Suite C6 West New York, NJ 07093 Stacie Curtis scurtis@cwcsi.com 201.317.0143 cwcsi.com

### **Dynamic**

### **Environmental Associates**

P.O. Box 7058
Lake Worth, FL 33466
David Jermakian
djermakian@
dynamicenvironmental.com
877.968.4787
dynamicenvironmental.com

### See ad on page 65

### **Infrastructure Realty**

1620 Central Ave. Cheyenne, WY 80021 Randy Whitehead manager@ infrastructurerealty.com 307.213.9720 infrastructurerealty.com

### **KJK Wireless**

127 Ridge Road Nashua, NH 03062 Ken Kozyra ken@kjkwireless.com 603.888.8974 kjkwireless.com

### **LAB Development**

Wallace Grove Lane Milford, OH 45150 Doug Bartsch dbartsch@labdevelopment.com 513.236.0356 labdevelopment.com

### **Landmark Dividend**

2141 Rosecrans Ave., Suite 2100 El Segundo, CA 90245-4747 Stephanie Simmons info@landmarkdividend.com 800.843.2024 landmarkdividend.com

### See ad on page 111

### Lyle

3140 Gold Camp Drive, Suite 30 Rancho Cordova, CA 95670 Matt Johnson mjohnson@lyleco.com 916.804.7528 lyleco.com

### **MasTec Network Solutions**

2859 Paces Ferry Road, Suite 600 Atlanta, GA 30339 Shauncey Mashia shauncey.mashia@mastec.com 404.541.1300 mastec.com/communications

### Matthew J. Traiser

8805 Tamiami Trail North Naples, FL 34108 Matthew Traiser matthew.traiser@gmail.com 612.414.3322

### P. Marshall and Associates

1000 Holcomb Woods Parkway, Suite 210 Roswell, GA 30076 Greg Hazlehurst info@pmass.com 678.280.2325 pmass.com



### Parallel Infrastructure

4601 Touchton Road East, Building 300, Suite 3200 Jacksonville, FL 32246 Edward Lee eddy@parallelinfrastructure.com 904.565.4115 parallelinfrastructure.com

Parallel Infrastructure says it is the leader in right of way management and infrastructure development, focusing on maximizing the value of underutilized land assets for third-party clients. The firm's capabilities include telecommunications infrastructure development.

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5900 Broken Sound Parkway N.W. Boca Raton, FL 33487 Lynne Hopkins request@sbasite.com 800.487.SITE sbasite.com

As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

See ad on back cover

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2925 Saint Charles Drive Conway, AR 72034 Thomas Dolislager thomasd@selltower.com 501.329.2114 selltower.com



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U.S. Title Solutions is a nationwide provider of title search and document filing services to the telecommunications industry. Its online order entry, status and document delivery system provides up-to-date information. The company offers full deed reports and property detail reports, among other products. Nationwide pricing is available.

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REAL ESTATE SERVICES – RF COMPLIANCE/MONITORING









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### **DAS Advisers**

67 W. Boulder St. Colorado Springs, CO 80903 **Deborah Crowley** deborahcrowley@dasadvisers.com 304.549.5075 dasadvisers.com

### Electro Rent

6060 Sepulveda Blvd. Van Nuvs, CA 91411 Electro Rent sales@electrorent.com 800.553.2255 electrorent.com



### FieldSense USA

P.O. Box 30014 Columbia, MO 65205 Max Birch info@fieldsenseusa.com 312.260.6055 fieldsense.com

FieldSense says its personal RF monitor is a cost-effective solution for mobile network operators and professionals searching for a way to ensure safety for all personnel working in the vicinity of base station antennas. The unit is compact and has a durable design intended for everyday use.

### See ad on page 7

### **Isotrope**

503 Main St. Medfield, MA 02052 Steve Riggs contact@isotrope.im 508.359.8833 isotrope.im

Isotrope offers what it calls total support in design, specification, evaluation and construction of wireless facilities. Services provided include RF design, project management, coverage mapping, drive testing, zoning compliance, RF interference remediation and RF safety compliance.

### LBA Technology

3400 Tupper Drive Greenville, NC 27834 Byron Johnson lbagrp@lbagroup.com 252.757.0279 lbatechnology.com

### Pinnacle Telecom Group

14 Ridgedale Ave., Suite 209 Cedar Knolls, NJ 07927 Dan Collins dancollins@ pinnacletelecomgroup.com 973.451.1630 pinnacletelecomgroup.com

### **Radio Licensing Services**

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### RFSigns.com

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Medfield, MA 02052 Steve Riggs contact@rfsigns.com 508.359.8833 rfsigns.com

RFSigns.com says it is the leading provider of RF safety signage. Signs are durable and compliant with ANSI/OSHA standards. Signs are available in bilingual versions (English/Spanish). RFSigns offers tower registration signs, RF safety decals and innovative, tamper-resistant sign mounting hardware.

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### Solid

617 N. Mary Ave. Sunnyvale, CA 94085 Matt Atkins info@solid.com 888.409.9997 solid.com

Solid is a global wireless infrastructure company that enables indoor and outdoor cellular, public-safety and Wi-Fi communications at some of the world's bestknown venues.

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### **Sunsight Instruments**

125 Candace Drive Maitland, FL 32751 Marla Riggs sales@sunsight.com 321.244.9443 sunsight.com

Sunsight says it is the industry leader in the development and manufacturing of antenna alignment sensors, monitoring systems and tools. Their products will help you build your network and keep your signal strong. Contractors and carriers will benefit from eliminating re-trips and site level closeouts.

### See ad on page 74

### **Tech Products**

**RF COMPLIANCE/MONITORING — RF MANAGEMENT** 

105 Willow Ave. Staten Island, NY 10305 Daniel D. O'Connor team@techproducts.com 718.442.4900 techproducts.com



### **UniTech Services Group**

295 Parker St. Springfield, MA 01151 Stephen Hofstatter shofstatter@unitechus.com 413.304.2100 unitech-rf.com

Unitech, which says it is a 50-year pioneer in radiation protection, wants customers to choose it for their RF protection compliance. UniTech's RF garment system uses patented, proven Naptex and can be purchased or rented. Its rugged, FCC-compliant signs are offered in many materials and may be customized at no additional charge.

See ad on page 131



### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

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### **RF MANAGEMENT**

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### **Frequency Engineering**

10482 Almond St. Rancho Cucamonga, CA 91737 Dana Dulabone dana@rfawareness.com 813,495,0038 rfawareness.com

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### **Distributed Wireless Group**

587 N. Ventu Park Road, Suite E221 Newbury Park, CA 91320 Craig J. Stanziano craig.stanziano@ distributed-wireless.com 805.768.4121 distributed-wireless.com



### FieldSense USA

P.O. Box 30014 Columbia, MO 65205 Max Birch info@fieldsenseusa.com 312.260.6055 fieldsense.com

FieldSense says its personal RF monitor is a cost-effective solution for mobile network operators and professionals searching for a way to ensure safety for all personnel working in the vicinity of base

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station antennas. The unit is compact and has a durable design intended for everyday use.

### See ad on page 7

### **Hariton Wireless Consulting**

12 Willowdale Road Topsfield, MA 01983 Joel Hariton jhariton@hotmail.com 978.887.3833 haritonwireless.com

### **IEEE Communications Society**

3 Park Ave., 17th Floor New York, NY 10016 Marilyn Catis t.gallus@comsoc.org 212.705.8953 comsoc.org/training

### **JDS Uniphase**

430 N. McCarthy Blvd. Milpitas, CA 95035 Michael Tschirret jdsu.quickpurchase@jdsu.com 919.388.5069 idsu.com/en-us/test-andmeasurement/products/wireless/pages/default.aspx

### **RFSigns.com**

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### **UniTech Services Group**

295 Parker St. Springfield, MA 01151 Stephen Hofstatter shofstatter@unitechus.com 413.304.2100 unitech-rf.com

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### **Waterford Consultants**

P.O. Box 2090

Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

### See ad on page 42

### ROOFTOP **ENCLOSURES**

### **Amphenol Fiber Optic Products**

2100 Western Court Lisle, IL 60532 Anis Khemakhem sales@amphenol-fiberoptics.com 630.432.5715

Amphenol provides interconnectivity. Founded in 1932, Amphenol designs, manufactures and markets fiber-optic, electrical and coaxial interconnect products, including antennas. Amphenol products are engineered and manufactured globally.



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#### See ad on page 21



#### **Environmental Integration**

18 Chase Court Orange, MA 01364 Thor Holbek info@ environmentalintegration.com 978.544.1900 environmentalintegration.com

Environmental Integration designs and manufactures concealment products for monopole, rooftop and steeple applications. Branch canopy systems, including refurbish projects, are engineered for durability and longevity. The company specializes in realistic reproductions for concealment.

#### **Hi Tech Composite Structures**

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Larson says it pioneered cellular camouflage with the first monopine in 1992 and that it has been leading the industry ever since. The company's products include pines, palms, elms, cypress, cacti, rooftops and DAS towers. Larson also refurbishes trees with field-installed bark, branches and fronds.

#### See ad on page 37

#### **Mobile Modular Express II / Reliant Shelters**

58120 County Road 3 South Elkhart, IN 46517 Tim Fye tfye@mobilemodular.com 574.295.1214 mobilemodular.com



#### **Peabody Concealment**

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Peabody Concealment offers prefabricated cell site RFTC concealment enclosure design, engineering and fabrication. Large prefab sections are built to match architecture to help pass zoning and siting regulations for easy permit approval, and they install in hours, saving thousands of dollars in costs.

See ad on page 67

Campbellsville Industries, whose nickname is "the Steeple People," says it is the oldest and largest steeple/cupola company in the United States with more than 18,000 installations throughout the world. The company uses traditional architectural styling and historic reproduction to conceal antennas inside the steeple/cupola.

#### See ad on page 151



#### **Charles Industries**

5600 Apollo Drive Rolling Meadows, IL 60008 Dominic Imbrogno mktserv@charlesindustries.com 847.806.6300 charlesindustries.com

Charles Industries manufactures innovative enclosed solutions including remote cabinets for wireless backhaul, small cell, DAS, AMI, site support, and BTS deployments; fiber distribution building terminals and hubs; and fiber cross-connect and distribution point pedestals. Charles is a U.S. based manufacturer and ISO 9001/TL 9000 registered company.

#### See ad on page 33

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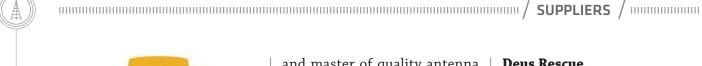
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**ROOFTOP ENCLOSURES** 



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#### **SOLAR COMMUNICATIONS** INTERNATIONAL

#### **Solar Communications**

8885 Rio San Diego Drive, Suite 207 San Diego, CA 92108 Steve Holborn sholborn@rftransparent.com 619.243.2750 rftransparent.com

Solar Communications offers an array of concealment products and services for integrating wireless infrastructure into the community character, making SCI products what the company calls the ideal choice in any setting.

#### See ad on page 45

**ROOFTOP ENCLOSURES – SAFETY** 



#### **Stealth Concealment Solutions**

3034-A Ashley Phosphate Road North Charleston, SC 29418 Cindy Wishart cindywishart@stealthsite.com 800.755.0689 stealthconcealment.com

"Got something to hide?" Stealth Concealment Solutions asks. "Camouflage your antennas and improve the environmental landscape. Trust the experts who were here first." Stealth Concealment Solutions says it has been the leader and master of quality antenna concealment solutions for the wireless industry since 1992.

#### See ad on page 29

#### Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com



#### **Wanho Manufacturing**

137 Mattatuck Heights Waterbury, CT 06705 Sales sales@wanho.com 203.759.3744 wanho.com

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### SAFETY

#### **Antenna ID Products**

22 Bryan Wynd Glenmoore, PA 19343 Tom Mover antennaid@msn.com 610.458.8418 antennaid.com



#### **Connect-It Wireless**

210 Commerce Way, Suite C Jupiter, FL 33458 Alisa Whitacre sales@connectitwireless.net 866.781.1300 connectitwireless.net

#### **Deus Rescue**

3012 Sterling Circle, Suite 100 Boulder, CO 80301 Jeff Wild Info@deusrescue.com 866-405-3461 deusrescue.com

#### FrenchCreek Production

100 N. 13th St. Franklin, PA 16323 Jeff Greksa marketing@ frenchcreekproduction.com 814.437.1808 frenchcreekproduction.com



#### **GME Supply**

1801 Westfall Drive Columbia, MO 65202 Jim Zepp info@gmesupply.com 718.210.3913 gmesupply.com

GME Supply says it is America's premier outfitter of equipment and supplies. It says its mission is to keep workers safe and productive while on the job. The company asks customers to "climb higher with GME Supply, your trusted resource for expert advice and superior service."

#### See ad on inside back cover

#### **LBA University**

3420 Tupper Drive Greenville, NC 27834 Bryan Dixon lbau@lbagroup.com 252.757.0279 lbauniversity.org







#### **National Association** of Tower Erectors

8 Second St. S.E. Watertown, SD 57201 **Todd Schlekeway** nate@natehome.com 605.882.5865 natehome.com

The National Association of Tower Erectors (NATE) is a nonprofit trade association in the wireless infrastructure industry providing a unified voice for tower erection, service and maintenance companies. The association has more than 600 member companies throughout the United States, Bahamas, Canada, Ghana, India, Jamaica, Romania, Saudi Arabia, South Africa, Trinidad and Tobago and the United Arab Emirates.

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#### **Tuf-Tug Products**

3434 Encrete Lane Moraine, OH 45439 Joey Deuer tuftug@aol.com 937.299.1213 tuf-tug.com

Tuf-Tug offers cable and fixed rail safe climb systems, step bolt anchor/tie-off brackets, fall arrest PPE/wire and rope grabs, life lines, harnesses and lanyards, antenna pipe rooster heads, material handling carabineers, steel and aluminum blocks and cable and webstrap pullers.



#### **UniTech Services Group**

295 Parker St. Springfield, MA 01151 Stephen Hofstatter shofstatter@unitechus.com 413.304.2100 unitech-rf.com

Unitech, which says it is a 50-year pioneer in radiation protection, wants customers to choose it for their RF protection compliance. UniTech's RF garment system uses patented, proven Naptex and can be purchased or rented. Its rugged, FCC-compliant signs are offered in many materials and may be customized at no additional charge.

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#### Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, IN.; and Salem, OR. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.



#### **Waterford Consultants**

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Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

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#### **Western Iowa Tech Corporate College**

4647 Stone Ave. Sioux City, IA 51106 Bill Koontz bill.koontz@witcc.edu 712.274.8733 corporatecollege.biz

Western Iowa Tech Corporate College offers what it calls unsurpassed customized training, combining classroom instruction reinforced with actual hands-on techniques. Training is available on-site at its campus or in its state-of-theart mobile classroom.

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6005 Commerce Drive, Suite 330 Irving, TX 75063 Martha Bartley info@abloyusa.com 800.367.4598 abloyusa.com

#### **CyberLock**

1105 N.E. Circle Blvd. Corvallis, OR 97330 Stephanie Ulrich sales@cyberlock.com 541.738.5500 cyberlock.com/lock113

#### **LBA University**

3420 Tupper Drive Greenville, NC 27834 Bryan Dixon lbau@lbagroup.com 252.757.0279 lbauniversity.org

#### **RAD Data Communications**

900 Corporate Drive Mahwah, NJ 07430 Chris Fleming market@radusa.com 201.529.1100 radusa.com

#### **Smarter Security**

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**INDUSTRY INTERVIEW** 





# Trust in Partnerships

How Subcarrier Communications' trust in its partners helps the tower building and maintenance firm hit all the high points.

Just hearing the tone of his voice in his first few words over the telephone, you sense that John Paleski's story will be a successful one. Paleski, owner and president Subcarrier Communications, a company that owns more than 300 towers, speaks in a clear, positive pitch. It sounds like a voice you can trust. Subcarrier also manages sites and develops telecommunications infrastructure. The company headquarters is in Old Bridge, N.J.

When Paleski speaks about the wireless tower industry he makes the secret to success seem as simple as the Golden Rule: Treat your customers and partners well, and you'll be well-treated in return.

"I have to say I am thoroughly satisfied with all of my suppliers," said Paleski. "There isn't one supplier that I found needed to be replaced. I think the suppliers in this industry are generally top-notch. Even the suppliers that we don't deal with are almost as good or just as good as the ones we do deal with. The ones we deal with have a relationship with us. I happen to know that there are products out there that we don't use that are every bit as good as the products we do use."

When the company's wireless infrastructure development projects are in its northeastern service area —including New York, New Jersey, Connecticut, Pennsylvania and Virginia—Subcarrier performs as its own general contractor, choosing supplier partners. When working on projects in a faraway state, Subcarrier hires a local general contractor. The company also leases antenna space to wireless service providers towers it owns or manages. It engages in third-party marketing and offers management services for leasing antenna space on rooftops and other suitable structures throughout the United States.

Subcarrier owns 315 towers. During his 29-year career, Paleski estimates he has built more than 800 towers. He said his firm can build a monopole from beginning to end in 30 days, but the bigger self-supporting towers take a few months. "Towers take a lot of different contractors, and the monopoles do as well," he said. "You need more lead time and more specialty-type contractors for bigger sites."

Unlike many companies of its size, Subcarrier doesn't employ a dedicated purchasing manager





Paleski selects most of the partners himself, or he delegates the task to one of his administrative assistants. Sometimes he relinquishes project control to one of his two vice presidents, C.J. Manolescu and Kerri Sullivan. However, in a fashion similar to many contractors its size, Subcarrier uses a software program to help keep tabs on project spending, products, partners and prices.

"We've been dealing with the same suppliers for a long time, and we've only added new ones when a supplier went out of business," Paleski said. "That makes my life so much easier because once you start having issues with your supply chain it bogs down the whole process. But we haven't experienced that; in fact, the only problems we've had are in planning and zoning. There are wonderful suppliers in this industry—very proactive—whether we're dealing with an OEM or with a product distributor, they always get our orders right."

Paleski attributes much of Subcarrier's success to its financial policy: "We pay for all of our supplies right away; we don't run any net on our suppliers at all," he said. "Some organizations are net 30 or net 60 (in which a client has either 30 or 60 days to pay the bill), but we don't do that. It certainly helps that, financially, we're prequalified everywhere because our credit is excellent. We just need to pick up the phone to place orders. That's the way I like it. It especially benefits me, because we don't have a list of payables that we have to worry about. And it benefits the supplier because they get paid right away."

When asked what attribute of a supplier partners is most important, Paleski didn't hesitate: "Quality is the most important thing for me," he said. "When we build a tower, we build the biggest, heaviest-duty tower we possibly can in each location. We do that for two reasons. One: We don't want to keep going back, making modifications to the original structure. And two: We're going to build a heavy-duty structure to survive any storm thrown at it. And because we pay extra for higher-quality, heavier-duty steel, we don't have to worry about

overloading on our structures. So the quality of the tower that we build is the most important thing. That's the way we've always conducted our business here."

"Our business requires that we work in faraway locations. So, if we have projects out in California or Hawaii, we trust the contractors we hire are doing a good job for us. In the same vein, they have to trust us to get paid. So it helps to have long-standing relationships with all the different contractors and suppliers because they trust you.

Subcarrier has 40 employees right now, but the real strength of our organization is in our contractors and in our third-party independent contractors. We have many of them—probably hundreds of independent third-party contractors that transact business for us in states around the country."

#### About the author:

Mike Harrington is a freelance writer in Prairie Village, KS.



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INDUSTRY INTERVIEW





## **SITE ACQUISITION**



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#### **Advantage Engineers**

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#### See ad on page 73

#### **Ameen Communications**

2 Enfield Circle Princeton Junction, NJ 08550 Damian Ameen dameen5086@aol.com 609.716.7699 ameencommunicationscompany. com

#### **Atlantic Site Development**

229 Fenimore Lane Delanco, NJ 08075 Matt Bartlett mbartlett@atlanticsite.net 856.735.0443

#### **AW Solutions**

300 Crown Oak Centre Drive Longwood, FL 32750 Keith Hayter keith.hayter@awsolutionsinc.com 407.260.0231 awsolutionsinc.com

#### **Black Dot**

27271 Las Ramblas Mission Viejo, CA 92691 Phil Ackerman packerman@blackdotwireless.com 949.502.3819 blackdotwireless.com

#### **Branch Communications**

1516 S. Boston, Suite 215 Tulsa, OK 74119 Johnie Johnson jj@branchcomm.net 918.404.9289 branchcomm.net



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#### **CW Solutions**

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#### **KJK Wireless**

127 Ridge Road Nashua, NH 03062 Ken Kozyra ken@kjkwireless.com 603.888.8974 kjkwireless.com

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NB+C (Network Building & Consulting) says customers can count on it for wireless infrastructure

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#### See ad on page 123

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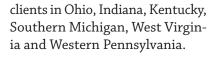
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#### **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com

#### **Rinkers Communications**

103 South Main St. Barre, VT 05641 Karl A. Rinker lazykarl@aol.com 802.479.0121 rinkers.com

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#### See ad on page 5

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3659 Green Road, Suite 214 Cleveland, OH 44122 Courtney Schmidt c.schmidt@sure-site.com 216.593.0400 sure-site.com

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Tectonic provides a full spectrum of site acquisition, A/E professional services and program management. Tectonics' staff of 500 is located throughout offices nationally, providing site acquisition, permitting, zoning, due diligence, NEPA/SHPO, Phase I, civil, structural and geotechnical engineering and tower analysis.

#### See ad on page 61



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pwrablica@me.com 913.449.4774

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#### **Industrial Communications**

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MUTI-Sabre Industries Telecom Services provides a variety of services to the telecommunications industry including tower construction, modifications, maintenance, inspections, microwave design and deployment, equipment integration, generators and HVAC maintenance.

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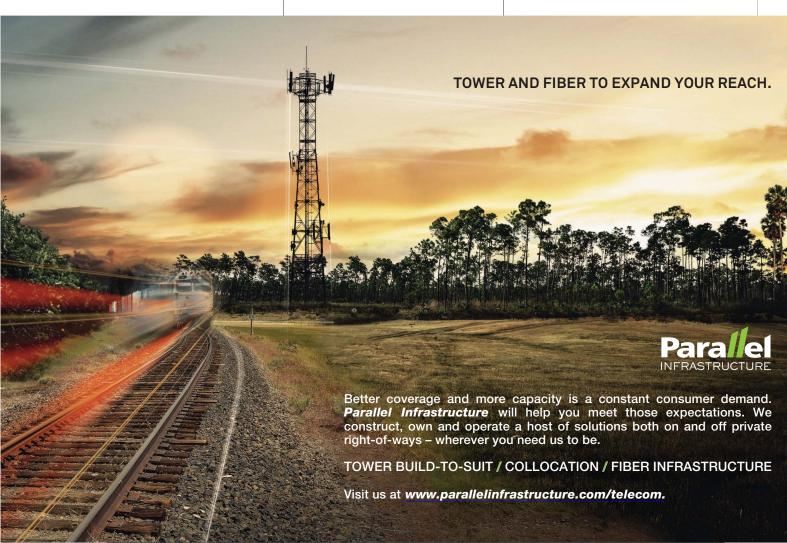
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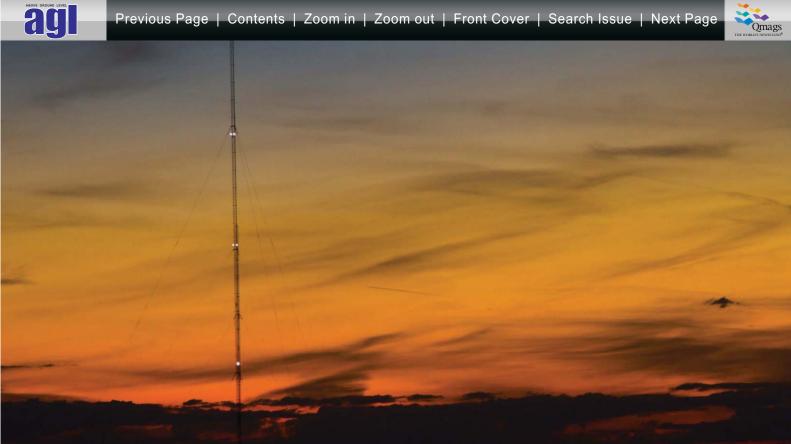
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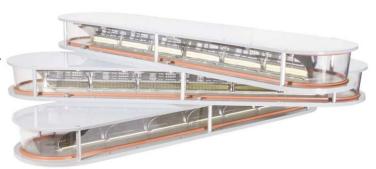
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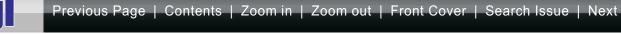
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melissa.goodwin@induscom.com
781.319.1012
industrialcommunications.com

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P.O. Box 6556
Gainesville, GA 30504
Jay Panozzo
jay@midsouthtowers.com
815.693.1565
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As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

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# Our success has really been based on partnerships from the very beginning. -Bill Gates

#### Site ID

103 Carnegie Center, Suite 300 Princeton, NJ 08540 Michael Shine mshine@siteidinc.com 973.454.0302 siteidinc.com



8500 W. 110th St., Suite 300 Overland Park, KS 66210 David Blaha info@ssc.us.com 913.438.7700 ssc.us.com

SSC provides services to the telecommunications, development and construction industries. The company says its full range of inhouse services and abilities makes it uniquely capable of handling all aspects of the most challenging projects. SSC says it strives hard to serve its clients, solve their problems and communicate effectively.

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38659 Bolington Road Lovettsville, VA 20180 David Ward info@towermaps.com 540.822.5092 towermaps.com

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**Utility Service Communications** specializes in site marketing and management for wireless facilities on water tank sites. The company provides tech services including tank mapping, structural analysis, and architectural and engineering drawings.

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750 N. Commons Drive Aurora, IL 60504 Sales contactsales@westell.com 800.377.8766 westell.com

#### White Buffalo Environmental

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#### See ad on page 161



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270 North Ave., Suite 809 New Rochelle, NY 10801 John Arthur arthur@wirelessedge.org 914.712.0000 wirelessedge.org

Wireless Edge is a provider of network implementation services and strategic tower sites. Nationwide services include tower development, site management, development of cell sites and satellite terrestrial repeaters and special projects. The company specializes in development and permitting of antenna sites on landmark and historic properties.

See ad on page 49

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#### Alpha Technologies

7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada sales@alpha.ca 800.667.8743 alpha.ca

#### See ad on page 39

#### **Synergy Concepts**

105 Ford Lane Hazelwood, MO 63042 Ben White benwhite@ synergyconceptsinc.com 314.895.2800 synergyconceptsinc.com

Synergy Concepts works with businesses and communities to develop renewable energy systems that produce affordable and efficient renewable energy as the world moves toward a greener way of living.

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Alltec is an international, full-service company specializing in engineered grounding/earthing and bonding, surge/transient protection and lightning protection systems. It provides risk-mitigation strategy and engineered solutions for today's infrastructure challenges.

See ad on page 43

Huber+Suhner

19 Thompson Drive Essex Junction, VT 05452 Dick Schmidt info@hubersuhner.com 630.816.4021 hubersuhner.com

See ad on page 134



2 Park Drive, Building #1

Westford, MA 01886 Mike Kauffman sales@nexteklightning.com 978.486.0582 nexteklightning.com

NexTek designs and manufactures coaxial surge arrestors with performance from DC to 18 GHz and with transient ratings to 200 kA. The high-quality protectors feature a 10-year warranty and competitive pricing, and they are made in the United States. NexTek says, "Protect your investment by using NexTek arrestors."



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#### See ad on page 34

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806 S. Clearwater Loop Post Falls, ID 83854 Lisa Duckett marketing@raycap.com 208.777.1166 raycapsurgeprotection.com

Raycap says it is a world leader in lightning protection and cable management solutions for fiber-to-the-antenna (FTTA) networks. Its products connect and protect tens of thousands of 3G and 4G sites in the latest networks

being built by the world's largest operators.

#### See ad on page 69

#### **Remote Monitoring Services**

7732 County Road 150 Salida, CO 81201 Art Stone hillary@stonetechnology.com 719.539.1222 stonetechnology.com



#### **Spinner ICT**

5126 South Royal Atlanta Drive Tucker, GA 30084 Michael Horan info-atlanta@spinner-group.com 770.263.6326 spinner-group.com/us

Spinner ICT says it is the leader in low-PIM performance for jumper cables, coaxial connectors and passive components. The company says it provides the highest-quality German-engineered design to meet and exceed industry requirements.

#### See ads on pages 77 and 85



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#### **Axell Wireless**

15950 N. Dallas Parkway, Suite 400 Dallas, TX 75248 Matthew Thompson info@axellwireless.com 972.361.8038 axellwireless.com

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#### See ad on page 129

#### V-Comm

2540 U.S. Highway 130, Suite 101 Cranbury, NJ 08512 Dominic Villecco dominic.villecco@ vcomm-eng.com 609.655.1200 vcomm-eng.com

#### **Vision Technologies**

530 G McCormick Drive Glen Burnie, MD 20161 Al Saxon asaxon@visiontech.biz 410.424.2183 visiontech.biz

#### **Waterford Consultants**

P.O. Box 2090
Ashburn, VA 20146-2090
Thomas Ferguson
sales@
waterfordconsultants.com
703.910.5054
waterfordconsultants.com

#### See ad on page 42

# SYSTEM INTEGRATORS

#### AFL

170 Ridgeview Center Drive Duncan, SC 29334 Dennis Beck sales@aflglobal.com 678.576.7641 aflglobal.com

#### BlueStream Professional Services

3305 Highway 60 West Faribault, MN 55021 Sales contactkgp@kgptel.com 800.755.1950 bluestreampro.com

#### **Copper Mountain Technologies**

3905 Vincennes Road Indianapolis, IN 46268 Sasha Fainberg info@coppermountaintech.com 317.222.5400 coppermountaintech.com

#### **Dali Wireless**

535 Middlefield Road, Suite 280 Menlo Park, CA 94025 Laura Hayes lhayes@daliwireless.com 604.420.7760 daliwireless.com

#### MUTI-Sabre Industries Telecom Services

2626 Midwest Court Champaign, IL 61822 Scott Kisting skisting@mutionline.com 217.819.3040 mutionline.com

MUTI-Sabre Industries Telecom Services provides a variety of services to the telecommunications industry including tower construction, modifications, maintenance,









inspections, microwave design and deployment, equipment integration, generators and HVAC maintenance.

#### Squan

329 Harold Ave. Englewood, NJ 07631 Douglas Fishman info@squan.com 201.408.5111 squan.com

#### **UniTek Global Services**

1777 Sentry Parkway West Blue Bell, PA 19422 Mike Treger mtreger@pinnaclewireless.com 201.249.8528 unitekglobalservices.com

## **TESTING & MEASUREMENT**



#### **AEA Technology**

5933 Sea Lion Place, Suite 112 Carlsbad, CA 92010 Sales sales@aeatechnology.com 800.258.7805 aeatechnology.com

VIA Echo 2500 vector network analyzer, spectrum analyzer and FDR in one lightweight, compact package includes PC software. The E20/20 step TDR accurately documents coax or twisted-pair cable quality and impedance. Contact the company for details, competitive pricing and local representatives.

#### **AFL**

170 Ridgeview Center Drive Duncan, SC 29334 Dennis Beck sales@aflglobal.com 678.576.7641 aflglobal.com

#### **Agilent Technologies**

5301 Stevens Creek Blvd. Santa Clara, CA 95051

Janet G Smith janet\_smith@agilent.com 970.679.5397 agilent.com

#### Alliance

2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com



At Hughey & Phillips, we're setting the standard for quality and reliability. From product design and performance testing to component selection and manufacturing, we punctuate our commitment to providing products you can count on. And because our products are made in the USA, we stand behind them with an industryleading 5-Year Standard Warranty. Learn more by calling 877.285.4466 or visit hugheyandphillips.com.



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#### **Anritsu**

1155 E. Collins Blvd., Suite 100 Richardson, TX 75081 Technical Support marcom@anritsu.com 800.ANRITSU anritsu.com

Anritsu, a global provider of innovative test and measurement solutions, provides solutions for existing and next-generation wired and wireless communication systems and operators. Products include wireless, optical, microwave/RF and digital instruments, together with operations support systems for R&D, manufacturing, installation and maintenance.

#### See ad on page 1

#### **Bird Technologies**

30303 Aurora Road Solon, OH 44139 Tom Boyle sales@birdrf.com 440.519.2172 birdrf.com

#### See ad on page 161

#### **Copper Mountain Technologies**

3905 Vincennes Road Indianapolis, IN 46268 Sasha Fainberg info@coppermountaintech.com 317.222.5400 coppermountaintech.com

#### **Electro Rent**

6060 Sepulveda Blvd. Van Nuys, CA 91411 Electro Rent sales@electrorent.com 800.553.2255 electrorent.com

#### **Galtronics**

1131 W. Warner Road Tempe, AZ 85284 Robert Booth sales@galtronics.com 866.206.9482 galtronics.com

#### **GPS Networking**

373 E. Industrial Blvd.
Pueblo West, CO 81007
Steve Vasquez
salestech@gpsnetworking.com
719.595.9880
gpsnetworking.com

#### **Isotrope**

503 Main St. Medfield, MA 02052 Steve Riggs contact@isotrope.im 508.359.8833 isotrope.im

Isotrope offers what it calls total support in design, specification, evaluation and construction of wireless facilities. Services provided include RF design, project management, coverage mapping, drive testing, zoning compliance, RF interference remediation and RF safety compliance.

#### **JDS Uniphase**

430 N. McCarthy Blvd.
Milpitas, CA 95035
Michael Tschirret
jdsu.quickpurchase@jdsu.com
919.388.5069
jdsu.com/en-us/test-and-

measurement/products/wireless/pages/default.aspx

#### LBA Group

3400 Tupper Drive Greenville, NC 27834 Jerry Brown lbagrp@lbagroup.com 252.757.0279 lbagroup.com

#### **Matco Services**

100 Business Center Drive Pittsburgh, PA 15205 Dan Witt dan.witt@matcoinc.com 402.359.6753 matcoinc.com



#### **Pctel**

20410 Observation Drive, Suite 200 Germantown, MD 20876 Chintan Fafadia chintan.fafadia@pctel.com 301.444.2047 pctel.com

#### **Positron**

5101 Buchan St., Suite 220 Montreal, QC H4P 2R9 Canada Salvatore Carbonaro scohen@positron.ca 514.345.2214 positronpower.com

Shared visions and principles support long term partnerships so take the time to understand the motivations and values of your potential suppliers.

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#### **SAF Tehnika JSC**

10500 E. 54th Ave., Unit D Denver, CO 80239 Daniel White salesna@saftehnika.com 720.502.0724 saftehnika.com/en/ spectrumanalyzer

SAF's spectrum compact is a handheld analyzer for the 6-GHz to 40-GHz spectrum. It has a multimeter's form factor and comes at what SAF says is only a fraction of a portable spectrum analyzer's price. The LCD touchscreen ensures intuitive use, and onboard memory allows saving the data on a PC.

#### SPAA05.com

Kleiweg 24 Waalwijk, FL 5145NB Hans Le Sage hans@spaa05.com 003.141.6565005 spaa05.com

# spectracom

#### Spectracom

1565 Jefferson Road, Suite 460 Rochester, NY 14559 Wade Sober wade.sober@ spectracom.orolia.com 585.321.5810 spectracomcorp.com

The Path Align-R is a high-performance test solution designed for fast, accurate microwave path alignment. The manufacturer says the unit is endorsed by leading wireless commu-

nications suppliers, and it provides precise alignment results in about 20 minutes. No power or radios are required on-site. The Path Align-R provides proof of alignment with recorded and documented records.

See ad on page 103



#### **Spinner ICT**

5126 South Royal Atlanta Drive Tucker, GA 30084 Michael Horan info-atlanta@spinner-group.com 770.263.6326





SOLiD enables wireless communications for some of the world's best-known customers through innovative DAS and carrier-grade Optical Network backhaul solutions.

To learn more, visit our site or scan the code to download a case study.

SOLID solid.com







#### spinner-group.com/us

Spinner ICT says it is the leader in low-PIM performance for jumper cables, coaxial connectors and passive components. The company says it provides the highest-quality German-engineered design to meet and exceed industry requirements.

#### See ads on pages 77 and 85



#### **Sunsight Instruments**

125 Candace Drive Maitland, FL 32751 Marla Riggs sales@sunsight.com 321.244.9443 sunsight.com

Sunsight says it is the industry leader in the development and manufacturing of antenna alignment sensors, monitoring systems and tools. Their products will help you build your network and keep your signal strong. Contractors and carriers will benefit from eliminating re-trips and site level closeouts.

#### See ad on page 74

#### **Talley**

TESTING & MEASUREMENT — TOOLS & SUPPLIES

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@talleycom.com 562.906.8023 talleycom.com

#### **Telewave**

660 Giguere Court San Jose, CA 95133 sales@telewave.com 800.331.3396

#### telewave.com

#### See ad on page 27

#### TRM

7468 Candlewood Road Hanover, MD 21076 Tom Napoli tnapoli@trmcom.com 240.205.1588 trmcom.com

#### **Valmont Structures**

1545 Pidco Drive Plymouth, IN 46563 Sean Gallagher sean.gallagher@valmont.com 503.589.6616 valmontstructures.com

#### See ad on page 135



#### **Waterford Consultants**

P.O. Box 2090 Ashburn, VA 20146-2090 Thomas Ferguson sales@waterfordconsultants.com 703.910.5054 waterfordconsultants.com

Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford says it has a national team of highly respected and reputable experts who are committed to providing superior, timely and budget-sensitive customer service. Waterford says it understands regulatory requirements and can alleviate the burden of FCC compliance for its customers.

#### See ad on page 42

#### **Penn-Tech International**

3 S. Bacton Hill Road, Unit 2 Frazer, PA 19355 Thomas Hedberg pti@ptii.net 484.395.0145 ptii.net

### TOOLS & **SUPPLIES**

#### **Black Box Network Services**

1000 Park Drive Lawrence, PA 15055-1018 Carly Burton carly.burton@blackbox.com 724.746.5500 blackbox.com

#### **Connect-It Wireless**

210 Commerce Way, Suite C Jupiter, FL 33458 Alisa Whitacre sales@connectitwireless.net 866.781.1300 connectitwireless.net

#### **Deus Rescue**

3012 Sterling Circle, Suite 100 Boulder, CO 80301 Jeff Wild Info@deusrescue.com 866-405-3461 deusrescue.com



#### FieldSense USA

P.O. Box 30014 Columbia, MO 65205 Max Birch info@fieldsenseusa.com 312.260.6055 fieldsense.com







FieldSense says its personal RF monitor is a cost-effective solution for mobile network operators and professionals searching for a way to ensure safety for all personnel working in the vicinity of base station antennas. The unit is compact and has a durable design intended for everyday use.

#### See ad on page 7



#### **GME Supply**

1801 Westfall Drive Columbia, MO 65202 Jim Zepp info@gmesupply.com 718.210.3913 gmesupply.com

GME Supply says it is America's premier outfitter of equipment and supplies. It says its mission is to keep workers safe and productive while on the job. The company asks customers to "climb higher with GME Supply, your trusted resource for expert advice and superior service."

#### See ad on inside back cover



#### **H&H Industries**

110 W. Main St. Elmwood, IL 61529 Rick Howerton sales@lightsbyhh.com 800.637.3853 lightsbyhh.com

H&H Industries is supplies incandescent code beacon and obstruction lamps. The company's Task-Master lamps are independently tested to meet or exceed all FAA regulations. The company offers products for tower, shop and office lighting applications. H&H is a member of the National Association of Tower Erectors.

#### See ad on page 161

#### **KGP Logistics**

3305 Highway 60 West Faribault, MN 55021 Chanel Cottengim contactkgp@kgptel.com 800.755.1950 kgplogistics.com

#### Landmark Dividend

2141 Rosecrans Ave., Suite 2100 El Segundo, CA 90245-4747



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TOOLS & SUPPLIES



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Stephanie Simmons info@landmarkdividend.com 800.843.2024 landmarkdividend.com

#### See ad on page 111



#### **My-te Products**

9880 E. 30th St. Indianapolis, IN 46229 Sales Department sales@myte.com 800.840.9880 myte.com

#### See ad on page 147

#### **SAF Tehnika JSC**

10500 E. 54th Ave., Unit D Denver, CO 80239 Daniel White salesna@saftehnika.com 720.502.0724 saftehnika.com/en/ spectrumanalyzer



#### **Sunsight Instruments**

125 Candace Drive Maitland, FL 32751 Marla Riggs sales@sunsight.com 321.244.9443 sunsight.com

Sunsight says it is the industry leader in the development and manufacturing of antenna alignment sensors, monitoring

systems and tools. Their products will help you build your network and keep your signal strong. Contractors and carriers will benefit from eliminating re-trips and site level closeouts.

#### See ad on page 74

#### **UniTech Services Group**

295 Parker St.
Springfield, MA 01151
Stephen Hofstatter
shofstatter@unitechus.com
413.304.2100
unitech-rf.com

#### See ad on page 131



A **valmont ₹** COMPANY

#### Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, Ind.; and Salem, Ore. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.

# TOWER ERECTORS

#### Allstate Tower

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

#### See ad on page 161



#### **Bell Tower**

6037 S. Industrial Road Chelsea, OK 74016 Richard Bell rose-btc@sbcglobal.net 918.789.9020 belltowercorp.com

For 22 years, Bell Tower has been designing, manufacturing and installing towers throughout the United States from 100-foot self-supporters to 2,000-foot broadcast towers. The company's experienced staff offers customers what Bell Tower says is finest safety record in the industry and fair pricing on challenging projects.

#### **Branch Communications**

1516 S. Boston, Suite 215 Tulsa, OK 74119 Johnie Johnson jj@branchcomm.net 918.404.9289 branchcomm.net

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TOOLS & SUPPLIES – TOWER ERECTORS



**TOWER ERECTORS** 

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#### **Campbellsville Industries**

P.O. Box 278
Campbellsville, KY 42718
David England
steeple@cvilleindustries.com
270.465.8135
cvilleindustries.com

Campbellsville Industries, whose nickname is "the Steeple People," says it is the oldest and largest steeple/cupola company in the United States with more than 18,000 installations throughout the world. The company uses traditional architectural styling and historic reproduction to

conceal antennas inside the steeple/cupola.

See ad on page 151



#### CommStructures

101 E. Roberts Road Pensacola, FL 32534 Jim Hobbs jhobbs@commstructures.com 850.968.9293 commstructures.com



#### **Day Wireless Systems**

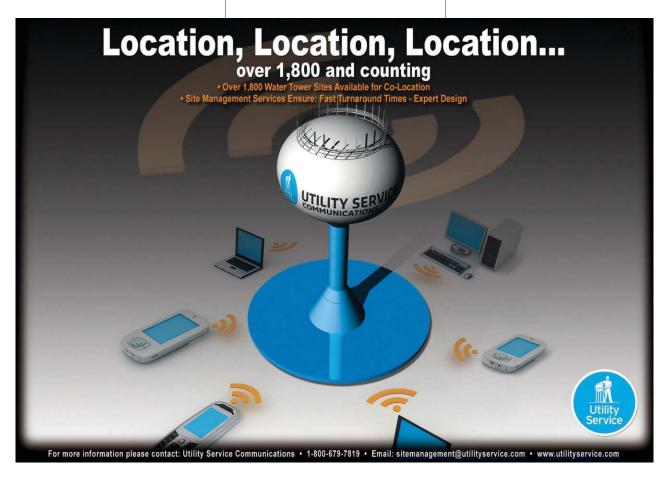
4700 S.E. International Way Milwaukie, OR 97222

Dean Ballew dwssites@daywireless.com 503.659.1240 daywireless.com

Founded in 1969, Day Wireless Systems has 26 offices and 190 towers in the seven western states. The company specializes in collocation, site management, tower construction, system design, sales and service. Day Wireless says it is the largest full-service wireless integrator on the West Coast.

#### **Electronics Research**

7777 Gardner Road Chandler, IN 47610 David White sales@eriinc.com 812.925.6000 eriinc.com

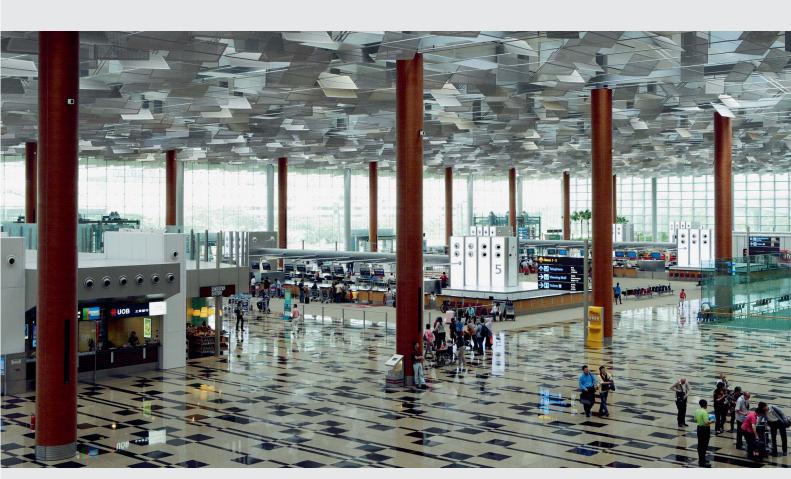


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# Coaxial connectors 4.3-10

#### **Features**

- Three different installation plug type options (hand wrench, hand screw and push-pull)
- Excellent electrical performance
  - Low stable PIM
  - Low RF leakage
  - Very good RL/IL performance
- Compactness: Connector fitting in 1 inch flange (25.4 mm)
- Lightweight: Up to 60 % lighter compared to bigger RF interfaces

#### Benefits

- High density design
- Lightweight modules
- Flexibility and fast installation
- Reliable electrical performance
- DAS indoor and outdoor applications





HUBER+SUHNER Inc., 19 Thompson Drive, Essex Junction, VT 05452. Phone: 800 493 975

hubersuhner.com





#### **FDH**

6521 Meridien Drive Raleigh, NC 27616 Dan Sammartano dsammartano@fdh-inc.com 919.755.1012 fdh-inc.com



#### J.W. Project Management

1206 5th St., Bay 4 Nisku, AB T9E8B6 Canada Jim Wannamaker wmaker@telus.net 780.955.2122 jwpm.ca

J.W. Project Management says it endeavors to establish lasting relationships with customers by exceeding their expectations and gaining their trust through exceptional performance by every member of its construction and management team.



#### **Parallel Infrastructure**

4601 Touchton Road East. Building 300, Suite 3200 Jacksonville, FL 32246 Edward Lee eddv@parallelinfrastructure.com 904.565.4115 parallelinfrastructure.com

Parallel Infrastructure says it is the leader in right of way management and infrastructure development, focusing on maximizing the value of underutilized land assets for third-party clients. The firm's capabilities include telecommunications

infrastructure development.

#### See ad on page 117



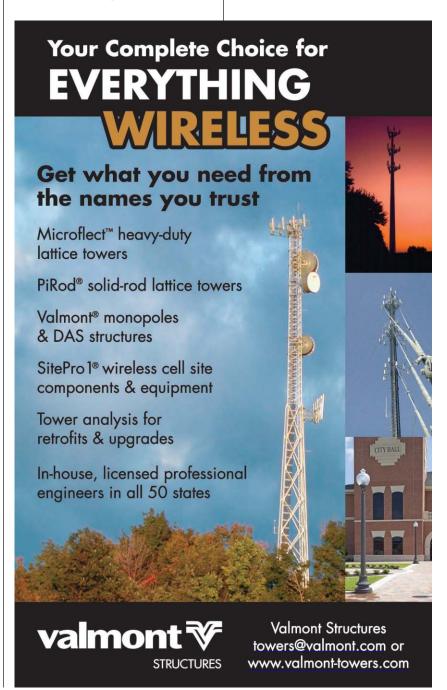
#### Penn-Tech International

3 S. Bacton Hill Road, Unit 2 Frazer, PA 19355 Thomas Hedberg

pti@ptii.net 484.395.0145 ptii.net

#### **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com



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**TOWER ERECTORS** 



...... / SUPPLIERS / .......







#### **SBA Communications**

5900 Broken Sound Parkway N.W. Boca Raton, FL 33487 Lynne Hopkins request@sbasite.com 800.487.SITE sbasite.com

As a service provider of wireless infrastructure solutions, SBA says it sets the standard for customer satisfaction by building better wireless. It says its clients depend on it to provide their wireless infrastructure needs at all stages. SBA focuses on tower ownership, leasing, site management, site development, construction and technical services.

#### See ad on back cover



#### **Shenandoah Tower Service**

P.O. Box 956 Staunton, VA 24402-0956 Dave Anthony davea@shensvc.com 540.569.6890 shenandoahtower.com

Shenandoah Tower Service. formed in 1983, says it is dedicated to setting the standard in the wireless communications industry by providing exceptional construction, maintenance and management services.

#### **Stainless**

100 W. Main St., Suite 400 Lansdale, PA 19446 Ed Deetscreek ed.deetscreek@stainlessllc.com 215.631.1323 stainlessllc.com

#### **Tower Systems**

17226 447th Ave. Watertown, SD 57201 Chuck Erickson chucke@towersystems.com 605.886.0930 towersystems.com



#### **Unites States Tower Services**

5263 Agro Drive Frederick, MD 21703 Quentin Ellis jim.martin@ustowerservices.com 301.874.5885 ustowerservices.com



#### **WesTower Communications**

2460 Sand Lake Road Orlando, FL 32804 Angelique Stephens ccarlisle@westower.com 818.309.5163 westower.com

### **TOWER LIGHTS**

#### **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

See ad on page 161

# Dialight

#### Dialight

1501 State Route 34 Farmingdale, NJ 07727-3932 info@dialight.com 732. 919.3119 dialight.com

Dialight offers the Vigilant line of obstruction LED lighting, controls and monitoring systems. With FAA certification for all tower and obstruction types and heights, Dialight says the new Vigilant obstruction line provides worry-free operation, lower power consumption, smaller size, less wind load and lighter weight.

#### See ad on page 118

#### **EMF Telecom**

328 Hill Ave. Nashville, TN 37210 info@emftelecom.com 615.291.6279 emftelecom.com

# FARLIGHT

#### **Precision LED Lighting**

#### **Farlight**

846 Watson Ave. Wilmington, CA 90744 Robert Wolfenden info@farlight.com 800.741.1545 farlight.com

Farlight has designed and manufactured compact and efficient LED obstruction lights and controllers in California. The company's LED obstruction lights combine the cost-saving benefits of LEDs with advanced technology to ensure reliable operation in









all environments. All Farlight obstruction lights are backed by a five-year warranty.

#### See ad on page 107

#### **First Light Resources**

189 Rivergate Drive Franklin, TN 37064 Richard Hickey rh@firstlightresources.com 615.856.5526 firstlightresources.com

### >Flash Technology

#### Flash Technology

332 Nichol Mill Lane Franklin, TN 37067 **Technical Sales** gayle.mason@spx.com 615.503.2025 flashtechnology.com

Flash says it is the world leader in FAA-approved aviation obstruction lighting, designed for easy install, low power consumption and reduced maintenance with the latest in LED technology. Flash also offers component-level training and a 24/7/365 national operations center. Its solutions enable customers to obtain QLI waivers. Flash Technology's slogan is: "Simply the Best!"

#### See ad on page 92



#### **H&H Industries**

110 W. Main St. Elmwood, IL 61529 Rick Howerton sales@lightsbyhh.com 800.637.3853 lightsbyhh.com

H&H Industries is supplies incandescent code beacon and obstruction lamps. The company's Task-Master lamps are independently tested to meet or exceed all FAA regulations. The company offers products for tower, shop and office lighting applications. H&H is a member of the National Association of Tower Erectors.

#### See ad on page 161



**Hughey & Phillips** 240 W. Twain Ave. Urbana, OH 43078 Jim Sullivan jsullivan@hugheyandphillips.com



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Hughey & Phillips says it is a global leader in the design and manufacturing of low-, mediumand high-intensity obstruction lighting technology. H&P offers obstruction lighting in LED, strobe and incandescent technologies. H&P manufactures all of its products in the United States.

#### See ad on page 127

#### **International Tower Lighting**

P.O. Box 41875 Nashville, TN 37204 Jack Burden jburden@itl-llc.com 615.256.6030 itl-llc.com

#### Skytec

23 Inland Farm Road Windham, ME 04062 Richard Sullivan skytecinc@hotmail.com 207.893.1700 skytecInc.com

# Slatercom-WCD

#### Slatercom-WCD

7905 State St. Salem, OR 97317 Al Slater info@slatercom.com 503.581.5550 slatercom.com

Slatercom-WCD is a master integrating Dialight tower lighting distributor. Extensive stocks of the new D464 red beacon and D1RW-008 dual red/white beacon as well as RTO and the 860 series of marker lights are available from stock in either individual purchases or complete kits.

See ad on page 155

# If you do not seek out allies and helpers, then you will be isolated and weak. -Sun Tzu



#### **Specialty Tower Lighting**

1630 Elmview Drive Houston, TX 77080 Meredith Steves sales@specialtytowerlighting.com 713.722.8123 specialtytowerlighting.com

Specialty Tower Lighting offers a diverse line of ETL-certified and FAA-approved aviation obstruction lighting products, in stock, competitively priced and ready to ship. STL has more than 25 years of experience in design, manufacturing and installation of obstruction lighting products.

#### See ad on page 149

#### **TowerMRL**

2851 Capitol Drive Sun Prairie, WI 53590 Chris Mallon cmallon@towermrl.com 608.244.1855 towermrl.com

# TWR Lighting, Inc.

#### **TWR Lighting**

4300 Windfern Road Houston, TX 77041-8943 Jeremy Lochner jlochner@twrlighting.com 713.973.6905 twrlighting.com

TWR says it is "your one-source solution for LED lighting and wireless monitoring." With more than 100,000 systems installed worldwide, TWR says its field-proven, proprietary technology provides the lowest power consumption and community-friendly narrow beam optics, and it allows for a single controller and cable installation even with multiple flash heads. TWR says it has the most comprehensive five-year complete system warranty, and that it hadthe first FCC/FAA avian-compliant lighting system. Paired with its wireless monitoring systems, TWR's systems allow for yearly light inspections, which saves customers thousands of dollars over the system life.

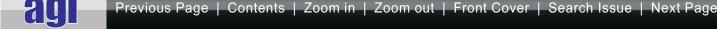
#### See ad on page 125



#### Unimar

3195 Vickery Road North Syracuse, NY 13212-4574 Christopher Phelps maurita@unimar.com 315.699.4400 unimar.com

As a provider of lighting solutions designed specifically to meet customers' needs, Unimar says it learns every aspect of its customers' business and regulatory needs, provides expertise in designing and building their lighting systems, and follows up with









customer support. Unimar says the result is greater reliability, economy and performance.

See ad on page 53

### **TOWER LIGHTS/** CONCEALMENT

#### **Dialight**

1501 State Route 34 Farmingdale, NJ 07727-3932 info@dialight.com 732. 919.3119 dialight.com

#### See ad on page 118



#### **Environmental Integration**

18 Chase Court Orange, MA 01364 Thor Holbek info@ environmentalintegration.com 978.544.1900 environmentalintegration.com

Environmental Integration designs and manufactures concealment products for monopole, rooftop and steeple applications. Branch canopy systems, including refurbish projects, are engineered for durability and longevity. The company specializes in realistic reproductions for concealment.

# FARL**IGH**T

**Precision LED Lighting** 

#### **Farlight**

846 Watson Ave. Wilmington, CA 90744 Robert Wolfenden

info@farlight.com 800.741.1545 farlight.com

Farlight has designed and manufactured compact and efficient LED obstruction lights and controllers in California. The company's LED obstruction lights combine the cost-saving benefits of LEDs with advanced technology to ensure reliable operation in all environments. All Farlight obstruction lights are backed by a five-year warranty.

#### See ad on page 107

#### **International Tower Lighting**

P.O. Box 41875 Nashville, TN 37204 Jack Burden iburden@itl-llc.com 615.256.6030 itl-llc.com





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- Authorized, Competent, and Competent Climber Rescuer courses are bundled for economy
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#### Susan Harwood Grant Courses Available

- RF Safety Awareness
- Tower Deconstruction
- Principals of Rigging



For more information, contact: Brent Jarvis 712.274.8733 x1285 • Brent.Jarvis@witcc.edu corporatecollege.biz • 4647 Stone Ave. • Sioux City, IA Located on the campus of Western Iowa Tech Community College

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#### Skytec

23 Inland Farm Road Windham, ME 04062 Richard Sullivan skytecinc@hotmail.com 207.893.1700 skytecInc.com

#### Slatercom-WCD

7905 State St. Salem, OR 97317 Al Slater info@slatercom.com 503.581.5550 slatercom.com

See ad on page 155

### **TOWER MANUFACTURERS**



#### **Allstate Tower**

TOWER LIGHTS/CONCEALMENT — TOWER MFGS

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

Allstate Tower fabricates a line of self-supporting, guyed, agriculture and specialized steel structures engineered specifically for its customers' demanding requirements. Allstate Tower offers turnkey installation services, tower maintenance and inspection services for any type of tower. The company has served the broadcast, wireless, CATV, agriculture, government,

utility and general contracting market for more than 10 years.

#### See ad on page 161



#### **Bell Tower**

6037 S. Industrial Road Chelsea, OK 74016 Richard Bell rose-btc@sbcglobal.net 918.789.9020 belltowercorp.com

For 22 years, Bell Tower has been designing, manufacturing and installing towers throughout the United States from 100-foot self-supporters to 2,000-foot broadcast towers. The company's experienced staff offers customers what Bell Tower says is finest safety record in the industry and fair pricing on challenging projects.



#### **Campbellsville Industries**

P.O. Box 278 Campbellsville, KY 42718 David England steeple@cvilleindustries.com 270.465.8135 cvilleindustries.com

Campbellsville Industries, whose nickname is "the Steeple People," says it is the oldest and largest steeple/cupola company in the United States with more than

18,000 installations throughout the world. The company uses traditional architectural styling and historic reproduction to conceal antennas inside the steeple/cupola.

#### See ad on page 151



#### **CommStructures**

101 E. Roberts Road Pensacola, FL 32534 Jim Hobbs jhobbs@commstructures.com 850.968.9293 commstructures.com

#### **ConcealFab**

3265 Fillmore Ridge Heights Colorado Springs, CO 80907 Mike Slattery mslattery@concealfab.com 719.599.3400 concealfab.com



#### **Ehresmann Engineering** 4400 W. 31st St.

Yankton, SD 57078 Eric Taylor e.taylor@ ehresmannengineering.com 605.665.7532 ehresmannengineering.com

Ehresmann Engineering says that values and ethics are entrenched in the company's daily activities. The company says it achieves performance with honesty in all aspects of its work. Whether it's managing a turnkey project or fabricating a custom-designed stealth structure, Ehresmann Engineering says it will compete



TOWER MANUFACTURERS







See ad on page 113

#### **Electronics Research**

need, and nothing less.

aggressively on quality to provide

its customers with what they

7777 Gardner Road Chandler, IN 47610 David White sales@eriinc.com 812.925.6000 eriinc.com

# **FWT**

5750 E. I-20 Fort Worth, TX 76119 Ashley Glenn aglenn@fwtllc.com 817.255.3022 fwtllc.com

# **Hi Tech Composite Structures**

P.O. Box 609 Redmond, OR 97756 David Ullrich sales@hitechcomposites.com 541.548.0812 hitechcomposites.com

# **International Tower Lighting**

P.O. Box 41875 Nashville, TN 37204 Jack Burden jburden@itl-llc.com 615.256.6030 itl-llc.com



# **Products LLC**

## **Rohn Products**

1 Fairholm Ave. Peoria, IL 61603 Tim Rohn sales@rohnnet.com 309.566.3000 rohnnet.com

# Sabre Towers and Poles

2101 Murray St. Sioux City, IA 51111 Mike Coghlan mpcoghlan@sabreindustries.com 800.369.6690 sabretowersandpoles.com

Sabre Towers and Poles designs and manufactures guyed and self-supporting towers, monopoles and concealment structures. In addition, it designs, fabricates and installs tower and monopole upgrade components.

See ad on page 99

## **Stainless**

100 W. Main St., Suite 400 Lansdale, PA 19446 Ed Deetscreek ed.deetscreek@stainlessllc.com 215.631.1323 stainlessllc.com

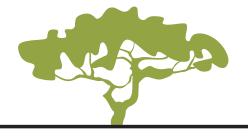
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\$280,000,000 under management with a focus on communication infrastructure



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**STRUCTURES** 

# **Valmont Structures**

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Valmont Structures is a supplier of towers, poles, engineering and inspection services. Valmont's brands include Matco, Microflect and PiRod. Valmont says whatever a customer's wireless tower application may be, it can offer a solution that meets or exceeds the customer's needs.

See ad on page 135

# TOWER PARTS & ACCESSORIES

# **ACS Solutions**

495 Horizon Drive, Suite 200 Suwanee, GA 30024 Bob Diehl bdiehl@acssolutions.com 800.241.9881 acssolutions.com



## **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

Allstate Tower fabricates a line of

self-supporting, guyed, agriculture and steel structures engineered specifically for its customers' requirements. Allstate Tower offers turnkey installation services, tower maintenance and inspection services for any tower. The company has served the broadcast, wireless, CATV, agriculture, government, utility market for more than 10 years.

# See ad on page 161

## **Birdbusters**

707 S. Gulfstream Ave., Suite 405 Sarasota, FL 34236 Jack Wagner jackwagner@birdbusters.com 866.915.8225 birdbusters.com



# **Connect-It Wireless**

210 Commerce Way, Suite C Jupiter, FL 33458 Alisa Whitacre sales@connectitwireless.net 866.781.1300 connectitwireless.net

Connect-It Wireless manufactures and supplies what it calls the highest-quality site hardware available. It says its customer service and industry knowledge are second to none. Connect-It Wireless has antenna site needs in stock, including antenna mounts, bridge kits, coax support, grounding and a huge safety line.



# **GME Supply**

1801 Westfall Drive

Columbia, MO 65202 Jim Zepp info@gmesupply.com 718.210.3913 gmesupply.com

GME Supply says it is America's premier outfitter of equipment and supplies. It says its mission is to keep workers safe and productive while on the job. The company asks customers to "climb higher with GME Supply, your trusted resource for expert advice and superior service."

# See ad on inside back cover

## **Hill Radio Communications**

2503 General Electric Road Bloomington, IL 61704 Steve Larkin wa9gck@aol.com 309.663.2141 hillradio.net

# **International Tower Lighting**

P.O. Box 41875 Nashville, TN 37204 Jack Burden jburden@itl-llc.com 615.256.6030 itl-llc.com



## **Kenwood Telecom**

3431 Novis Pointe
Acworth, GA 30101
Paul Novis
pauln@kenwoodtelecom.com
888.439.0500
kenwoodtelecom.com

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TOWER MANUFACTURERS — TOWER PARTS & ACC







# **Sabre Site Solutions**

2101 Murray St. Sioux City, IA 51111 Michael Burnett miburnett@sabreindustries.com 800.369.6690 sabresitesolutions.com

Sabre Site Solutions' wireless components and site accessories catalog offers everything from grounding lugs to pre-engineered lightweight towers. The company's antenna mounts are designed to provide the strength and capacity needed for LTE/4G upgrades.

# See ad on page 99

# Skytec

23 Inland Farm Road Windham, ME 04062 Richard Sullivan skytecinc@hotmail.com 207.893.1700 skytecInc.com

# **Talley**

12976 Sandoval St. Santa Fe Springs, CA 90670 Celina Frazier sales@talleycom.com 562.906.8023 talleycom.com

# **Tessco Technologies**

11126 McCormick Road Hunt Valley, MD 21031-1494 John Celentano celentanoj@tessco.com 410.229.1186 tessco.com

# **Tuf-Tug Products**

3434 Encrete Lane Moraine, OH 45439 Joey Deuer tuftug@aol.com 937.299.1213 tuf-tug.com

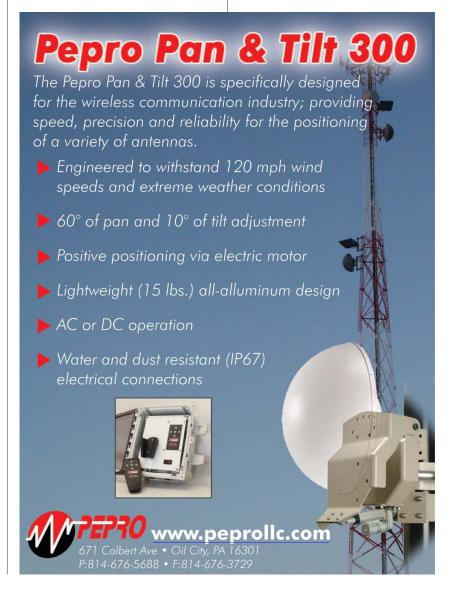


# A **valmont** T COMPANY

# Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, Ind.; and Salem, Ore. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.



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# Valmont Structures

1545 Pidco Drive Plymouth, IN 46563 Sean Gallagher sean.gallagher@valmont.com 503.589.6616 valmontstructures.com

# See ad on page 135



# **Wanho Manufacturing**

137 Mattatuck Heights Waterbury, CT 06705 sales@wanho.com 203.759.3744 wanho.com

Wanho says it is a key supplier to all major OEMs throughout the world and that it is dedicated to serving these companies, which build and maintain wireless systems on a global basis. Wanho says its components are used extensively in communications systems in all corners of the world including the Americas, Europe and Asia.

# See ad on page 137

# **TOWER** REINFORCEMENT



# **Aero Solutions**

5500 Flatiron Parkway, Suite 100 Boulder, CO 80301 Jim Lockwood info@aerosolutionsllc.com

# 720.304.6882 aerosolutionsllc.com

Aero Solutions optimizes the load carrying capacity of monopole and tower structures, with thousands of upgrades completed in the United States since 2002. The company's innovative, nonwelded PoleMax reinforcing systems are supported by AeroSoft design software and technical field support.



# **Allstate Tower**

P.O. Box 25 Henderson, KY 42419 Kevin Roth Kroth@allstatetower.com 270.830.8512 allstatetower.com

Allstate Tower fabricates a line of self-supporting, guyed, agriculture and specialized steel structures engineered specifically for its customers' demanding requirements. Allstate Tower offers turnkey installation services, tower maintenance and inspection services for any type of tower. The company has served the broadcast, wireless, CATV, agriculture, government, utility and general contracting market for more than 10 years.

# See ad on page 161

# **Black & Veatch**

10950 Grandview Drive Overland Park, KS 66210 Kristi Klohs klohskm@bv.com 913.458.6271 bv.com

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# CommStructures

101 E. Roberts Road Pensacola, FL 32534 Jim Hobbs jhobbs@commstructures.com 850.968.9293 commstructures.com

# **Doty-Moore Tower Services**

100 W. Main St., Suite 400 Lansdale, PA 19446 Ed Deetscreek ed.deetscreek@stainlessllc.com 215.631.1323 stainlessllc.com



# **Ehresmann Engineering**

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TOWER PARTS & ACCESSORIES — TOWER REINFORCEMENT







Dan Sammartano dsammartano@fdh-inc.com 919.755.1012 fdh-inc.com

# International **Climatic Evaluation**

1110 Finch Ave. West. Suite 716 Toronto, ON M3J 2T2 Canada Simon Weisman simon@weisman-consultants.com 416.736.7453 weisman-consultants,com

# **Malouf Engineering**

17950 Preston Road, Suite 720 Dallas, TX 75252 Mark Malouf mmalouf@maloufengineering.com 972.783.2578 maloufengineering.com

# **MidAmerica Towers**

P.O. Box 6556 Gainesville, GA 30504 Jay Panozzo jay@midamericatowers.com 815.693.1565 midamericatowers.com

# Mikab

P.O. Box 36 Dumont, NJ 07628 brian weis bweis@mikabcorp.com 201.387.7700 mikabcorp.com



# Paul J. Ford and Company

250 E. Broad St., Suite 600 Columbus, OH 43215 Barb Tucker btucker@pjfweb.com 614.221.6679 pjfweb.com

PJF is a structural engineering firm that says it has a national reputation for designing and analyzing communications structures since 1966. PJF offers high-volume capacity with quick turn times. PJF has professional engineer registrations in all 50 states, the District of Columbia, Puerto Rico and Canada.

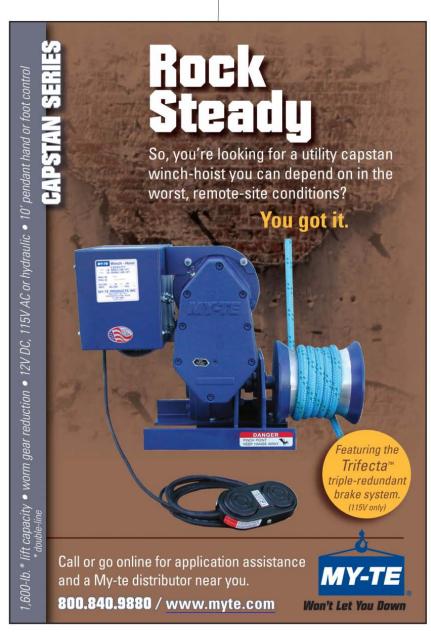
# **Rohn Products**

1 Fairholm Ave. Peoria, IL 61603 Tim Rohn sales@rohnnet.com 309.566.3000 rohnnet.com



# Sabre Towers and Poles

2101 Murray St. Sioux City, IA 51111 Mike Coghlan mpcoghlan@sabreindustries.com 800.369.6690



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TOWER REINFORCEMENT







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# sabretowersandpoles.com

Sabre Towers and Poles designs and manufactures guyed and self-supporting towers, monopoles and concealment structures. In addition, it designs, fabricates and installs tower and monopole upgrade components.

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#### TowerMRL

2851 Capitol Drive Sun Prairie, WI 53590 Chris Mallon cmallon@towermrl.com 608.244.1855 towermrl.com



A **valmont T** COMPANY

## Valmont Site Pro 1

15 Oser Ave. Hauppauge, NY 11788 Steve Hagee steven.hagee@valmont.com 888.GETPRO1 sitepro1.com

Valmont Site Pro1 says it is the industry's leading manufacturer and distributor of high-quality wireless site components. The company's broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta; Los Angeles; New York; Dallas, Plymouth, Ind.; and Salem, Ore. Products include coax cable accessories. grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products.

# **WesTower Communications**

2460 Sand Lake Road Orlando, FL 32804 Angelique Stephens ccarlisle@westower.com 818.309.5163 westower.com

# **TOWER TOP AMPLIFIERS**

# **Bird Technologies**

30303 Aurora Road Solon, OH 44139 Tom Boyle sales@birdrf.com 440.519.2172 birdrf.com

See ad on page 161



# **Telewave**

660 Giguere Court San Jose, CA 95133 sales@telewave.com 800.331.3396 telewave.com

Telewave designs and manufactures RF infrastructure equipment for wireless communication systems and interoperability. Customers include public safety organizations; local, county and federal agencies; industry; and the military.

See ad on page 27



# **Westell Technologies**

750 N. Commons Drive Aurora, IL 60504 Sales contactsales@westell.com 800.377.8766 westell.com

# TOWER/MOBILE/

# **Allied Fiber**

845 Third Ave., 8th Floor New York, NY 10022 **Hunter Newby** info@alliedfiber.com 631.285.1136 alliedfiber.com

# **High Gain Wireless**

P.O. Box 308 Great Falls, VA 22066-0308 Tom Ferguson tferguson@highgainwireless.com 717.592.9578 highgainwireless.com

Discuss and agree on specific performance criteria to evaluate the success of the supplier's performance.

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TOWER REINFORCEMENT – TOWER/MOBILE/PORTABLE





# Nello

211 W. Washington St., Suite 2000 South Bend, IN 46601 **Kevin Goggins** sales@nelloinc.com 574.288.3632 nelloinc.com

#### **Pctel**

20410 Observation Drive, Suite 200 Germantown, MD 20876 Chintan Fafadia chintan.fafadia@pctel.com 301.444.2047 pctel.com



# **Peak Industries**

1408 E. Stutler Road Spangle, WA 99031 Rick Covey contact@peakindustriesinc.com 509.443.0479 peakindustriesinc.com

Peak Industries offers the strongest towers in the market. The company has a large variety of mobile towers and can modify to suit customers' specific needs. Its towers have a small footprint, multicarrier capacity, and excellent wind and tower loading with quick and easy set up. The towers are available nationwide for lease or sale.



# **Pioneer Energy Products** (Pepro)

671 Colbert Ave. Oil City, PA 16301 Kelly Lander

klander@peprollc.com 814.676.5688 peprollc.com

Pepro says it is the leading manufacturer of patented shielded enclosures for remote communication and mission-critical applications. Pepro has more than 20 years in the industry without loss or upset of radio equipment caused by lightning. Pepro provides complete site solutions and installation.

See ad on page 143

# **Sabre Building Systems** by CellXion

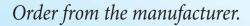
5031 Hazel Jones Road Bossier City, LA 71111 Jim Phillips jphillips@sabreindustries.com 770.301.8080 sabrebuildingsystems.com

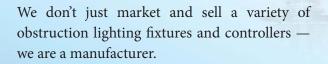
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# **Viking Communications**

1421 S. 62nd. St. Milwaukee, WI 53214 Sal Dragotta

# Make it easy on yourself...





Choose from our in-stock products or design a custom system. Your order will be fabricated, based on your requirements and schedule, with our superior competitively-priced products.

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FOWER/MOBILE/PORTABLE



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gm@vikingwireless.com 414.771.8960 viking-communications.com

# WE WILL-BURT

# Will-Burt

169 S. Main St. Orrville, OH 44667 Will-Burt Sales contact us@willburt.com 330.684.4000 willburt.com

Will-Burt says it delivers the widest selection and the highest-performance portable, telescopic masts and telescoping lattice towers in the world. The company says that when a customer's requirement is for high pointing accuracy and reliability in any operating environment, it will deliver the solution.

# **TOWERS / GUYED**

#### Alliance

TOWER/MOBILE/PORTABLE – TOWERS SELF SUP

2 Frassetto Way Lincoln Park, NJ 07035 alliancesales@alliancecomm.com 888.821.4797 alliancecomm.com



## **AMERICAN TOWER®**

# **American Tower**

10 Presidential Way Woburn, MA 01801 leasing@americantower.com 877.409.6966 americantower.com

American Tower is a wireless and broadcast communications infrastructure provider that offers access to more than 49,000 communications sites throughout the United States. Its solutions include wireless and broadcast towers, managed rooftops, in-building and outdoor distributed antenna system (DAS), small cell and Wi-Fi networks, and other right of way options and services that speed network deployment.

# **Flanigan Communications**

109 E. Woodsfield St. Norton, KS 67654 Gary Flanigan cmf1958@yahoo.com 785.871.0010

# **Hill Radio Communications**

2503 General Electric Road Bloomington, IL 61704 Steve Larkin wa9gck@aol.com 309.663.2141 hillradio.net

## **Rohn Products**

1 Fairholm Ave. Peoria, IL 61603 Tim Rohn sales@rohnnet.com 309.566.3000 rohnnet.com

# **Sabre Towers and Poles**

2101 Murray St. Sioux City, IA 51111 Mike Coghlan mpcoghlan@sabreindustries.com 800.369.6690 sabretowersandpoles.com

# See ad on page 99

# **Tower Systems**

17226 447th Ave. Watertown, SD 57201 Chuck Erickson chucke@towersystems.com 605.886.0930 towersystems.com



# Valmont Structures

1545 Pidco Drive Plymouth, IN 46563 Sean Gallagher sean.gallagher@valmont.com 503.589.6616 valmontstructures.com

Valmont Structures is a supplier of towers, poles, engineering and inspection services. Valmont's brands include Matco, Microflect and PiRod. Valmont says whatever a customer's wireless tower application may be, it can offer a solution that meets or exceeds the customer's needs.

See ad on page 135

# TOWERS / SELF SUPPORTING

#### **American Tower**

10 Presidential Way Woburn, MA 01801 leasing@americantower.com 877.409.6966 americantower.com

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# CORPORATION

## Nello

211 W. Washington St., Suite 2000 South Bend, IN 46601 Kevin Goggins sales@nelloinc.com 574.288.3632 nelloinc.com

# **Retel Services**

5871 Glenridge Drive N.E., Suite 110 Atlanta, GA 30328 Kathy Kelly-Jacobs kathy@retelservices.com 678.292.5723 retelservices.com

# **Rohn Products**

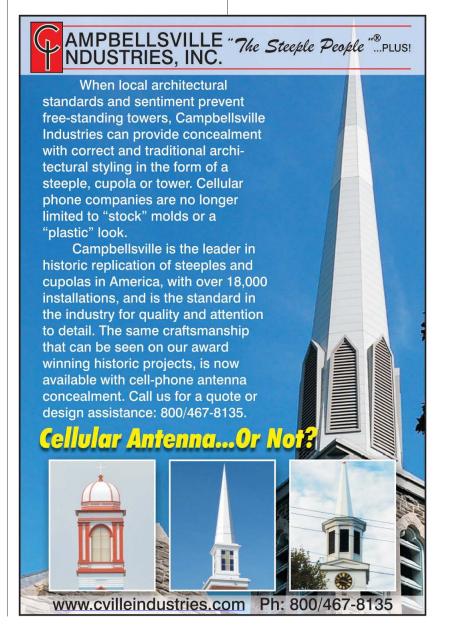
1 Fairholm Ave. Peoria, IL 61603 Tim Rohn sales@rohnnet.com 309.566.3000 rohnnet.com



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TOWERS/SELF SUPPORTING



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it designs, fabricates and installs tower and monopole upgrade

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# **Tower Systems**

components.

17226 447th Ave. Watertown, SD 57201 Chuck Erickson chucke@towersystems.com 605.886.0930 towersystems.com



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# TOWERS/ CONCEALMENT



# **AMERICAN TOWER®**

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10 Presidential Way Woburn, MA 01801 Leasing leasing@americantower.com 877.409.6966 americantower.com

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See ad on page 151

#### **ConcealFab**

3265 Fillmore Ridge Heights Colorado Springs, CO 80907 Mike Slattery mslattery@concealfab.com 719.599.3400 concealfab.com



# **Ehresmann Engineering**

4400 W. 31st St. Yankton, SD 57078 Eric Taylor e.taylor@ ehresmannengineering.com 605.665.7532 ehresmannengineering.com

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# **Engineered Endeavors**

10975 Kinsman Road Newbury, OH 44065-9787 Jeff Syslo jsyslo@engend.com 440.564.5484 engend.com

Engineered Endeavors offers monopoles, disguised slim-line monopoles, flagpoles and custom concealment products. The company also specializes in retrofits of existing monopoles such as antenna/equipment upgrades. Engineered Endeavors has in-house engineering/ drafting and P.E. certification in all 50 states.

See ad on page 21







# **Environmental Integration**

18 Chase Court Orange, MA 01364 Thor Holbek info@ environmentalintegration.com 978.544.1900 environmentalintegration.com

Environmental Integration designs and manufactures concealment products for monopole, rooftop and steeple applications. Branch canopy systems, including refurbish projects, are engineered for durability and longevity. The company specializes in realistic reproductions for concealment.

# **Hi Tech Composite Structures**

P.O. Box 609 Redmond, OR 97756 David Ullrich sales@hitechcomposites.com 541.548.0812 hitechcomposites.com



# Larson Camouflage

1501 S. Euclid Ave Tucson, AZ 85713 Tom Feddersen feddersen@larsoncamo.com 520.294.3900 larsoncamo.com

Larson says it pioneered cellular camouflage with the first monopine in 1992 and that it has been leading the industry ever since. The company's products include pines, palms, elms,

cypress, cacti, rooftops and DAS towers. Larson also refurbishes trees with field-installed bark. branches and fronds.

# See ad on page 37



# **Peabody Concealment**

13435 Estelle St. Corona, CA 92879 Sales RFTC sales@peabodyconcealment.com 888.511.6828 peabodyconcealment.com

Peabody Concealment offers prefabricated cell site RFTC concealment enclosure design, engineering and fabrication. Large prefab sections are built to match architecture to help pass zoning and siting regulations for easy permit approval, and they install in hours, saving thousands of dollars in costs.

# See ad on page 67

# **Porter**

164 Malbert St., Building B Perris, CA 92570 Dwain Porter porter@porterrf.com 951.940.9090 porterrf.com

# **Sabre Towers and Poles**

2101 Murray St. Sioux City, IA 51111 Mike Coghlan mpcoghlan@sabreindustries.com 800.369.6690 sabretowersandpoles.com

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# SOLAR COMMUNICATIONS INTERNATIONAL

## **Solar Communications**

8885 Rio San Diego Drive, Suite 207 San Diego, CA 92108 Steve Holborn sholborn@rftransparent.com



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**TOWERS/CONCEALMENT** 



...... / SUPPLIERS / .......



619.243.2750 rftransparent.com

Solar Communications offers an array of concealment products and services for integrating wireless infrastructure into the community character, making SCI products what the company calls the ideal choice in any setting.

# See ad on page 45



# **Stealth Concealment Solutions**

3034-A Ashley Phosphate Road North Charleston, SC 29418 Cindy Wishart cindywishart@stealthsite.com 800.755.0689 stealthconcealment.com

"Got something to hide?" Stealth Concealment Solutions asks. "Camouflage your antennas and improve the environmental landscape. Trust the experts who were here first." Stealth Concealment Solutions says it has been the leader and master of quality antenna concealment solutions for the wireless industry since 1992.

# See ad on page 29

## Valmont Structures

1545 Pidco Drive Plymouth, IN 46563 Sean Gallagher sean.gallagher@valmont.com 503.589.6616 valmontstructures.com

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# TOWERS/ **MONOPOLES**



## **Aero Solutions**

5500 Flatiron Parkway, Suite 100 Boulder, CO 80301 Jim Lockwood info@aerosolutionsllc.com 720.304.6882 aerosolutionsllc.com

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# COMMSCOPE®

## **CommScope**

4 Westbrook Corporate Center, Suite 400 Westchester, IL 60154 Tania Patrone tania.patrone@commscope.com 708.236.6586 commscope.com/andrew

CommScope says it has played a vital role in the world's best communication networks. The company says its solutions span the entire RF landscape, helping wireless carriers manage ever-in-

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creasing cell site complexities. CommScope's end-to-end RF solutions includes critical infrastructure needed to build high-performance wireless networks.

# See ad on page 17

#### ConcealFab

3265 Fillmore Ridge Heights Colorado Springs, CO 80907 Mike Slattery mslattery@concealfab.com 719.599.3400 concealfab.com

#### **Edison Carrier Solutions**

4900 Rivergrade Road, 2B-1, First Floor Irwindale, CA 91706 Brian Ryan carriers@sce.com 800.634.7999 edisoncarriersolutions.com



# **Engineered Endeavors**

10975 Kinsman Road Newbury, OH 44065-9787 Jeff Syslo jsyslo@engend.com 440.564.5484 engend.com

Engineered Endeavors offers monopoles, disguised slim-line monopoles, flagpoles and custom concealment products. The company also specializes in retrofits of existing monopoles such as antenna/equipment upgrades. Engineered Endeavors has inhouse engineering/drafting and P.E. certification in all 50 states.

# See ad on page 21

# **FWT**

5750 E. I-20 Fort Worth, TX 76119 Ashley Glenn aglenn@fwtllc.com 817.255.3022 fwtllc.com

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Sabre Towers and Poles designs and manufactures guyed and self-supporting towers, monopoles and concealment structures. In addition, it designs, fabricates



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and installs tower and monopole upgrade components.

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# Valmont Structures

1545 Pidco Drive Plymouth, IN 46563 Sean Gallagher sean.gallagher@valmont.com 503.589.6616 valmontstructures.com

Valmont Structures is a supplier of towers, poles, engineering and inspection services. Valmont's brands include Matco, Microflect and PiRod. Valmont says whatever a customer's wireless tower application may be, it can offer a solution that meets or exceeds the customer's needs.

# See ad on page 135



# Wireless Edge

270 North Ave., Suite 809 New Rochelle, NY 10801 John Arthur arthur@wirelessedge.org 914.712.0000 wirelessedge.org

Wireless Edge is a provider of network implementation services and strategic tower sites. Nationwide services include tower development, site management, development of cell sites and satellite terrestrial repeaters and special projects. The company specializes in development and permitting of antenna sites on landmark and historic properties.

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# TRADE SHOWS



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152 W. Zandale Drive Lexington, KY 40503 Corinne Hoch choch@acuta.org 859.278.3338 acuta.org

ACUTA is a 43-year-old nonprofit association that provides professional networking and educational resources such as conferences, seminars, and printed and electronic publications to the men and women responsible for collaboration technologies, including voice, data and video communications on college campuses. The association says it has earned a reputation as the go-to source for information regarding campus networks, including Wi-Fi, fixed mobile convergence, VoIP, DAS and wireless security issues.



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AGL Conferences bring education and networking to the local level while maintaining a national recognition of industry leaders and speakers. Visit its website for a list of 2014 conference locations.

# See ad on page 22



# **National Association** of Tower Erectors

8 Second St. S.E. Watertown, SD 57201 Todd Schlekeway nate@natehome.com 605.882.5865 natehome.com

The National Association of Tower Erectors (NATE) is a nonprofit trade association in the wireless infrastructure industry providing a unified voice for tower erection, service and maintenance companies. The association has more than 600 member companies throughout the United States, Bahamas, Canada, Ghana, India, Jamaica, Romania, Saudi Arabia, South Africa, Trinidad and Tobago and the United Arab Emirates.

See ad on inside front cover











#### **PCIA**

500 Montgomery St., Suite 500 Alexandria, VA 22314 Nancy Touhill nancy.touhill@pcia.com 703.535.7411 wirelessinfrastructureshow.com

PCIA says its 2014 Wireless Infrastructure Show, to be conducted May 19–22 in Orlando, Fla., is the premier national event for wireless infrastructure. PCIA says it doesn't want anyone to miss what it calls an essential networking and business opportunity for anyone who owns, builds, manages or services wireless networks.

# See ad on page 50

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# **Bird Technologies**

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# **First Light Resources**

189 Rivergate Drive Franklin, TN 37064 Richard Hickey rh@firstlightresources.com 615.856.5526 firstlightresources.com

# FrenchCreek Production

100 N. 13th St. Franklin, PA 16323 Jeff Greksa marketing@ frenchcreekproduction.com 814.437.1808 frenchcreekproduction.com

## **Global RF Solutions**

1900 W. Chandler Blvd., Suite 15-228 Chandler, AZ 85226 Marv Wessel marv@grfs.net 480.814.1393 grfs.net



# IWCE – International Wireless Communications Expo

11 River Bend Drive South Stamford, CT 06907 Stacey Orlick stacey.orlick@penton.com 203.358.3777 iwceexpo.com

IWCE, taking place March 24-28, 2014, in Las Vegas, says it is the authoritative annual event for communications technology in the working world. IWCE invites attendees to join 7,500 of their peers and more than 350 manufacturers to discuss next-generation networks, spectrum utilization, regulatory issues, wireless infrastructure and interoperability.

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139 White Oak Lane Old Bridge, NJ 08887 John Paleski subcom1@subcarrier.com 732.607.2828 subcarrier.com

Subcarrier Communications is a provider of telecommunications sites and services throughout the United States. The company's primary business is leasing antenna space on its multitenant towers and exclusively managed building rooftops.

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# Thermo Bond Buildings

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8500 W. 110th St., Suite 300 Overland Park, KS 66210 David Blaha info@ssc.us.com

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SSC provides services to the telecommunications, development and construction industries. The company says its full range of in-house services and abilities makes it uniquely capable of handling all aspects of the most challenging projects. SSC says it strives hard to serve its clients, solve their problems and communicate effectively.

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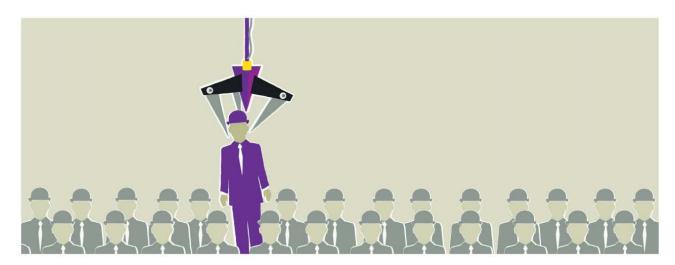


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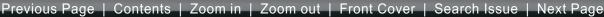
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