



Isotrope, LLC incubates innovative initiatives in communications technology. Formed in 2010, Isotrope is the product of a 28-year relationship between two enterprising radio engineering colleagues, David Maxson and Steve Riggs. Their combined knowledge, experience and creativity in wireless and broadcast communications is Isotrope's catalyst for launching new services.

RFSigns.com

RFSigns.com is the authoritative source for high quality safety signs and markers for radio communications facilities. RFSigns products are standards-compliant and very durable.

RFMaps.com

RFMaps.com democratizes radio/wireless coverage mapping. Users will be able to obtain accurate coverage maps economically. For the first time, users will not have to be rocket scientists (or radio engineers) to produce meaningful and reliable coverage analysis on the RFMaps.com on-line system.

Isotrope Wireless

Isotrope Wireless provides guidance on facility leasing, siting, design, permitting and construction for both municipalities and the wireless industry. Our services include: Design peer review, coverage analysis, alternatives analysis, compliance with FCC/FAA/OSHA regulations, interference prevention and remediation. We are experienced in litigation and negotiation of wireless issues.

Isotrope Consulting

Isotrope's communications engineering team has advised start-ups and settled businesses on system requirements development, protocol design, development and testing of new technologies in radio communications. examples - EPG project, RBDS protocol for proprietary application, improvement of a digital radio service's encoding of country identification code within constrained data space, studio and transmission facility design.



Isotrope, LLC.

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www.isotrope.im

Thinking Outside the Sphere



Isotrope problem solving expertise includes but is not limited to:

Regulatory Compliance

- Wireless zoning
- Radio Frequency safety signs
- Radio Frequency safety studies
- Radio Frequency safety programs
- Signal interference and remediation
- FCC, FAA, and OSHA compliance

Facility Design and Construction

- Site acquisition
- Project management
- Studio facilities design and construction
- HD-Radio systems design and construction
- Transmitter facilities design and construction
- Radio automation systems, installation and maintenance
- Satellite uplinks and downlinks
- Facility control systems
- Microwave links



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Radio Communications Engineering

- Signal propagation studies
- Remote-Broadcast engineering services
- Communication protocol development and testing
- Peer review and expert testimony
- Standards development
- Field testing



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The Isotrope Team:

David Maxson, WCP®, has been providing municipalities, industry and organizations with technical and strategic support on wireless matters for nearly three decades. An expert in modeling the coverage of personal wireless, broadcast, broadband and two-way radio communications, Mr. Maxson bridges the technical divide with plain-English explanations of matters important to regulators and operators of radio communications systems. He has testified before Congress on FCC regulatory matters, written numerous peer-reviewed technical papers on aspects of digital radio frequency communications and radio frequency safety, developed specifications and system designs for radio frequency communications, and testified in court on personal wireless communications matters. Mr. Maxson authored a technical book on the inner workings of digital HD Radio™ communications technology. Representing his company, he serves on wireless industry committees and on the National Radio Systems Committee – a standards-setting organization.

David Maxson was recently awarded the prestigious Wireless Communications Professional certification from the Institute of Electrical and Electronics Engineers (IEEE). This certification, earned by rigorous examination on Wireless Communications Engineering Technology, demonstrates the breadth and depth of Mr. Maxson's knowledge and experience with all aspects of personal wireless services engineering.



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Steve Riggs brings 3 decades of problem solving experience to the company. Most recently, Mr. Riggs was Director of Engineering for Clear Channel Radio Boston. Mr. Riggs is experienced in studio build-outs, station consolidation, HD-Radio implementation, radio network design, facility design, and site acquisition. He's been known to yell quite loudly at computer screens too. Mr. Riggs also serves as a technical advisor to Radiocraft, Inc. Past experience includes stints at Charles River Broadcasting, Boston and WZBC, Boston College. It is this varied background that has given him the tools for "Thinking Outside the Sphere".



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