TechnoCom™

Advanced
Telematics Services

- Experience
- Knowledge
- Flexibility

...And so much more
Advanced Telematics Service Offerings

With over 40,000 TechnoCom enabled fleet solutions worldwide on the road today, TechnoCom—a leader in asset and fleet tracking devices and telematics solutions—announces our Advanced Telematics Services offerings.

TechnoCom’s Advanced Telematics Services concentrates on Vehicle and Infrastructure Integration (VII), Dedicated Short Range Communications (DSRC) and Public Safety. The services are designed to meet the specific needs of our customers and include in-depth technical investigations and analyses, detailed designs, engineering plans/recommendations and full-up prototype demonstrations.

LMU (Location Messaging Unit)™ Design Services

As part of our extensive fleet solutions, TechnoCom offers the Location Messaging Unit (LMU)-4000, our fourth generation, GPS based location device that features cutting-edge location technology in an affordable device, available in CDMA, GPRS and iDEN networks.

In addition to the variety of air interfaces that the LMU already supports, TechnoCom performs custom design services to suit specific customer needs. These have included a wide range of air interfaces—900 MHz operation for golf course management, 2.4 GHz band operation for commercial vehicle depot operation and 4.9 and 5.9 GHz operation for public safety and transportation applications of national importance. Extensions of LMU designs customized to personal device form factors and personal security applications are also offered.

System Design and Prototyping Services

TechnoCom has been retained by industry leaders to assist in the development of prototype devices and systems for on-board and road-side units, as well as VII networks. These systems will operate over a very wide range of frequencies including the DSRC band at 5.9 GHz, the U-NII 5.x GHz bands, the public safety band at 4.9 GHz and the ISM band at 2.4 GHz. TechnoCom’s existing LMU and the VeoLocation™ platforms may be used to augment WiFi and DSRC development efforts—together these systems can be used for a wide range of applications from initial network performance testing and analysis to production applications and systems.

TechnoCom and ITS

TechnoCom has a long history providing leading-edge consulting and research services in the Intelligent Transportation Systems (ITS) industry, employing executives who participated in this area—starting with the development of the national ITS architecture—and continuing with TechnoCom’s leading role in the development of next generation of WAVE at 5.9 GHz. TechnoCom has also established itself as a leader in the ITS industry having contributed to standards development through various state and federally-funded projects, as well as becoming a leading supplier of ITS-enabling products.
DSRC is an all weather, multimodal, wireless local area network (WLAN) that allows high-speed communications between vehicles and the roadside—or between vehicles—for various safety applications and commercial transactions. DSRC applications can be extended to such areas as:

- Public Safety
- Traffic Management
- Electronic Payment
- Commercial Vehicle Operations
- Advanced Vehicle Safety Systems
- Information Management

TechnoCom provides experience, knowledge and—most importantly—flexibility in developing custom protocols and applications using the DSRC technology including system design and architecture, coverage analysis, backhaul network design and integration & testing. In addition, TechnoCom can facilitate incorporating auto OEM requirements to insure minimal cost impact on hardware devices, leverage customers’ existing solutions and implement requirements that don’t break the systems.

**Architectural Development Leadership**

TechnoCom is a proven leader and innovator when it comes to DSRC architectural development. With over 6 years experience in the development of the DSRC technological development, TechnoCom has driven the architectural and conceptual design behind most of the standards, including PHY, MAC, Network and Transport.

Additionally, in close conjunction with various industry leaders, TechnoCom has been at the forefront of the development and architectural design of the first prototype WAVE system for the U.S. Department of Transportation (DOT). As a result of our extensive engineering experience in the arena, TechnoCom already provides toll collection enforcement systems based on our current AVL product line.

**DSRC Research and Standards Development**

TechnoCom has an outstanding record in the research and standards development of DSRC technology. In conjunction with the U.S. DOT, TechnoCom has been instrumental in developing standards and prototypes of 5.9GHz technology for vehicle safety and private applications, including the following standards: IEEE 802.11, IEEE 1609 and ASTM 2213.

TechnoCom has also been a key partner in supporting the DSRC Industry Consortium. Specifically, we have been involved in system architecture, IPv6 networking, security key management and development of DSRC/WAVE prototype systems sponsored by DOT. In addition, we have participated in the development of the service rules for the Federal Communications Commission (FCC).

Our work has also extended into the analysis, simulation and testing of 5.9 GHz technologies. As a result of our work in this arena, TechnoCom developed a NS2 simulation environment for DSRC that includes a GUI-based pre- and post-processor.
About TechnoCom

TechnoCom is a leading-edge provider of solutions to enable wireless location services and assure their ongoing performance. We offer location support, mobile resource management and advanced telematics solutions combined with related professional services to wireless operators, service providers, system integrators and government agencies. These solutions enable customers to manage their wireless location infrastructures and services, reduce operating and capital costs, deliver superior levels of service, increase productivity and rapidly deploy new revenue-generating services. Our reputation for service, performance and excellence—along with our history of on-time delivery—are the reasons customers select TechnoCom as a long-term business partner.

Contact Information

To find out more about our Advanced Telematics Service offerings, please contact:

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