



DAVE EVANS

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Dave has worked across a broad range of engineering projects, ranging from detailed engineering tasks to project management and product development. His work has covered experimental research, failure analysis, product design, and systems integration across the fields of heat transfer, power generation, airborne thermal imaging systems, deployable power systems, control systems, and both wired and wireless data collection. A common thread in these efforts was the development of requirements, use cases, and specifications for a wide range of data collection and control systems, much of it network-based. Extensive work with special data collection and analysis capabilities, along with network design and implementation, has provided a unique insight into the fundamental requirements for developing and successfully deploying new wireless data collection technologies.

For over fifteen years Dave has also worked with those responsible for tracking and monitoring shipments and equipment through logistics processes. After several years of developing requirements, testing, and fielding various wireless technologies for monitoring and tracking equipment and supplies, the gaps in current technologies became quite apparent. Starting in 2005, work began on a new approach to logistics tracking – using ultra-low-power wireless mesh technologies to monitor and track equipment and supplies. The capability developed since 2005 is at the heart of the UMS wireless sensor mesh solution.

Early work on the wireless mesh capability was funded by the US Army Logistics Innovation Agency. Dave was contracted by the Army to compile a broad range of logistics use cases, derive functional and technical requirements from them, and then develop the original architectural concepts for a wireless mesh network-based monitoring and tracking capability. He functioned as the government engineer on the project from 2005 through 2016 as an entirely new mesh network protocol was developed specific to tracking and monitoring populations that are dynamic. Because these items are often mobile, yet lack a power source, UMS and its teammates developed a unique capability that has filled the “visibility” gaps Dave first documented





over 15 years ago. Now that the capability is mature and reliable, Dave and his UMS partners have since shifted over to commercial application of the wireless sensor mesh capability, which because of its advanced capabilities, security, and very low cost, can be applied to much more than just tracking logistics items.

With over ten years of experience applying the UMS capability to a wide variety of applications, Dave is confident that UMS can properly assess application of UMS devices to many processes, create a business model that will reflect both costs and the payback for applying UMS systems to your business processes, and then implement a successful deployment.

Dave has bachelor's and master's degrees in Mechanical Engineering from Lehigh University and is a member of both ASME and IEEE.

