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System Partitioning As a Design Strategy – Automated and Human-based Approaches

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Abstract: When it comes to defining how to partition a system for any particular reason, it is ultimately a human endeavor. Following that critical step, for any system with any complexity, automation is necessary to manage how we as humans interpret the pieces and the system as a whole. Using real-world examples of complex system developments/deployments, there are lessons to be learned from successes and failures to better understand how partitioning is a necessary evil and what to do to make it possibly less evil.

Bio: Michael Weir is a Senior Systems Analyst with Quanterion Solutions, Inc. He has over 30 years of experience in military R&D and operational deployment of communications and networking systems in the United States and overseas. Having seen the good, bad, and the ugly in the flow of systems development and deployment (or not) over three decades, Mr. Weir has a perspective on where the hard problems begin, and on how they evolve and consume resources that should be productive, but aren't. His current focus with complex systems is on effectively recognizing trust and identity and handling them properly across system and sub-system boundaries.

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Place: Room 538, CoRE Bldg.
Busch Campus • Piscataway, NJ