THE DATA DISTRIBUTION SERVICE 
FOR REAL-TIME SYSTEMS

par

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The Data Distribution Service for Real-Time Systems (DDS) is an Object Management Group (OMG) standard for publish/subscribe designed to address the needs of a large class of mission- and business-critical distributed real-time systems and system of systems. The DDS standard was formally adopted in 2004 and in less than five years from its inception has experienced a swift adoption in a variety of application domains characterized by the need of distributing high volumes of data with predictable low latencies, such as, Radar Processors, Flying and Land Drones, Combat Management Systems, Air Traffic Management, High Performance Telemetry, Large Scale Supervisory Systems, and Automated Stocks and Options Trading. Along with wide commercial adoption, the DDS Standard has been recommended and mandated as the technology for real-time data distribution by several key administrations worldwide such as the US Navy, the DoD Information-Technology Standards Registry (DISR) the UK MoD, and EUROCAE.

This seminar will provide an in depth introduction of DDS, highlight some of the new extensions, such the new structural type system, and conclude with new directions and research areas.

Angelo CORSARO, Ph.D., is OpenSplice DDS Chief Technology Officer (CTO) at PrismTech. As CTO, Angelo directs the technology strategy, planning, evolution, and evangelism. Angelo leads the strategic standardization at the Object Management Group (OMG), where he co-chairs the Data Distribution Service (DDS) Special Interest Group. Angelo is a widely known and cited expert in the field of real-time and distributed systems, middleware, and software patterns, has authored several international standards and enjoys over 10+ years of experience in technology management and design of high performance mission- and business-critical distributed systems.

Angelo received a Ph.D. and a M.S. in Computer Science from the Washington University in St. Louis, and a Laurea Magna cum Laude in Computer Engineering from the University of Catania, Italy.