

GSAW 2011 Tutorial H:

Strategies for XML Telemetry and Command Exchange

Length: Half day

Overview:

This is a half day tutorial focusing on the what, why and where for using XML Telemetry and Command Exchange (XTCE) compliant databases. The instructors will share strategies and lessons learned for using the XTCE specification and dive into the technical details for developers. Attendees are also welcome to discuss their current XTCE implementation issues.

Instructors: Glen Gray, Brad Kizzort, Harris Corporation; Gerry Simon, Integral Systems, Inc.

Biographies:

Brad Kizzort has been building ground operations and I&T systems for spacecraft for over 25 years. He is currently chief systems engineer for the Harris' OS/COMET product and is responsible for insuring that OS/COMET evolves to meet new and existing customers' requirements for spacecraft monitoring and control. He also serves on the Object Management Group's Space Domain Task Force to promote industry specifications for interoperability.

Gerry Simon is a Systems Engineering manager and system architect at Integral Systems. Gerry has worked 25+ years in aerospace with most of those years spent working to build better spacecraft ground systems. Currently the lead systems engineer on an Air Force satellite communications protection program, Gerry has had direct involvement in a number of important initiatives including: pioneering work (starting 20 years ago) with COTS software for spacecraft Command and Control, using the Internet Protocol for T&C data transmission, and Initial Satellite As a Sensor. Gerry is a past chair of the OMG Space Domain Task Force where he co-authored XTCE. Gerry has a Masters degree in Computer Engineering and has climbed all of Colorado's 14 thousand foot peaks.

Glen Gray is an Advanced Programs Engineer for Harris Corporation on the OS/COMET® Development Team. He has worked in the Satellite Command and Control Industry for over ten years. Glen is currently assigned to the Orion Crew Capsule and Kennedy Space Center Launch Control Programs. He specializes in the control and status of ground equipment. Glen retired from United States Air Force after twenty years of service. He spent over eight years working in and around the Air Force Satellite Control Network (AFSCN) at Schriever Air Force Base. He has a degree in Information Systems Management and a Masters degree in Management from Colorado Technical University. Glen kayaks the gator infested waters of Florida and averages about 150 miles a year.

What Participants Should Expect to Learn:

Attendees are also welcome to discuss their current XTCE implementation issues.

Who Should Attend:

Managers or other interested parties that want to learn about the high level aspects of XTCE, and Satellite engineers and software engineers that are currently implementing or plan to implement XTCE. Some knowledge of XML schemas may be helpful for the technical portion.