



# KURTEK

CURATED TECHNOLOGIES

ADVANCING TECHNOLOGY ♦ ADVANCING HUMANITY

## SYSTEMS ENGINEERING INTEROPERABILITY SPECIFICATIONS

### KEY CAPABILITIES

**Specification Development** ♦ Service Requirement Definition ♦ Interface and Data Format Definition ♦ Technical Standard Selection and Application ♦ Interagency Agreement Support

**System Interoperability** ♦ Interface Compatibility Testing ♦ Protocol and Data Format Verification ♦ Independent Anomaly Investigation ♦ Reference Implementation Development and Sustainment ♦ Compatibility Test Set Development

**Standards Application and Advocacy** ♦ Standards Training Development ♦ Standards Development Organization Support ♦ Commercial Product Evaluation and Certification

The growing ecosystem of government and commercial space and ground systems has made system and agency interoperability more important than ever. By leveraging a team of internationally recognized experts in defining, interpreting, and applying space interoperability standards and specifications, Kurtek can provide unparalleled support as agencies develop and apply standards, verify interoperability between government and commercial systems, and acquire and certify commercial products and services.

Kurtek's engineers have supported multiple standards development organizations across the space industry and in related fields, including the

Consultative Committee for Space Data Systems (CCSDS), the European Cooperation for Space Standardization (ECSS), and the Inter-Range Instrumentation Group (IRIG) / Range Commanders Council (RCC), as well as numerous agency-specific standards groups. Our expertise spans the range of standards-related activities, including direct participation in standard development and review, reference implementation development and verification, standard interpretation and application to unique mission scenarios, and training and industry advocacy.

Working with Kurtek gives you access to a proven combination of experience and expertise from across the global space industry. Our engineers have contributed to the design of numerous flagship space and ground systems, and their comprehensive knowledge, mission experience, and specialized skillsets enable us to deliver an effective solution for your unique needs.

### REPRESENTATIVE PROGRAMS

- Defined service requirements, common data format specifications, and signal performance thresholds and objectives for commercial space-to-ground communications services intended to support NASA Lunar and cis-Lunar spacecraft.
- Developed and delivered a portfolio of CCSDS standards training and certification classes for use across multiple NASA centers.

To learn more about our capabilities, email us at [info@kurtek.io](mailto:info@kurtek.io) or call our team at **703-943-7236**.