PROS

DIGITAL PAYLOAD RESOURCE MANAGEMENT SYSTEM

PAYLOAD RESOURCE OPTIMIZATION SYSTEM (PROS)

✓ Management of onboard Digital Channelizer Processor (DCP)

✓ Optimized beamforming, beam hopping, channelization

✓ Generate optimized resource management plans and schedules

✓ Manage payload configurations for multiple satellites

PAYLOAD RESOURCE PLANNING	**BEAM LAYDOWN OPTIMIZATION**	**RESOURCE CAPACITY OPTIMIZATION**
SATELLITE COMMANDING	**TELEMETRY ANALYSIS**	**GROUND SEGMENT ORCHESTRATION**
SATELLITE FLEET MANAGEMENT	**INTERFERENCE DETECTION & MITIGATION**	**WHAT-IF SCENARIO ANALYSIS**

PROS ESSENTIALS

✓ All the essentials for managing your digital payload
✓ Manages and deploys plans, including beamforming, channel/carrier plans
✓ Integrates with the payload controller to deploy operational plans to the satellite
✓ Receives telemetry from the satellite and displays information for long-term analysis
✓ Evaluates link budgets and sizes links to deliver capacity to meet mission goals

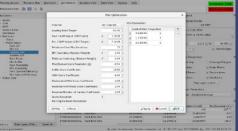## PROS ADVANCED

✓ Includes sophisticated optimization and data analysis capabilities
✓ Optimize plans to deliver time-varying capacity & form beams with intelligent nulling
✓ More sophisticated modelling of the satellite payload, including advanced spatial intermodulation analysis
✓ Integrates with ground segment to provision carrier plans and ensure that the satellite capacity is properly configured
✓ Coordinates services across multiple satellites through fleet management
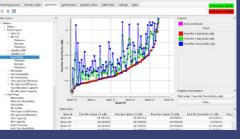✓ Uses uplink spectrum monitoring features to detect and null jammers and interferers

---

CENTRAL CONTROL DISPLAY	DEVELOP & OPTIMIZE CAPACITY PLANS	RICH GRAPHICAL OVERLAYS

KYTHERA
SPACE SOLUTIONS

7315 Wisconsin Ave. Suite 1000E
Bethesda, MD 20814 USA
www.kythera.space

info@kythera.space
+1 301-298-7590