



DYNAMIC, AUTONOMOUS MANAGEMENT FOR NEXTGEN SATCOM NETWORKS

KYTHERA OPERATING SYSTEM (KOS)

- ✓ Autonomously command and align space and ground resources to optimize service across your network, minute-by-minute
- ✓ Adapt on-the-fly to changing service needs and operational conditions, in space and on the ground
- ✓ Manage and optimize across your entire fleet and network
- ✓ Optimized mobility support with beam following and handover

AUTONOMOUS NETWORK CONTROL

DYNAMIC RESOURCE OPTIMIZATION

AUTOMATIC SERVICE PROVISIONING

MULTI-ORBIT/ASSET ORCHESTRATION

ENTERPRISE FLEET MANAGEMENT

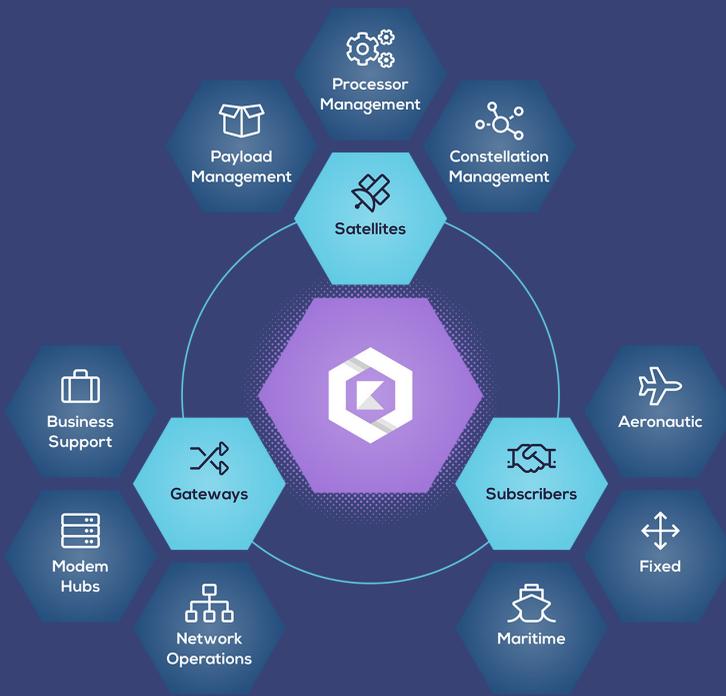
AUTONOMOUS THREAT MITIGATION

DYNAMIC MOBILITY MANAGEMENT

FULLY INTEGRATED ARCHITECTURE

REAL-TIME SERVICE OPTIMIZATION

KOS ORCHESTRATES SPACE, GROUND, & TERMINAL ASSETS



- ✓ **KOS IS DYNAMIC:** KOS is a real-time operations system, planning and re-planning, configuring, and reconfiguring the satellite and ground components minute-by-minute, enabling optimized support for your entire customer base, including mobile mission users like aircraft and ships.
- ✓ **KOS IS AUTONOMOUS:** With the ability to operate with a human in-the-loop or with full autonomy, KOS enables SATCOM operations to mature over time. KOS receives a request for service electronically, provisions the service automatically, and makes ongoing autonomous decisions necessary to preserve each user's signal. Operations center personnel guide, monitor, and troubleshoot KOS operations.
- ✓ **KOS IS INTEGRATED:** KOS manages the space network and orchestrates the ground components – the baseband modems and, indirectly, the terminals.
- ✓ **KOS IS RESILIENT:** KOS anticipates and automatically compensates for certain adverse conditions and threats that may impact your SATCOM service. KOS handles common needs, challenges, and threats autonomously, including hardware failure, gateway failure, rain fade, and interferers.