

JOINT POLAR SATELLITE SYSTEM (JPSS) COMMON GROUND SYSTEM (GCS) BLOCK 2.0 KEY FEATURES & BENEFITS

ATTRIBUTES	BLOCK 1.2 FEATURES	BLOCK 2.0 ENHANCEMENTS	MULTI-MISSION BENEFITS
End-to-End Multi-Mission Management Capability	<ul style="list-style-type: none"> Sized and configured to fully manage one operational satellite (S-NPP) 	<ul style="list-style-type: none"> Sized for three operational satellites (S-NPP, JPSS-1, and JPSS-2) Configured for two operational satellites (S-NPP and JPSS-1) 	<ul style="list-style-type: none"> Consolidated infrastructure and information integration for multiple missions reduces lifecycle costs Straightforward addition of JPSS-2
Security	<ul style="list-style-type: none"> DoD 8500 compliance with boundary protection 	<ul style="list-style-type: none"> NIST 800-53 compliance (FIPS high) with boundary protection and defense in depth 	<ul style="list-style-type: none"> Greater protection of on-orbit assets and uninterrupted delivery of critical products
Data Latency	<ul style="list-style-type: none"> Two ground stations achieving 140 minutes latency for S-NPP 	<ul style="list-style-type: none"> Four ground stations achieving 80 minutes latency for JPSS-1 Capabilities to further reduce JPSS-1 and S-NPP latency 	<ul style="list-style-type: none"> Fresher observations for improved accuracy of forecast models Potential for greater utility to regional modeling applications
Scalability for New Missions	<ul style="list-style-type: none"> Demonstrated accommodation of additional missions with low cost/schedule impacts (e.g., DMSP, Coriolis, GCOM-W1, NASA SCaN) 	<ul style="list-style-type: none"> Bowtie Architecture for new ground stations and data consumers Software slots for mission isolation Virtualization/Blades for adaptive resource allocation 	<ul style="list-style-type: none"> Facilitates inter-agency and international collaboration Protects each mission equally while providing latency/availability benefits Provides flexibility as multi-mission priorities and needs evolve
Continuity of Operations	<ul style="list-style-type: none"> Backup MMC operations 	<ul style="list-style-type: none"> Backup MMC and data processing operations 	<ul style="list-style-type: none"> Uninterrupted delivery of critical products if NSOF goes down
Data Processing/ Algorithms	<ul style="list-style-type: none"> IBM Power and AIX platforms Efficient framework for algorithm source code updates 	<ul style="list-style-type: none"> x86 and Linux platforms Efficient framework for algorithm source code or binary updates 	<ul style="list-style-type: none"> Consistency with other science platforms and better maintainability Streamlined algorithm incorporation
Situational Awareness	<ul style="list-style-type: none"> GUIs and tools per operational function 	<ul style="list-style-type: none"> GUIs and tools with CGS-wide perspective 	<ul style="list-style-type: none"> Quicker, more pro-active anomaly identification and resolution

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