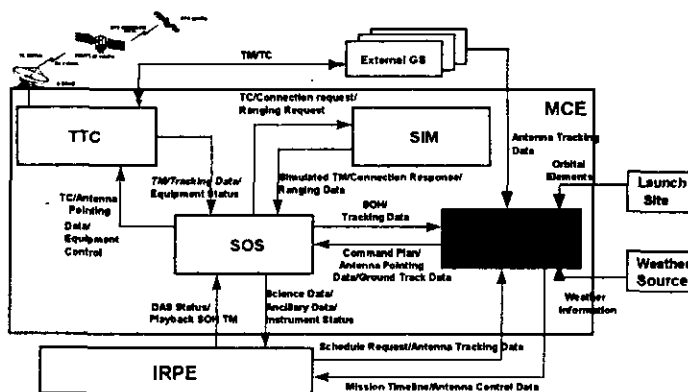


Development of KOMPSAT Mission Analysis and Planning System

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The Korea Multi-Purpose Satellite(KOMPSAT) system incorporates multiple missions designed to provide various applications in the field of Earth observations and scientific experiments. The KOMPSAT system consists of a KOMPSAT spacecraft, a KOMPSAT Ground System(KGS), and various external interfaces. The KGS is comprised of the Mission Control Element(MCE) and the Image Reception and Processing Element(IRPE). The KOMPSAT MCE monitors and analyzes status of the satellite, plans the mission schedule, and controls the satellite. MCE is designed to be divided into four subsystems: Telemetry Tracking and Command Subsystem(TT&C), Satellite Operation Subsystem(SOS), Mission Analysis and Planning Subsystem(MAPS), and Satellite Simulator Subsystem(SIM). The MAPS analyzes the orbit and attitude of the KOMPSAT, and plans the mission schedule. This presentation mainly describes MAPS in terms of architecture, functions, internal/external interfaces, and operational capabilities.



KOMPSAT MCE Functional Block Diagram