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Abstract
Galileo Orbital Operations Using the Low-Gain Antenna
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This paper updates and extends the paper "Performing the Galileo Mission Using the S-Band Low-Gain Antenna" presented in 1994 at this conference, focusing mostly on the Orbital Operations portion of the mission. At the time of that previous paper, detailed design and implementation of the Orbital Operations flight and ground segments was just beginning. As such, what was presented two years ago was a description of the envisioned concept.

The detailed design and implementation is now complete with upload of the Orbital Operations flight software to the Galileo spacecraft slated to begin 27 March '96.

A brief overview of the Galileo mission with a very brief summary of science and mission accomplishments since the 1994 paper will be provided. This will include a likewise brief review of the Relay/JOI software that was loaded onto the spacecraft in February '95 and the supporting ground system changes.

The bulk of the paper will focus on the Orbital Operations design and implementation, beginning with an updated description of the changes being made to both the flight software and ground system, with expanded sections in areas where the previous paper was weak due to the early design state at that time.

Results of system functional tests of various parts of the design as well as descriptions of some of the special test tools developed to enable testing will also be provided.