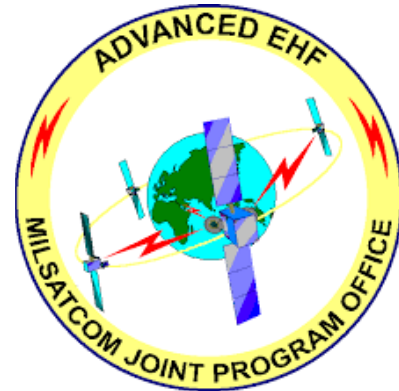


The space segment consists of the on-orbit satellite systems utilizing crosslink communications to allow for full AEHF and legacy Milstar constellation integration. The mission control segment controls satellites on orbit, monitors vehicle health and provides Mbps.

The AEHF (Advanced Extremely High Frequency System) program of record consists of six satellites in geosynchronous earth orbit that provides 10 times the throughput of the 1990s-era Milstar satellites with a substantial increase in coverage for users. AEHF-1 was launched on August 14, 2010 and AEHF-2 was launched on May 4, 2012, AEHF-3 was launched on September 18, 2013, while AEHF-4 is currently on the launch pad ready to go. AEHF provides continuous 24-hour coverage between 65 degrees north and 65 degrees south latitude. The AEHF system is composed of three segments: space (the satellites), ground (mission control and associated communications links) and terminals (the users). The segments will provide communications in a specified set of data rates from 75 bps to approximately 8 Mbps.

AEHF 5



AEHF 5

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2018-06-27 6:00 amEDT

communication system planning and monitoring. This segment is highly survivable, with both fixed and mobile control stations. System uplinks and crosslinks will operate in the extremely high frequency range and downlinks in the super high frequency (SHF) range. A secondary method of command and control uses the Command and Control System-Consolidated (CCS-C) and the Air Force Satellite Control Network (AFSCN). This integrated system provides backup command and control through S-band links for both Milstar and the Advanced EHF satellite systems. The terminal segment includes fixed and ground mobile terminals, ship and submarine terminals, and airborne terminals used by all of the Services and international partners (Canada, Netherlands and UK).



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