



## Atlas V to Launch the Fourth Mobile User Objective System (MUOS-4)

**Rocket/Payload:** A United Launch Alliance Atlas V 551 will launch the U.S. Navy's fourth Mobile User Objective System (MUOS-4) satellite, built by Lockheed Martin.

**Date/Site/Launch Time:** Wednesday, Sept. 2, from Space Launch Complex-41 at Cape Canaveral Air Force Station, Florida. The 44-minute launch window opens at 5:59 a.m. EDT.

**Launch Viewing:** A live stream of the launch broadcast will be available at [www.ulalaunch.com](http://www.ulalaunch.com) beginning at 5:39 a.m. EDT. The high-definition launch broadcast is also available via satellite:

- Satellite: SES 2
  - Transponder: 21
  - Band: C-Band Digital
  - Orbital Position: 87 degrees west
  - Carrier: SES Americom
  - HD Bandwidth: 18 MHz (half transponder 'AB')
  - Downlink Frequency: 4111 MHz (Horizontal)
  - Uplink Frequency: 6336 MHz (Vertical)
  - Symbol Rate: 13
  - FEC:  $\frac{3}{4}$
  - Data Rate: 17.9705
  - DVBS-QPSK
  - MPEG-2
  - AUDIO EMBEDDED
- 
- Bars and tone will begin at 5:08 a.m. EDT.

**Mission Description:** The Navy's Mobile User Objective System (MUOS) is a next-generation narrowband tactical satellite communications system designed using a combination of orbiting satellites and relay ground stations to significantly improve communications for U.S. forces on the move. MUOS will provide new beyond-line-of-sight communications capabilities, with smartphone-like simultaneous voice, video and data – to connect military users almost anywhere around the globe.

**Launch Notes:** MUOS-4 will mark the 56th Atlas V since the vehicle's inaugural launch in August 2002 and the sixth in the 551 configuration. Previous missions launched on Atlas V 551 missions include three MUOS missions as well as the New Horizons mission to Pluto and the Juno mission to Jupiter.

**Launch Updates:** To keep up to speed with updates to the launch countdown, dial the ULA launch hotline at 1-877-852-4321 or join the conversation at [www.facebook.com/ulalaunch](https://www.facebook.com/ulalaunch), [twitter.com/ulalaunch](https://twitter.com/ulalaunch) and [instagram.com/ulalaunch](https://instagram.com/ulalaunch). Hashtags: #MUOS #AtlasV

**Go Atlas! Go Centaur! Go MUOS-4!**