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Artist's concept of ACTS. On September 12, 1993, a new and soon-to-be award-winning on-ramp to the information superhighway was opened to heavy traffic: NASA launched one of the most revolutionary breakthroughs in space communications history, the Advanced Communications Technology Satellite

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(ACTS). ACTS is the first high-speed, all-digital communications satellite.

NASA - NASA FactSheet

Switchboard in the Sky. The Advanced Communications Technology Satellite (ACTS) On September 12, 1993, a new and soon-to-be award-winning on-ramp to

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the information superhighway was opened to heavy traffic: NASA launched one of the most revolutionary breakthroughs in space communications history, the Advanced Communications Technology Satellite (ACTS).

[NASA - Switchboard in the Sky](#)

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STS-51 was a Space Shuttle Discovery mission that launched the Advanced Communications Technology Satellite in September 1993. The flight also featured the deployment and retrieval of the SPAS-ORFEUS satellite and its IMAX camera, which captured spectacular footage of Discovery in space. A spacewalk was also

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performed during the mission to evaluate tools and techniques for the STS-61 Hubble Space Telescope servicing mission later that year. STS-51 was the first shuttle mission to fly a GPS receiver

[STS-51 - Wikipedia](#)

Abstract. The NASA Advanced

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Communications Technology Satellite
(ACTS) provides high risk technologies
having the potential to dramatically
enhance the capabilities of the satellite
communications industry. This
experimental satellite, which will be
launched by NASA in 1992, will furnish
the technology necessary for providing a

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range of services. Utilizing the ACTS very high gain hopping spot beam antennas with on-board routing and processing, Very Small Aperture Terminal (VSAT) digital ...

Advanced Communications Technology
Satellite (ACTS ...

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NASA's Advanced Communications
Technology Satellite (ACTS), a significant
activity of the NASA Space
Communications Program, provided for
the development and flight test of high-
risk], advanced communications satellite
technology. Using multiple spot beam
antennas and advanced on-board switching

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and processing systems, ACTS pioneered new initiatives in communications satellite technology. NASA ...

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Satellite | The IT Law ...

This project will establish the potential gains from advanced adaptive satellite

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communication technologies. Highly flexible software defined radios have been very successful in enabling a wide variety of applications in terrestrial communications. Recently, the field of networking has been revolutionised by software defined networking allowing vastly more scope to network operators to

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define new services, reduce the system cost and enable inter-operability between heterogeneous satellite ...

Advanced Satellite Communications for High Rate and ...

Advanced Extremely High Frequency is a series of communications satellites

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operated by the United States Space Force. They will be used to relay secure communications for the Armed Forces of the United States, the British Armed Forces, the Canadian Armed Forces, the Royal Netherlands Armed Forces and the Australian Defence Force. The system will consist of six satellites in geostationary

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orbits. The final satellite was launched on 26 March 2020. AEHF is backward compatible with, and will replace

[Advanced Extremely High Frequency - Wikipedia](#)

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Advanced Communications Technology Satellite High Burst ...

The NASA Advanced Communications Technology Satellite (ACTS) provides high risk technologies having the potential to dramatically enhance the capabilities of the satellite communications industry.

This experimental satellite, which will be

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launched by NASA in 1993, will furnish the technology necessary for providing a range of services.

Advanced Communications Technology Satellite (ACTS) - CORE

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A candid insider's look at the creation of the most advanced digital communications satellite of its time that sparked a revolution in the field of communications and helped spawn Ka Band systems such as Spaceway, Astrolink, Euroskyway, and others. ... readers will obtain valuable insights into the world of high-risk

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technology and the role of ...

The Advanced Communications Technology Satellite - The IET

An overview of the NASA ACTS program is presented. The key technologies of ACTS include spot beams, on-board baseband processing and routing, wide

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bandwidth (900 MHz), and Ka-band transponders. The discussion covers system description, current status of the spacecraft development, ACTS earth stations, NGS traffic terminal, USAT, land and aeronautical mobiles, high data rate and propagation ...

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Satellite (ACTS) - NASA/ADS

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Satellite (ACTS) By Ronald J. Schertler

and Richard T. Gedney. ... USAT, land

and aeronautical mobiles, high data rate

and propagation receive only terminals,

and ACTS experiments program Topics:

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SPACE COMMUNICATIONS,
SPACECRAFT COMMUNICATIONS,
COMMAND AND TRACKING . Year:
1992.

Advanced Communications Technology
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Advanced features to be incorporated into

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this experimental system include: high burst rate TDMA operations, on-board baseband and IF switching automatic rain fade detection and compensation, Ka-Band transmitter, receiver and multibeam antenna technology, and Ka-Band TT&C. NASA is encouraging business, government agencies, universities and the

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military to participate as experimenters
with the ACTS program.

Advanced Communications Technology Satellite - NASA/ADS

A satellite test bed for satellite
communications systems that (a) is a
National Aeronautics and Space

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Administration (NASA) satellite for communications experimentation, (b) is structured to validate on-orbit, high-risk systems in multiple-frequency bands for supporting NASA, other government agencies, academia, and industry, and (c) has onboard capabilities, such as (i) base-band digital ...

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advanced communications technology
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ACTS (Advanced Communications
Technology Satellite) ACTS was an
experimental NASA satellite that has
played a central role in the development
and flight-testing of technologies now

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being used on the latest generation of commercial communications satellites.

ACTS - eoPortal Directory - Satellite
Missions

In 2005, she joined ESA's Research and Technology Centre (ESTEC), Noordwijk, the Netherlands, as a communication

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system engineer in the RF payload and systems division where she focused on advanced mobile satellite communication systems design and optimization.

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