

## Advanced Communication Systems Nasa

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### Advanced Communication Systems Nasa

Advanced Communications Systems consists of the following technology projects focused on developing these technologies to enable future NASA missions. TANGA The TANGA project leverages many on-going efforts at Glenn Research Center.

### Advanced Communications Systems | Glenn Research Center | NASA

April 22, 2008. Glenn is developing architecture technologies, communication system technologies, and subsystem and component technologies to enable NASA's future missions in science and human exploration. We develop space communication architectures via commercial ventures and international forums, and we are a major supporter of extending the Internet into space.

### NASA - Space Communications | NASA

Flexible and adaptive hardware systems - Signal processing platforms, wideband and multi-band adaptive front ends for RF (particularly at S-, X-, and Ka-bands) or optical communications, and other intelligent electronics that advance or enable flexible, cognitive, and intelligent operations. The development and demonstration of advanced RF Front-Ends that cover NASA RF bands of interest; specifically S-Band, X-Band and/or Ka-Band.

### Advanced Space Communication Systems | NASA SBIR & STTR ...

The Advanced Communications Technology Satellite (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 (ACTS).

### NASA - Switchboard in the Sky

Help NASA SBIR/STTR Program Support For questions about the NASA SBIR/STTR solicitations, the proposal preparation and electronic submission process, and other program related areas, please contact the NASA SBIR/STTR Program Support Office. Phone: 301.937.0888 Email: sbir@reisystems.com NASA SBIR/STTR Program Support is available Monday through Friday from 9am to 5pm ET.

### Radiation Hard Electronics for Advanced Communication Systems

Advanced Communications Technologies in Support of NASA Mission Dr. Félix A. Miranda Communications and Intelligent Systems Division NASA Glenn Research Center, Cleveland, OH 44135 Felix.A.Miranda@nasa.gov Tel: 216.433.6589 12thEuropean Conference on Antennas and Propagation ExCeL London, UK Wednesday, April 11, 2018

### Advanced Communications Technologies in Support of NASA ...

Similar to high-speed communication known as Wi-Fi, visible light communication, is a wireless method using light-emitting diodes, referred to as Li-Fi. Light Technology Being Developed for Advanced Communications | NASA.

### Light Technology Being Developed for Advanced ... - NASA

Communications & Intelligent Systems Provides expertise, and plans, conducts and directs research and engineering development in the competency fields of advanced communications and intelligent systems technologies for applications in current and future aeronautics and space systems.

### Communications & Intelligent Systems - NASA Glenn Research ...

March 14, 2013. A new NASA-developed, laser-based space communication system will enable higher rates of satellite communications similar in capability to high-speed fiber optic networks on Earth. The space terminal for the Lunar Laser Communication Demonstration (LLCD), NASA's first high-data-rate laser communication system, was recently integrated onto the Lunar Atmosphere and Dust Environment Explorer (LADEE) spacecraft at NASA's Ames Research Center, Moffett Field, Calif. LLCD will ...

### NASA's First Laser Communication System Integrated, Ready ...

Every NASA mission has a communications system to receive commands and other information sent from Earth to the spacecraft, and to return scientific data from the spacecraft to Earth. The vast majority of deep space missions never return to Earth.

### Deep Space Communications - scienceandtechnology.jpl.nasa.gov

NASA's Space Communication and Navigation (SCaN) Space Telecommunications Radio System (STRS) project has developed an STRS architecture standard for software-defined radios (SDRs), an open architecture for NASA space and ground radios.

### STRS | Glenn Research Center | NASA

Establish current state-of-the-art (SOA) for antenna arraying technologies for ground and spacecraft systems. Provide independent assessments to the SCaN Program, of emerging technologies applied to NASA DSN and NASA ground networks. Benefits and Relevance. The focus of this effort is on Ka-band transmit antenna arraying.

### Antenna Technology | Glenn Research Center | NASA

The Advanced Communications Technology Satellite (ACTS) was a NASA technologies testbed which pioneered advancements in antenna and communication system technology and provided the first successful commercial implementation of the Ka-band spectrum. Components comprising the various communications systems onboard the ACTS satellite

### ACTS Satellite Description | NASA RF Propagation Database

S-band (duplex) microwave RF links with the Tracking and Data Relay Satellite System (TDRSS), (also referred to as the Space Network (SN)), Ka-Band (duplex) with TDRSS, L-Band (receive-only) with the Global Positioning Satellite System (GPSS).

### Communications | Glenn Research Center | NASA

RF communication takes place directly with the ground or through the TDRS. Direct communication takes place through Air Force Satellite Control Facility remote tracking station sites, also known as space-ground link system ground stations, for military missions or through STDNground stations for NASA missions.

### ORBITER COMMUNICATIONS - Kennedy Space Center

Home > Space > Space Communications and Navigation > Advanced Communications Systems > Cognitive Comm/SCaN Testbed > Payload. SCaN Testbed Systems. The SCaN Testbed, radios and infrastructure components are shown in Figure 1. ... Representative NASA Spectrum Use (300 MHz-30 GHz) (Source: NASA's Space Flight Enterprise Strategy; November, 2003.)

### SCaN Testbed Systems | Glenn Research Center | NASA

The Human Systems Integrations Division's Advanced Controls and Displays Group supports NASA-mandated goals for Exploration and Aeronautics by identifying critical design issues for safe and effective interaction and communication between humans and systems.

### Advanced Controls and Displays @ NASA Ames - Research

By the end of 1965, EARLY BIRD had provided 150 telephone "half- circuits" and 80 hours of television service. The INTELSAT II series was a slightly more capable and longer-lived version of EARLY BIRD. Much of the early use of the COMSAT/INTELSAT system was to provide circuits for the NASA Communications Network (NASCOM).