



*Statement of
Corporate Capabilities*



Corporate Overview

SatCom Scientific, Inc. (SSI) is a Florida corporation initially organized as *RF Scientific, Inc. (RFS)* in 1983 to provide products and services to the growing satellite communications and broadcast television sectors. A name change was implemented in 2007 to better reflect the broadening activities of the Company in satellite communications. These activities consist primarily of the design, manufacture, installation, and maintenance of both fixed and mobile satellite transmission ground facilities as well as the manufacture of mobile production facilities, ENG vans, and other special-purpose vehicles.

SSI is one of the longest-operating satellite communication companies in the US, engaging in an increasingly diverse customer base and widening geographic area over the past twenty years, including the continental United States and Hawaii, Central and South America, Africa, Southeast Asia, and the Middle East.

It would be safe to say that anyone in the United States watching a television set during the past few years has no doubt seen programming delivered by a network or a transmission system implemented by *SSI*. The company provided the first satellite uplink system for what is now the *CNN Network*. It has built or upgraded facilities for *Turner Broadcasting, CBS News, PTL, NBC* and many others, as well as being involved in the early planning and implementation stages of major efforts such as *Home Shopping Network, QVC Network, the Country Music Television Network, the Christian Television Network*, and others.

SatCom Scientific had its beginnings as an operations company, uplinking broadcasters using its own fleet of vehicles. The company relayed to the public the Democratic and Republican conventions, the Presidential campaigns, the Olympics, the Super Bowl, World Cup Soccer from Mexico City, the Pope's visit, and ALL space shuttle launches throughout the 1984-1994 decade. For several months, *SSI* transmitted *SHOWTIME, the MOVIE CHANNEL, and NICKELODEON* while *Viacom* was completing its facility changes. The company is no longer operating its own vehicles, but our units continue to transmit major news and entertainment events throughout the United States and the world.

The Company now concentrates exclusively on building systems for other operators and broadcasters, but the field experience of the early years of the Company has been invaluable to the current work of the design and construction of these vehicles: *SSI* is the only mobile satellite builder in the world that has also operated its own trucks, and this experience has contributed greatly to the efficiency, economy, and durability of the company's products.

Although the company has been involved in all stages of large-aperture fixed earth stations from initial design and acquisition phases through final testing and acceptance, it is best known for its production of mobile units. *SSI* is one of the few companies in the United States engaged in the design, fabrication, and integration of mobile satellite units, and only one of a handful of companies to date which has delivered non-military, commercial units which operate in multiple transmission bands.

These mobile units have ranged from standard commercial SNG (Satellite News Gathering) truck-mounted vehicles and local area ENG (Electronic News Gathering) microwave vans to very specialized platforms such as air-transportable semi-trailer platforms, gooseneck trailer units, quick-reaction compact communications trailers, special disaster recovery units, and fly-away units packaged in protective shock-mount Hardigg travel cases. The company is also a Hardigg Industries dealer, and the sole distributor of Hardigg cases in the country of China.

Since 1995, SSI has been increasingly involved in meeting the needs of the rapidly growing Chinese market, and currently has a Sales Office in Beijing, China. Since the opening of this office, SSI has become an equipment supplier to China Telecom, China Netcom, and China Unicom, the three major Chinese telecoms. In support of this work, the Com-



1.8-Meter Ku-Band Flyaway System



Delivering Ku trucks to Fuzhou, China

pany has entered into several VAR (Value-Added Reseller) and Business Partner relationships with various American manufacturers, enabling them to



7.3-meter C-Band Truck for Emergency Communications, Beijing, China



Digital TV/IDR/IBS Ku truck at Xinjiang, China

retain a competitive advantage on pricing structures both Stateside and abroad.

SSI employs a highly skilled staff whose specialty is the prototype development of tomorrow's complex communication systems today. All design, development, construction, and testing of these systems are done in Orlando, Florida, by SSI personnel. This enables our company to react quickly, and to provide cost-effective solutions to our customers.

Fixed Earth Stations

In addition to the U.S. television networks mentioned previously, **SSI** has constructed other fixed facilities both inside and outside of the United States, including a 10-meter fully redundant INTELSAT C-Band station for *Corporación TELEVEN* in Caracas, Venezuela, fixed satellite uplink and broadcast facilities for *TVB (USA's) Chinese-language "Jade" Channel* in Los Angeles, California, and a full-service television broadcast facility for China Telecom's International Earth Station in Guangzhou, China.

The Company has provided educational satellite facilities throughout the United States, constructing earth stations for learning institutions such as the *Kentucky Educational Television Network (KETV)*, *Nebraska Education Television Commission (NETV)*, *University of California at San Diego (USCD-TV)*, and the *Public School System of*



Initial QVC Uplink, West Chester, Pennsylvania

Orange County in Orlando, Florida. These earth stations are used for the delivery of instruction to remote classrooms around the country.



Guangdong Earth Station, Guangzhou, China

In 1987, **SSI** was involved in one of the most prestigious communication projects of the decade by being selected as the vendor to support NASA in relaying data provided by the Neptune Encounter of the Voyager II spacecraft. **SSI** provided and managed the link from the *National Radio Astronomy Observatory's Very Large Array (NRAO VLA)* facility in Magdalena, New Mexico to the *Jet Propulsion Laboratory* facilities near Barstow, California, throughout the near-encounter period of this space probe and the planet Venus.



Dish Farm, WCPX-TV 6 (CBS), Orlando, Florida

Recently, **SSI** designed, integrated and successfully achieved INTELSAT certification for the first high definition television uplink in China for *China Telecom* at the Guangdong International Earth Station. This project was closely followed by the first satellite-delivered international SDH network (155 Mbits/sec) in China that provided *China Telecom* with international backbone Internet communications.

Due to our long involvement in the satellite communications industry, **SSI** has gained the experience and diversity to respond to the communication needs of the future.

Transportable Earth Stations

Almost two-thirds of the Company's business is derived from the "transportable" (or "mobile platform") market. The first transportables were constructed for the Company's own use, with a small fleet of C-Band and Ku-Band trucks operating throughout the early years of the company. (One of these was the first single-piece truck unit ever designed; another was the second C-Band truck manufactured in the United States.) This rolling stock and the associated operations were spun off in later years to another company, *RF Scientific Transportables, Inc.*, and the firm's activities were focused solely on the construction of these units.



Built in 1988 and still on the road and going strong

SSI has produced a wide variety of C-Band, X-Band, Ku-Band, and Multi-Band units over the years for both domestic and international clients.



Disney-ABC "Magician"

Customized C- and Ku-Band trucks have been delivered to clients as near as *Walt Disney World* in Orlando, Florida and as far away as Senegal and the Ivory Coast in Africa and Xinjiang Province in far Western China. A telecommunications company in Argentina uses a special semi-trailer Ku-Band unit; the Sultanate of Oman ordered a two-camera satellite uplink and mobile production truck for the Ministry of Information; China operates a fleet of *SatCom Scientific* Ku-Band trucks as "Emergency Communication Vehicles."



ENG Microwave News Van



Two-Camera Ku Truck with Mobile Production Ministry of Information, Sultanate of Oman

Microwave (ENG, or Electronic News Gathering) and mobile video production units are in use by a number of clients, including *CBS* and *Fox Network* affiliates. These vehicles also contain basic edit and production capabilities for television local news reporting applications.

In 1998, the *first* all-digital satellite news-gathering vehicle was delivered to the *National Broadcasting Company*, and is now deployed at their Washington, D.C. News Bureau as the "White House" truck. This unit is primarily used to cover national political events and Presidential press conferences. It features a revolutionary new generator design which permits the truck to be parked in close proximity without producing unacceptable noise levels.



Comtech Antenna, Shelter on Gooseneck

years, the company continues to provide innovative answers to unusual situations and demanding specifications.

Two 42-foot air-transportable trailers were constructed for 7-meter multi-band antenna applications for the *Armed Forces Radio and Television Network*. These units can be airlifted by C-130 or larger military cargo aircraft and assembled on-site (three people, one day). All necessary items, including feed systems, work platforms and all tools necessary for assembly are stowed on the single trailer unit for transit.



While many of the vehicles *SSI* produces have become somewhat standard over the

Six small telephony units were built for a Middle Eastern client that featured 1.8-meter antennas mounted on GMC suburban trucks. These units are used for border patrol missions critical to the security of our allies in the Gulf Region.



Saudi Border Patrol Vehicles

A series of dual-band (C/Ku) units have been constructed for two independent U.S. operators for television SNG (satellite news gathering) work. These units are called **DUCK** trucks (**D**ual **U**plink **C** or **K**u) and were considered somewhat revolutionary when first manufactured since they were capable of broadcast quality digital video in either C-band or Ku-band. Eight units have been delivered and are currently operational. They have received wide publicity, establishing another new and innovative product for the company.



Although these units were designed for the broadcast of digital video in the two commercial satellite spectrums (C-Band and Ku-Band), the client quickly discovered they worked equally well for analog transmissions on the newer satellites, so now video modulators have been added to all of the newer units for this Client.



10-Minute Feed Change, Quick Connects



Parade of the "Ducks"

Early in 2003, the company scored another **“first”** in its industry by building and commissioning the first satellite truck capable of actively transmitting to a communications satellite while moving across both roadway surfaces and off-road terrain at speeds in excess of 50 mph. Prior to this, truck-mounted earth stations could only broadcast from a stationary (parked) position. This **“shoot-while-moving”**



“Bloom-Mobile” in California after re-painting to follow Gubernatorial Campaign convoy

“Bloom-Mobile” Leaving Kuwait City for Baghdad

vehicle, the first non-experimental satellite truck of its kind, was dubbed the **“Bloom Mobile”** in honor of David Bloom, the *NBC* reporter who used the vehicle in Iraq during *Operation Iraqi Freedom*, bringing live battlefield reports to millions of television viewers around the world. This vehicle was used all the way from Kuwait City to Baghdad by the *NBC* news team embedded with the U.S. Army Third

Mechanized Division. Since its return, this unit has been used by *NBC* in California for political campaign bus tours, and more recently for hurricane reporting in the U.S. Southeast. (*SSI* has “healed” it after each of these “encounters”.)

Several years ago *SSI* developed a small trailer for LNR Communications (now part of L-3) for use by NATO. This was a dual-axle trailer which could be pulled by most vehicles, and could be equipped for C-Band, X-Band, Ku-Band, or any combination of these (Dual-Band or Tri-Band). The tongue was removable to allow for more compact shipping, and was equipped with inter-



CMT with Antenna Stowed and Equipment Compartment closed

changeable ball-type or pintle hook hitch arrangements. Likewise, the lighting system could be configured for 12-volt (standard) or 24-volt (military) lighting systems. The original ob-



CMT with Antenna Deployed and Equipment Compartment open at rear

jective of this ruggedized vehicle was to support tactical military communications, but it has also been used for video broadcasting as well. The unit first saw service with NATO forces in Germany and Italy, and later supported NATO efforts in Bosnia.

For the CMT product, as well as other larger transportable antenna systems, a self-acquisition control system has been developed. This control subsystem allows an operator to simply push a button marked “**DEPLOY**” and then highlight the desired satellite on a display screen: the system then positions the antenna to that satellite, “*peaks up*” the antenna, and signals that the antenna is ready for use.

Recently **SSI**, in partnership with **MTN** (*Maritime Telecommunications Network*), has built a very small trailerized, completely self-contained earth station (a miniaturized version of the Compact Mobile Terminal, or “*Mini-CMT*”), providing wireless Internet and telephone services to U.S. military per-



Ku-Band Mini-CMT with Antenna Stowed, Equipment Compartment Open (*wireless version*)

sonnel in the field. The unit carries 12 laptops and 12 wireless telephones in storage compartments on both sides of the trailer. The trailer itself becomes a *Wi-Fi Hotspot*, enabling soldiers to use both wireless laptops and telephones up to ¼ mile away from the trailer and still maintain satellite connection.

In addition to this immediate application, two of these units are being used currently by FEMA for hurricane disaster relief communications connectivity.



SSI was selected by a domestic Defense Contractor to design and build a series of trailerized satellite vehicles for a specialized US Army deployment effort. Two of these vehicles have been completed and are undergoing field trials at a foreign military post.

Beta testing has now been completed, and construction will proceed on the remaining units throughout 2006.



Adjustable hitch height permits a wide variety of tow vehicles to be used



Due to an intimate knowledge of vehicle construction, innovative solutions to individual client needs, and superior after-sale service, **SSI** is the satellite vehicle builder of choice for **General Dynamics-Satcom/VertexRSI, China Telecom, National Broadcasting Corporation, Disney World**, and a variety of other major corporations and broadcasters.





APPENDIX A

SYSTEMS DELIVERED



Fixed Earth Stations Installed

(Partial List)

Home Shopping Network Clearwater, Florida	Two C-Band Earth Stations for first Home Shopping Network.
Kentucky Educational TV Lexington, Kentucky	Ku-Band Station with Five Simultaneous Carriers and Tridundant Switching Matrix from Same Antenna.
NASA Nat'l Astronomy Observatory Magdalena, New Mexico Jet Propulsion Laboratory Goldstone, California	Redundant C-Band Earth Station for Voyager II Project (Neptune Encounter). 9-meter C-Band Receive-Only System.
Nebraska Education TV Lincoln, Nebraska	C-Band Hub and Seven Remote TX/RX Sites for Distance Learning Application (Compressed Video).
Orange County Schools Orlando, Florida	Redundant Ku-Band Earth Station (Educational).
Pocono Downs Racetrack Wilkes-Barre, Pennsylvania	9-meter C-Band Earth Station for Telecast of Horse Racing.
PTL Television Network Charlotte, North Carolina	9-meter Redundant C-Band Earth Stations.
QVC Network West Chester, Pennsylvania	Two C-Band 9-meter Earth Stations for Initial Network (Follow-on Contract for Network Expansion).
TVB Holdings (USA) Los Angeles, California	Redundant Ku-Band Earth Station (<i>The Jade Channel</i>) (<i>Chinese Language Programming for US Distribution</i>)
Universal Studios Orlando, Florida	5.6-meter Redundant Ku-Band Earth Station.
University of California La Jolla, California	C-Band Earth Station for Educational Broadcasts from UCSD-TV.
WDBJ-TV (CBS) Roanoke, Virginia	Roof-Mounted Ku-Band Earth Station.



Fixed Earth Stations Installed

(Partial List)

Beijing Telecom Authority Beijing, China	Earth Station Video Equipment.
China Telecom	SDH 155Mbit/sec Backbone Network for International Internet and Telephone. HDTV Uplink, INTELSAT-Certified. 3.7-meter Ku-Band Emergency Broadcast Uplink. 2.4-meter and VSAT Network, Chengdu University, Guangzhou Earth Station (<i>Remote Classroom Network</i>)
Corporación Televen Caracas, Venezuela	Redundant INTELSAT 10-meter Earth Station (<i>TV-10</i>)
Equus Entertainment Panama City, Panama	5.5-meter Earth Station used for Transmission of Digital Video to SatMex for Hipódromo Presidente Remón Race Track. 4.5-meter Uplink, “V Centurion” Race Track, Santo Domingo, Dominican Republic, MPEG Video Uplink for Horse Racing.
WestStar Communications Grand Cayman Island, BWI	Anik 10-meter C-Band R-O Earth Station.



Transportable Units Delivered (Partial List)

Armed Forces Radio & Television Sacramento, California	Two 42-foot, 7-meter, Multi-Band Semi-Trailers. (Air Cargo Transportable, C-130)
Atlantic Telecom Boston, Massachusetts	One 5.5-meter Comtech Offsat C-Band MPEG2/DVB TV Gooseneck Trailer with RS-422 Remote Control of Transmit/Receive System.
Calhoun Satellite, Inc. Miami, Florida	One 37-foot 4.5-meter C-Band SNG Truck with Production Suite.
DBS Productions Pleasant Hill, North Carolina	One Ku-Band Mobile Production Truck.
Disney World Orlando, Florida	One Combination Ku-Band/3-Camera Production Truck (Disney "Magician").
Farlink, Inc. Cream Ridge, New Jersey	One 5.5-meter C-Band Offsat Uplink Gooseneck Trailer for Racetrack Operations.
FOX-45 TV Baltimore, Maryland	Two ENG Camera Vans (42-foot Pneumatic Masts).
GTE SpaceNet Corporation McLean, Virginia	Two 3.5-meter Ku-Band Telephony T-1 Uplink Trailers. Four 5-meter C-Band Trailers.
Hughes Communications Fillmore, California	Two Motorized, 5-meter Offsats, Trailer-Mounted.
L-3 Communications Hauppauge, New York	One Compact Mobile Terminal (CMT), Quick-Reaction Military X- Band Trailer for Use of NATO Forces in Europe.
Maritime Television Network (MTN) Miramar, Florida	One Mobile Satellite Transmitting Truck for Use by NBC in Iraq Conflict (" <i>Bloom Mobile</i> "). Two 1.8-meter Wi-Fi Trailers for Telephone and Internet Connectivity.
M.H. Sugarman Productions New York, New York	One 42-foot Redundant C-Band Video Uplink Semi-Trailer.
Missouri School Boards Columbia, Missouri	One 33-foot Redundant C-Band Video Uplink Truck for Educational Programming Delivery.
Mobile Satellite Connection Mobile, Alabama	Four 5.5-meter C-Band Offsat Uplink Gooseneck Trailers for Racetrack Operations.



Transportable Units Delivered (Partial List)

MOR-TV St. Petersburg, Florida	One Redundant C-Band Gooseneck Trailer.
National Broadcasting Corporation NBC Washington News Bureau Washington, D.C.	One 2.4-meter Ku-Band Digital TV Truck with 58-foot Microwave Mast, SNG/ENG (used for White House news coverage).
North Coast Cable, Inc. Cleveland, Ohio	One 33-foot Redundant C-Band Video Uplink Truck.
Northwest Mobile Television Kent, Washington	One 42-foot Redundant C-Band Video Uplink MEU (Multiple Event Unit) Semi-Trailer for Hawaii.
Object Sciences Corp. Alexandria, Virginia	Two 3.8-meter Multi-Band Downlinks with Fiber Optic Remote Control (for U.S. Army).
Prostar Entertainment Dallas, Texas	One 5.5-meter C-Band Truck.
Roberts Television Network Las Vegas, Nevada	Eight C-Band 5.5-meter Offsat Uplink Gooseneck Trailers for Racetrack Operations.
RSTV Knoxville, Tennessee	One 42-foot C-Band Video Uplink Semi-Trailer for Home Shopping Channel
Satellite Production Services Shooting Star Productions Tallahassee, Florida	Three 33-foot Redundant/Dual Combiner C-Band Video Uplink Trucks for Commercial Broadcast. One 2.4-meter Ku-Band SNG Truck (The "Wizard").
Schulman Mobile Video Vista, California	One Ku-Band Combination Production and Video Uplink Truck.
Sermatech, Inc. Orlando, Florida	One Satellite Trailer used to test and certify large Steam Turbines in Power Plants.
STARLINK Communications Ft. Meyers, Florida	One 30-foot Linear C-Band Gooseneck Trailer. One 2.4-meter Ku-Band and Video Production Truck. One Multi-Band, 2-Camera Production Truck.
Telecom Broadcasting Oceanside, California	Two C-Band Uplink Trucks.



Transportable Units Delivered *(Partial List)*

The Satellite Connection Burbank, California	Seven Dual-Band 2.4-meter SNG Trucks, Analog/Digital Television, C-Band/Ku-Band (D.U.C.K. Project).
The SATLINK Corporation Holland, Pennsylvania	Two Redundant C-Band Video Uplink Trucks (domestic US).
Videocom Associates Dedham, Massachusetts	Two C-Band Uplink Trucks. One 42-foot Linear C-Band Semi-Trailer.
WCPX-TV Channel 6 (CBS) Orlando, Florida	Three ENG Camera Vans (58-foot Pneumatic Masts).
WLFI-TV Lafayette, Indiana	One 42-foot Redundant C-Band Video Uplink Semi-Trailer.
WLRN-17 TV (Dade Schools) Miami, Florida	One ENG Camera Van (30-foot Pneumatic Mast).



Transportable Units Delivered

(Partial List)

Beijing Emergency Communications Beijing, China	One 7.3-meter TV/IDR Truck (INTELSAT F-3 Certified).
CANAL 9-TV Lima, Peru	One 28-foot, 3-Camera Mobile Production Truck.
China Telecom Hubei Province, China	One 3.7-meter TV/IDR Truck (INTELSAT E-2 Certified).
COMSAT-RSI Clarksburg, Maryland <i>Beijing, China</i> <i>Côte D'Ivoire</i> <i>Muscat, Oman</i> <i>Saudi Arabia</i> <i>Senegal, Africa</i>	Two 2.4-meter SNG-TV/IDR Trucks. One 35-foot C-Band Truck with 3-Camera Production Facility for Government of the Ivory Coast. One 2.4-meter Ku-Band SNG for Omani Minister of Information (2-Camera Production Truck). Six 1.8-meter Security Communication Vehicles (GMC Suburbans). One 3.7-meter C-Band/Outdoor Broadcast Truck for INTELSAT Access, Senegalese TV (5-Camera Production Truck).
Ministry of Posts and Telecommunications (MPT) Fujian PTA Fuzhou, China	Two 2.4-meter Ku-Band Trucks, MPEG-2/DVB Television Broadcast, IDR Services (INTELSAT E-1).
Ministry of Posts and Telecommunications (MPT) Guangdong PTA Guangzhou, China	Two 2.4-meter Ku-Band TV/IDR Trucks (INTELSAT E-1 Certified).
SR Telecom St. Laurent, Québec, Canada <i>Shanghai, China</i>	Two Microwave Telephony Stations with 5-meter masts.
Ministry of Posts and Telecommunications (MPT) Xinjiang PTA Ürümqi, China	Two 2.4-meter Ku-Band Trucks, MPEG-2/DVB Television Broadcast, IDR Services (INTELSAT E-1).



Fly-Away Systems Delivered *(Partial List)*

ICG Satellite Systems Miramar, Florida	One Redundant Ku-Band Earth Station Used for Disaster Recovery of Shipboard Programming.
Maritime Telecommunications Miami, Florida	One Digital Video System for Use on Cruise Ships in the Caribbean. Network
Guangdong Microwave Bureau Guangzhou, China	One 1.5-meter Ku-Band Earth Station. One 1.5-meter C-Band Earth Station. One 1.2-meter Ku-Band Earth Station.
Jiang Xi Province PTA Jiang Xi, China	One Redundant Ku-Band Earth Station. One 1.5-meter Single-Thread Ku-Band Portable Uplink.
Jilin Province PTA Jilin, China	One Redundant Ku-Band Earth Station.
Meridiano Tv Caracas, Venezuela	One Ku-Band Earth Station.



APPENDIX B

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