



MORCOM Weather Information Systems

About MORCOM International, Inc.

Established in 1984, MORCOM INTERNATIONAL, INC. has provided a broad range of services to the government and commercial marketplace. MORCOM is a strong, stable, and reputable company with the resources, proven management, leadership ability, and corporate commitment to provide a variety of high-technology products and services to our clients.

MORCOM specializes in the sale of communications and weather information equipment and systems that are critical to air and ocean navigation, disaster prevention, weather forecasting and homeland security activities.

The following examples illustrate the types of systems that we supply:

- High Resolution GVAR, HRPT, DCS and LRIT satellite data receiving systems
- WAFS/ISCS workstations and complete systems
- ATIS systems
- Complete Systems for Meteorological Data Fusion and Forecasting
- NAVTEX and Weatherfax receivers

MORCOM is not just a supplier of hardware; our company also offers services such as Information Systems Development, Infrastructure Planning, Network Management and Operations, Radio Communications Systems design, installation, training, and support.

Headquartered in Chantilly, Virginia, MORCOM INTERNATIONAL, INC. is certified as an 8(a) company by the SBA. This certification offers quick access to our goods and services for government and military buyers.

Weather Satellite Ground Systems

MORCOM offers a complete line of satellite acquisition and processing system for the real-time reception and display of the polar (POES) and geostationary (GOES) satellites, high-resolution images. The systems are PC-based and operate in an interactive graphics environment. The systems provide capability for tracking and receiving the signals of the NOAA satellites (versions are available for reception of other orbiting satellite transmissions). This equipment is ideal for tracking localized weather systems and viewing meteorological developments accurately. The hardware is all integrated into a single high-quality PC-type workstation running Windows and other operating systems.

WAFS/ISCS Terminals

Civil Aviation Authorities and weather organizations now have a valuable tool to use for weather forecasting. WAFS is a system for the worldwide broadcast of aviation related weather information via satellite. It is a joint effort of the International Civil Aviation Organization (ICAO), the U.S. Federal Aviation Administration (FAA), NOAA/National Weather Service (NWS), with additional contributions from the World Meteorological Organization (WMO), the United Kingdom, Finland, and Canada. The WAFS global satellite broadcasts have been operational since 1996. It provides a considerable number of valuable information and products such as GRIB Data, T4 Coded charts, OPMET, SPECI, TAF, and SIGMET messages, Satellite images, and BUFR data.

We offer complete WAFS/ISCS solutions. Our systems have been supplied as replacements for existing STAR-4 terminals, or as completely integrated solutions including the VSAT receiving equipment, the workstation, and the processing software.

MORCOM has more than 10 years of experience installing and supporting WAFS terminals. We have been actively engaged in the migration of the original X.25 workstations to the current TCP/IP network and we are prepared to continue updating our systems as NOAA and WMO plan and deploy future changes and updates.

Complete Systems

Government and private organizations around the world rely on timely and accurate data for weather forecasting of significant phenomena. In today's world Climate Change has to be taken very seriously to ensure the safety of the population and production centers. At the same time, meteorological events have to be tracked precisely and significant data has to be extracted and distributed to key assets for national defense.

MORCOM has designed, installed and commissioned Complete Weather Data Communications and Forecasting Systems to various government organizations. Such Systems are designed in a case by case basis and may include meteorological messages switching systems (MSS), forecaster workstations, weather alert systems (Hurricane, Tsunami, Flooding etc.), and the means to distribute weather information to the public and the media.

Typically, Complete Systems will include a data ingestion component, a communications component, and a processing component. Therefore, these systems will integrate two or more of the individual product solutions we offer.

ATIS Systems

ATIS refers to Automatic Terminal Information Service. This service which is used in most high traffic airports, is used to automatically transmit to the aircraft recorded non-control information. Its purpose is to improve controller effectiveness and to relieve frequency congestion by automating the repetitive transmission of essential but routine information related to air navigation. In line with our other offerings for the weather aviation user, MORCOM has made available our exclusive E.ATIS system.

The E.ATIS is a state-of-the-art automatic system that converts selected meteorological products and air traffic control information into human speech. E.ATIS uses the most modern technology in software and communication to ensure all the characteristics necessary for error free operation in the Airport environment.

E.ATIS primary purpose is to convert ATIS (VOLMET) messages, generated from a variety of sources, into clear and concise human speech for distribution to aircraft and ground stations.

Marine Weather

In 2000 MORCOM acquired the ALDEN brand. Since then MORCOM has introduced several new NAVTEX receivers for shipboard use and a PC-based Marine-fax receiver that allows the user to receive weatherfax, Navtex, RTTY, and DSC transmissions made over the HF band. Complete shore based or ship-board systems can be designed and built for custom applications like Tsunami Warnings, production of detailed Marine Weather Forecasts, etc.



Technical Service

Our job does not conclude at delivery. MORCOM takes pride in making available to its customers a comprehensive range of technical support options. From installation, telephone assistance, to after sales support services, we make sure that the customer is always satisfied with the investment made. When training of the end user is desired, MORCOM can arrange for on-site operator and maintenance training. Make sure to request these options when contacting us for a quote.

