DIGICOMP RESEARCH

Discover the advantages of Digicomp's

Air Surveillance and Control Systems (ASAC)

Digicomp has developed the Air Surveillance Control System (ASAC), a system with a rich set of functions for use in air surveillance, ground control intercept, and area control operations. The ASAC is built on an open architecture, is fully distributed, using new algorithms and a new paradigm for building C2 systems. The ASAC has proven to be powerful, reliable, robust, and flexible. Digicomp's ASAC program has resulted in operational systems now fielded at over 20 locations in the US, Puerto Rico, Canada, and Eastern Europe.

- Exploits a wide variety of industry-standard tools and techniques to increase function, reduce costs, and improve reliability
- Hosted on an open computing platform: an internet of inexpensive, widely used, multiprocessors
- Comprehensive set of reusable components that can cost effectively be combined and extended to generate new systems or add new functions to existing ones.

User	Site	Location	Seats	Interfaces
81st TSS	Tyndall AFB	Florida	35	3 radars, sea surveillance, GRDCS, TADIL J
2nd ROPS	Vandenberg AFB	California	7	10 radars
Air National Guard ACS and ADS	Multiple Sites	U.S. and Puerto Rico	2-10	4 radars
Air National Guard Bombing Ranges	Multiple Sites	United States	1	2 radars
Canadian Forces School of Aerospace Control Operations	NAV Canada	Ontario, Canada	26	30 radars
Eastern Europe (under subcontract from LM)	Multiple sites	Poland, Czech Republic, Hungary, Romania, Slovakia, Slovenia, Estonia, Latvia, Lithuania, Bulgaria	15 per site	Up to 36 radars per site

Digicomp's corporate resume . . .

a diverse background of military application development, testing, and analysis.

81st TSS, Wetstone Control Facility supports simultaneous ACT/DACT and WSEP missions

Our commitment to a genuine team relationship with out customers always leads to successful programs and products the user finds a pleasure to own. We boast a comprehensive suite of capabilities including:

- Radar performance and tracking
- Graphical user-interface design
- User training and documentation
- Successful risk reduction techniques
- Configuration management processes
- Network application development
- Multi-language programming and integration
- Integration of diverse computing hardware
- Formal test planning, documentation, and execution
- Software development using military and commercial

Air-to Air Combat Ground Control Intercepts	Most of our customers takes advantage of the ASAC's GCI capabilities when training new air combat forces. These same features are used extensively during multi-unit events such as Kingsley Field's Sentry Eagle and Tyndall AFB's William Tell competitions.
Airspace Monitoring	The ASAC provides tools for managing the airspaces in stationary air defense centers, CONUS based air to ground ranges, and mobile tactical units. Features include non-squawker detection, restricted are spill-in alerts, and identification management. The ASAC is used in this capacity by the Air National Guard and the Air Sovereignty Operations Centers in Eastern Europe.
Air Weapons Training	The Canadian Forces School of Aerospace Control Operations uses the ASAC's extensive simulation features to train both air weapons controllers. The students are taught close, broadcast, and tactical control in preparation for their assignments to the North Bay underground complex. These same features are available at all our other sites, supporting the training of new personnel and the routine certification required for some positions.
Weapons Evaluation Operational Safety	Since 1994, the 81st RCS at Tyndall AFB's Wetstone Control has been using the ASAC to perform weapons evaluation operations and safety tasks. Data from their surveillance radars is integrated with sea surveillance (from the E9/A), drone data (from the Gulf Range Drone Control System), and missile status (from the Warhead Telemetry Monitoring System). The Wetstone controllers use this data to create the shoot tracks and safety regions to support weapons evaluation. The ASAC also provides cutoff and stern intercept features for close control of the fighters into the launch position.
Incident Investigation	The ASAC's Complete Air Picture replay and data recording and analysis tools are being used by several of our installations to investigate mishaps in their airspaces. These systems have also come to the attention of various FAA and NTSB field offices and have been used in investigating air disasters.
Missile Launch Safety	The Western Range launch facilities use the ASAC to create and manage the launch windows for Minuteman, DELTA II, ATLAS, Peacekeepers, Pegasus, and Titan missions. ASAC's region management and predict-ahead vector capabilities can detect and manage intruders attempting to cross into the fall-out/safety areas for these rockets.

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