



CCT PROJECT SPOTLIGHT

LAUNCH AND RANGE TECHNOLOGY

Range Data Acquisition

Wallops Island, VA

Engineers at NASA's Wallops Flight Facility in Virginia are upgrading the range data acquisition and control infrastructure for the nation's leading suborbital launch range. Wallops' existing Range Data Acquisition Computer system known as RADAC processes flight-tracking data for the Wallops Range Control Center and vans. Launch operators rely on RADAC data to make real-time flight termination decisions, monitor and track spacecraft, identify recovery locations, and other mission critical operations for suborbital rockets, missiles, remotely piloted vehicles, aircraft, balloons, and satellites.

As part of NASA's Advanced Range Technology Initiative (<http://www.wff.nasa.gov/~arti/>), the new RADAC system will support current and future launches with smaller operations staff while improving safety and reducing cost. The system will process incoming vehicle and atmospheric data in specialized radar data

formats in a manner that provides faster translation of radar and telemetry information to controllers.

Wallops' Real-Time software engineering branch purchased CCT's commercial RangeNet™ launch range software for the RADAC upgrade. RangeNet™ is the only commercial range safety and operations software that provides real-time impact prediction, range safety decision support and real-time data display. Combined



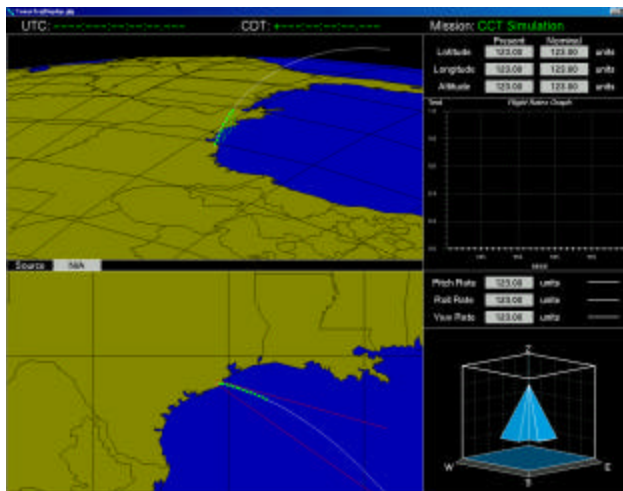
NASA's Wallops Flight Facility is the nation's leading suborbital launch range

with the Command and Control Toolkit,™



RADAR instrumentation at the Wallops Flight Facility in Virginia tracks suborbital launch vehicles and aircraft.

RangeNet™ supports multiple data source types and integration of site-specific data filtering algorithms. The software reduces operator workload through advanced graphics and automation and reduces maintenance and sustaining costs by shifting the support burden to a COTS maintenance arrangement.



Originally developed to streamline range operations at a new commercial spaceport, the RangeNet™ software program provides the basic range safety programs needed to operate and control a commercial launch range.

RangeNet™ supports mission and trajectory flight planning, instantaneous impact prediction calculations, present position determination, and other range safety functions. CCTK will also be used for a universal data acquisition server and a wind weighting system to be deployed at Poker Flats Test Range in Alaska. Together, these applications form a unified architecture for Wallops' range decision support tools. For more information on RangeNet™ see <http://www.cctcorp.com/rangenet.htm>.

See <http://www.wff.nasa.gov/~RADAC/> for more information on the RADAC project.

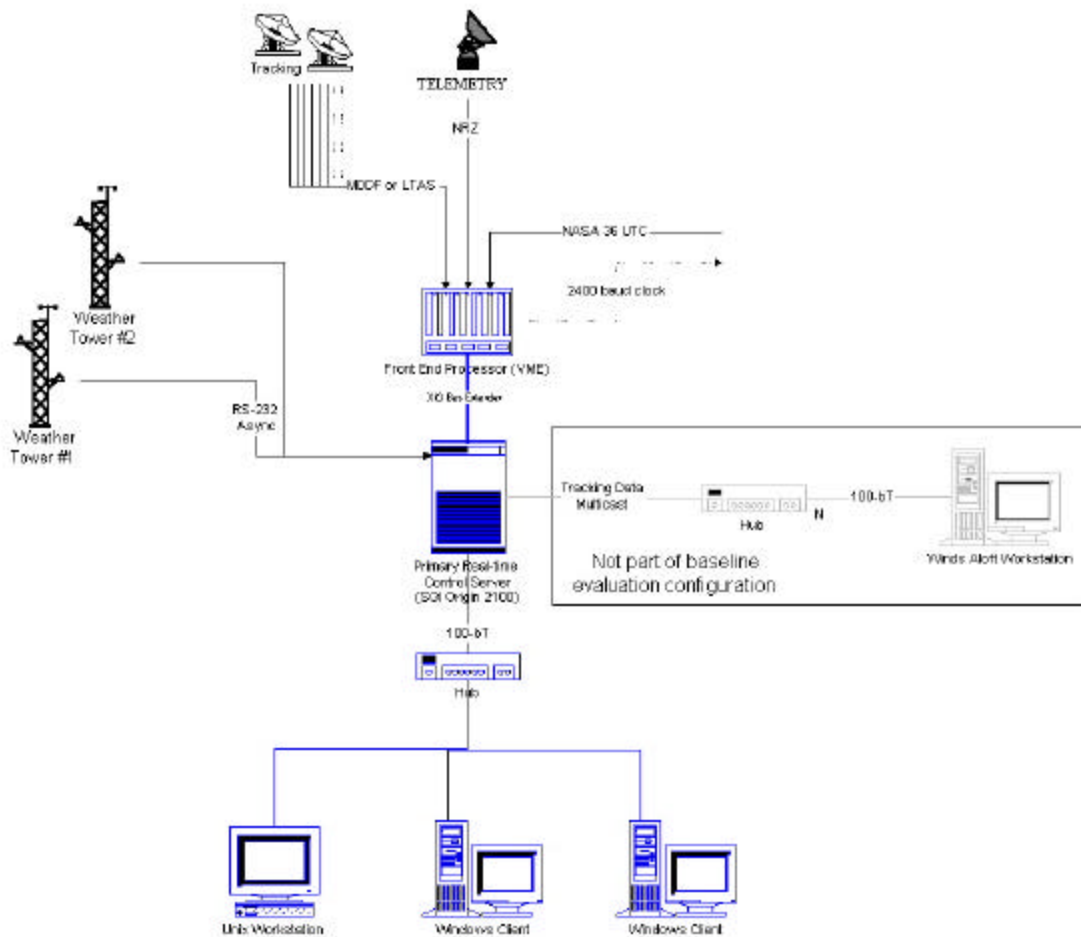
Command and Control Technologies Corporation specializes in launch site automation for government and commercial space programs. CCT provides turnkey

solutions and software tools for creating custom systems.



CCT software supports fixed and mobile communications assets with a single integrated solution.

Visit our web site at www.cctcorp.com, e-mail us at info@cctcorp.com, or contact Kevin Brown at (321) 264-1193 for more information.



The RADAC system architecture illustrates how CCTK forms the core of a simple but powerful system that accepts and integrates real-time data from various sources like weather sensors, telemetry, and tracking radar's with COTS hardware and software.