

# **VISUAL COMPUTING NETWORK**

## **I. Objectives/Missions**

- A. To enhance existing mission capabilities, CAP will implement the use of a nationwide Visual Computing Network (VCN). CAP will use the VCN to support mission familiarization, day/night situational awareness, command and control and training for flight and ground operations.

## **II. System Concept**

- A. The VCN will be comprised of laptop computers loaded with commercial off-the-shelf (COTS) visualization software along with 30-15 meter satellite imagery and maps/aeronautical charts. The VCN will provide CAP with a common viewing platform system wide.

## **III. System Component Requirements**

- A. Laptop computers and printers for each wing
- B. Software for Laptops
  - 1. COTS visualization software to view georectified satellite imagery and maps in 2D and 3D overlaid on digital terrain elevation data.
  - 2. Day/night viewing capabilities for mission rehearsal and situational awareness.
  - 3. Latitude and longitude positioning data.
  - 4. Software capable of inserting and overlaying standard CAP search grids on it.
- C. Satellite Imagery
  - 1. One complete set of recent 30-15 meter satellite imagery georectified on digital terrain elevation data (DTED). The satellite imagery data file must be broken down and put on CD by each state(Wing), Washington, DC and Puerto Rico. Wing borders for the satellite imagery must have at least a 25-mile overlap.
  - 2. Maps and aeronautical charts georectified on digital terrain data to correspond with the satellite imagery for each wing on CD.
  - 3. Imagery format to be GeoTIFF.

## **IV. Logistics and Support**

- A. The contractor will integrate all elements of the VCN for delivery to CAP.
- B. The contractor will conduct regional training seminars and will include all manuals and training materials.