



Sector Operation Center (SOC)

SOC is the intelligence, surveillance and reconnaissance division at the combined air operation center that provides a common threats and targeting picture that are key to planning and executing theater wide aerospace operations to meet the combined forces air component commanders' objectives.

Features of SOC System

- aProducing real time air pictures by combining target track information from various distributed sensors (sensor fusion)
- aReal-time monitoring of the airspace utilizing digital maps
- aDistributing air pictures to the weapon systems
- aDistributing air pictures to other command and control centers
- aTarget identification utilizing IFF systems at radars
- aVarious analysis tools over digital maps observing and sharing the position operational states and equipment information of system units
- aPreparation of simulation scenarios for training of system operators record and replay functions
- aDefining and distributing airspace control orders and battlefield geometries for the control of air space
- aCompatibility with military standards
- aOpen system architectures compatible with modern sensors and weapon systems, and technological upgrades

System Architecture

A state-of-the-art SOC system basically comprises the following units:

- aInterfaces to the sensors systems
These units provide interfaces to the radars that detect and track target
- aInterfaces to the weapon systems
These units provide interfaces to the weapon systems that take necessary actions against airborne threats
- aInterfaces to the other command control systems