

# SAMCOS

## Surface to Air Missile Command & Control System



Surface to Air Defence Systems are deployed around the world in both tactical and fixed configurations. Many of these systems use voice communications to carry out command and control of the weapons system.

**SAMCOS** interfaces to sensor and C4I systems for target acquisition and then disseminates the track data to the weapon systems, to the air defence command centre and if required to higher echelon systems.

Multiple radar track data is correlated by SAMCOS to provide a unified tactical view of the battle space known as the common operating picture (COP).

**SAMCOS** allows the command staff to view all weapon assets and their status as well as the real time tactical situation. Commands can be injected to instruct a weapon to engage specific targets. The status of an engagement is clearly displayed at all levels throughout the whole engagement cycle. In addition, air raid warning and defcon can be entered and disseminated to all levels.

**SAMCOS** Integrates ground based air defence assets to provide rapid reaction against detected air threats.

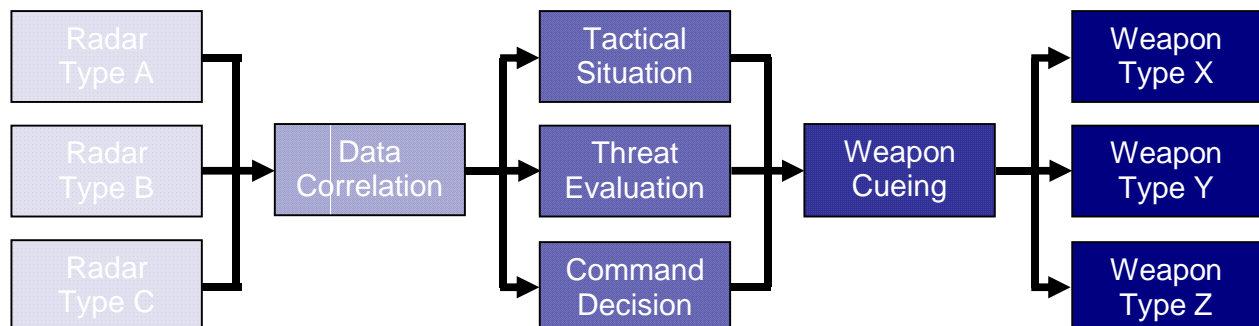
It is a vital component in providing effective defence of high value assets against air attack.

By correlating radar data from multiple sources, **SAMCOS** is able to react quickly to evaluate the threat and recommend the best course of action.

Each weapons system has a **SAMCOS Fire Control Unit (FCU)** that displays the tactical situation in an easy to understand and operate format.

The weapons system operator enters into their FCU their current readiness and engagement status. Commands received at the FCU are prominently displayed enabling the user to wilco/cantco the command. An audible alarm is used for certain received commands and alert states.

When an engagement is commenced the FCU will audibly instruct the weapons operator the location of the target. If an interface is available, the FCU can be directly connected to the weapon to provide automatic target location information.



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## Surface to Air Missile Command & Control System

- Positive and Procedural control
- Conforms to NATO doctrine
- Automatic Threat Evaluation
- Automatic Weapons Allocation
- Simulation
- Record/replay of live and simulated data
- Customizable to any language

### SAMCOS Sensor Interfaces:

Giraffe 40 Radar  
TPS70/72 Radar  
International Data Link  
Unclassified Data Link

Extensive trials have been carried out with the Giraffe 40 Radar.

Customisable to accept any track data source.

### SAMCOS C2 features:

Full Tactical COP (Common Operating Picture) Display.  
*The tactical situation can be displayed & overlaid against any type of background map.*  
Military Symbol Set.  
Simulation  
Record and Replay  
FCU Readiness  
*Tote Displays in the SAM Operation's room keep the Commander updated with FCU Status and activity.*

Weapon availability and engagement status is continually updated.

The FCU Status Tote also allows for changes to Weapon Control Orders of Weapons Free, Weapons Tight and Weapons Hold.

Automatic Threat Evaluation and Weapons Allocation.



### SAMCOS FCU features:

Full Tactical COP (Common Operating Picture)  
Military Symbol Set  
Mil Std 2525B is supplied as default symbol set  
Customised icons available  
Directional icons available  
Record and Replay  
Simulation  
GPS for Tactical Units

Sunlight readable ruggedized touch screen laptop PC

The FCU PC can be interfaced with laser range finding binoculars. This allows the FCUs to input track data in the event of no radar data being available.



- ✓ SAMCOS is an **affordable** solution to your defence requirements
- ✓ Full training provided
- ✓ We can also offer an ongoing troubleshooting and support service
- ✓ Can be integrated into new or existing Surface to Air Missile Defence Systems
- ✓ System developed with the support and cooperation of the Royal Thai Air Force, where it is now in service
- ✓ SAMCOS can be extended for use in the Forward Observer or Forward Air Controller roles.



Shaw Defence Systems Limited  
Cedar Lodge, Culbokie, Dingwall, Ross-Shire, IV7 8JP  
[info@shawdefence.com](mailto:info@shawdefence.com) [www.shawdefence.com](http://www.shawdefence.com)  
Tel: +44 (0)1349 877019