



**indra**

SECURITY AND DEFENSE

# **AIR DEFENSE ARTILLERY OPERATIONS CENTRE**

Security and defense in five continents

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# AIR DEFENSE ARTILLERY OPERATIONS CENTRE



More control and security at the operations centre

## The backbone of Air Defense Artillery

COAAAS is the backbone of Air Defense Artillery (ADA) Command Post (CP) that permits an ADA commander to perform engagement operations and to control medium, low and very low range weapon systems, against the air threat.

COAAAS can be adapted to operate in different scenarios and to obtain the desired control capability for vital point/ area defense or manoeuvre unit defense, as it has different configurations:

**COAAASL (COAAAS Light)** that permits the control of low and very low range weapon systems.

**COAAASM (COAAAS Medium)** to control both:

- Medium, low and very low range weapon systems.
- Medium range weapon systems and control systems for low and very low range weapon systems.

## COAAASM characteristics

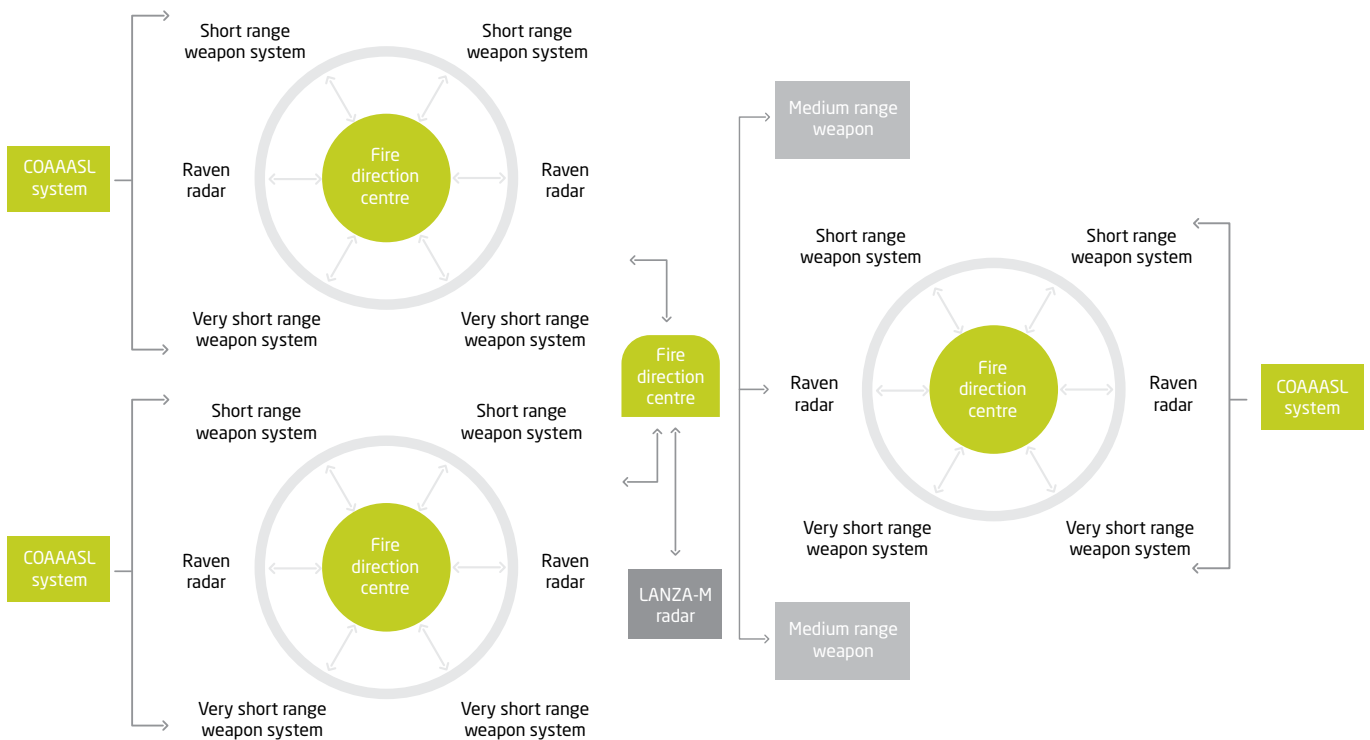
The COAAASM is a medium (MSAMS) low and very low altitude (SHORADS) weapons control system, configured in such a way as to achieve the anti aircraft defense of a key point or area.

In the area defense configuration, the COAAASM is capable of controlling medium altitude weapons, control systems (MSAMS) and surveillance and control systems (COAAASL) which, in turn, control low and very low altitude weapons systems (SHORADS).

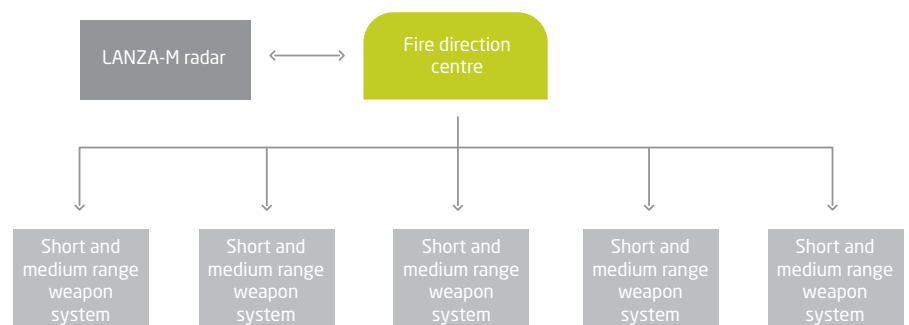
It also can control exclusively medium altitude weapons systems (MSAMS).

In the key point defense configuration, the COAAASM controls medium (MSAMS), low and very low altitude (SHORADS) weapons systems, in a direct way.

## COAAASM divisional group



## COAAASM defense unit



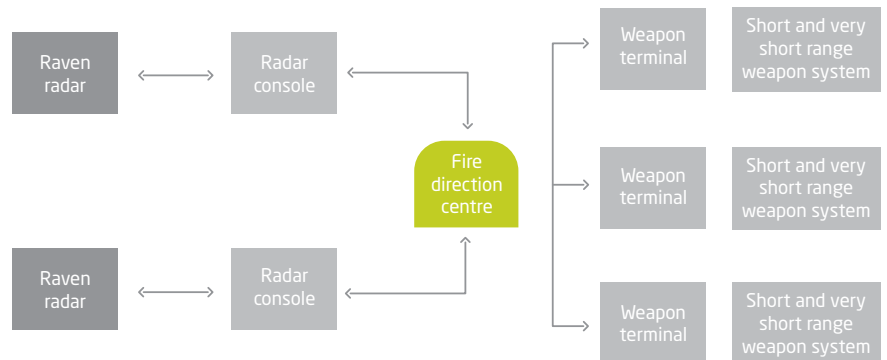
## COAAASL characteristics

The COAAASL is a system for the surveillance and control of low and very low altitude weapons systems (SHORADS) configured in such a way as to achieve the anti aircraft defense of a brigade, providing early warning and aiming at missile launcher systems. It can be adapted to any SHORADS weapons system.

Amongst its most important tasks are:

- To use its own surveillance system, providing an immediate reaction to air attacks.
- To control and coordinate the missile systems in a positive way and/or following the procedure.
- To evaluate the threat and assign weapons.
- Integration with Higher AAA Command Posts (COAAASM) or collateral ones (another COAAASL)
- To provide the anti aircraft artillery commander assistance in the efficient redeployment of weapons and sensors based on digitised maps.
- Control systems for low and very low range weapon systems.

## COAAASL characteristics



## Technical characteristics

### Surveillance 2D "Raven"

Continuous wave, frequency modulated  
Low radiated power  
Including the IFF/SIF

### COAAASL's FDC

Located in the S-250E shelter  
High resolution graphic display  
Communications centre of the combat radio network

### WT

Reduced size  
Extreme atmospheric conditions  
Graphic display of the air space

### COAAASM's FDC

Located in the NATO-2 shelter  
High resolution graphic display  
Two consoles  
Communications centre of the radio combat area radio network



COAAASL Fire direction centre



COAAASL Raven radar



ISO 9001:2000



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