

# India's Multilayered Air Defence Shield Explained: IACCS, Akashteer and More

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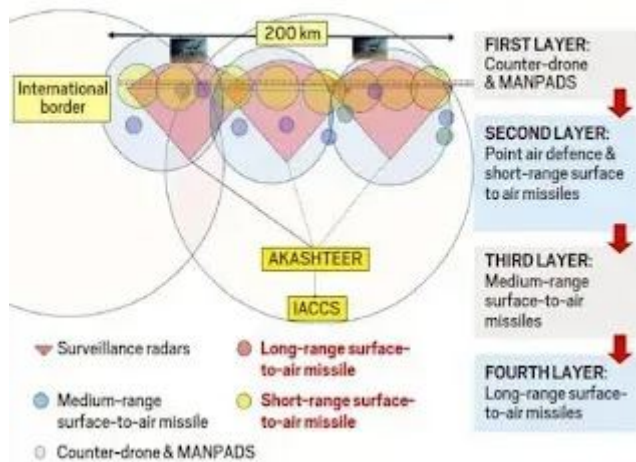
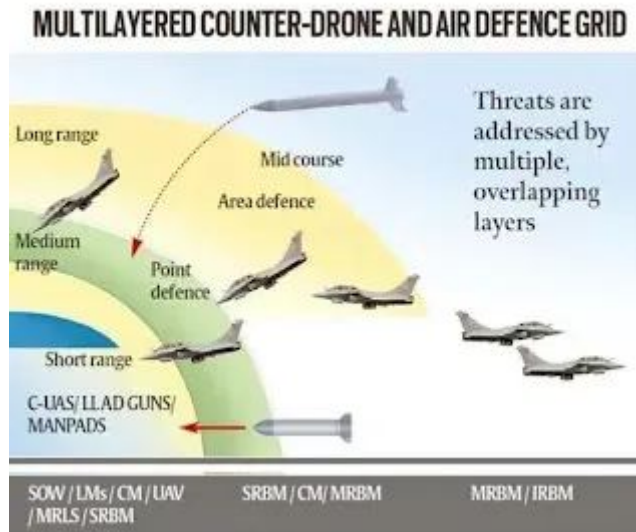


## What's in Today's Article?

- India's Air Defence System Latest News
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## India's Air Defence System Latest News

- During a media briefing on Operation Sindoor, the IAF showcased its Integrated Air Command and Control System (IACCS), which provides a real-time feed of India's air defence operations.
- This system integrates radar, control centres, fighter jets, and ground-based defences to protect against aerial threats like enemy aircraft, drones, and missiles.



## The IAF's Integrated Air Command and Control System (IACCS)

- IACCS is an automated command and control system developed by Bharat Electronics Limited (BEL) for the Indian Air Force.
- It integrates data from various air defence sources, including ground and airborne radars, civilian radar systems, communication nodes, and command centres.

## Real-Time Situational Awareness

- The system provides real-time updates and a consolidated dataset to commanders at multiple levels.
- This ensures comprehensive situational awareness during air operations and enhances decision-making in response to aerial threats.

## Command Structure and Execution

- IACCS supports central control with decentralised execution, enabling swift identification and response to threats.
- It helps reduce reaction time and allows commanders to deploy air defence assets effectively.

## Enhanced Airspace Management

- Overlapping radar and radio coverage within IACCS ensures efficient airspace monitoring and reduces system redundancy, leading to better coordination and control of air defence operations.

## The Army's Akashteer System

- Akashteer is the Indian Army's air defence control and reporting system, designed to connect and coordinate its air defence units.
- It enables monitoring of low-level airspace over battle zones and controls ground-based air defence weapon systems.

## Development

- Akashteer has been developed by Bharat Electronics Limited (BEL).

## Integration with IAF Systems

- Currently operating on a smaller scale, Akashteer is being integrated with the Indian Air Force's IACCS to ensure seamless coordination between Army and Air Force air defence operations.

## Multilayered Air Defence Umbrella

- The Indian military employs a multi-layered air defence system, combining various assets to detect and neutralise aerial threats at different ranges and altitudes.

## Key Components

- **Point Defence:** Includes low-level air defence guns and shoulder-fired weapons.
- **Aerial Defence:** Comprises fighter aircraft and long-range missiles.
- **Surveillance Grid:** Utilises ground-based radars and airborne systems like (Airborne Warning and Control System) and AEW&C (Airborne Early Warning & Control) Systems, all integrated into the IACCS for real-time tracking and interception.

## Four Defence Layers Explained

- **Layer 1:** Counter-drone systems and MANPADS(Man-Portable Air Defence Systems).
- **Layer 2:** Point air defence and short-range surface-to-air missiles (SR-SAM).
- **Layer 3:** Medium-range surface-to-air missiles (MR-SAM).
- **Layer 4:** Long-range surface-to-air missiles (LR-SAM).

## Future of IACCS

- **Expanded Integration of Defence Assets**
  - The IAF has bolstered its air defence by deploying more radars and Surface to Air Guided Weapon (SAGW) systems, all integrated into the IACCS network at key sensitive bases.
- **Towards Tri-Service Coordination**

- With the increasing complexity of modern warfare, IACCS will be pivotal in integrating air defence assets across the Army, Navy, and Air Force for a unified and coordinated response.

- **Embracing Advanced Technologies**

- Future upgrades to IACCS will incorporate cutting-edge technologies like artificial intelligence for real-time threat analysis and enhanced situational awareness.

## India's Air Defence System FAQs

**Q1.** What is IACCS in India's defence system?

**Ans.** IACCS is an automated air command and control system integrating radar, aircraft, and defences for real-time situational awareness.

**Q2.** What does Akashteer system do?

**Ans.** Akashteer links Army's air defence units, enabling control and coordination in low-level airspace during battlefield operations.

**Q3.** How does India manage air threats?

**Ans.** India uses a multilayered air defence setup, integrating drones, radars, missiles, and fighter jets to detect and neutralize threats.

**Q4.** What are the four layers of India's air defence?

**Ans.** India's air defence includes counter-drone systems, SR-SAMs, MR-SAMs, and LR-SAMs for full-range aerial threat coverage.

**Q5.** How will IACCS evolve in the future?

**Ans.** Future upgrades will integrate AI and expand tri-service coordination for faster, tech-driven responses to complex aerial threats.

**Source:** IE

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Source: <https://vajiramandravi.com/current-affairs/indias-multilayered-air-defence-shield-explained-iaccs-akashteer/>

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