

Military Airborne Collision Avoidance Systems (ACAS) Market to Grow at a 5% CAGR Forecast to 2022

Military Airborne Collision Avoidance Systems (ACAS) Global Market 2016 Analysis and Forecast to 2022

PUNE, INDIA, September 14, 2016 /EINPresswire.com/ -- The Global [Military Airborne Collision Avoidance Systems](#) (ACAS) market is expected to grow at a compound annual growth rate of around 5% in the forecast period. ACAS is a sophisticated system which when equipped in the aircraft, enhances the situational awareness by monitoring the environment for obstacles and providing with the necessary solution in case of threat. ACAS mainly has four main components: airborne surveillance, safety logic, vertical advisories, and a pilot interface. In scenario of potential collision, ACAS alerts the pilot and ground control station with visual display and audible warnings.

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As the small unmanned flight replace the manned aircraft systems, the need for airborne collision systems will increase. In an unmanned aircraft the pilot is completely dependent on visual inputs that are provided from the gadgets and avionics on board the aircraft. The in aircraft collision avoidance system is the only possible solution for the pilot to maintain safety distance between a swarm of UAVs.

The current airborne collision avoidance systems incorporate Traffic Alert and Collision Avoidance System (TCAS) for avoiding mid-air collision. One of the drivers for global military ACAS market is the increasing need to enhance operational safety of military aircraft. Military aircraft operate in dangerous and remote environments. Mid-air collision (MAC) is one of the most hazardous consequences for military aircraft. This risk can be reduced by enhancing the situational awareness of the pilot. ACAS helps the pilot to ensure that the aircraft in not flown in proximity to other aircraft, thereby avoiding the danger of collision. ACAS for military UAVs are also in high demand as they are employed for longer-range and beyond the line-of-sight missions.

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The current airborne collision avoidance systems are good for avoiding collisions when the aircrafts are located at large distances that are manoeuvrable and at low speeds. Military aircraft will need a better airborne collision avoidance system that is more sensor based and automated, requiring less actions form pilot, and capable of operating at high speed (two to three times the speed of sound) movements and at relatively close combat formation. ACAS-X is one such general approach that is under development today and will see implementation in the multirole manned fighters soon, followed by operational support for UAVs.

Geographically, the North American region will be biggest market for military airborne collision avoidance systems in the forecast period. In Europe, Italy, United Kingdom and Germany will be the major markets for airborne collision avoidance systems. In the Asia Pacific region, Russia, India, Australia and China will be the major markets driving demand for military airborne

collision avoidance system.

Honeywell Aerospace, Aviation Communication & Surveillance Systems, and Rockwell Collins are the key players in the market. These companies hold 70-80% of the global market for military airborne collision avoidance systems. The Market is segmented by Type (RADAR, TCAS, PCAS, FLARM, GPWS, TAWS, Synthetic Vision and OCAS) and Geography - Market forecast and Analysis (2015-2020)

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