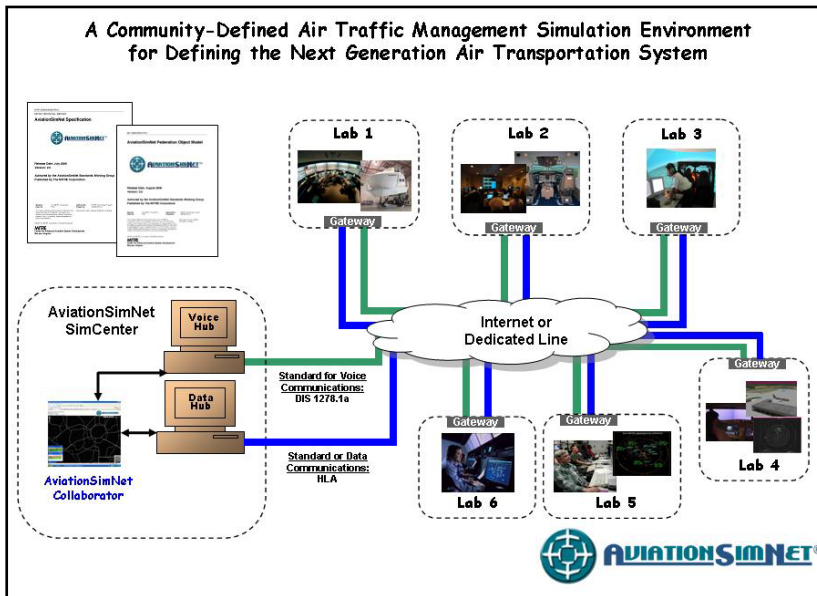




AviationSimNet®

Widely acknowledged as an effective way to study many air traffic management (ATM) issues, real-time human-in-the-loop simulations can now be greatly enhanced with a flexible laboratory networking system that allows faster, easier, and more productive collaboration.

Aviation Administration, Lockheed Martin Transportation and Security Solutions, MITRE/CAASD, National Aeronautics and Space Administration (NASA) Ames Research Center, NASA Langley Research Center, Raytheon, and UPS.



Cuts Costs, Time, and Risks. Because it allows labs with complementary areas of expertise to collaborate, AviationSimNet can add a new dimension to any ATM study. Using standard internet-based technology and High Level Architecture (HLA) to leverage the combined lab capabilities of multiple organizations, users can:

- Enable distributed concept evaluation
- Work across the aviation community
- Specify standards for interoperability and flexibility
- Use the power of the public Internet

Participants all over the globe can use this environment to better leverage their mutual simulation capabilities and perform a wide range of critical cross-system ATM studies of new concepts, technologies, and procedures.

AviationSimNet® is a real-time ATM simulation network using standard internet technology. It is a software environment that enables ATM simulation labs anywhere on the global Internet to integrate and work together simultaneously. Developed by The MITRE Corporation's Center for Advanced Aviation System Development (MITRE/CAASD) and implemented across the aviation community, this software system facilitates worldwide collaboration of real-time human-in-the-loop ATM simulation. This environment for simulating air traffic voice and data communications bridges MITRE/CAASD's ATM laboratories with other aviation laboratories across government, industry, and academia to enable distributed evaluation concepts.

Reusable, Reconfigurable and Secure.

AviationSimNet is a reusable, reconfigurable, collaborative, simulation environment. It is designed to efficiently and securely bridge aviation capabilities over the Internet. It does not require organizations to expose their internal networks and simulations. Instead, it uses a central HLA Run Time Infrastructure component housed on a publicly-accessible hub to connect and communicate data with other labs. The voice network supports an unlimited number of controllers, pilots, and frequencies and provides for pilots to dynamically change frequencies during all phases of flight.

AviationSimNet Participants: Air Line Pilots Association, The Boeing corporation, Center for Applied ATM Research at Embry-Riddle Aeronautical University, Crown Consulting, Eurocontrol, Federal

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