

NNX11CG88P - A Robust Separation Assurance Architecture using Integrated Airborne and Ground SA Concepts

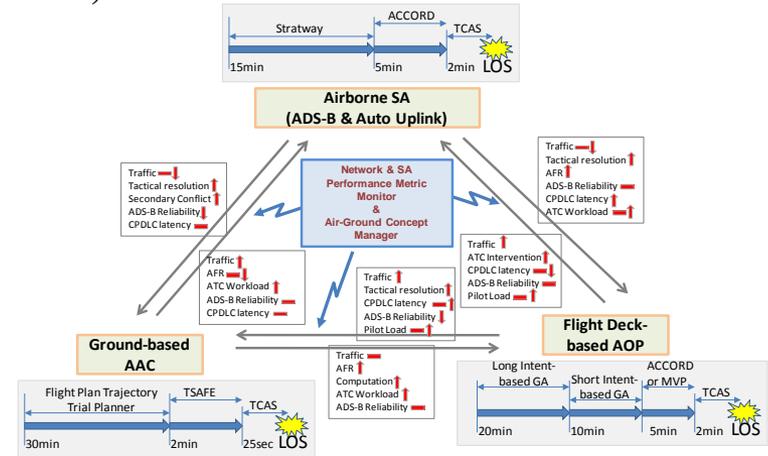
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Identification and Significance of Innovation

Prototype the ability to model and simulate a distribution of separation assurance responsibilities across air traffic controllers and flight crews. This demonstrates the capacity to model this type of distributed responsibilities which portends the ability to evaluate other distributions/architectures. The evaluation of other architectures in terms of robustness to systemic faults will be a valuable tool in developing transition plans for actual use of airborne separation assurance.

Expected TRL Range at the end of Contract (1-9): 3



Technical Objectives and Work Plan

Determine how to use existing and futuristic separation assurance (SA) concepts to safely handle greater flight density.

Provide a study and a demonstration that suggests how to transition from current day SA procedures to futuristic SA procedures.

NASA and Non-NASA Applications

This is an enabler for evaluating architectures for functional allocation of separation assurance, where there is a primary system and a backup system, that are robust with respect to a fault in the primary system.

Firm Contacts

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