

Northrop ABMS Lacks Cross-Authority Intent Composition

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What Northrop ABMS Provides

Northrop Grumman operates as a major ABMS prime contractor for Air Force JADC2 elements. The systems integrate sensors, command surfaces, and effectors across multi-domain operations; the technical execution at program scale is mature for the contracted scope.

ABMS handles intra-service operator direction effectively within Air Force scope. The architectural element above intra-service direction — cross-service and cross-coalition intent composition — is the layer joint and coalition operations increasingly require.

Why Northrop ABMS Lacks the Architectural Element

Joint and coalition operations need cross-service and cross-coalition intent composition. The intents from different services and different coalitions need to compose structurally; current service-specific systems handle intra-service intent but face friction at service and coalition boundaries.

Northrop's ABMS work would benefit from architectural cross-authority intent composition. The architectural primitive provides the structural composition; ABMS

provides the operational substrate.

How the Architectural Primitive Composes With Northrop ABMS

The architectural primitive treats ABMS operator intents as credentialed cross-authority declarations. Each intent carries service, coalition, and operator identity; cross-service operations admit through composite admissibility; cross-coalition operations admit through declared coalition federation.

Northrop's existing ABMS architecture continues. The architectural primitive adds the cross-authority intent layer; the integration is additive; the architecture gains the JADC2-class composition that emerging joint doctrine increasingly requires.

What This Enables for Northrop ABMS's Trajectory

Northrop gains the architectural cross-authority intent layer above ABMS. Joint operations gain structurally-supported cross-service intent composition. Coalition operations gain structurally-supported cross-coalition composition. JADC2 deployment gains the architectural composition framework.

The patent positions the cross-authority intent primitive at exactly where JADC2 ambitions require architectural support. Northrop's competitive position benefits from adopting the architectural composition as part of ABMS rather than producing JADC2 integration through ad-hoc service-by-service work.

