

Requirements

Model

Activity Diagrams

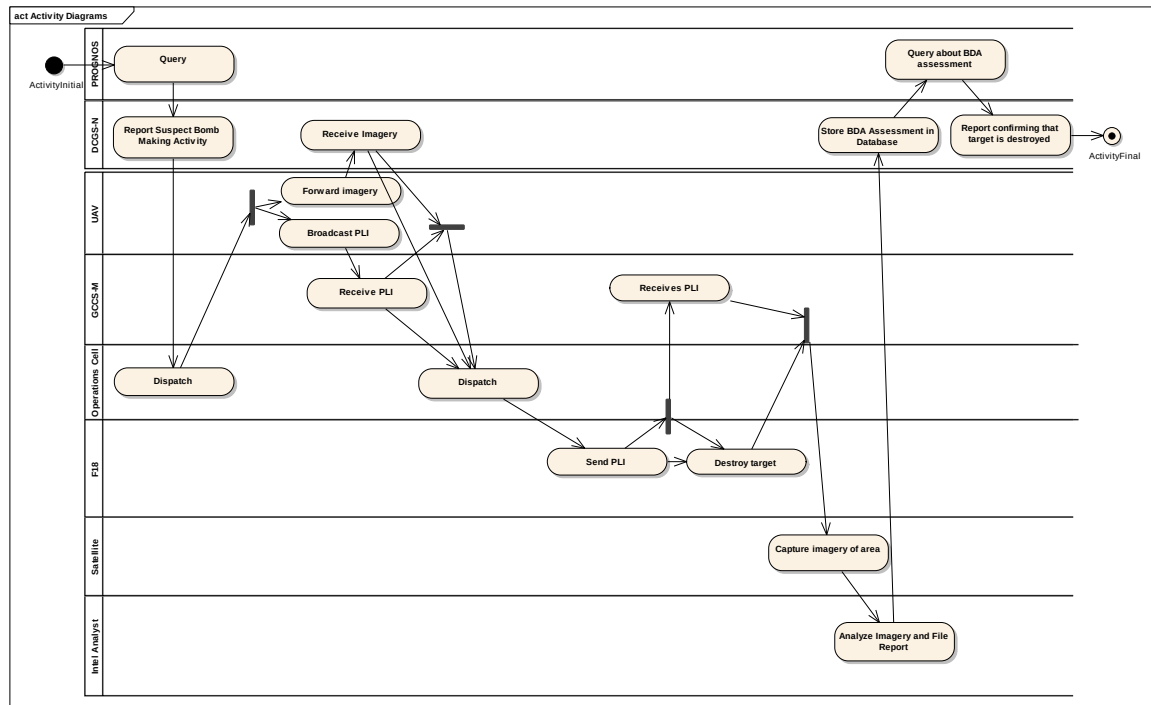


Figure: Activity Diagrams

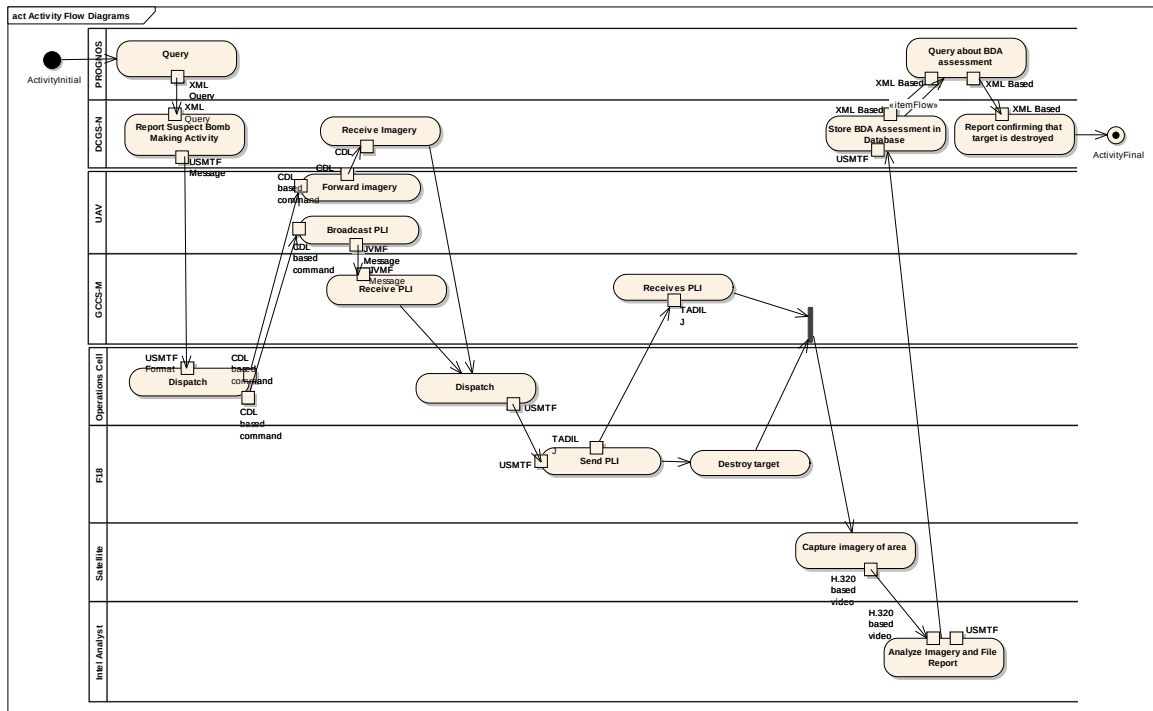


Figure: Activity Flow Diagrams

<anonymous>

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

Block Diagrams

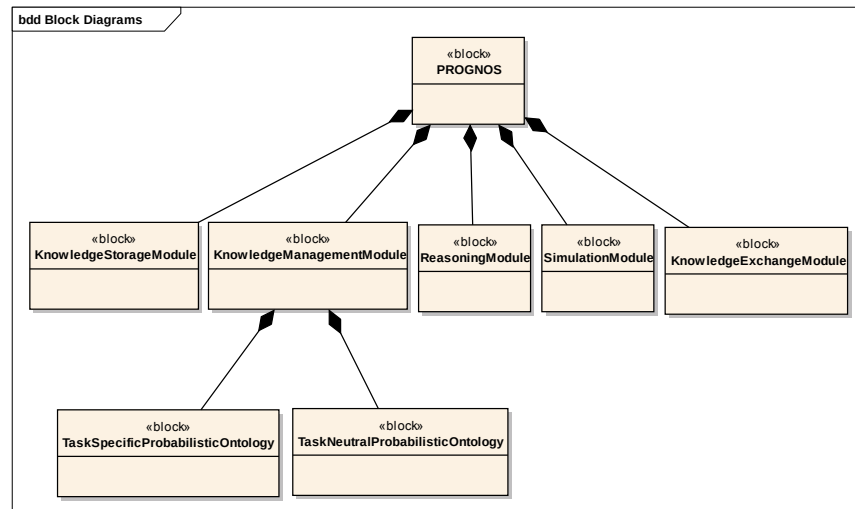


Figure: Block Diagrams

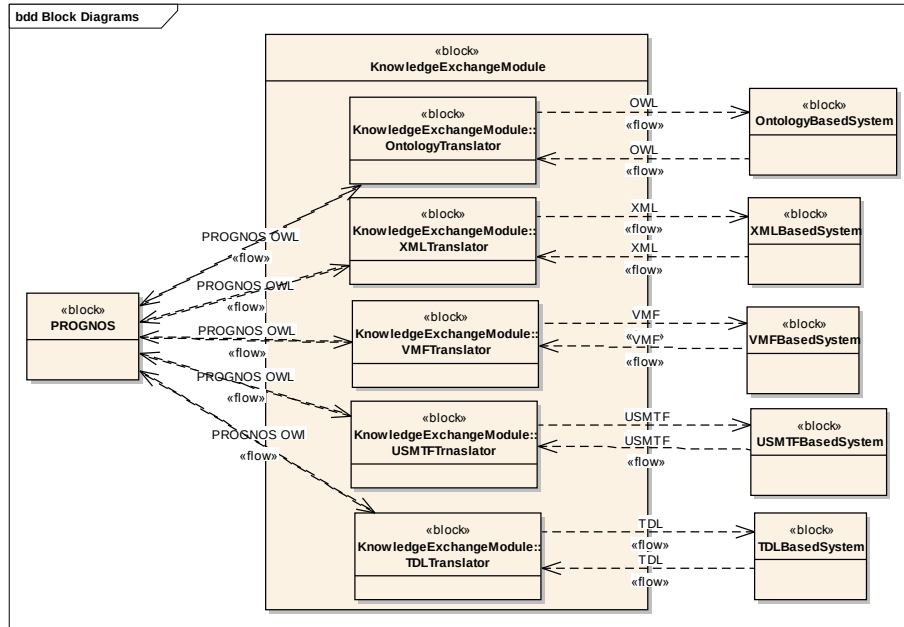


Figure: Block Diagrams

Requirements Diagrams

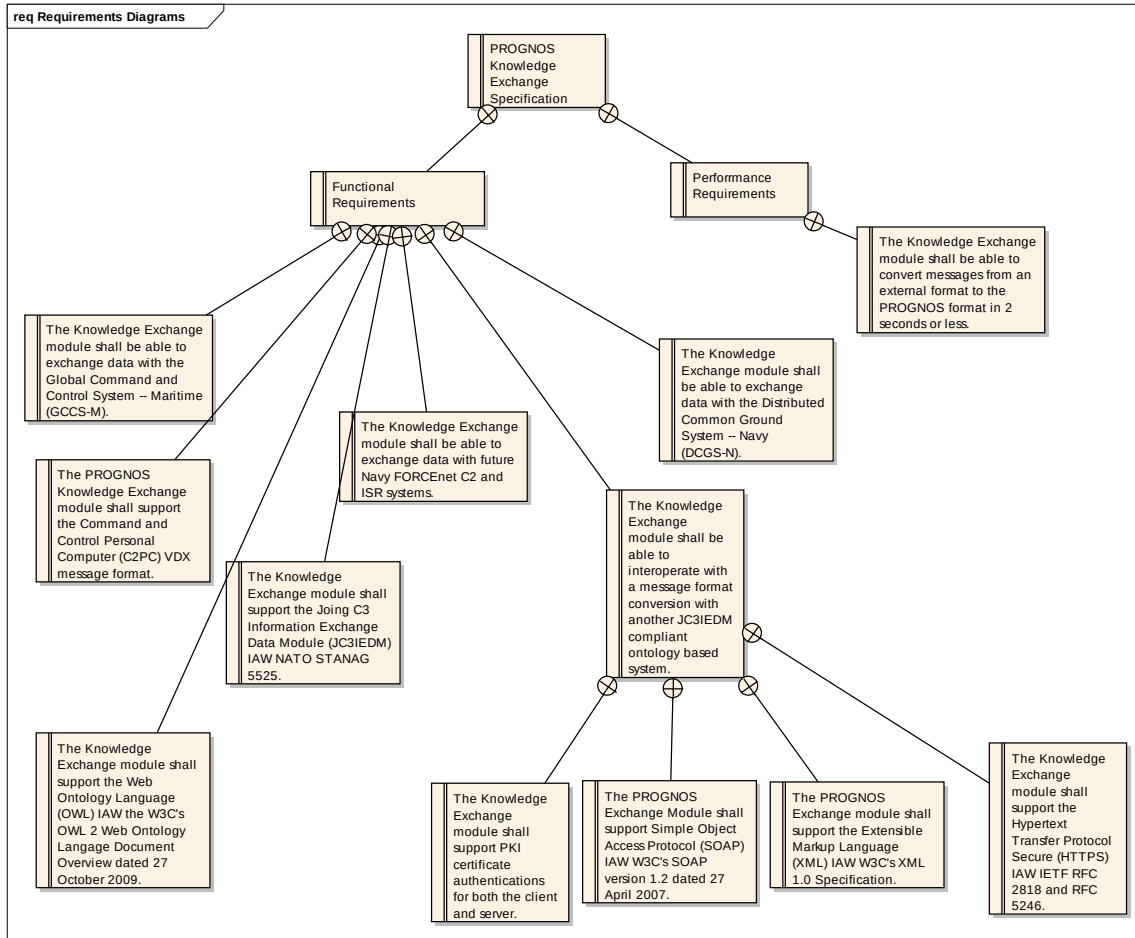


Figure: Requirements Diagrams

Functional Requirements

«functionalRequirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

PROGNOS Knowledge Exchange Specification

«requirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

Performance Requirements

«requirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

Requirement1

«requirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall be able to convert messages from an external format to the PROGNOS format in 2 seconds or less.

«performanceRequirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall be able to exchange data with future Navy FORCEnet C2 and ISR systems.

«performanceRequirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall be able to exchange data with the Distributed Common Ground System -- Navy (DCGS-N).

«functionalRequirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall be able to exchange data with the Global Command and Control System -- Maritime (GCCS-M).

«performanceRequirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall be able to interoperate with a message format conversion with another JC3IEDM compliant ontology based system.

«requirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall support PKI certificate authentications for both the client and server.

«requirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall support the Hypertext Transfer Protocol Secure (HTTPS) IAW IETF RFC 2818 and RFC 5246.

«requirement» Status: Proposed Priority: Medium Difficulty: Medium
Phase: 1.0 Version: 1.0

The Knowledge Exchange module shall support the Joining C3 Information Exchange Data Module (JC3IEDM) IAW NATO STANAG 5525.

«functionalRequirement»	Status: Proposed Phase: 1.0	Priority: Medium Version: 1.0	Difficulty: Medium
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The Knowledge Exchange module shall support the Web Ontology Language (OWL) IAW the W3C's OWL 2 Web Ontology Language Document Overview dated 27 October 2009.

«functionalRequirement»	Status: Proposed Phase: 1.0	Priority: Medium Version: 1.0	Difficulty: Medium
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The PROGNOS Exchange Module shall support Simple Object Access Protocol (SOAP) IAW W3C's SOAP version 1.2 dated 27 April 2007.

«functionalRequirement»	Status: Proposed Phase: 1.0	Priority: Medium Version: 1.0	Difficulty: Medium
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The PROGNOS Exchange module shall support the Extensible Markup Language (XML) IAW W3C's XML 1.0 Specification.

«functionalRequirement»	Status: Proposed Phase: 1.0	Priority: Medium Version: 1.0	Difficulty: Medium
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The PROGNOS Knowledge Exchange module shall support the Command and Control Personal Computer (C2PC) VDX message format.

«functionalRequirement»	Status: Proposed Phase: 1.0	Priority: Medium Version: 1.0	Difficulty: Medium
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Sequence Diagrams

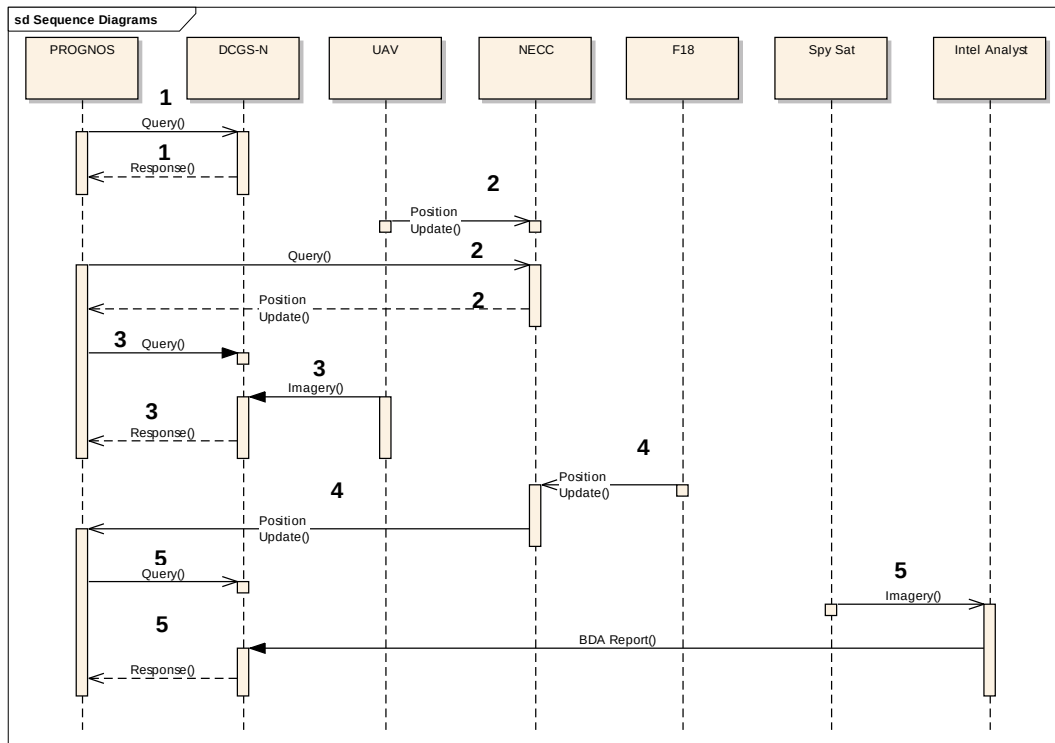


Figure: Sequence Diagrams

<anonymous>

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

<anonymous>

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

as

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

Operational View

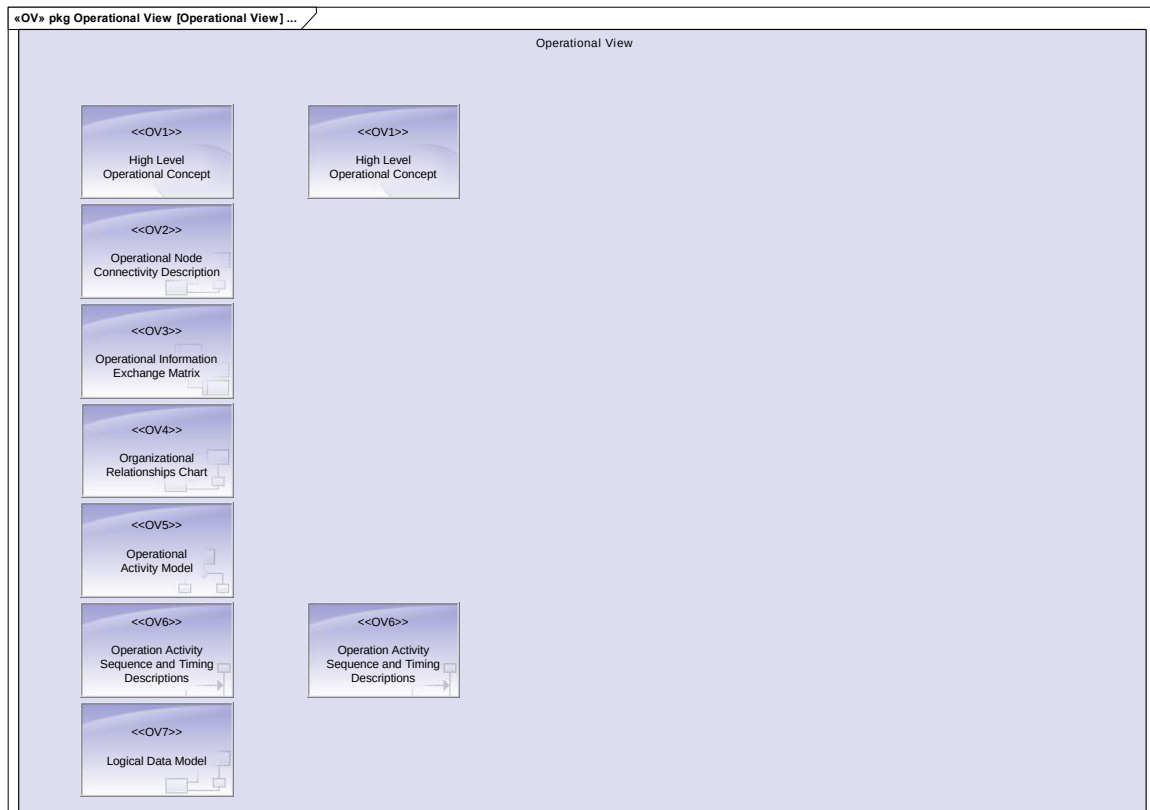


Figure: Operational View

High Level Operational Concept

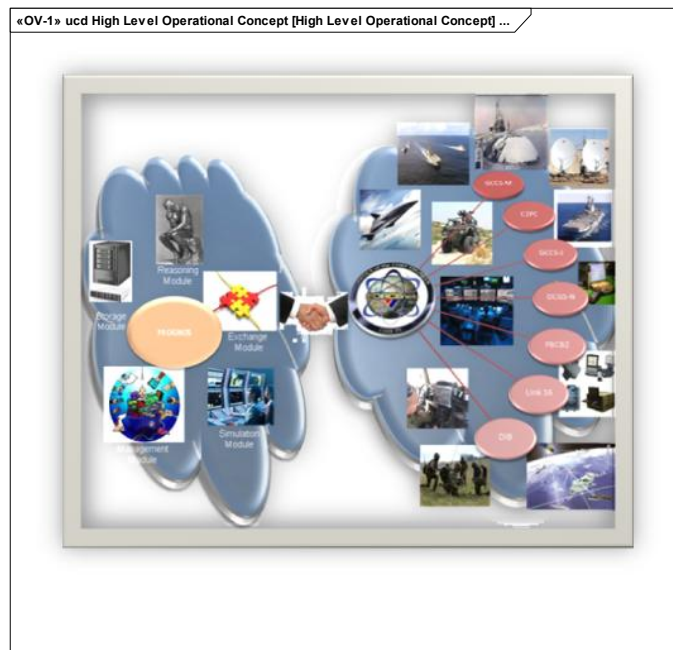


Figure: High Level Operational Concept

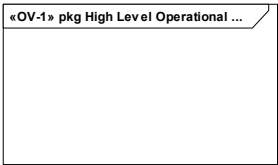


Figure: High Level Operational Concept

Operational Node Connectivity Description

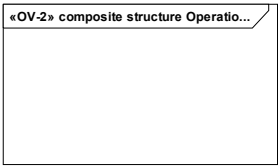


Figure: Operational Node Connectivity Description

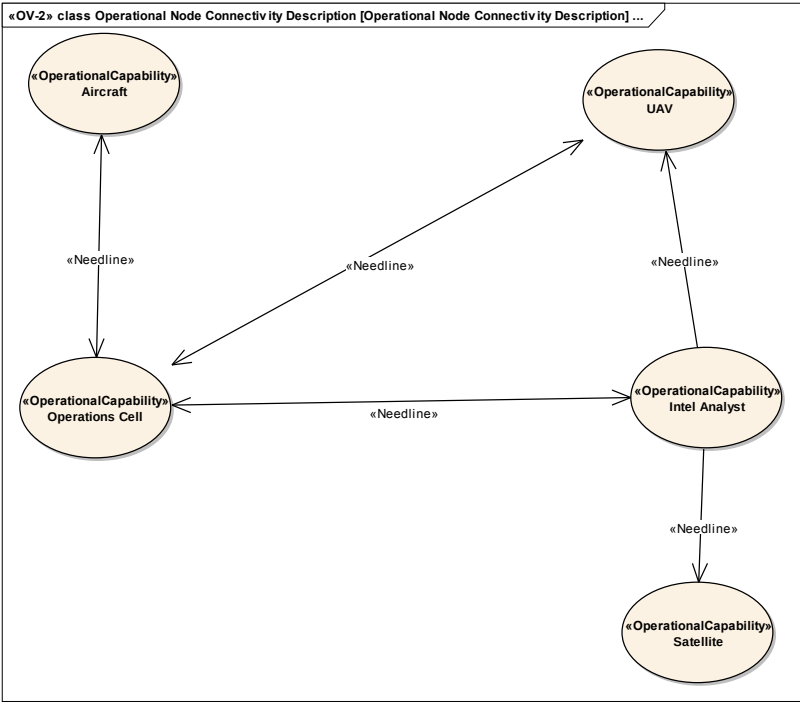


Figure: Operational Node Connectivity Description

Operational Information Exchange Matrix

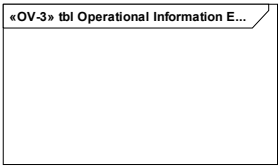


Figure: Operational Information Exchange Matrix

Organizational Relationships Chart

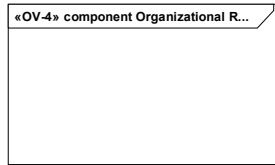


Figure: Organizational Relationships Chart

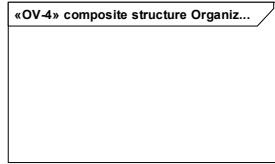


Figure: Organizational Relationships Chart

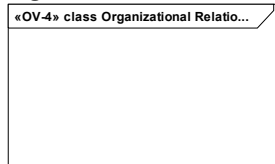


Figure: Organizational Relationships Chart

Operational Activity Model

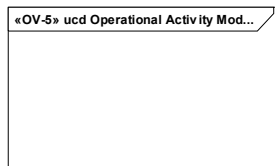


Figure: Operational Activity Model

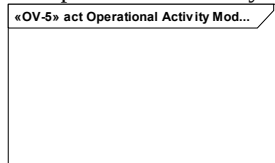


Figure: Operational Activity Model

Operational Activity Sequence and Timing Descriptions

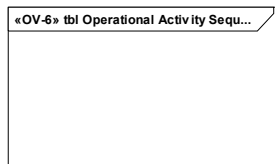


Figure: Operational Activity Sequence and Timing Descriptions

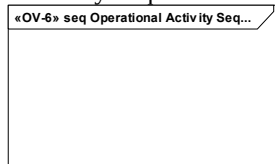


Figure: Operational Activity Sequence and Timing Descriptions

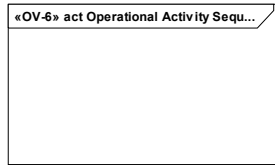


Figure: Operational Activity Sequence and Timing Descriptions

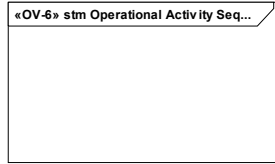


Figure: Operational Activity Sequence and Timing Descriptions

Logical Data Model

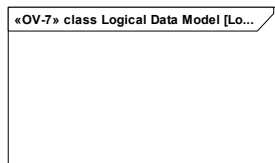


Figure: Logical Data Model

System View



Figure: System View

Systems Interface Description

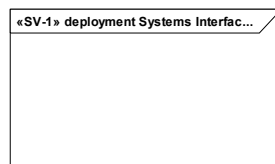


Figure: Systems Interface Description

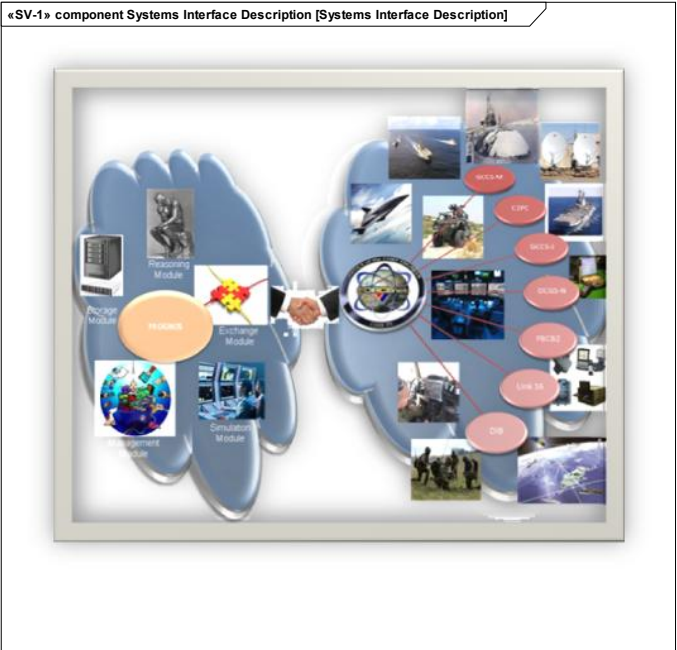


Figure: Systems Interface Description

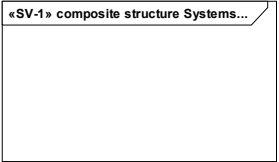


Figure: Systems Interface Description

Systems Communications Description

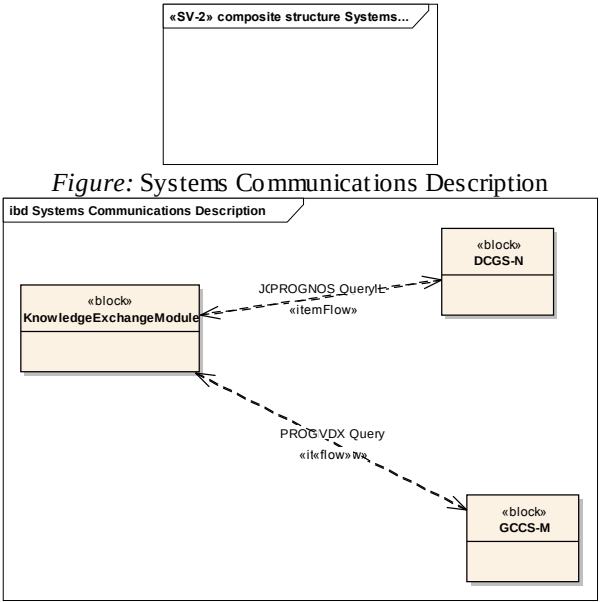


Figure: Systems Communications Description

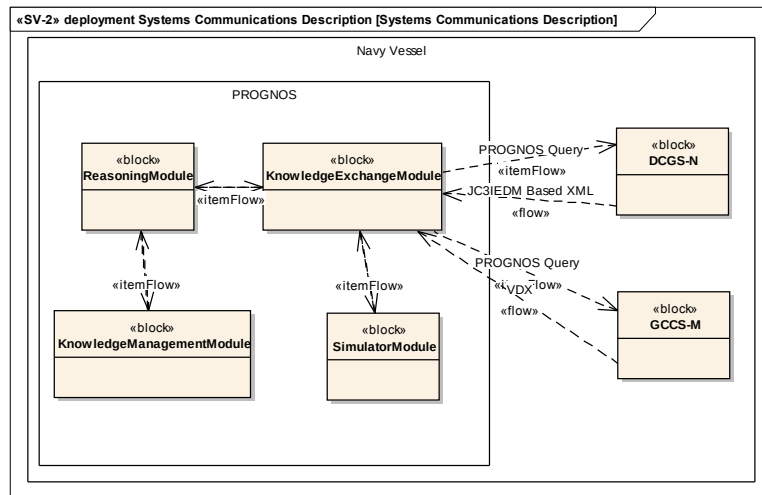


Figure: Systems Communications Description

System-Systems Matrix

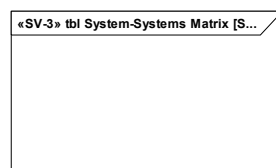


Figure: System-Systems Matrix

Systems Functionality Description

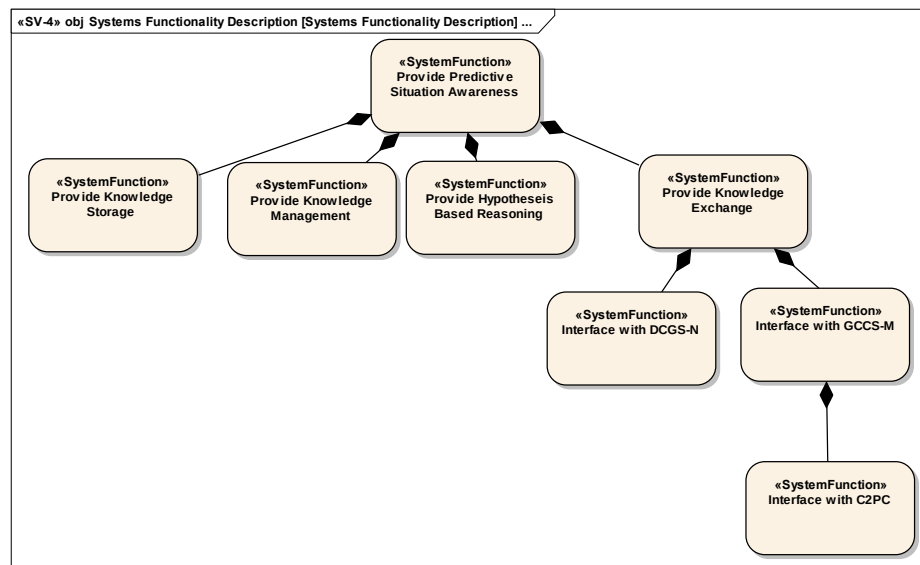


Figure: Systems Functionality Description

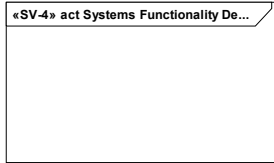


Figure: Systems Functionality Description

Operational Activity to Systems Function Traceability Matrix

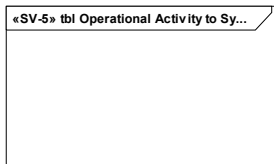


Figure: Operational Activity to Systems Function Traceability Matrix

Systems Data Exchange Matrix

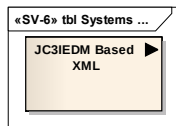


Figure: Systems Data Exchange Matrix

Imagery

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

JC3IEDM Based XML

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

JVMF

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

TADIL J

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

VDX

Status: Proposed
Phase: 1.0

Priority:
Version: 1.0

Difficulty:

Systems Performance Parameters Matrix

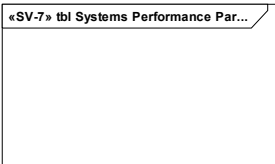


Figure: Systems Performance Parameters Matrix

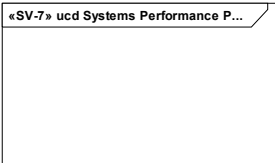


Figure: Systems Performance Parameters Matrix

Systems Evolution Description

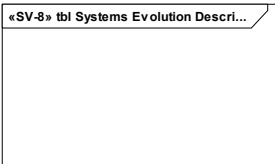


Figure: Systems Evolution Description

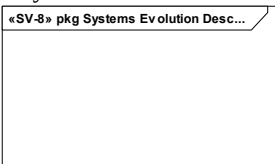


Figure: Systems Evolution Description

Systems Technology Forecast

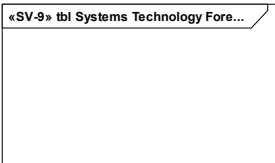


Figure: Systems Technology Forecast

Systems Functionality Sequence and Timing Descriptions

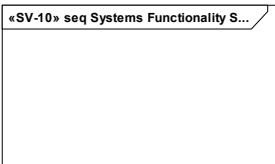


Figure: Systems Functionality Sequence and Timing Descriptions

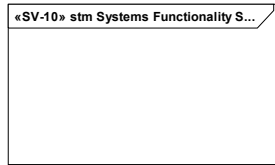


Figure: Systems Functionality Sequence and Timing Descriptions

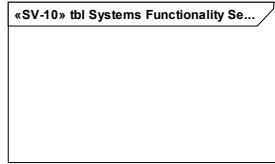


Figure: Systems Functionality Sequence and Timing Descriptions

Physical Schema

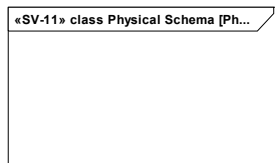


Figure: Physical Schema

Technical Standards View

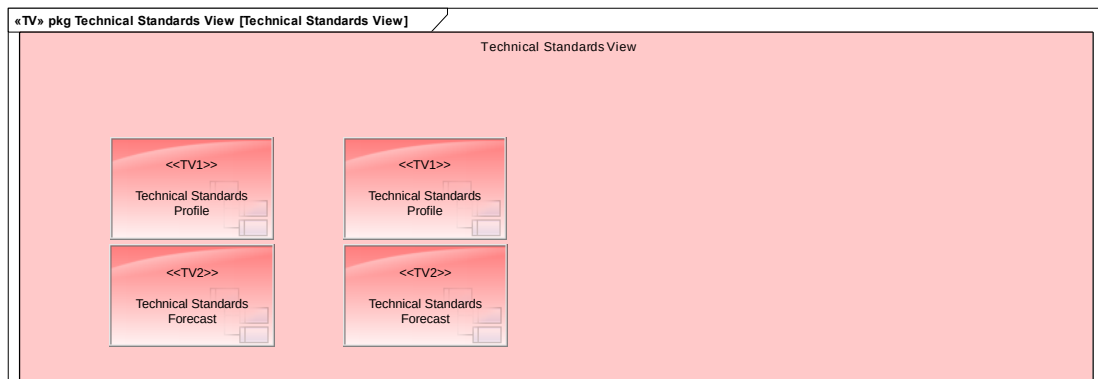


Figure: Technical Standards View

Technical Standards Profile

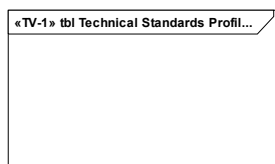


Figure: Technical Standards Profile

Technical Standards Forecast

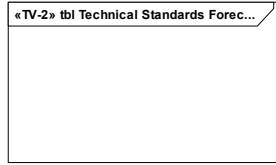


Figure: Technical Standards Forecast