

# ACE Cargo Release Update for Trade Support Network

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# ACE Cargo Release CONOPS and ORD Overview



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# CONOPS and ORD Creation, Refinement and Delivery

## **New Approach to Requirements**

The CONOPS and ORD Creation, Refinement and Delivery project introduced a new way of analyzing and capturing the operational needs and requirements of the stakeholder community; working collaboratively across OT, OIT, OTIA and OFO, and with the PGAs and the Trade.

- New approach focused on the needs of the stakeholders as the driving force behind the CONOPS and the ORD
- Identification of operational needs were mapped to business processes
- On-going communication and coordination among the project team of 82 people across CBP, PGAs and the Trade
- Increased breadth of participation across CBP Offices and Branches
- Compliance with AD-102 and CBP SELC requirements for reviews and approvals

## **Communication and Coordination Among Teams**

- Structured and coordinated concurrent activities across 4 Government teams
- Led to the continued involvement and success of ACE Cargo Release Operational Requirements development by increasing stakeholder engagement

## **Participation Across the Stakeholder Community**

- Customs and Border Protection (CBP) – 58 (OT, OIT, OFO, OTIA, OA, OPA and OIIL)
- Participating Government Agencies (PGAs) - 13
- Trade Partners - 11
- CBP Senior Leadership Commitment and Participation - OT, OIT, OFO, and OTIA



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# Participation Across the Stakeholder Community

**Continuous communications between CBP, the Trade and PGA's has been directly attributed to the successful development of CBP process threads, and the ongoing adjudication of Trade and PGA GIF's.**

## **CBP Team Participation**

- 58 CBP personnel from 14 distinct CBP Branches across OT, OFO, OIT, OPA, OA, OIIL, and OTIA participated in and led the development and mapping of 572 process steps and 152 decision points, which resulted in the identification of 46 Operational Requirements

## **TRADE Participation**

- With involvement and participation from 11 Trade partners, 90 Trade requirements were identified as in scope for Cargo Release
- With the assistance of 11 Trade Partners, the Cargo Release team received 68 GIF's. To date more than 19 have been fully accepted by CBP. This process is ongoing.

## **PGA Team Participation**

- Created and released the PGA Message Set – This system will enable Cargo Release to receive inbound data for PGA
- Interoperability Web Service (IWS), developed for the ACE program – This system will act as service between ACE and external PGA systems

## **CBP Intra-Agency Team**

- Ongoing review of policy, legal, and technical issues for impact against operational and functional requirements



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# Meeting the Expectations for Acquisition Reviews

**In support of Acquisition Decision Event (ADE) 2a as defined by the DHS AD-102 created the following documents in draft by April 29<sup>th</sup>, 2011, with final delivery April 2012.**

- Cargo Release Concept of Operations (CONOPS)
  - Cargo Release Operational Requirements Document (ORD)
  - Requirements Traceability Matrix (RTM)
- Performed analysis and validation of existing CBP ACE Cargo Release requirements
  - Reviewed existing documentation, processes, and approach to determine currency, compliance, and completeness relative to the requirements re-validation process
  - Mapped Cargo Release requirements to mission needs
  - Analyzed the Cargo Release Community of Stakeholders, Technologies, Information Transactions, Capabilities, and Actors and establish traceability to the ITDS CONOPS
  - Performed Operational Analysis of Cargo Release
    - Examined Cargo Release processes, activities and functions in the legacy environment
    - Analyzed future state of how operators and stakeholders want/need the Cargo Release operations to be performed
    - Created business process mapping documentation for Cargo Release processes



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# Trade GIF Adjudication Update



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# Trade GIFs Continue to be Adjudicated

GIF Status	
GIFs that Received Policy/Legal Review	28
Accepted	7
Partially Accepted	3
Rejected	3
Closed	4
Pending	11

- Great Idea Forms (GIFs) are Trade recommendations to CBP on modernization efforts.
- 67 GIFs were received; 58 deemed in scope after initial adjudication.
- 40 of the 58 in scope GIFs required policy/legal review.
- 28 have undergone policy/legal review thus far. (Ongoing)
- Accepted & partially accepted GIFs are being used to inform the functional decomposition process.
- **GIF status details will be distributed through the TSN Trade Ambassadors and TSN Committees.**



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# Functional Decomposition Update



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# Functional Decomposition Planning and Execution

## **Functional Decomposition is:**

- Based on analysis of process threads and operational requirements
- Ensures the business drives the requirements and the user intent is captured
- Identifies system functionality and system capabilities that are decomposed into functional requirements
- Analysis of Existing CBP ACE Systems (M1, ESAR, etc.)

## **Functional Decomposition builds on the operational requirements framework to:**

- Define, analyze and align Functional Requirements to Operational Requirements
- Conduct an analysis of system activities and functions, with special emphasis on identifying risks, security issues, business rules, technology evaluation criteria, test notes, and data attribute requirements resulting in a complete Enterprise Activity Roadmap (EAR)
- Track and manage Requirements Traceability Matrix (RTM) with requirements management tool to maintain baseline



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# Analytical Products support Functional Decomposition

**Analytical products are being created to further support functional decomposition including:**

- Developing an **Information Transaction Inventory (ITI)** to document data exchanges between systems
- Creating an **Information Flow Diagram (IFD)** to visualize the data exchanges between systems
- Developing an **Enterprise Activity Roadmap (EAR)** to catalog and understand system functionality
- Developing **Capability Vignettes (CV)** to demonstrate future system capabilities based on new system functionality
- Performing **data element mapping** from CATAIR, PGA Message Set, PG Message Set to new system functionality and data exchanges to ensure a comprehensive set of data



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# Next Steps



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# Next Steps: Functional Requirements

## **Going forward, we will engage stakeholders to understand and document desired system functionality**

- Specific tasks related to identifying functional requirements include:
  - Define, Analyze and Align Functional Requirements in preparation for acquisition and systems engineering reviews.
  - Conduct an analysis of system functionality activities with special emphasis on identifying risks, security issues, business rules, technology evaluation criteria, and data attributes.
  - Create Multi-Dimensional Requirement Visualizations (MRVs) to provide a graphical representation of functional requirements to support requirements definition and validation.
  - Perform tracing of requirements and analytical products in the requirements management tool.
- Functional decomposition and requirements sessions are currently scheduled for November 2011 through June 2012
- The Trade will provide comments and feedback on functional requirements
- CBP's goal is to deploy a subset of functionality within the next 18 months



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# EXAMPLES OF ANALYTICAL PRODUCTS THAT SUPPORT FUNCTIONAL DECOMPOSITION

