

Trade Software Developer Technical Seminar Document Imaging System

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Document Image System Overview

- The Document Imaging System (DIS) facilitates automated submission of documents and associated trade data by participating Trade Partners to CBP.
- The submitted documents are electronically processed and securely stored by CBP.
- Submitted documents are made available for review by CBP and Participating Government Agencies (PGAs) via the DIS application.
- DIS will facilitate a single automated gateway that will accept supporting documents that may be needed during the cargo importation and entry summary processes



Document Image System Benefits

- Expedites the release and/or examination of imported cargo
- Initiates single window submissions from Trade to CBP/PGAs
- Provides document review status and report capabilities
- Reduces the cost of processing and delivering paper documents



Document Imaging System Status

- DIS has monthly enhancement releases to support functionality enhancements, Trade and PGA participation expansion, and production fixes
- In planning stages for Reports and Cargo Release related functionality
- The following functionalities have been implemented in DIS:
 - Over 17 CBP and PGA documents are currently supported in DIS
 - XML Schema to support document meta data
 - DIS is on a secure site with robust infrastructure on the backend
 - Integrations between DIS and ACE
 - Query capability to locate CBP and PGA submitted documents and process statuses



Document Imaging System Status

- The following functionalities have been implemented in DIS:
 - DIS GUI Message Monitoring enhancements to support Client Reps
 - Continuous enhancements in the DIS user interface, business validations, database, and meta data to support CBP business needs



Document Imaging System Status continued...

- **Initial deployment supports the following forms:**
 - APHIS Import Permit
 - APHIS Notice of Arrival
 - APHIS Pre-Clearance 203
 - APHIS Transit Permit
 - Commercial Invoice
 - EPA Form 3520-1
 - EPA Form 3520-21
 - EPA Form 3540-1
 - EPA Pesticide Label
 - EPA Pre-approved Vehicle/Engine Exemption Letter
 - EPA TSCA Import Certification
 - NOAA Form 370 (Fisheries Certificate of Origin)
 - APHIS Ingredients List
 - Invoice Worksheet
 - Packing List
 - APHIS Phytosanitary Certificates
 - NOAA Toothfish Pre-approval Form

- Policy is under review.

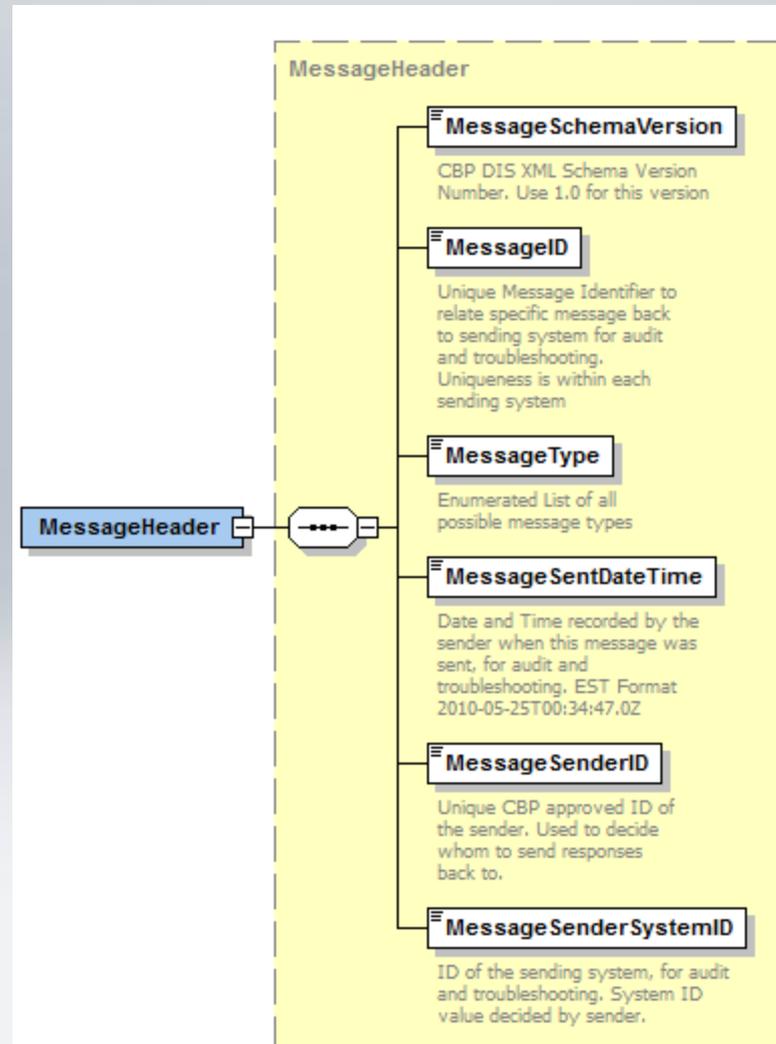


Document Imaging System Access

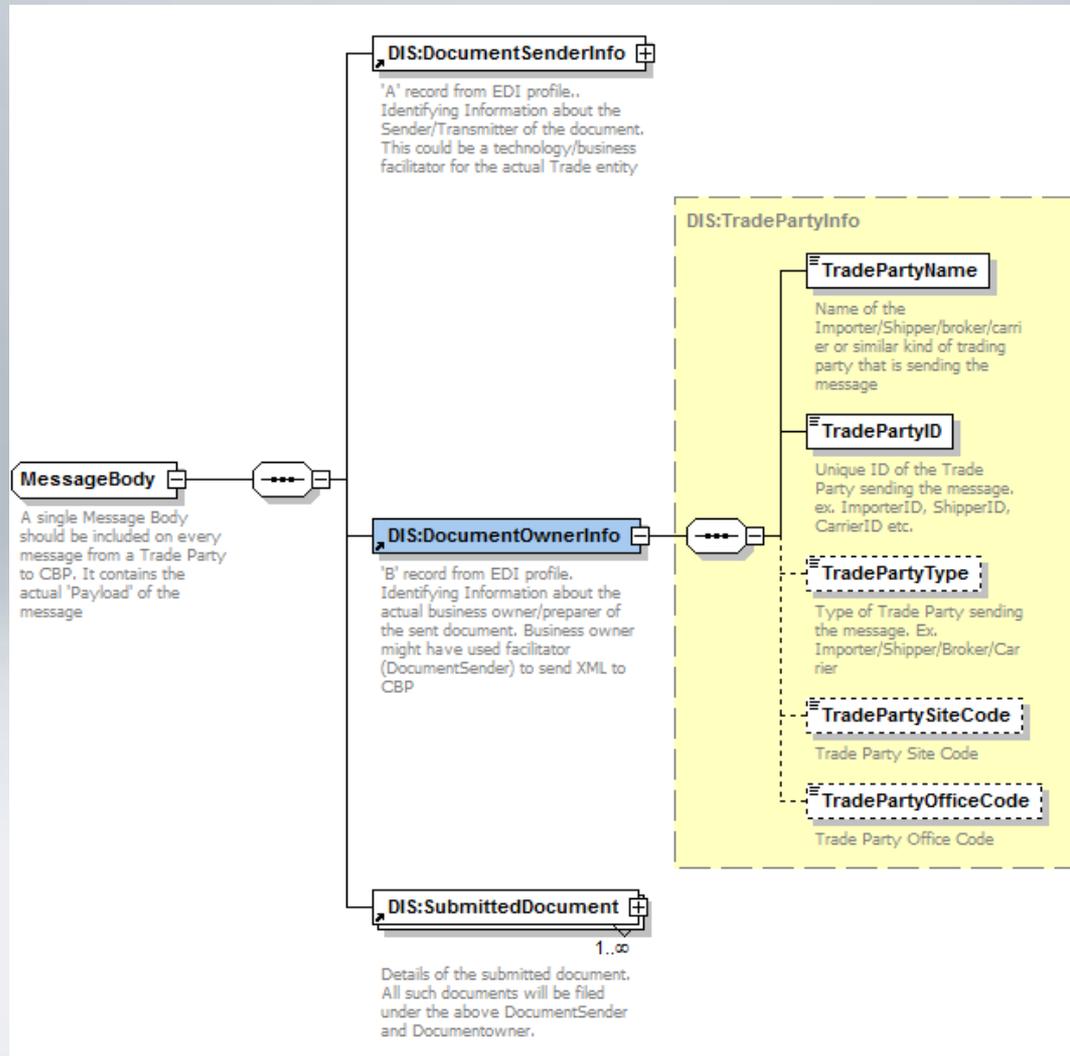
- PGA participants may contact ITDS for Participating Government Agency on boarding procedures.
 - ACE Business Office is coordinating efforts with ITDS to post DIS procedures on the ITDS secure website.
- CBP and PGA Users can submit their request for DIS access to: ImagingAccess@dhs.gov
- Trade participants may contact their local Client Representatives Branch for trade on boarding procedures.
- Please also send any questions you may have to: ImagingAccess@dhs.gov



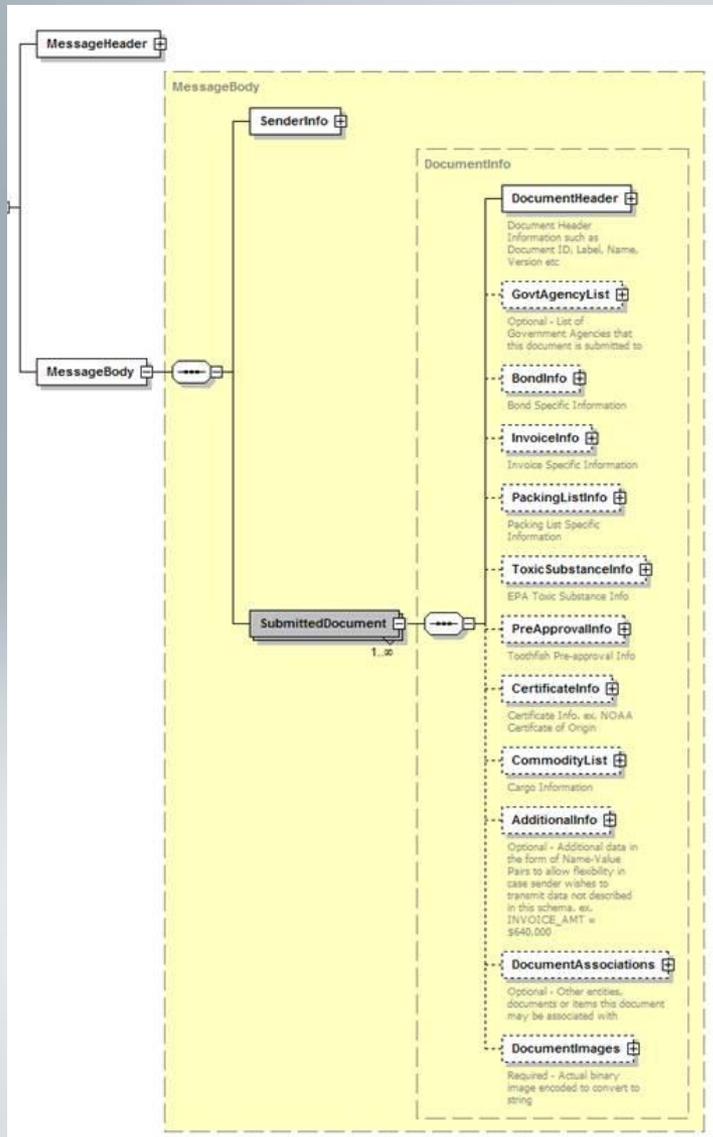
DIS XML Schema: Message Header



DIS XML Schema: Message Body



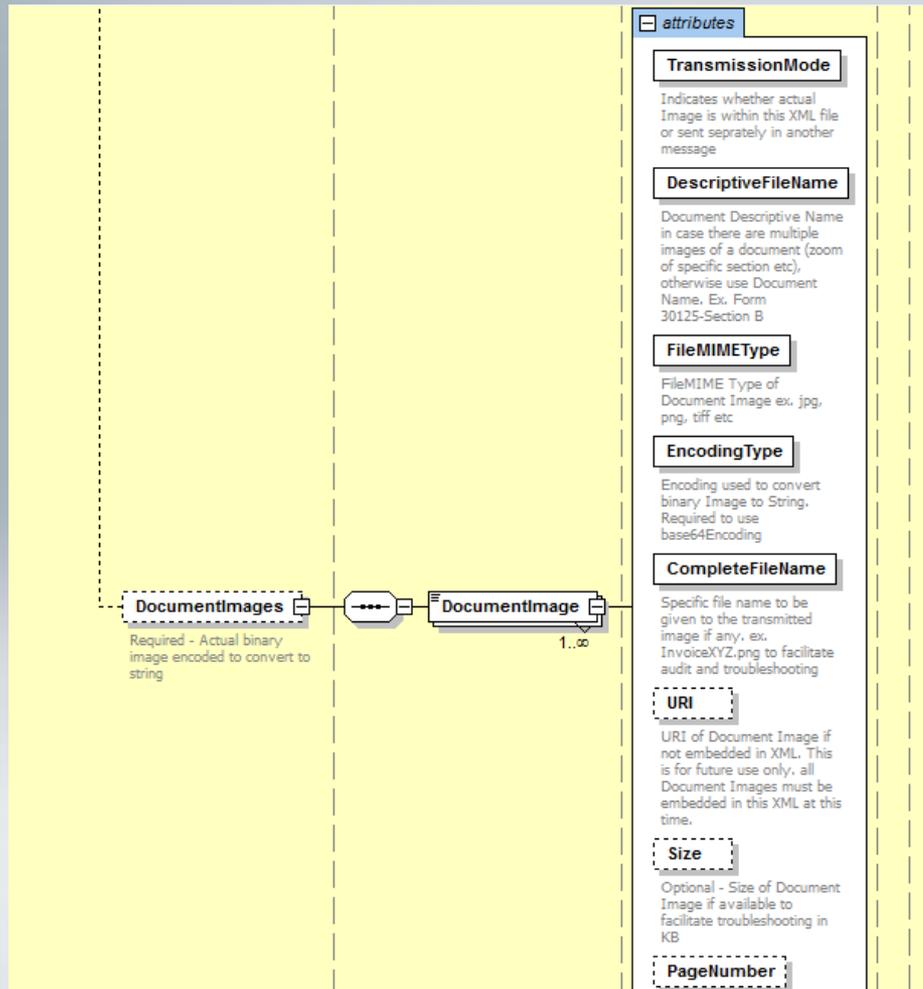
DIS XML Schema: Meta-Data



- The DIS schema has been defined through close coordination with Trade users
- A well defined XML Schema that allows trade to specify the meta data required by CBP for each Document 'type'.
- Includes elements to capture Document Identifiers, Descriptions, Associated Transactions, Trade Parties, Commodities and the Document Image itself



DIS XML Schema: Document Image



- Each 'Document' is embedded in the same XML as the meta-data as Base64 encoded string. This allows the meta-data and document to be tightly coupled
- Multiple documents may be sent in a single XML as long as they share the same Meta-Data. Single documents are recommended to manage size and efficiency of transmission

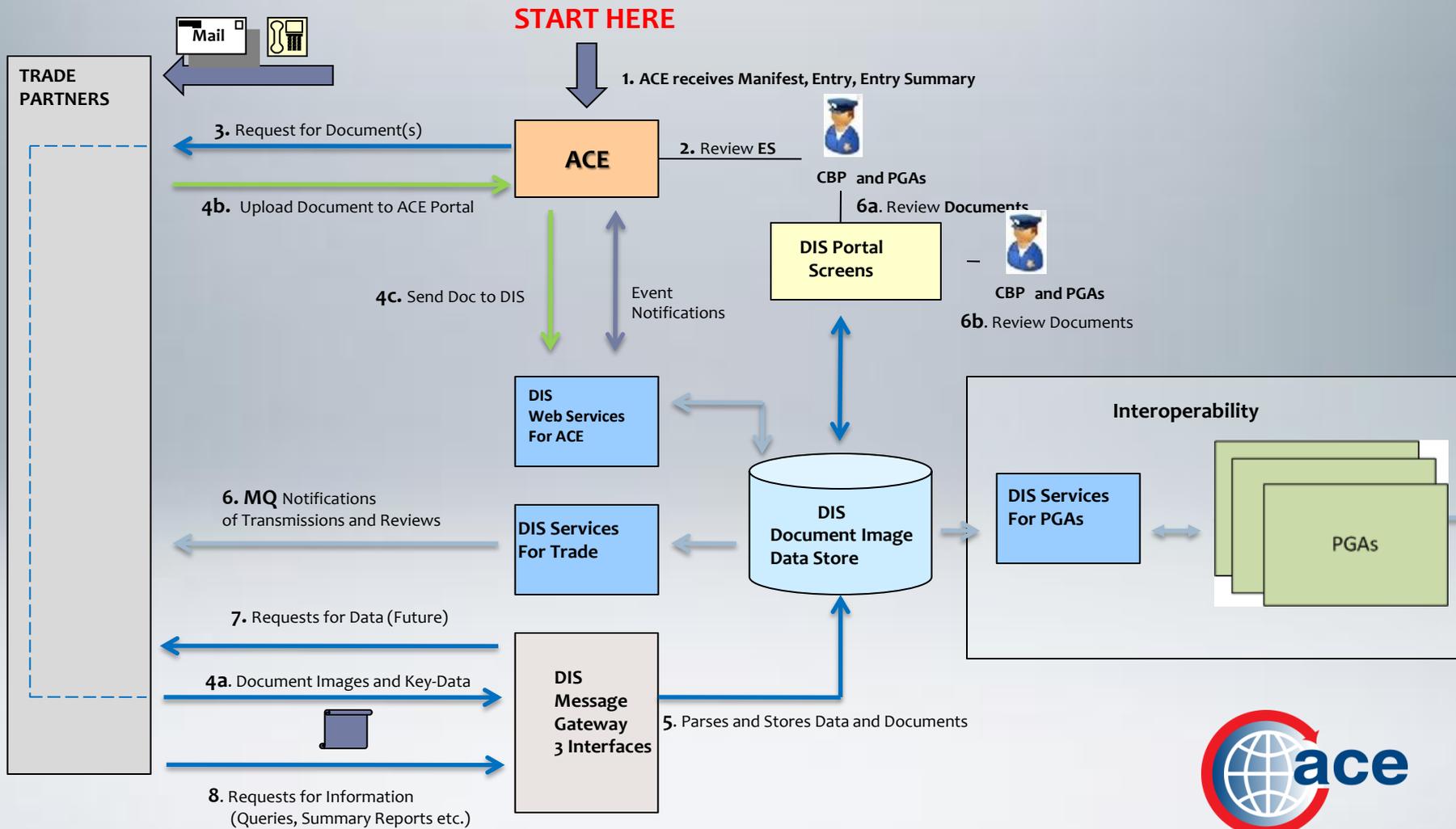


DIS Technical Interfaces

- The Document Image System allows for the Trade to submit documents to DIS via 3 Interface mechanisms:
 1. Secure FTP over Internet,
 2. Secure Web Services over Internet , or
 3. Existing ABI MQ mechanism
- Responses to Trade from CBP are ALWAYS sent via existing EDI MQ Mechanism for all three 'submission' mechanisms:
 - New DIS specific queues for Inbound and Outbound messages need to be defined on the same EDI Queue Manager that the trade partner presently has in place with CBP
 - Responses are sent first during initial validation indicating errors or acceptance
 - Responses are also sent upon Officer 'Review' of Document
- DIS Data Payload is always in **XML** format for all 'Submit' and 'Response' events



DIS – Trade Interaction Landscape



Document Image System Meta-Data

- Meta-data is data submitted by the trade that is used to support a transmitted document.
- Meta-data elements are used to:
 - Search for specific documents within DIS
 - Further describe a transmitted document
 - Provide specific transactional references for that document (Entry Summary, Bill, etc)
- Meta-data elements can be common throughout all documents (i.e., Document ID, Sender ID, Message Number, Date/Time).
- Meta-data can be unique to a specific type of document (Invoice number, invoice line number, surety code, agent ID).

