

**enterprise business system**  
 delivering 21st century logistics

## Integrated Data Environment (IDE)

### Background

DLA Enterprise Data Services are provided by the Integrated Data Environment (IDE) in collaboration with its partner organizations (see below).

IDE provides a services-oriented architecture for DLA transformation, and solves many problems commonly faced by the logistics community of interest, such as visibility of data, secure access to data, and improved data quality in terms of its validity, timeliness, and accuracy.

### Partner Organizations

The key to implementing Enterprise Data Services has been partnering. Enterprise Data Services Partner organizations are listed below.

- Integrated Data Environment (IDE) – data brokering/discovery services.
- DLA Logistics Information Service – data/metadata services.
- DLA Transaction Service – data hub services.
- Defense Logistics Management Standards Office (DLMSO) – business rules and data standards support services.
- Defense Information Systems Agency (DISA) – operations and Net Centric Enterprise Services.

### IDE Core Capabilities

The IDE provides the following capabilities:

- Data Broker/Enterprise Service Bus Discovery Services
- Visibility of data assets supporting discovery and reuse.
- Fused Information Services

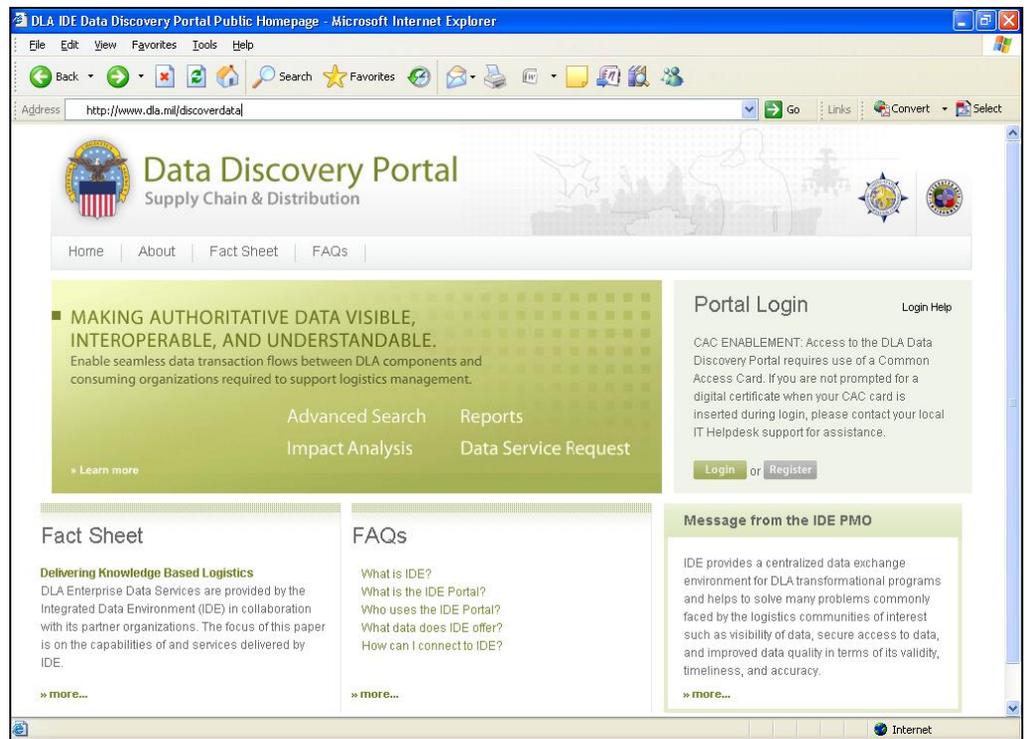
- Assured access to data by authorized users regardless of location, context, or format.
- Minimization of data latency (creation to consumption) meeting agreed-to quality of service level.
- Improved accuracy and consistency of data using authoritative sources where possible/available.
- Improved information interoperability using data management practices, common data models, business rules, and data standards.
- Flexibility to adapt and scale to changing requirements for information services, reducing the time required to enable new interfaces.

IDE brokered more than 40 interfaces with data providers and consumers in support of the Asset Visibility (AV) application which provides the warfighter with asset information for items In-Storage, In-Process, and In-Transit. The AV Program office at DLIS is responsible for sustainment of AV services. For information regarding AV, contact the AV Program office at [avpmo@dla.mil](mailto:avpmo@dla.mil).

### Data Discovery

The Data Discovery Portal is the heart of DLA's enterprise data services; Release 2 was implemented in November 2008; the anticipated implementation for Release 3 in July 2011.

It works directly with the IDE metadata repository. The repository currently contains metadata on source and target



<http://www.dla.mil/discoverdata>

formats and business rules. This empowers developers and system analysts to search and discover relevant metadata artifacts and services available through IDE. Customers can subscribe to existing DLA services and view interface exchanges (mappings). The next release of the Portal will include improved data dictionary development and will provide the business data associated with each data element. IDE's metadata architecture supports a federated approach to metadata that can provide access to metadata stored in distributed locations throughout DLA. The URL for the Discovery Portal is:

<http://www.dla.mil/discoverdata>.

- **The Enterprise Service Bus (ESB)** links all components, both internal and external. The ESB provides messaging services, intelligent routing, transformation, data synchronization, distributed data access, process automation, and web services. Additionally, the ESB serves as a gateway to data sources outside the IDE enterprise, enabling the business-to-business transport of data.
- **Web Services Management** provides infrastructure for common lifecycle processes, policies, standards, along with centralized management of services through policy enforcement points. Combined with the Data Discovery Portal for the single point of discovery, DLA can govern the data services entire program lifecycle.

## IDE Customer Support

DLA follows standard processes and procedures that facilitate customer interaction. Services required to support a customer requirement are documented in data sharing agreements and interface control documents. These documents formalize functional and technical agreements between IDE and providers and consumers.

Examples of IDE existing services:

### Access to DLA Supply Data

- **EBS Bulk Data.** EBS data for Materiel Due Out, Materiel On Hand, Back Order, Materiel Requisition, and Materiel Weapon Systems is brokered to the Army and Navy using IDE bulk data services.

- **EBS Real-Time Data.** Near real-time EBS Requisition and Stock Status data is brokered to multiple Navy and Air Force consumers using web services. EBS data is fused with Master Data to ensure the consumer is receiving item data from the authoritative source.
- **Fuels Data.** IDE brokers daily inventory transactions and operational data from the BSM-Energy (BSM-E) application to multiple consumers including AV and Global Combat Support System - GCSS-Joint applications.

### Access to DOD In-Transit Visibility Data

- **IDE Global Transportation Network (GTN) Convergence (IGC).** IGC leverages IDE's data environment to provide common integrated data and application services for USTRANSCOM and DOD enabling cohesive distribution solutions

### Support of DLA Business Processes

- **BRAC Depot Level Repairable (DLR) Strategic Sourcing.** IDE brokers DLR data from the military services to enable DLR Procurement, Supply Storage and Distribution, Consumable Item Transfer, and Privatization decisions under the 2005 BRAC law.
- **EProcurement.** IDE provides access to vendor reference data to support DLA's assumption of the DLR contracting function from the Military Services. EProcurement provides DLA with an enterprise procurement solution for consumables, services, and DLRs.
- **Reutilization Business Integration (RBI).** IDE is in the process of building services in support of Defense Reutilization and Marketing Service's standup of the Reutilization Business Integration application.
- **DLA Fusion Center.** IDE provides data stored in the Asset Visibility Operational Data Store to the Fusion Center.
- **Common Food Management System (CFMS).** IDE provides access to personnel data for active duty, National Guard, and the Reserves to support stand-up of CFMS.

### Support to DLA and Partner Fusion Centers (FC)

IDE will serve as the data sharing infrastructure to access additional DLA Enterprise and mission partner data (i.e. AV Operational Data Services). FC supports continuous integrated situational awareness to the DLA Enterprise and external mission partners. IDE will provide discovery services to make these combined data sources visible and understandable to developers of Fusion Center dashboards, Common Operating Pictures (COPs) and end-to-end supply and distribution visibility applications.

## Technical Solutions

IDE operates at the Defense Enterprise Computing Center (DECC) in Mechanicsburg, PA. DOD and DLA data is brokered between data sources and consumers using a suite of technical services supporting the integration of business processes and data sharing. The software products used by IDE to deliver services are webMethods Fabric, MetaMatrix, MQServer, and Oracle.

IDE is a member of the Global Combat Support System (GCSS) Family of Systems (FoS).

## Working with the IDE Program

All logistics programs should involve IDE during their solutions analysis or blueprinting phase (high level data exchange requirements have been identified). IDE works with customers to refine data and interface requirements and solutions and synchronizes program schedules and milestones. IDE has a data services request form that can be accessed via the Discovery Portal. All potential customers can access the Portal to view additional information about the program. Contact the IDE Program Office directly for further information.

## IDE Point of Contact

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