



Defense Logistics Information Service

Federal Item Identification Guides (FIIGs)



Logistics Data & IT Solutions
Defense Logistics Information Service

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Overview

- **History & Origin of Federal Item Identification Guides (FIIGs)**
- **Purpose of a FIIG**
- **Components of a FIIG**
 - **Standard**
 - **FIIG Edit Guides**
- **FIIG Requests**
- **The Future of FIIGs**



History

World War II

- Increased need for rapid procurement of munitions and supplies
- Prompted effort to eliminate duplicate effort among services
- Reduced overlap in supply chain

Federal Property & Administration Service Act of 1949

- Established a common logistical language – Federal Catalog System (FCS)

Federal Cataloging System

- Provides an organized & systematic approach for describing an Item of Supply (IOS)
- Assigns and records a unique identifying number – National Stock Number (NSN)
- Provides item identifying information on the IOS
- First NSN assigned in 1949 by the Army-Navy Munitions Board

Defense Cataloging and Standardization Act of 1952

- Led to the creation of the first Federal Catalog in 1956



History (cont'd)

Defense Logistics Agency

- Established in 1961 by the Department of Defense
- Created the Defense Logistics Information Service (DLIS) (formerly Defense Logistics Services Center) in Battle Creek, MI in 1963
 - Oversaw administration of the Federal Cataloging System
- Consolidated cataloging at Battle Creek, MI in 1998

Federal Item Identification Guides (FIIGs)

- First documents were created during WW II era (1940's – 1950's)
- Paralleled Military, Industry and Manufacturer Standards & Specifications
- DLA Influence
 - FIIGs became a standardized document that were created and maintained at DLIS
 - DLA used the FCS to create and organize the characteristic data within all FIIGs



Purpose of a FIIG

Item Identification

- Provides a standard process for describing Items of Supply
- Allows a repository of relational data to be created based on descriptive attributes
 - Master Requirements Directory (MRD) – Attribute codes & replies created to describe characteristics of an item.
 - e.g. Code = MATT (Item Material), Reply = STA000 (Steel)
 - DB2 – Tables designed to hold attribute data and specific responses for specific IOS

Data Standardization

- Ensures the consistent business rules applied across the board for all FIIGs
- Creates a single point of reference for Item Identification



Standard Structure of a FIIG

Approved Item Names (AINs)

- FIIGs are created based on an AIN – A single name for one item of supply
- Earlier FIIGs were created based on commodity types and housed an AIN Index or like Items (e.g., Washers)

Master Requirement Codes (MRCs)

- Codes created within the MRD to describe an IOS
- High Level 'questions' the cataloger uses to answer for all items pertaining to a particular FIIG



Standard Structure of a FIIG (cont'd)

Reply Codes

- Codes created as responses to MRCs
- Ability to answer different reply codes for the same MRC on different versions of the same item of supply
 - NIIN 00-056-3336 (Washer) Material = Steel
 - NIIN 00-207-6134 (Washer) Material = Copper

Reference Drawings

- Illustrations created to provide a visual representative drawing of an IOS
- Provides enhanced capability to describe an item
 - Assists cataloging in answering certain MRCs



MRC & Reply Code Example

MATT

D MATERIAL

Definition: THE CHEMICAL COMPOUND OR MECHANICAL MIXTURE PROPERTIES OF WHICH THE ITEM IS FABRICATED.

Reply Instructions: Enter the applicable Reply Code from the Table below. (e.g., MATTTDMTT000*; MATTTDMTZ000\$\$DSL000*; MATTTDSL000\$DSL000*)

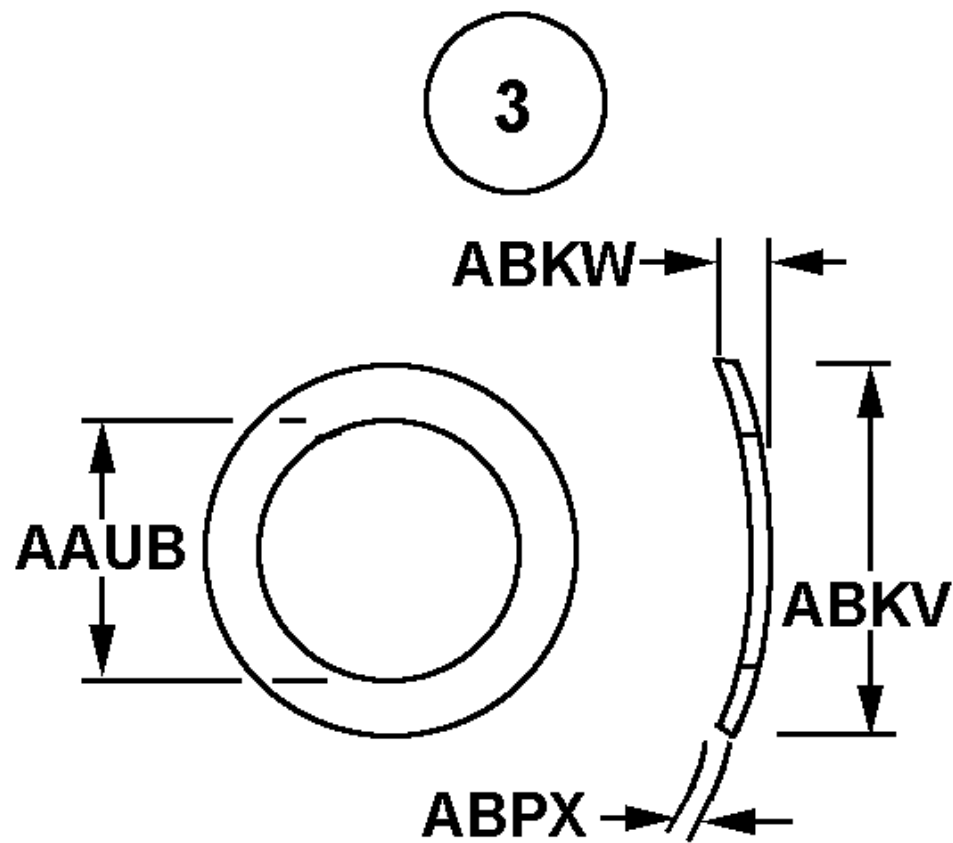
REPLY
CODE

REPLY (MA01)

CDB000	CADMIUM SELENIDE
CDC000	CADMIUM SULFIDE
GAA000	GALLIUM ANTIMONIDE
GAB000	GALLIUM ARSENIDE
GAC000	GALLIUM ARSENIDE PHOSPHIDE
GAD000	GALLIUM ARSENIDE SULFIDE
GAE000	GALLIUM INDIUM ARSENIC PHOSPHIDE
GAF000	GALLIUM PHOSPHIDE
MTT000	GERMANIUM
GSA000	GLASS



Visual Component of a FIIG Reference Drawing



SPRING TENSION



FIIG Edits

Edit Guides

- Validation and verification ‘rules’ that enforce correct responses to MRCs
- Helps ensure characteristics are consistent within each FIIG

TECHNICAL EDIT EXAMPLE

MATTD:A;B;C

MATT	= Master Requirement Code
D	= Mode Code
:	= Must Have
STA000 ALA000 and CUB000	= Reply Codes Available for MATT
;	= OR



FIIG Requests

Request Submittal

- Request is submitted from internal or external customers
 - Government Employee
 - Military Services
 - NATO Countries
 - Government Contractor
- Includes FIIG creation requests, MRD Creation/Modification/Deletion, Request for New Item Name, Cancellation of an Item Name, Replacement of an Item Name

Internal Coordination

- Research is completed to validate request
- Ensures no duplication or negative impact to customer
- Regulatory guidelines are followed for naming structure and MRD actions



FIIG Requests

Formal Collaboration

- Package is sent for 30-day review among Collaborators (i.e., military services and participating NATO countries)
- Collaborators may concur, nonconcur or request modification to package

Final Review

- All comments/concerns from collaborators are addressed
- Package is modified/updated/cancelled
- Package is implemented/closed



The Future of FIIGs

- Transmission of FIIG data in eXtensible Mark-up Language (XML) format
- XML also available in ISO 22745 compliant format
- Web data mining to assist in our effort to align our descriptions and characteristics with industry
- New FIIG production/publication software will allow:
 - Faster implementation times
 - More user friendly interfacing by internal and external users
 - Higher level of data quality



Questions?

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