*Defense Finance and Accounting Service*

Financial Management Center of Excellence



Functional Requirements Description

For

Foreign Military Sales

(Security Assistance Accounting)

Release 9.0

May 31, 2011

Release/Version Control

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| --- | --- | --- |
| Release/Version | Date | Description of Changes |
| 6.0 | September 30, 2009 | This release contains new functional requirements related to Foreign Military Sales Methodology. |
| 7.0 | July 30, 2010 | This release contains updates to the Foreign Military Sales functional requirements. |
| 8.0 | January 31, 2011 | This release contains updates to the Foreign Military Sales functional requirements. |
| 9.0 | May 31, 2011 | This release contains updates to the Foreign Military Sales functional requirements. |

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1. Introduction
	1. Background

Department of Defense (DoD) Directive 5118.5 identifies the Director, Defense Finance and Accounting Service (DFAS) as the principal DoD executive for finance and accounting requirements, systems, and functions. That role includes the responsibility to “Direct the consolidation, standardization, and integration of finance and accounting requirements, functions, procedures, operations, and systems within the Department of Defense.” Developing standard, consistent, and effective requirements for DoD finance and accounting operations and systems is a priority initiative for the DFAS Financial Management Center of Excellence (FMCoE). The FMCoE has assigned this complex program to its Shared Services Division (SSD), which has gathered requirements from current statutory laws, regulations, and guidance, in addition to requirements from existing and developing DoD finance and accounting systems. SSD used functional experts from other DFAS organizations to select and edit the appropriate set of requirements.

The requirements contained herein will become the basis for all new finance and accounting operations and system acquisitions across the Department, and all existing DoD finance and accounting systems will migrate to these requirements as their budgets and priorities dictate.

* 1. Document Purpose

The purpose of this document is to present the context for standard DoD Foreign Military Sales requirements. That context is a description of the DoD Foreign Military Sales concept of operation, its standard business practices, and its operational processes. The processes are taken from the DoD Business Enterprise Architecture (BEA) and extended, as necessary, to complete a level of detail to which the requirements can easily be assigned.

Requirements information is presented in three parts: 1) the contextual description of the requirements project and its functional area, 2) the process models for this functional area, and 3) the requirement statements, business rules and best practices for this functional areas. The contextual description of this requirements project and its Foreign Military Sales are contained in this Functional Requirements Description (FRD). The process models, requirement statements, and business rules are presented in an accompanying spreadsheet.

This version of the FRD will serve as the definitive reference for Release 9.0 Foreign Military Sales functional requirements. It is a “living” document and will be updated as requirements change or is refined.

* 1. Scope

This document establishes the context for the DoD standard functional requirements in the area of Foreign Military Sales. It also comprises the most current Foreign Military Sales functional requirements resulting from analyses, reviews, and validations performed by Shared Services team members and Subject Matter Experts (SMEs). Detailed accomplishments which influenced the development of this FRD may be found in Section 3.0. A separate file (the repository listing) contains updated Foreign Military Sales requirements, process model, and other related information in spreadsheet format.

The Foreign Military Sales project’s purpose is to develop functional requirements and business rules consistent with commercial industry best practices and compliance requirements (laws, regulations, and policies), and to map them to implementation level processes consistent with the Business Enterprise Architecture. The Foreign Military Sales project objectives are to:

* Present standard Foreign Military Sales functional requirements that can be implemented for any DoD system.
* Provide requirements detailed enough so that no functional interpretation is required by system implementers.
* Provide requirements that are necessary, achievable, uniquely identifiable, singular, concise, unambiguous, complete, consistent and testable.
* Provide relevant information related to the logistical and financial management of Foreign Military Sales events, enhancing system development.
	1. Definitions

As used within this document, functional requirements, business rules, and best practices are defined as follows:

Functional Requirement – A statement that describes the intended behavior of a system by describing characteristics, attributes, conditions, constraints, or capabilities to which a system must conform in order to meet a need or objective.[[1]](#footnote-1) In this document, when the word “requirement” is used, it means functional requirement.

Business Rule – A statement that defines or constrains some aspect of the business or its architecture. It describes what a business must or must not do, or it describes the rules under which the architecture or its objects behave under certain conditions. Business rules are constraints that are process/activity specific and have no system impact.[[2]](#footnote-2)

Best Practice – A [management idea](http://en.wikipedia.org/wiki/Management_fad) which asserts that there is a [technique](http://en.wikipedia.org/wiki/Technique), method, process, activity, incentive or reward that is more effective at delivering a particular outcome than any other technique, method, process, etc. The idea is that with proper processes, checks, and testing, a project can be rolled out and completed with fewer problems and unforeseen complications.[[3]](#footnote-3)

1. The Enterprise Functional Requirements Program
	1. Overview

The Enterprise Functional Requirements Program is a set of projects to develop standard functional requirements, business rules, and best practices for DoD finance and accounting operations and systems. The requirements and business rules will be architecture-driven – meaning that they will be aligned to processes in the DoD Finance and Accounting Operational Architecture, which itself is aligned with the DoD BEA (see Figure 1).



Figure 1. Requirements Development Concept

Compliance requirements, business rules, and best practices have already been developed at the DoD enterprise functional level as part of the BEA. In most cases, the compliance requirements do not contain all the functional information necessary for an acquisition program, like DAI, GFEBS, Navy ERP, DEAMS, or BEIS, to properly implement and test the acquisition system. Therefore, this program develops functional requirements down to the level of detail such that acquisition programs do not need to make functional interpretations. Yet these requirements should not constrain the implementation in the non-functional ways, for example, by defining system specific data elements names. The Foreign Military Sales functional requirements and business rules were gathered from:

* Business Systems Modernization (BSM)/Enterprise Business System (EBS)
* Financial Management Systems Requirements Manual (DFAS 7900.4-M, *Blue Book*)
* Business Enterprise Architecture Version 6.0
* Federal Financial Management Systems (FFMSR-8)
* DoD Financial Management Regulation (DoD 7000.14-R)
* Federal Acquisition Regulation (FAR)
* Defense Federal Acquisition Regulation Supplement (DFARS)
* Treasury Financial Manual (TFM)
* OSD and DFAS Policies
* Core Financial Systems Requirements (OFFM-NO-0106)
* Security Assistance Management Manual (DoD 5105.38-M)
* Foreign Military Sales Case Reconciliation and Closure Manual (DoD 5105.65-M)

However, most of the requirements derived from the above are too high-level to be readily implemented by system engineers in acquisition program offices. Therefore, a large part of the effort of these requirements projects has been to refine the requirements taken from the above to bring them down to the implementation level, i.e., eliminate any need for the system engineer to make functional interpretation.

All functional requirements will adhere to the following quality characteristics: necessary, achievable, correct, unambiguous, complete, consistent, concise, singular, implementation-free, and testable. Once approved, the enterprise functional requirements will be given to all finance and accounting system offices for implementation in their respective systems.

|  |
| --- |
| Requirements Projects |
| Accounts Payable (Payment Mgmt) |
| Disbursing |
| Revenue and Accounts Receivable |
| General Ledger |
| Financial Reporting |
| Cash Accountability |
| Intra-Governmental |
| Inventory, Operating Materials and Supplies, Stockpile Materials |
| Property, Plant and Equipment |
| Managerial Cost Accounting |
| Human Resources and Payroll |
| Funds Control and Budgetary Accounting |
| Travel |
| Grants |
| Audit Trails and System Controls |
| Seized Assets |
| Eliminations (Intra-Governmental) |
| Field Level Reporting |
| Direct Loans |
| Guaranteed Loans |
| Benefits |
| Time and Attendance |
| Foreign Military Sales (Security Assistance Accounting)Non-Appropriated Fund Instrumentalities |

Table 1. Requirements Functional Areas

Because the DoD finance and accounting domain is so large, the enterprise functional requirements projects have been segmented into functional areas, similar to the chapters in “Financial Management Systems Requirements Manual”[[4]](#footnote-4).

The selected set of functional areas (i.e., requirements projects) is listed in Table 1. The first seven projects were executed in FY07 and are considered the *Core Financial Finance and Accounting* areas.

* 1. Functional Requirements Development Methodology

This, and each of the other requirements projects went through a similar process to gather, map, write, and validate requirements. Each project developed its own detailed work plan and detailed schedule taking into consideration their scope, priorities, and available resources. The SMEs were enlisted to help select those requirements that should be standardized, and they wrote additional requirements where the level of detail of those requirements initially gathered was not sufficient. The numerical order of the tasks in Table 2 indicates the approximate sequence of events.

1. Plan Project
2. Develop Processes
3. Identify and Gather Requirements, Business Rules, and Best Practices
4. Perform Mapping
5. Perform Initial Validation
6. Validate and Write Requirements
7. Deliver Release 9.0 Requirements and Documentation to Director, Shared Services for Approval

Table 2. High Level Development Tasks

* 1. Requirement Identification Format

The Foreign Military Sales requirements are uniquely identified by a combination of letters and numbers broken down into several parts. The first part is shown by 3 letters [FMS] followed by a dash (-) that identifies which functional area the requirement belongs. The first set of four-position numbers after the dash is a unique number assigned to the parent requirement. Subsequent sets of two-position numbers will be assigned to show children and/or grand children to a parental requirement. As an example, XX-0001.01.01 requirement number will be used as a reference.

 **XX-**0001.01.01**:** 2 position identifier that delineates functional areas

 XX- **0001**.01.01**:** Indicates this as requirement number 1 of the functional areas

 XX-0001**.01**.01**:** First child of parental requirement number 1

 XX-0001.01**.01:** First child of child requirement number 1

1. Foreign Military Sales Concept of Operation

In July 2009, the SSD was tasked to establish a set of functional requirements for Foreign Military Sales. To accomplish this mission it was necessary to map all requirements extracted from the sources listed in section 2.1 to the current BEA model and identify any gaps if they existed.

First, the working group gathered existing Foreign Military Sales functional requirements and business rules from available sources. These requirements were consolidated, reviewed and pre-validated by the working group. The working group also documented the standard DFAS process.

Next, Foreign Military Sales SMEs were invited to participate in a series of Joint Application Development (JAD) sessions to review and validate the requirements for applicability as a DoD standard in each process area. The functional requirements were defined to a level ensuring consistency of internal controls, reporting, and accounting and to make certain each functional requirement can be implemented consistently across all Enterprise Resource Planning (ERP) systems. If SMEs felt additional requirements should be written to add clarity or detail, they drafted new requirements. If issues were uncovered at any time during this development process, they were identified, logged, and worked toward resolution.

From the BEA diagrams, the Foreign Military Sales Working Group determined what additional processes were needed. The group then identified gaps within the Foreign Military Sales process models and steps. The Foreign Military Sales Working Group then mapped the standard functional requirements to the applicable process diagram. The review of processes and mapping of functional requirements to business processes served to identify:

1. gaps in the objects and related descriptions included in the diagram,
2. the need for further decomposition or changes to the BEA baseline diagram, and
3. the need for additional functional requirements to complete the standard requirements package.

The accompanying spreadsheet contains the standard functional requirements, business rules, and best practices mapped to the appropriate process flows/steps.

* 1. Foreign Military Sales Functional Overview

Functional requirements developed for Foreign Military Sales are driven by operational architecture and compliance requirements. One of the features of this project is the validation of the BEA processes and their extension, where needed. As such, the business processes models defined in the BEA OV-6c model have been used as a starting point for the identification and development of more detailed Foreign Military Sales business processes. When needed, the BEA processes are further decomposed to provide additional detail and to ensure that a standard comprehensive process is defined.

As the processes were identified, the functional requirements were mapped to them. This includes identifying the BEA process flow (e.g. Accounts Payable (AP)/Accounts Receivable A/R), BEA process name (e.g. Conduct Payables/Conduct Receivables) and the DFAS process name (e.g. Foreign Military Sales).

It should be noted that only the process steps associated with Foreign Military Sales are being addressed by this document. Therefore, in some instances, the incorporated business process models will not completely reflect the BEA model. If process steps in the BEA process model are omitted from this document, it is NOT indicating they are not required. It is only an indication that they are not applicable to the Foreign Military Sales requirements defined to date.

The FMS process is unique in that a majority of FMS requirements reside in Accounts Payable, Accounts Receivable, Financial Reporting, Funds Control and Budgetary Accounting, General Ledger, and Managerial Cost Accounting. Another portion of the FMS unique financial requirements are performed by DFAS-IN and Defense Contract Management Agency (DCMA) and not in the ERP’s.

* 1. Foreign Military Sales Practices

The requirements in the database were developed for all systems and business operations to be compliant with the Foreign Military Sales DoD financial and accounting requirements. Additionally, by complying with these requirements, systems and business operations will be compliant with the applicable laws, regulations and policies.

* 1. Release 9.0 Scope
		1. Map Requirements to BEA Processes

During Release 9.0 the Shared Services completed integration or cross-function validation of the functional requirements. Requirements were mapped to the lowest level possible within the BEA architecture and, if appropriate, to multiple lower levels. Once completed, the requirements functionally linked by architectural process were identified. Shared Services integrated these requirements by reviewing, analyzing and updating the requirements based upon missing or necessary architectural and functional links.

* + 1. Review Requirements Linked by Processes

The Shared Services Branches further integrated functional requirements by identifying requirements that were touch points between functions. The teams conducted cross team reviews and updated the requirements based upon touch points between the functions.

* + 1. Validate Requirements Source Information

Authoritative Source updates to the requirements included Regulation or Policy changes received through May 2011. Shared Services updated the requirements based upon peer and Branch Supervisory reviews.

* + 1. Perform Team Quality Review of Requirements

In Release 9.0, the functional branches continuously performed internal team reviews of the requirements to ensure that all functional requirements adhered to the following quality characteristics: necessary, achievable, correct, unambiguous, complete, consistent, concise, singular, implementation-free, and testable. All requirements that were not written to the standards above were either rewritten, rejected, or transferred for management decision.

* + 1. Develop Additional Process Models

The Foreign Military Sales developed additional process models.

* + 1. Compare Requirements to DoD Transaction Library

The Foreign Military Salestransactions were not compared to the DoD Transaction Library since Foreign Military Sales does not create transactions.

1. Foreign Military Sales Points of Contact
	1. Shared Services Division Hotline Email

The SSD has established a hotline email address which may be used to provide comments or request information regarding the use of the Foreign Military Sales FRD. The Shared Services Hotline email is fmcoesharedservices@dfas.mil.

* 1. World Wide Web

The FMCoE, SSD has established a web site titled "Standard Finance & Accounting Requirements" which may be used to access Foreign Military Sales Requirement Documentation. The web site URL is: <http://www.dfas.mil/dfas/fmcoe/sfareq.html>.

* 1. Scenario Database

Shared Services implemented a Scenario Database for writing, storing, updating and retrieving the functional requirements for mapping to various Scenarios. Requirements for all Foreign Military Sales are included in the Database. Tailored Access Reports are available for staff use; however, tailored Access Reports can be made available for customer use upon request.

* 1. BEA 8.0 Architecture

Below is the link to the BEA 8.0 architecture where you can view diagrams, processes, and activity models.

 <http://www.bta.mil/products/BEA_8_0/index.htm>

# Appendix 1 – Acronyms

|  |  |
| --- | --- |
| AP | Accounts Payable |
| AR | Accounts Receivable |
| BEA | Business Enterprise Architecture |
| BEIS | Business Enterprise Information System |
| BEP | Business Enterprise Priority |
| BID | Business Integration Division |
| BPM | Business Process Model |
| BPR | Business Process Reengineering |
| BTA | Business Transformation Agency |
| CA | Cash Accountability |
| CCB | Configuration Control Board |
| DEAMS | Defense Enterprise Accounting and Management System |
| DFAS | Defense Finance and Accounting Service |
| DISB | Disbursing |
| DMI | Desktop Management Initiative |
| DOORS | Dynamic Object-oriented Requirements System |
| DoD | Department of Defense |
| ERP | Enterprise Resource Planning |
| FASAB | Federal Accounting Standards Advisory Board |
| FASB | Financial Accounting Standards Board |
| FBS | Functional Business Support |
| FMCoE | Financial Management Center of Excellence |
| FMR | Financial Management Regulations |
| FMS | Foreign Military Sales |
| FR | Financial Reporting |
| GAAP | Generally Accepted Accounting Principles |
| GAO | Government Accountability Office |
| GFEBS | General Fund Enterprise Business System |
| GL | General Ledger |
| HPO | High Performing Organization |
| IG | Intra-Governmental |
| IT | Information Technology |
| JAD | Joint Applications Development |
| MCA | Managerial Cost Accounting |
| OA | Operational Architecture |
| SME | Subject Matter Expert |
| SSD | Shared Services Division |
| WBS | Work Breakdown Structure |

1. SSD Road show Presentation [↑](#footnote-ref-1)
2. DoD Architecture Framework, Vol. II [↑](#footnote-ref-2)
3. Wikipedia (www.wikipedia.com) [↑](#footnote-ref-3)
4. Formally, this document is entitled DFAS 7900.4-M, Financial Management Systems Requirements Manual. Informally, this book is sometimes referred to as the *Blue Book*. [↑](#footnote-ref-4)