

# Design/Develop Support Subsystem

## INPUTS

ILC Quad Model

RAM predictions

DT Plans/ Reports

TEMP

Supportability  
Demonstration Plan

Contract

ICD/ CDD/ CPD

COE

Functional Baseline

Allocated Baseline

Updated Supportability  
Plan/Strategy

Updated LRFS / LCCE /  
POM

SAMP



## Activities

- Using RCM analyze FMECA, LORA and MTA data to make supportability decisions
- Apply Quad Model to Maintenance Significant Items
- CDR



## OUTPUTS

Draft Fielding Plan

Supportability Plan

Non-Validated  
System Support  
Package

Test Support  
Package

Configuration  
Baseline

Updated  
Supportability  
Demonstration Plan



= Logistician Responsibility



= Requires Logistician Input

**FIELDING PLAN**  
**FOR THE**  
**[PROGRAM TITLE]**



**Date**

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**MDA Auth Signature**

**FIELDING PLAN  
for the  
[PROGRAM TITLE]**

**1. Fielding Methodology.** The method of fielding shall be a coordinated decision between Headquarters, Marine Corps (HQMC) (Advocate); Marine Corps Combat Development Command (MCCDC) (Requirements); and the Program Office based on operational mission requirements. Discuss whether the system will be fielded "horizontally" (a fair share of a production year's deliveries distributed to all field units authorized to receive the new equipment) or "vertically" (a preponderance of a production year's deliveries distributed to only one of the field units authorized to receive the equipment) and the rationale for the fielding methodology. The allowances and projected delivery schedule for the system/equipment fielding shall be reflected in Appendix A and based on current force structure.

**2. Method of Fielding.** Address the use of Total Package Fielding philosophy. Discuss how the gaining commands will receive the equipment (i.e., force fed or if the gaining unit is required to submit a requisition, etc.). Also, identify how associated modification kits will be fielded and who will install the modifications (depot teams, gaining commands, contractors, etc.). The schedules for delivery and installation of the modification kits should also be included. Identify whether a Fielding Conference has been held and discuss any decisions made that would impact fielding.

(Note: The PM should ensure that deliveries for fielded equipment are linked with the Maritime Prepositioned Force (MPF) projected schedules as published by the Military Sealift Command. The ships only pass through Blount Island Command every three years and if an opportunity exists to on-load the newest assets available it provides a better force in readiness.)

**3. Points of Contact.** List the position, command address, telephone number, and e-mail address of the personnel responsible for fielding (Logistics Manager, Project Officer) and initial support (MARCORLOGCOM, Albany, GA; contractor, and technical specialist.)

<b>Position</b>	<b>Location/Code</b>	<b>Telephone/DSN</b>	<b>E-mail Address</b>

**4. Administrative Information.** Provide the following administrative information about the system/equipment:

a. **Nomenclature.** Use the descriptive title assigned to the system/equipment determined during the cataloging process. If the Marine Corps is the lead service in the acquisition, the nomenclature is provided as a result of processing a Catalog Action Request (CAR) (MCO 4410.27A). If the lead service is not the Marine Corps, the nomenclature assigned by the lead service is used.

b. **Table of Authorized Materiel Control Number (TAMCN)**. The TAMCN is assigned by Marine Corps Combat Development Command (MCCDC), Total Force Structure Division (TFSD) and identifies major end items in the Marine Corps inventory.

c. **Stores Account Code (SAC)**. The SAC is used to differentiate between appropriation financed principal end items; appropriation financed secondary items, and stock fund items. Information on assignment of SACs is found in UM 4400.71.

d. **National Stock Number (NSN)**. The NSN is assigned by the Defense Logistics Information System (DLIS) in response to a CAR.

e. **Item Designator (ID)**. The ID is a six-character (five numeric digits followed by a single alpha character) identifier assigned by Marine Corps Logistics Command (MARCORLOGCOM) to a system, major item, or multiple-use major component in conjunction with a CAR. The ID numbers are used to control and designate equipment, systems, kits, sets, their components, repair parts, and technical publications.

f. **Unit of Issue (UI)**. Indicate the standard or basic quantity into which the weapons system or equipment is divided, issued, or used as it appears in the DoD supply system.

g. **Unit Cost (UC)**. Provide the unit cost for the system/equipment. The cost should include not only the cost of a single system but including the cost of any Government Furnished Equipment (GFE), Government Furnished Material (GFM), and fabrication costs incurred by the government activities.

h. **Support Costs**. Support cost should be the cost to operate and maintain one system or piece of equipment for one year. Additionally, the programmed estimated of Operations and Maintenance, Marine Corps (O&MMC) and O&MMC Reserve identified in the program budget should be provided, so that gaining commands are aware of what costs were programmed within the budget process for support of the system/equipment by Active and Reserve Forces. [Note: This cost should come from the Logistics Requirements and Funding Summary (LRFS).]

Command	Element	FYXX	FYXX	FYXX	FYXX	FYXX	TO COMP
I MEF	Intermediate Repair						
	Supply Spt - Other						
II MEF	Intermediate Repair						
	Supply Spt - Other						
III MEF	Intermediate Repair						
	Supply Spt - Other						
RESERVES	Intermediate Repair						
	Supply Spt - Other						

i. **Physical Characteristics**. Describe the physical configuration of the system and equipment. The following information shall be provided:

	Operational Configuration	Storage and Shipping Configuration
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Length	Inches	Inches
Width	Inches	Inches
Height	Inches	Inches
Square [Note 1]	Inches	Inches
Cube [Note 2]	Inches	Inches
Weight	Pounds	Pounds
Stowage [Note 3]		
Notes: 1. Square dimensions applicable to system and equipment such as vehicles. Formula for computation of square dimensions is length x width divided by 144. 2. Cubic dimensions applicable to containerized systems and equipment. Formula for computation of cubic dimensions is length x width x height divided by 1728. 3. Type in words "square" or "cubic" for the preferred method of storage. This tells the users how the item is stowed (i.e., can this item be stacked).		

- j. **Petroleum, Oil, and Lubricants (POL).** Specify POL requirements by type, estimated consumption rates, and whether or not the system and equipment are candidates for the Joint Oil Analysis Program (JOAP) per MCO 4731.1A. A lube order will not satisfy the paragraph requirements. It is important to include what the user will require for operation of the item.

POL TYPE	CAPACITY	ESTIMATED CONSUMPTION

- k. **Equipment Density.** Specify whether the equipment is considered normal or low density. MCO P4400.150E has redefined equipment density and specifies criteria that principle end items (PEIs) meet to be classified as low density.

- l. **Resource Reporting.** Marine Corps Ground Equipment Resource Reporting (MCGERR) criteria. Once this equipment reaches 85 percent of its planned allowances within the Marine Corps, Commanders may nominate this TAMCN to be included in the MCBUL 3000, in accordance with MCO 3000.11C.

- m. **Power Requirements.** If the system/equipment requires external power, specify the requirements for voltage, frequency, phase, and watts as appropriate, and the source of the power; i.e., dedicated or pool. Identification of any external or special power requirements for environmental control units, special test and diagnostic equipment, or other system components having additional or special power requirements should be included. Specify whether the power source is supplied with the equipment, drawn from the existing Marine Corps inventory, or acquired separately to support the equipment. If applicable, identify batteries by size (i.e., C, AA, AAA, etc.), quantities, and type (i.e., lithium, nickel-cadmium, etc.).

n. **Associated Weapons Systems and Equipment.** Identify by nomenclature, NSN, and TAMCN any equipment (new or existing) that is used in conjunction with the system and equipment.

Nomenclature	NSN	TAMCN

**5. Fielding Support.** Describe in detail only those supportability elements pertaining to the fielding and sustained support of the system/equipment. Do not address supportability elements that do not pertain nor include N/As. If not all support identified will be available, or in-place at the time of fielding, provide information concerning address each specific support element and provide a “get well” plan.

**6. Maintenance Support.** Describe the maintenance concept for the system and equipment, to include the basic maintenance tasks to be performed at each level of maintenance for the system and equipment, i.e., organizational, intermediate, and depot. If an item is being supported via warranty for a certain period of time, explain how maintenance will be performed at each echelon once that warranty has expired. If applicable, address other maintenance support arrangements to include Inter-Service Support Agreements or Memorandums of Agreement with lead service support component.

**7. Designated Support Depots.** Identify the depot(s) designated to support the system, both organic support depots and contractor support depots. Provide specific information concerning the contractor support depot to include who is responsible for budgeting and paying for the contractor services, the length of the support provided, any special procedures to be followed in returning equipment to the contractor (such as "ship to" and "mark for" instructions); who pays to/from costs of equipment being returned to the contractor; and the interaction between contractor and operating force personnel. If there is a plan to transition to organic depot support, provide specific information concerning transition and how, when and by whom it will be accomplished.

**8. Calibration Requirements.** Provide specific information concerning system/equipment calibration requirements, procedures for obtaining the required calibration, and calibration schedule.

**9. Contractor Support Requirement.** Describe in detail all Interim Contractor Support (ICS) and/or Contractor Logistics Support (CLS) associated with the system/equipment. Include information concerning operational, supply, materiel management, and maintenance levels responsibilities of the contractor. If ICS is used, provide the date transition to organic support is planned (if applicable). If contractor personnel will be in the field, identify the number of personnel, the sites where they will be located, embarkation data for any equipment with which they may be deploying (length, width, height, weight, square feet and cubic feet), any special transportation or Material Handling Equipment (MHE) requirements (e.g., sensitive calibration equipment that can only be transported via Air Ride/Cushion suspension vehicles), any POLs and Hazardous Material (HAZMAT) requirements beyond what the contractor is able to provide,

the facilities and equipment that must be available to them by the gaining organizations and a contractor POC for logistics in cases of deployment. Also, address deployment support and/or combat operations in detail.

**10. Manpower/Personnel.** Identify the Table of Organizations (T/Os) that will be affected by the fielding of the system/equipment; and list by Military Occupational Specialty (MOS) the personnel that will be required to operate and maintain the system.

**11. Training.** Provide information concerning types of training (operator and/or maintainer) that will be provided during fielding, i.e., New Equipment Training (NET). List sources of the training, who will conduct the NET training, number of NET classes to be conducted, projected dates of training, student class size for each type of training, number of hours of training, including the requirement for gaining commands and/or formal schools to provide personnel for NET training. Identify, if applicable, any resident, correspondence, on-site training, or distance learning training in conjunction with the fielding of the system. Provide procedures for requesting quotas for training, if required.

**12. Training Support Items.** Provide information concerning training support items that are required by the units receiving the new system and equipment, identify the source(s) of supply for the items, delivery dates and how items will be provided.

**13. Supply Support.** [Note: If initial issue provisioning (IIP) for the system/equipment comes through MARCORLOGCOM this paragraph should contain the provisioning project number. If the IIP does not go thru MARCORLOGCOM the Program Manager must provide the gaining command with a provisioning letter, which identifies all provisioned items, provides NSN or part number, and quantity by unit. This also applies to a CLS contract.]

Provide Project Code assigned for both in-stores and out-of-stores IIPs. Identify where IIP will be shipped, per MEF Sponsor, either to gaining unit or Intermediate Supply Support Activity (ISSA) General Accounts. If IIP is being shipped to ISSA General Accounts provide TAMCN, Project Code, Nomenclature, ID Number and NSN of principle end item. Identify if and describe how the gaining units will requisition support consumables. Provide specific nomenclature(s), item number(s), NSNs (if available), quantity and cost of items that will be required to be purchased for initial support.

**14. Support Equipment.** Identify by nomenclature, NSN, part number and TAMCN all support equipment (special tools, common tools, Special Purpose Test Equipment (SPETE), General Purpose Test Equipment (GPETE), application program sets, test program sets, or other support equipment) required to support the system/equipment.

For new support equipment, provide information concerning the procurement, fielding, and life cycle support for each item. This information should include how, when and the quantity of equipment being provided.

**15. Technical Publications (TP).** Identify all technical publications by TM identification number, title, and publication control number (PCN). Provide information on the method of fielding (e.g., over-packed with equipment, force fed, or unit requisition).

**16. Computer Resources Support.** Identify whom the software support activity. Provide post deployment software support procedures and responsibilities in detail.

**17. Facilities.** Provide information concerning new facilities or existing facility associated with the fielding of the system/equipment.

**18. Packaging, Handling, Storage, and Transportation**

(1) **Packaging.** Describe any special packing or packaging such as special materials, special containers, size limitations, and if applicable, HAZMAT requirements. Also, if applicable, include requirements for repackaging for shipment and return for repair. If reusable containers are used, provide instructions, including provision for and management of reusable shipping containers.

(2) **Handling.** Describe any special procedures and equipment, to include HAZMAT required to handle the weapons system and equipment.

(3) **Storage.** Describe any special or unique storage requirements including security requirements and HAZMAT considerations.

(4) **Transportation.** Describe the methods of commercial and non-tactical transportation required for the system/equipment. Provide information concerning any certifications that have been obtained, or are required to be obtained, prior to transportation of the system/equipment. Provide information concerning unique requirements and procedures for transporting the system and equipment and its related support equipment. Identify if there are any special in-transit security or HAZMAT requirements, if the system or equipment must be broken down prior to embarkation, if the system or equipment must be embarked on something other than a 463L pallet for transportation via air, and if the system or equipment has to be transported via an Air Ride/Cushion suspension vehicle.

**19. Warranties.** Describe all warranties in detail. For extensive warranty information, a separate Supply Instruction (SI) may be published (include SI number and PCN). If a separate SI is not published prior to fielding, then describe all warranties in effect at the time of system fielding. Provide the following information: (1) the type of warranty, start date, and the length of time it will be in effect; (2) a list by nomenclature, part number, NSN (if available), and TAMCN (if available) of the items that are covered by the warranty (if necessary, include as an appendix); (3) Identification of the organizational code, DSN phone number, and a unit e-mail address (if available) for who will administer the warranty at MARCORLOGCOM; (4) the responsibilities of the manufacturer, the warranty administrator, and the field units; and (5) any special handling or maintenance instructions involved because of the warranty provisions.

**20. Materiel Defects Reporting.** Identify that form, fit or function discrepancies will be reported via a Product Quality Deficiency Report (PQDR) (i.e., MCO 4855.10B). Describe how shipping and packaging discrepancies will be reported (i.e., via SF 364, Supply Discrepancy

Report) per SECNAVINST 4355.18 (Reporting of Item and Packaging Discrepancies), or by the MFT on-site.

**21. Security Requirements/Controlled Item.** Describe the system security requirements and procedures used for product management. Specify whether or not the system is classified as a controlled item, as concurred with by HQMC (LPP-1) and list the directives that apply.

**22. Environmental, Safety, and Health (ESH).** Identify any environmental (hazardous material) and safety and health-related information applicable to placing the equipment in service.

**23. Disposal (Replaced Weapon Systems/Equipment Phase-out) Information.** If disposal instructions are not available, provide the date the instructions will be available, the POC who will provide those instructions, and the method by which the instructions will be promulgated. If specific disposal instructions are not required, the units will be instructed to take proper disposal actions per MCO P4400.82F and UM 4400-124. Describe whether retrograde of gaining units existing equipment is required. If applicable, a phase out plan should be developed that contains disposal methodology, to include environmental and HAZMAT considerations and requirements, schedules, and POCs. [Note: If a determination is made by the PM that a separate phase-out plan is not applicable, this paragraph should describe in detail the process for disposal of the existing system/equipment, or other identified support equipment.]

**24. Fielding Responsibilities.** This paragraph is optional and included when a Materiel Fielding Team (MFT) is used. Identify all units that will have stake in fielding, i.e., MCTSSA, Blount Island Command, Joint Commands, etc. Identify summary of actions required for support of the MFT and each major command's roles and responsibilities. Information contained in the fielding responsibilities should be based on MARCORSYSCOM Fielding Policy Letter, XXXXXX, and may include:

a. **Gaining Commands**

(1) Establish a MEF Sponsor as the single POC with authority to resolve problems encountered during the fielding process. Describe whether a representative must be on hand and authorized to sign receipt for the unit.

b. **MARCORSYSCOM**

(1) Ensure MCCDC (TFSD) is notified when the Fielding Plan is signed by the Milestone Decision Authority (MDA) so that allowance data coincides with the project in-service date.

(2) Describe requirement for personnel, facilities, material handling equipment, and administrative support for the MFT during the new equipment training and hand-off.

(a) Describe requirement for secure space large enough to unpack, inventory, inspect, perform operational checks, and store items.

(b) Describe requirement for classroom training.

(c) Identify requirements for access to an office area equipped with Class “A” phone service for use by the MFT.

(3) Provide an MFT to conduct joint inventory, hand-off, and all other actions required to introduce a new product to the Operating Forces.

(4) Designate an MFT Leader and assign participants to the MFT.

(5) Coordinate funding, billeting, and transportation requirements for the MFT.

(6) Transmit a naval message 15 days prior to the MFT arrival identifying specific personnel on the team and their security clearance(s), as necessary.

(7) Coordinate with the gaining command(s) regarding the time, facilities, and personnel required for the fielding effort.

(8) If needed, address MARCORLOGCOM requirement to provide temporary storage of the item being fielded.

(9) Establish IIP projects, submit documentation to procure IIP.

(c) **COMMARCORLOGCOM, Albany**

(1) Identify MFT member(s) and provide information regarding security clearances to MARCORSYSCOM.

(2) Support MARCORSYSCOM in the acquisition and fielding of equipment and monitor NSNs attainment.

(3) Assign a warranty administrator to resolve warranty issues unresolved by user community, track PQDR’s for trend analysis, and report results to the PM.

(4) Assign Materiel Manager, establish and maintain WIR process.

(d) **Software Support Activity**. Identify participant(s) to the MFT and provide information regarding security clearances to MARCORSYSCOM.

**25. Actions Required to Place Equipment in Service**. Summarize actions required to place the equipment in service and state each major command’s roles and responsibilities. If fielding to MPF/NALMEB add MARCORLOGCOM and Blount Island Command responsibilities during fielding.

a. **Gaining Commands.** This paragraph should provide gaining commands of actions required by them to place the equipment in service. At a minimum, the following elements shall be addressed:

(1) Identify whether acceptance inspection will be accomplished during the fielding process. Identify whether a representative from gaining units must be on-hand and authorized to sign receipt for system/equipment.

(2) Identify the need to notify COMMARCORSYSCOM and COMMARCORLOGBASES when new equipment is placed in service.

(3) Define actions required to obtain additional equipment to support the functionality of new product fielding, if necessary.

(4) Define methods to account for the new assets per MCO P4400.150E and MCO P4400.82F.

(5) Define requirements to submit post fielding evaluation reports per MCO 4105.4 and TM 4420.15/1.

b. **COMMARCORLOGCOM.** Detail any unique responsibilities of MARCORLOGCOM in issuing the new systems and equipment. Information may include, but not be limited to, the following:

(1) Establish and implement administrative control mechanisms for the supply support and depot level maintenance programs, which are provided by contractors or a system integration facility.

(2) Provide gaining unit requests for Table of Equipment (T/E) deficiencies required for supporting the functionality of the new product.

**26. Post Production Support.** [Note: MARCORSYSCOM will maintain life cycle management of the system per MCO 4105.4 and TM 4420-15/1.]

**Logistics Management Specialist.** Provide information for Post Production Support of the system/equipment after Full Operational Capability (FOC) has been achieved, and all relative support elements have been satisfied. Identify who will manager the system/equipment under the cognizance of the Logistics Management Specialist (LMS) at COMMARCORLOGCOM. Identify membership of the Life Cycle Management (LCM) Team and any additional related logistics matrix support that will be needed to augment or assist the LCM Team.

**Supply Support.** Provide information concerning secondary item support, consumable items support and supply support assessment.

**Software Support.** This paragraph is optional and included when the fielded product contains SW. Detail any unique responsibilities of the software support activity supporting the new systems and equipment. Information may include: (1) point of contact for all SW related issues; (2) the establishment, operating, and maintaining a software and/or web page help hotline.

**Configuration Management and Engineering Changes.** Address configuration management and engineering changes after FOC, include who will assume primary responsibility for configuration management, approval authority for Engineering Change Proposals (ECPs), etc.

**Appendix A – Allowances & Delivery Schedule**