

**Attachment J-16**  
**RRF Management System (RMS) - Brief Overview**

MARAD is in the process of developing and transitioning to a new information support system called RRF Management System or RMS. It is part of a larger effort to improve Business Processes within the Program.

MARAD intends to have a COTS-based information technology solution to support the requirements of the RRF, from business planning solution concept design to full operational capability, as well as professional services for data analysis and conversion, operations and support planning, and documentation.

This shall include identifying the hardware and the infrastructure requirements for Onboard Ship LANs supporting up to five RMS workstations. The RMS shall be configured and installed for operation within the MARAD Enterprise Architecture providing capability at MARAD Headquarters; three MARAD Region HQ Offices and associated field and fleet offices; various contracted Ship Manager organizations, currently nine; and aboard numerous RRF ships in port and at sea, currently numbering 68. The RMS shall also be useable from remote locations when users are traveling or working from temporary locations.

The RMS system requirements shall include but are not be limited to:

- (a) Data Integration, strategic planning, budget development, and business planning as well as program and project management, historical maintenance and cost data.
- (b) A maintenance management capability for forward planning, actual tracking and analysis that includes maintenance history, machinery history, interface with spare parts utilization and inventory, corrective and unscheduled maintenance, preventive maintenance actions, and regulatory inspections.
- (c) An automated tracking process to show the progress toward measurable goals for RRF strategic objectives and business processes. The new system will incorporate program performance measures to account for inputs, outputs, and resulting program outcomes.
- (d) Single point of data entry, and smooth and seamless interfaces with the various support systems, and near real-time data accessible to all authorized users regardless of location.

RMS shall replace the following legacy systems and functions: Maritime Administration Automated Vessel Information Systems (MAAVIS); Maintenance and Repair Tracking System (MARTS) and Project Administration System (PAS).

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It may link or replace depending on the system selected the Maritime Logistic Support System (MLSS).

It should interface, either through data import/export features or an APL with  
EIS (MARAD's Electronic Invoicing System)  
Free Balance (MARAD's financial system)  
IDEAS-PD (the Interior Department Electronic Acquisition System)

The RMS environment is comprised of the following components:

- Workstations
  - Operating system – Windows NT, 2000, and XP
  - Outlook 97 and greater
  - MS Office 97 Professional Suite and greater
  - MS Internet Explorer 4.0. and greater
  - MS Project 98 and greater
- Remote Systems
  - Operating systems – Windows NT, 2000, and XP
- Servers
  - Operating system – Windows NT Server/Windows 2000 Server
  - Microsoft SQL Server
  - Microsoft IIS Web Server
  - Microsoft Exchange 5.5. and greater
- Network
  - TCP/IP Protocol Suite
  - Ethernet-based LAN
  - CISCO-based WAN (Routers and Switches)
  - Frame Relay Technology
  - Remote – Modem and VPN
  - Satellite

The Data Architecture shall include considerations for:

- Data sources:
  - Manual input (maintenance actions, planning, etc.)
  - External systems interfaces (finance, contract writing, logistics, etc) (flat file, automated mapped calls, etc.)
  - RMS historical data

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- RMS derived data from functional processing (reports, performance measures, invoicing, etc.)
- Data storage and backups
  - Centralized data storage and processing
  - Centralized data backup
  - Ship based database storage, transmission and synchronization
  - Shore database storage, transmission and synchronization
- Data processing
  - Client and server functions and rules
  - Ship based client and server processes
  - Shore based client and server processes
  - MARAD region and Headquarters client and server processes
- Data Transmission
  - Ship to shore (batch / near-real-time)
  - Local to regional server (batch / near-real-time)
  - Local to central server (batch / near-real-time)
  - Local to MARAD network (batch / near-real-time)

RMS is unlikely to be fully functional at time of Ship Manager Contracts award or Notice to Proceed, but will be phased in as it becomes available.