

1. INTRODUCTION

The Army Food Management Information System (AFMIS) system administrator/database administrator (SA/DBA) must provide all AFMIS end-users with an accessible and distraction-free computer environment. This requires that the AFMIS SA be familiar with operations of the SCO UNIXWARE operating system software, INFORMIX software, and AFMIS applications software database running on a COMPAQ Proliant. The AFMIS SA will be asked to respond to a variety of requests from end-users, who are unfamiliar with problems encountered in a data processing environment. Each of these requests must receive an expeditious and courteous response to preclude unnecessary processing delays, frustration, and loss of confidence in AFMIS.

1.1 Background

The *Army Food Management Information System, Systems Administrator Handbook* was first published in April 1994, as an informal reference guide. This revision presents all the implementation changes as they apply to the SA.

1.2 Objectives

This handbook is to provide the SA/DBA with a working guide to many responsibilities and procedures inherent in managing AFMIS. While much information is provided, it must be supplemented by the study of system hardware reference manuals, SCO UNIXWARE operating system software reference manuals, INFORMIX reference manuals, and AFMIS Computer Operation Manual (OM). A generous application of good common sense is also recommended. The objectives of this handbook are to:

- Clearly identify many of the SA/DBA technical responsibilities for the COMPAQ Proliant system, peripheral equipment, and the AFMIS application software installed on this equipment.
- Provide the necessary information or identify other publications where this information can be found, to assist the SA/DBA in understanding their responsibilities.
- Provide the necessary information or identify other publications where this information can be found, to assist the SA/DBA in the satisfactory performance of their responsibilities.

1.3 Applicability

This handbook was prepared, specifically, for the COMPAQ 1600 series. Portions of this handbook have been, specifically, designed for the AFMIS SA/DBA. This handbook, generally, applies to the operation of AFMIS at the installation level. AFMIS is a Standard Army Management Information System (STAMIS) which was not tailored for use at a specific installation. While references are provided to regulatory and technical documentation, no attempt has been made to duplicate all information available from these sources.

The SA/DBA must be concerned with all aspects of the Automated Information System (AIS) environment. The objectives of the SA/DBA include, but are not limited to, the following:

- Establish and maintain a formal record of all AFMIS automated data processing (ADP) equipment.
- Establish and maintain a filing system for maintenance agreements covering all AFMIS ADP equipment.
- Establish and enforce security procedures.
- Establish and maintain a tape library.
- Establish and maintain a Continuity of Operations Plan (COOP).
- Establish and maintain standing operating procedures (SOP) necessary for uninterrupted operation of AFMIS.
- System configuration (external and internal) management.
- System operation and maintenance.
- Training of end-users (functional and technical).
- Installation and application of upgrades to the operating system and application system software.
- Create, recreate, and maintain the application databases and data.
- Maintain application software directories.
- Analyze, report, and/or solve system and application problems.

1.4 Document Organization.

This document contains ten narrative sections. The sections are as follows:

- Section 1, Introduction, provides background information and states the objective and applicability.
- Section 2, System Overview, gives a brief synopsis of the AFMIS operating system and subsystems.
- Section 3, AFMIS Hardware, explains hardware setup and configuration as it pertains to AFMIS.
- Section 4, SCO UNIXWARE, gives a basic presentation of the operating system and system administration tools available to the AFMIS SA using Graphical Interface windows.
- Section 5, INFORMIX, provides an explanation of the AFMIS database structure and several examples of the structured query language database manipulation syntax.
- Section 6, AFMIS Directory Structure, gives a graphic presentation of the AFMIS file system structure.
- Section 7, System Back-ups and Recovery, provides back up and recovery procedures, as they apply to AFMIS.
- Section 8, Batch Process for AFMIS, outlines the processes the AFMIS SA must perform.
- Section 9, System Security, provides security measures to secure AFMIS.
- Section 10, Problems and How to Solve Them, provides a structured approach to correcting errors that occur in AFMIS.

Corrections, clarifications, or additions to this handbook should be submitted in writing to:

U.S. ARMY SOFTWARE ENGINEER CENTER LEE
ATTN AMSEL SE LSB
3901 A AVENUE SUITE 150
FORT LEE, VA 23801-1807