

2. SYSTEM OVERVIEW

2.1 Subsystem Overview and Interaction

AFMIS was developed to reduce waste, fraud, and abuse discovered in the Army Food Program by various audit agencies and enhances management and control of the subsistence management functions at the installation level.

AFMIS accomplishes these goals by providing accurate and comprehensive stock and financial accounting processes at the dining facility and Troop Issue Subsistence Activity (TISA) levels. A full range of interactive inquiries against system files, management reports, and processes permit each dining facility to conduct short and long term menu planning.

The AFMIS application is comprised of the following six interactive subsystems and an End-of-Day/End-of-Month (EOD/EOM) function:

| | |
|----------------------------------|----------|
| Troop Issue Subsistence Activity | (TISA) |
| TISA Warehouse | (TISA-W) |
| Installation Food Advisor | (IFA) |
| Dining Facility Operations | (DFO) |
| Prime Vendor | (PV) |
| Decision Support System | (DSS) |

All subsystems are located on the server. The TISA, TISA-W, and IFA subsystems interface by way of a shared database structure and data files. The DFO subsystem is supported by a separate, dedicated database structure and data files. The exchange of information between these two databases is accomplished by the automated "Send" and "Load" facilities within the DFO and TISA subsystems (EOD). Figure 2.1-1 depicts the AFMIS system hierarchy.

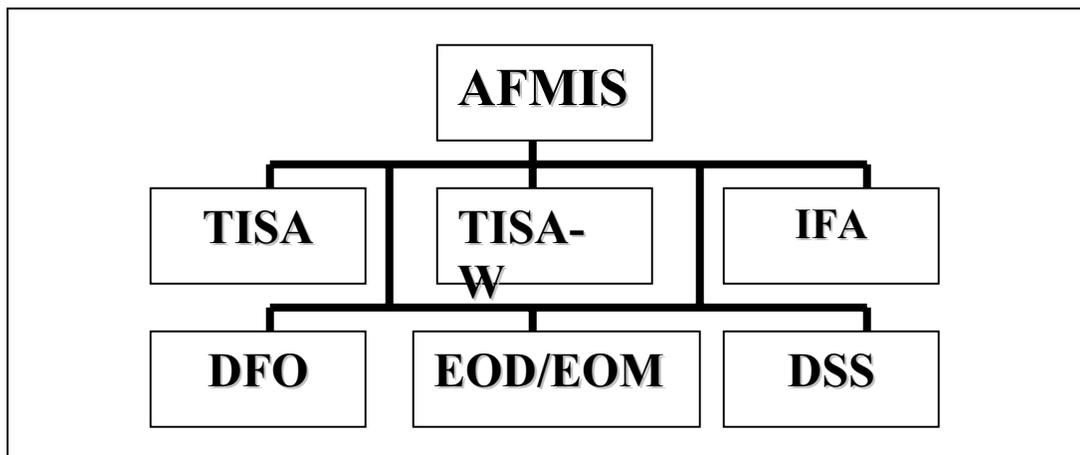


FIGURE 2.1-1 - AFMIS System Hierarchy

2.1.1 Troop Issue Subsistence Activity Subsystem

The primary purpose of the TISA subsystem is to ensure adequate supplies of food items (perishable and semiperishable) are available to support the installation dining facilities and other customers. TISA acts as a wholesaler to the consumers (i. e., dining facilities). TISA receives perishable and semiperishable merchandise from suppliers (local and regional); stores, accounts for, safeguards and provides it to the customer, when requested. The TISA subsystem interfaces with other automated systems to accomplish its support mission. (Figure 2.1-2). The TISA subsystem consists of seven functional areas that satisfy a variety of planning and operational needs (Figure 2.1-3). These functional areas are:

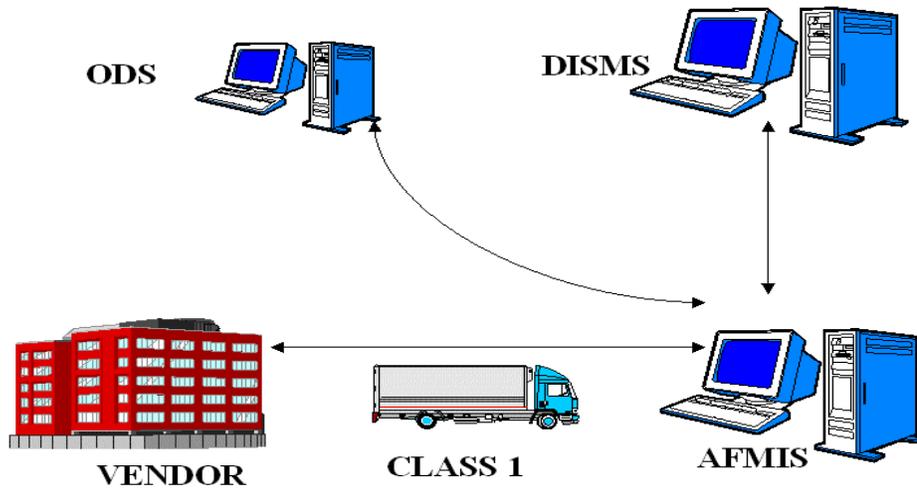


FIGURE 2.1-2 - AFMIS Interfaces

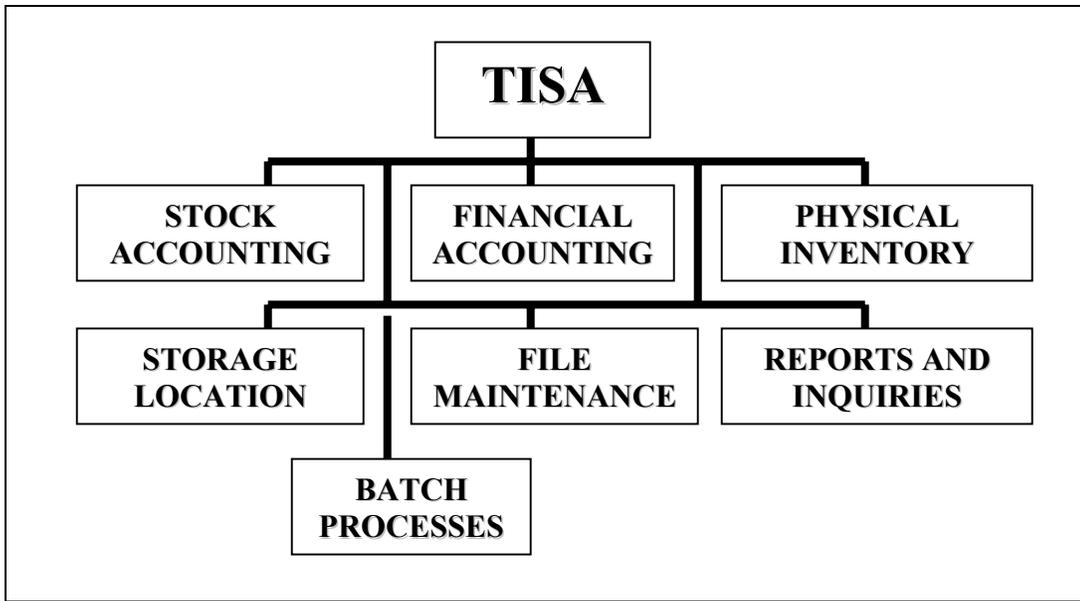


FIGURE 2.1-3 - TISA Subsystem Hierarchy

- Stock Accounting.

This function provides processes that permit the TISA clerk to place orders for needed food items with suppliers; receive, issue, and account for food items from suppliers; establish audit trails to enhance physical accountability; and create adjusting documents to correct previously processed transactions.

- Financial Accounting.

This function provides processes that permit the TISA clerk to query and adjust financial files and create management reports concerning the status of customer accounts and the TISA financial account.

- Physical Inventory.

This function provides processes that assist the inventory team with the recording, entering, and comparing of physical counts. It also provides management reports on the status of the TISA inventory and adjusts the TISA physical accountability files.

- Storage Location.

and This function provides processes that permit the TISA clerk to determine where merchandise is physically located; add, change, or remove locations; and produce reports providing information to storage personnel on what locations are available where specific merchandise is stored. The process provides primary storage locations and two alternate storage locations for each item.

- Reports and Inquiries.

This function provides reports that permit the TISA clerk to print the headcounts, required item price lists, and various other useful reports. Any report previously printed by the AFMIS TISA subsystem can be reprinted without rerunning the process.

- File Maintenance.

This function provides processes that permit the TISA clerk to add, change, or remove information directly from selected AFMIS database files.

- Batch Processes.

This function consists of processes that complete interactive processing, write to and read from tape devices, and transfer data between TISA/IFA and DFO.

- TISA Interfaces.

The TISA is required to interface or communicate with several other systems in order to provide maximum support to each customer and pass necessary data.

The TISA sends Defense Personnel Supply Center (DPSC) orders for merchandise, requests follow-up actions regarding merchandise ordered but not received, and requests cancellation of previously placed orders. The DPSC returns data), which notifies the TISA of current merchandise order status, price and packaging changes to merchandise, and informs the TISA when seasonal merchandise is unavailable. Manual interfaces (telephone calls) are used to place orders for fresh produce with Defense Subsistence Office (DSO). The TISA also interfaces externally with STANFINS to send financial data generated by AFMIS. The last interface the TISA is required to perform is with the DFO subsystem database. The TISA sends data used by the DFO subsystem to maintain the master files, update individual dining facility account records, and merchandise inventory files for each dining facility.

2.1.2 TISA-Warehouse Subsystem

The primary purpose of the TISA-W subsystem is to introduce automation to the warehouse work area. The TISA-W subsystem will simplify merchandise storage, assist in maintaining adequate merchandise inventory levels, provide an effective method of recording merchandise distribution to all customers, and assure merchandise received from the suppliers, DPSC, and DSO is accounted for properly. The TISA-W subsystem is composed of five functional areas that accomplish the automation of the TISA-W (Figure 2.1-4). These functional areas are:

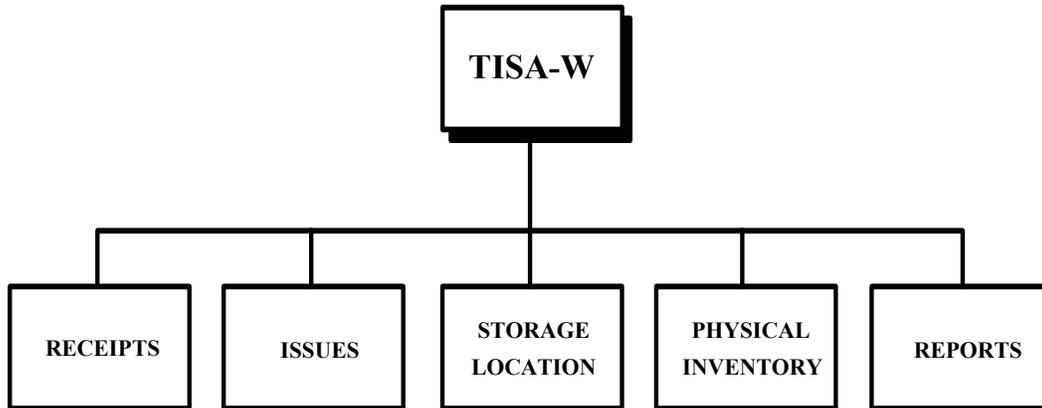


FIGURE 2.1-4 - TISA-W Subsystem Hierarchy

- Receipts.

This function provides processes that permit the TISA-W clerk to account for merchandise received from suppliers and enter it into the AFMIS system.

- Issues.

This function provides processes that permit the TISA-W clerk to determine if merchandise is available for distribution; make any necessary changes to quantities being distributed; and finalize the paperwork required to distribute merchandise to each customer.

- Storage Location.

This function provides processes that permit the TISA-W clerk to determine where merchandise is located; add, change, or remove location sites; produce reports providing information on which location sites are available (primary and secondary sites); and what merchandise is perishable or semiperishable.

- Physical Inventory.

This function provides processes that assist the inventory team with recording, entering, correcting errors, and comparison of physical counts.

- Reports.

This function provides the TISA-W clerk with processes that produce reports containing information on how often deliveries are made to each dining facility; merchandise currently unavailable for distribution; and merchandise that has not been received from the suppliers (DPSC and DSO). Any report previously printed by the TISA-W subsystem can be reprinted without rerunning the process.

2.1.3 IFA Subsystem

The primary purpose of the IFA subsystem is to furnish pertinent information used to improve support, service, and control for each dining facility at an installation. The IFA subsystem consists of six functional areas that support the mission of each dining facility at an installation (Figure 2.1-5). These functional areas are:

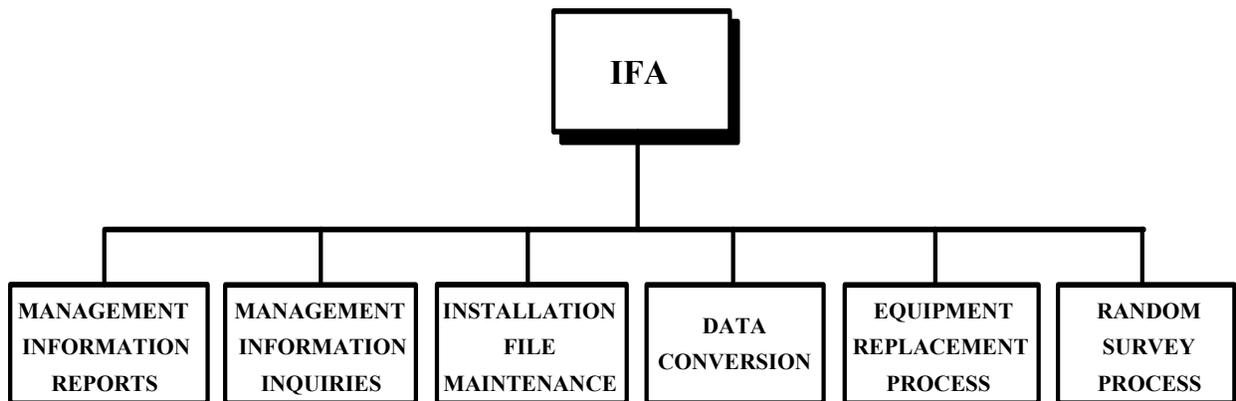


FIGURE 2.1-5 - IFA Subsystem Hierarchy

- Reports.

This function provides processes that permit the IFA clerk to generate reports that capture information on the number of people dining at a facility; the monetary costs of each meal and total costs for each dining facility; financial status (monetary and percent); operational costs (monetary and percent); and an annual report on financial status for each dining facility.

- Inquiries.

This function provides processes that permit the IFA clerk to query AFMIS database files for financial information, menu and recipe data, projected inventory levels, and visibility of specific merchandise items, when necessary.

- File Maintenance.

This function provides processes that permit the IFA clerk to add, change, or remove information directly from selected AFMIS database files.

- Data Conversion.

This function provides processes that permit the deployment team to establish the necessary database files when the AFMIS application system is installed at an installation.

- Equipment Replacement.

This function provides processes that permit the IFA clerk to maintain detailed data on the equipment located at each dining facility, requests for replacement of old or inoperable equipment, schedules for replacement of equipment, and financial considerations for replacing equipment.

- Random Survey.

This function provides processes that permit the IFA clerk to maintain dining facility contract files, dining facility schedule of closings, and print the random surveillance schedule for the current or next month.

2.1.4 DFO Subsystem

The primary purpose of the DFO subsystem is to generate recipes with the necessary information to produce each meal, provide time tables for meal preparation, produce orders for merchandise required to prepare each meal, and provide a standardized method of inventory control. The DFO subsystem is composed of seven functional areas that will aid in the management of each dining facility at an installation (Figure 2.1-6). These functional areas are:

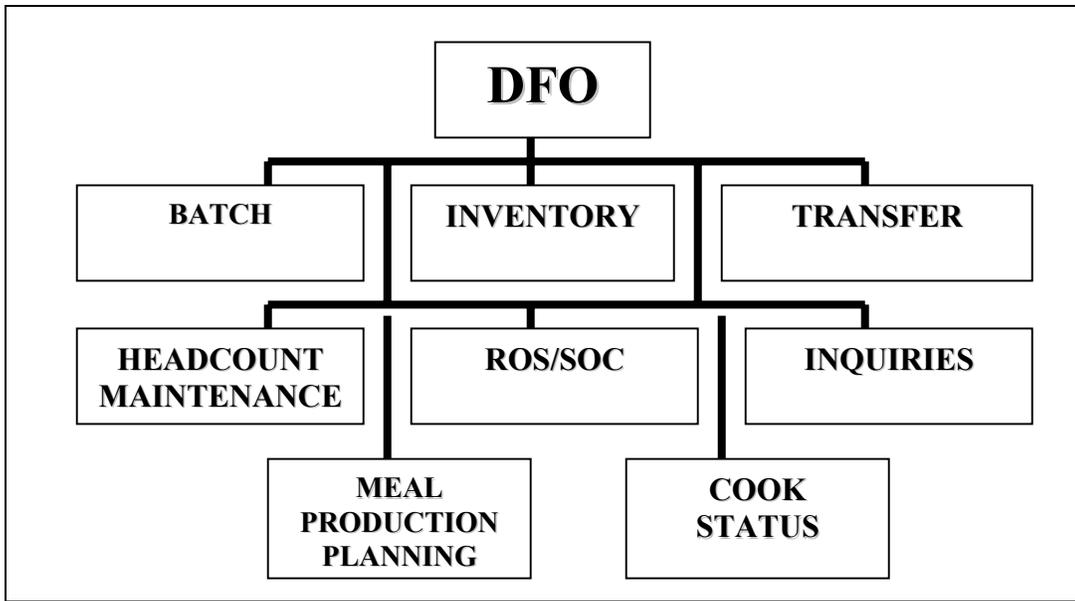


FIGURE 2.1-6 - DFO Subsystem Hierarchy

- Meal Production Planning.

This function contains processes that provide the capability to review projected and actual dining facility account status; create, review, and adjust menus; create, update, print, and delete shopping lists; and produce production schedules and kitchen requisitions. In addition, it contains a processing checklist and the ability to generate reports.

- Inventory.

This function provides processes that permit the DFO clerk to control merchandise inventory; perform reconciliations of inventory counts; maintain adequate supplies of merchandise; and provide reports (weekly and monthly) of merchandise inventories.

- Transfers.

can This function provides processes that permit the DFO clerk to create, update, delete, and print dining facility-to-dining facility transfers, turn-ins to TISA, dining facility-to-unit transfers and unit-to-dining facility transfers. In addition, the clerk update the inventory balance on-hand for unit-to-dining facility and dining facility-to-unit transfers.

- Report of Survey/Statement of Charges (ROS/SOC).

This function provides processes that permit the DFO clerk to create, update, delete, and print either a Report of Survey or a Statement of Charges that can be processed by TISA.

- Inquiries.

This function provides processes that permit the DFO clerk to review/monitor DFO subsystem activities including: account status, menus, recipes, inventory, master item file, DF file, and headcount.

- Headcount Maintenance.

This function provides processes that permit the DFO clerk to maintain selected DFO database files, inquire against these files to retrieve information, and produce reports containing information relating to money collected, current and previous financial data, and headcount.

- Batch.

This function provides the processes that permit the DFO clerk to print the daily batch and price update reports, maintain the dining facility equipment replacement records, and print the equipment listing.

2.1.5 End-of-Day/End-of-Month Function

The EOD/EOM function completes interactive processing, produces required reports, and makes necessary periodic file adjustments. The EOD/EOM function consists of six processes (Figure 2.1-7). These processes are:

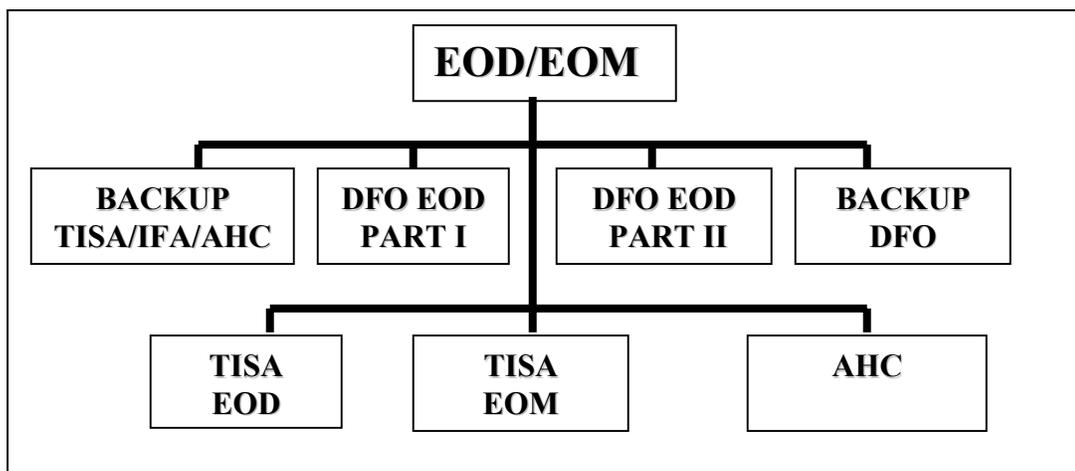


FIGURE 2.1-7 - End-of-Day/End-of-Month Function

- Back-up AHC/TISA/IFA database to disk.

This process creates a disk back-up of the AHC/TISA/IFA database.

- DFO End-of-Day Part 1.

This process sends transactions to TISA.

- Back-up DFO database to disk.

This process creates a disk back-up of the DFO database.

- TISA End-of-Day.

This process completes interactive TISA processing, posts transactions received from DFO to TISA/IFA files, sends transactions to DFO, and generates reports for management personnel.

- DFO End-of-Day Part 2.

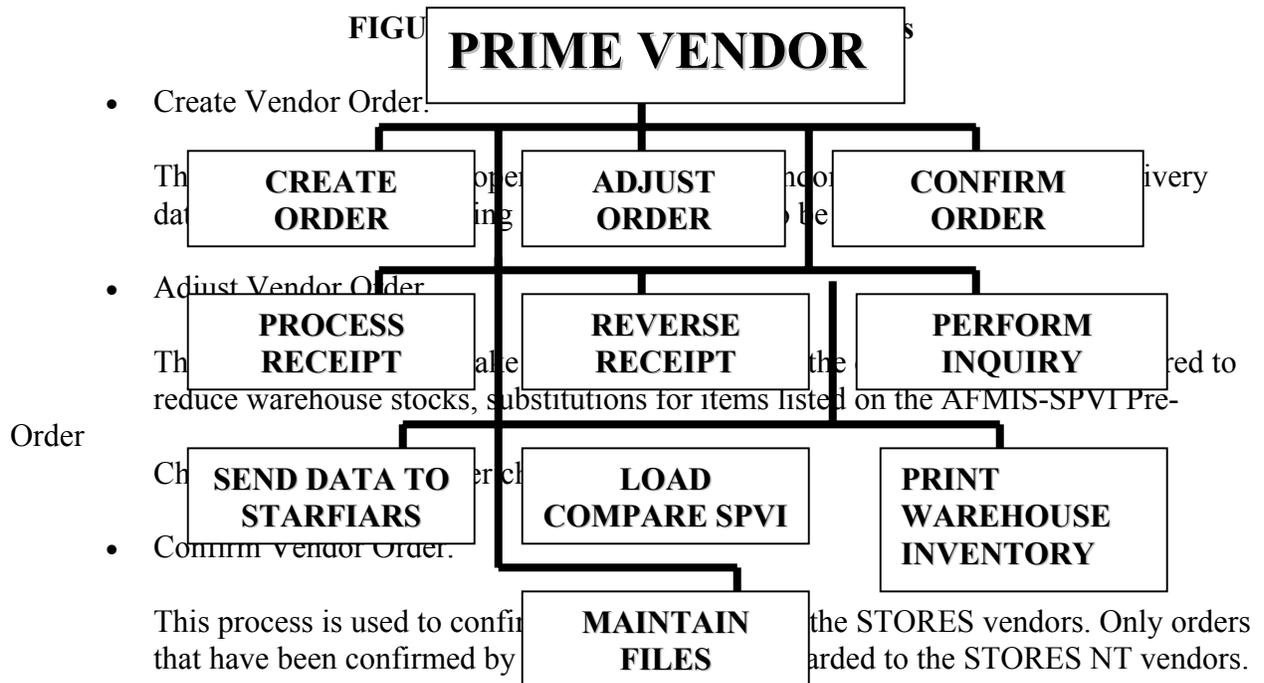
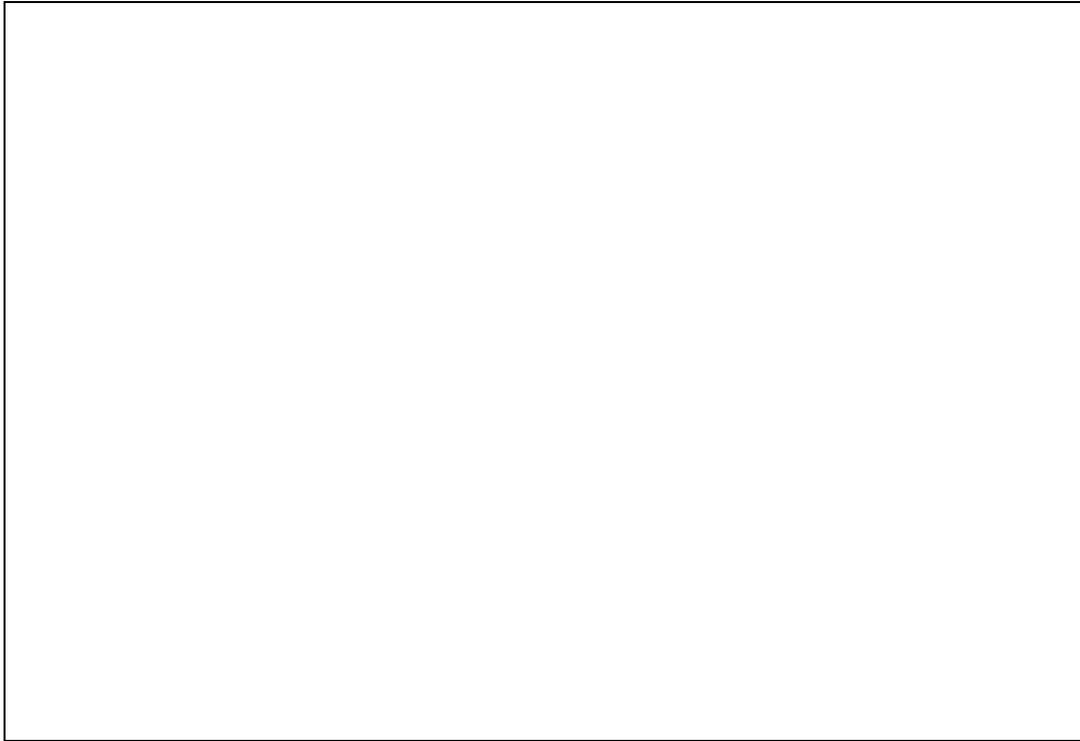
This process posts transactions received from TISA to DFO files.

- TISA End-of-Month.

This process performs special processing at the end of the working month.

- Automated Headcount (AHC).

2.1.6 Prime Vendor Subsystem



- Process Customer Receipt.

This process is used to receipt items delivered to a customer by STORES vendors. For these items, the receipts and issues are processed simultaneously. Financial and inventory postings are the same as under AFMIS; however, since the items are not part of the TISA inventory, the receipts and issues are not posted to the TISA VRGC, MIF BOH, or transaction register. If the order date and the RDD are within 6 days of each other, the price in effect on the order date is paid.

- Reverse Customer Receipt.

This process is used to correct a STORES receipt entered incorrectly. Reversals cannot be made through the DFO module. This process updates AFMIS inventory and STARFIARS financial records. Also, a D6U type transaction with a DIC of REV is created during the Send PV Data To STARFIARS/SPVI process and passed to STORES for processing. Prime vendor receipts cannot be reversed until after they have been processed through the Send PV Data To STARFIARS/SPVI process

- Perform Inquiry.

This process permits viewing and printing of Prime Vendor orders and receipts. The inquiries may be performed for orders, receipts, or both (orders and receipts) for a specified range of RDDs. The inquiries can be limited to a customer ID, document number, TIIN, or customer ID and TIIN. When the print option for an inquiry is selected, the same information that would have been displayed to the screen will be printed as the Prime Vendor Orders & Receipts Inquiry Report PCN: AJK-AL1

- Send PV Data to STARFIARS/SPVI.

This process should be run each day data is to be sent to STORES NT. It MUST be run prior to the end of day. It can be ran as many time a day as needed but should not be run after files has been transferred to STORES. This process files that are appended each time the process is run. Should files have been transferred to STORES and the process needs to be run again the SA must move the AR files in the informix/tisa/pv directory before running the process to create a file with the same name but different data. Under no circumstance should this process be run after the end of day has been run. This process creates the ARXXX.ORD and ARXXX.REC for all receipts and confirmed orders to be transferred to STORES, and financial information to STANFINS

- Load/Compare SPVI Catalog.

This process is used to load new catalogs from STORES to AFMIS to update MIF prices as well as to produce reports of items available from the vendor in comparison to the MIF. It also allows the user to produce a report that list items ordered but are not available from the STORES vendors. Such requirements must be issued from the TISA warehouse or a suitable substitute ordered from a vendor. This process can be run prior to running the Send Data to STARFIARS/SPVI. All SPVI catalog problems must be reported to the DSCP Account Manager for the contract.

- Print Warehouse Inventory Status Report.

This function provides processes that permit the TISA-W clerk to determine where merchandise is located; add, change, or remove location sites; produce reports providing information on which location sites are available (primary and secondary sites); and what merchandise is perishable or semiperishable.

- Maintain Prime Vendor Files.

This process is used to set parameters for the prime vendor subsystem. It allows the user to select the source codes for vendor items received, establish the delivery schedule for each vendor, and enter the financial values used on orders. These values can be changed as the need arises.