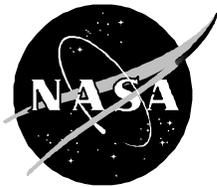


VERSION DESCRIPTION DOCUMENT FOR THE NASA SUPPLY MANAGEMENT SYSTEM (NSMS)

Release 6.0.0

PrISMS Contract

April 1998



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT
FOR THE
NASA SUPPLY MANAGEMENT SYSTEM (NSMS)
RELEASE 6.0.0**

Approved by

Sheila Fogle Consolidation Center Project Manager	Date
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

April 1998

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1. INTRODUCTION

1.1 Identification of the Release

This software release is identified as the National Aeronautics and Space Administration (NASA) Supply Management System (NSMS), Version Description Document (VDD), Release 6.0.0.

The release has an effective date of April 30, 1998 and is scheduled for implementation by May 30, 1998. Support of the previous release expires on the implementation date of release 6.0.0.

1.2 Purpose of the Release

This release includes system modifications as specified in Sections 2.0 and 3.0 of this document.

1.3 Scope of the Release

This release provides the functional and technical user of NSMS with changes to the contents and status of the application NSMS, Version 6.0.0, including the following:

- Validation procedures to ensure the reliability of those changes.
- References to other documents affected by this release.
- Detail software installation procedures.

1.4 Contact Points

Questions regarding the functional and/or technical aspects, as well as the installation of this release, should be directed to:

Pam Leak at telephone number (205)544-1388 or
by e-mail Pam.Leak@msfc.nasa.gov

Steve Rowell at telephone number (205)544-1452 or
by e-mail Steve.Rowell@msfc.nasa.gov

Mark Stevens at telephone number (205)544-1458 or
by e-mail Mark.Stevens@msfc.nasa.gov

The fax number is (205)544-1836.

2. FUNCTIONAL INFORMATION

2.1 FUNCTIONAL CHANGES

This release incorporates Requirement Changes (RC) approved by the Configuration Control Board (CCB).

This release incorporates Discrepancy Report (DR) 914, 915, 916 and 922.

This release includes the necessary modules to incorporate RC 854 and 920 approved by the Configuration Control Board (CCB). RC 854 is the verification of the Year 2000. RC 920 is the Software AG product suite upgrade.

1. ENHANCEMENT - (Year End Balance Table Maintenance, Update Beginning Year Balances and Year End Process Reversal/Recovery) 1620 - #854

The date fields in the Year End Balance Table Maintenance, Update Beginning Year Balances and Year End Process Reversal/Recovery do not contain the century and needed to be changed to allow processing for the Year 2000.

ACTION - Change the Year End Balance Table Maintenance, Update Beginning Year Balances and Year End Process Reversal/Recovery to allow Year 2000 dates to be entered.

2. PROBLEM - (Warehouse Denial Analysis) 1620# - 914

After selecting a record in the first level of approval, on the first screen of data pressed <PF9>, returned to the first screen of data and pressed <enter>, an error was returned 'Invalid Analysis must be entered - Please reenter. This error occurred before fields could be entered.

ACTION - Correct process to present second screen before returning error.

3. PROBLEM - (Warehouse Denial Analysis) 1620# - 915

Created a Warehouse Denial for an asset, a freeze transaction was not created which caused the suffix numbers to be missing one. Created the ISPRR, ISPR, DOST, ISWD with suffix numbers 000, 0001, 0002, 0004.

ACTION - Determine why process did not create freeze transaction and why suffix was skipped. Correct process accordingly.

4. PROBLEM - (Receive Turn-In For Credit/No Credit) 1620# - 916

When the default release due out field in the Transaction Definition Table is blank (' '), the default for the Receive Turn-In for Credit/No Credit process is blank but the Receive Turn-In for Credit/No Credit requires an 'N'.

ACTION - Default the Release Due-Outs? ('Y' OR 'N') field to 'N' when the default value on the Transaction Definition Table is blank.

5. ENHANCEMENT - (Software AG Upgrade) 1620# - 920

Change NSMS code to comply with Natural 2.2.8

ACTION - Make necessary changes for 2.2.8. Test NSMS for consistency between Natural 2.2.6 and 2.2.8.

6. PROBLEM - (Fedmil Status Update) 1620# - 922

An invalid estimated shipping date message is being returned from the Fed/Mil Status Update process for an 'AE1' status card when the estimated shipping date is blank.

Action - Change the process to check 'AE1's Advice Stat before checking the estimated shipping date.

2.2 FUNCTIONAL INTERFACES

The release has no functional impact on interfaces with other NASA legacy Agencywide Administrative Systems or configuration items.

2.3 CRITICAL ISSUES

No critical issues are associated with this release.

2.4 AFFECTED DOCUMENTS

There are no documents affected by this release.

2.5 APPLICATION SYSTEM ADMINISTRATION

The release has no application system administration.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

This NSMS release has no technical impact on interfaces with other NASA legacy Agencywide Administrative Systems or configuration items.

3.2 DATA DICTIONARY CHANGES

There are no data dictionary changes for this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NSMS Software Release 6.0.0 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of the release.

4. KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A

LIST OF ACRONYMS

ADP	Automated Data Processing
CCB	Configuration Control Board
CCR	Change Control Request
DR	Discrepancy Report
FFG	Federal Supply Group
JCL	Job Control Language
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NSMS	NASA Supply Management System
NSN	National Stock Number
PF	Program Function
RC	Requirements Change
RFG	Random Federal Supply Group
UOG	User and Operations Guide
VDD	Version Description Document

APPENDIX B

GLOSSARY

This document has no terms to be defined.

APPENDIX C

FUNCTIONAL CHANGE VALIDATION PROCEDURES

1. ENHANCEMENT - (Year End Balance Table Maintenance, Update Beginning Year Balances and Year End Process Reversal/Recovery) 1620 - #854

The date fields in the Year End Balance Table Maintenance, Update Beginning Year Balances and Year End Process Reversal/Recovery do not contain the century and needed to be changed to allow processing for the Year 2000.

ACTION - Change the Year End Balance Table Maintenance, Update Beginning Year Balances and Year End Process Reversal/Recovery to allow Year 2000 dates to be entered.

SPECIAL NOTES: Have your DBA backup the NS-TABLES and NS-ASSET file before proceeding with this test. Have your DBA restore the files after completion of this test.

VALIDATION

- Using the Batch Job Maintenance (BATCHJOB) process, select the Update Beginning Year Balances(BEGNYBAL) job to change the execution JCL to include the DD parameter. The DD parameter allows the current system date to be changed by adding/subtracting a number of days to/from the current system date. For example, the execution (EXEC) statement should be as follows: // Exec n01z, Prm='MT=0',DD='DD=+162'. Compute the number of days to be added/subtracted to make the system date be 9/30/1998 and change 162 to the computed number.
- Using the Site Parameter Table (SITEPARM) process, change the ending date of fiscal year to 1998-09-30.
- Using the Update Beginning Year Balance (BEGNYBAL) process, enter a date of 19981001 in the PLEASE ENTER DATE UPDATE field and enter a 'Y' in the DATE OVERRIDE field. Submit the job.
- Using the Year End Balance Table Maintenance (YRENDBAL) process, verify the Update Beginning Year Balance process was executed.
- Using the Batch Job Maintenance (BATCHJOB) process, select the Year End Process Reversal/Recovery (BEGNYBRC) to change the execution JCL to include the DD parameter. Use the same computed number of days used in the BEYNYBAL process to be added/subtracted to make the system date be 9/30/1998.

- Using the Year End Balance Table Maintenance (YRENDBAL) process, verify the Year End Process Reversal/Recovery process was executed. Add a record to the table supplying an FSG, SSC, date of 98 in the first date field, quantity and a price.
- Using the Update Beginning Year Balance (BEGNYBAL) process, enter a date of 19981001 in the PLEASE ENTER DATE UPDATE field and enter a 'Y' in the DATE OVERRIDE field. Submit the job. This must be done in order to run the remaining test.
- Repeat the test case with the **exception of the Year End Process Reversal/Recovery process** using a date of 1999-09-30 for the site parameter table, 19991001 for the Update Beginning Year Balances, 19990930 for the Update Beginning Year Balance process when changing the DD parameter date. **DO NOT RUN THE YEAR PROCESS REVERSAL/RECOVERY FROM THIS POINT FORWARD.**
- Repeat this test case with the **exception of the Year End Process Reversal/Recovery process** using a date of 2000-09-30 for the site parameter table, 20001001 for the Update Beginning Year Balances, 20000930 for the Update Beginning Year Balance process when changing the DD parameter date. **DO NOT RUN THE YEAR PROCESS REVERSAL/RECOVERY.**
- Repeat this test case with the **exception of the Year End Process Reversal/Recovery process** using a date of 2001-09-30 for the site parameter table, 20011001 for the Update Beginning Year Balances, 20010930 for the Update Beginning Year Balance process and when changing the DD parameter date. **DO NOT RUN THE YEAR PROCESS REVERSAL/RECOVERY.**

2. PROBLEM - (Warehouse Denial Analysis) 1620# - 914

After selecting a record in the first level of approval, on the first screen of data pressed <PF9>, returned to the first screen of data and pressed <enter>, an error was returned 'Invalid Analysis must be entered - Please reenter. This error occurred before fields could be entered.

ACTION - Correct process to present second screen before returning error.

VALIDATION

- Using the Asset Scan (SCANASET) process, select a store stock asset with quantity on hand.
- Using the Create Issue Directive (ISSUEPRE) process, issue some quantity for the asset selected in the previous step. (Make note of the document number).

- Using the Warehouse Denial Initiate (WDAINIT) process, initiate an analysis of a pre-post issue. Enter a physical count less than the rejected document quantity. Do not Enter comments or approval at this time.
- Using the Warehouse Analysis (WDAWARE) process, select the transaction by entering 'X' in the first column. The process will display the record chosen. Enter comments in the cause of discrepancy, corrective action and 'Y' in the IM field. Press <enter> and process to completion.
- Using the I/M Analysis (WDAMANG) process, select the transaction by entering 'X' in the first column. The process will display the record chosen. Press <enter> to get the next screen of data. Press PF9 to display a pop-up window allowing selection of the Monitor Transaction or Stock Inquiry processes. Enter the option (2) to view the asset using the Stock Inquiry process and press <enter>. The Stock Inquiry process will display the asset. Press <enter> to receive the pop-up window and blank out the option field. Press <enter> and enter comments in the inventory management analysis field and 'Y' in the approve field. Press <enter> and process to completion.
- Using the First Approval of Analysis (WDAAPPR1) process, select the transaction by entering 'X' in the first column. The process will display the record chosen. Press PF9 to display a pop-up window allowing selection of the Monitor Transaction or Stock Inquiry processes. Enter the option (1) to view the asset using the Monitor Transaction process and press <enter>. The Monitor Transaction process will display the asset. Press PF3 to receive the pop-up window and blank out the option field. Press <enter> and enter comments in the first approval comment field and 'Y' in the approve field. Press <enter> and process to completion.
- Using the Second Approval of Analysis (WDAAPPR2) process, select the transaction by entering 'X' in the first column. The process will display the record chosen. Press PF9 to display a pop-up window allowing selection of the Monitor Transaction or Stock Inquiry processes. Enter the option (1) to view the asset using the Monitor Transaction process and press <enter>. The Monitor Transaction process will display the asset. Press PF3 to receive the pop-up window and blank out the option field. Press <enter> and enter comments in the second approval comment field and 'Y' in the approve field. Press <enter> and process to completion.

3. PROBLEM - (Warehouse Denial Analysis) 1620# - 915

Created a Warehouse Denial for an asset, a freeze transaction was not created which caused the suffix numbers to be missing one. Created the ISPRR, ISPR, DOST, ISWD with suffix numbers 000, 0001, 0002, 0004.

ACTION - Determine why process did not create freeze transaction and why suffix was skipped. Correct process accordingly.

VALIDATION

- Using the Asset Scan (SCANASET) process, select a store stock asset with quantity on hand.
- Using the Create Issue Directive (ISSUEPRE) process, generate two issues (ISPR) transactions for the asset selected in the previous step. Enter "Y" for CREATE DUE OUT. (Make note of the document numbers).
- Using the Initiate Analysis (WDAINIT) process, issue a warehouse denial against both of the issues (ISPR) generated in the previous step.
- Using the Monitor Transaction (MONTRANS) process, verify the transactions generated (ISPRR, ISPR, DOST, AFRZ and ISWD) have the correct suffix numbers of 000, 001, 002, 003, and 004 for the first set of denial transactions and the second set of denial transactions (ISPRR, ISPR, DOST and ISWD) have the correct suffix numbers of 000, 001, 002, 003.

4. Problem - (Receive Turn-In For Credit/No Credit) 1620# - 916

When the default release due out field in the Transaction Definition Table is blank (' '), the default for the Receive Turn-In for Credit/No Credit process is blank but the Receive Turn-In for Credit/No Credit requires an 'N'.

ACTION - Default the Release Due-Outs? ('Y' OR 'N') field to 'N' when the default value on the Transaction Definition Table is blank.

VALIDATION

- Using the Update Transaction Definition Table (TRANSDEF) process, update the Release Due-Outs field to a blank (' ') for a transaction type 'TICR'.
- Using the Monitor Transaction (MONTRANS) process, select an issue (ISPR) transaction. Note either the Document Number or NSN, Stock Status Code, and Stock Ownership.
- Using the Receive Turn-In For Credit/No Credit (TURNIN) process, enter the Issue Document Number or NSN, Stock Status Code, and Stock Ownership from the previous step. Press <ENTER>. Screen should display an 'N' as default in the Default Release Due-Outs? ('Y' OR 'N') field.

5. ENHANCEMENT - (Software AG Upgrade) 1620# - 920

Change NSMS code to comply with Natural 2.2.8

ACTION - Make necessary changes for 2.2.8. Test NSMS for consistency between Natural 2.2.6 and 2.2.8.

VALIDATION - There is no specific test included for Software Upgrade.

6. PROBLEM - (Fedmil Status Update) 1620# - 922

An invalid estimated shipping date message is being returned from the Fed/Mil Status Update process for an 'AE1' status card when the estimated shipping date is blank.

ACTION - Change the process to check 'AE1's Advice Stat before checking the estimated shipping date.

VALIDATION

- Using the Monitor Transaction (MONTRANS) process, search for a due in direct federal (DIDF) transaction for a domestic shipment (A0A). Note the Fed Document number and NSN of the due in.
- Using the Status Update (STATUPDT) process, enter the document identifier and document number from the previous step. Update the advice stat field (card column 65 - 66) with 'BJ'.
- Using the input data set for the batch job Status Update (FDSTATUP), create an 'AE1' status card for the asset of the due in. The NSN should be equal to the NSN of the due in (card column 8 - 20), Quantity (card column 25 - 29), Fed Document Number (card column 36 - 43), Advice Stat to 'BA' (card column 65 - 66), and the Estimated shipping date to blanks (card column 70 - 73) from the DIDF transaction in the previous step.
- Using the Fed/mil status update (FDSTATUP) process, submit the batch job.
- Using the Monitor Transaction (MONTRANS) process, verify the due in transaction was updated. If no transactions were created, look at the report created from the batch job which contains the errors that occurred.

APPENDIX D

INSTALLATION INSTRUCTIONS AND CHECKLIST

Introduction

Release information:

System Name: NSMS
Release Number: 6.0.0
Release Date: April 1998
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NSMS)

Telephone: (205) 544-6673
Email: pam.leak@msfc.nasa.gov
FAX: (205) 544-1836

The following datasets are located on the NASA Central Distribution Facility as NASA data sets:

- **AIMS.NSMS.PROD.REL600.REL0498.DOC**

VOLUME = site determined
ORG = PO
RECFM = FB
LRECL = 80
BLKSIZE = 4000
TRKS = 4

- **AIMS.NSMS.PROD.REL600.REL0498.SRC**

VOLUME = site determined
ORG = PS
RECFM = VB
LRECL = 4624
BLKSIZE = 4628
TRKS = 18

These datasets are located on the Central Bulletin Board and have allocation requirements based on a 3390 disk drive.

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 10.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Load Natural Error Messages
- 8.0 Perform Release-Specific Procedures
- 9.0 Local JCL Mods
- 10.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NSMS files as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Load Source Code

Load the NSMS source modifications from the dataset AIMS.NSMS.PROD.REL600.REL0498.SRC. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library named NSMS, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by Type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	3
MAPS	3
HELP ROUTINES	1
SUBROUTINES	2
SUBPROGRAMS	0
PROGRAMS	9
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	18

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

No modules were added within this release.

Changed Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
NSMPINIT	NSMS Initial Map	MAP	
NSPTTBAL	Year End Balance Table Maint.	PGM	854
NSMPTBAL	Year End Balance Table Maint.	MAP	854
NSDLTBAL	Year End Balance Table Maint.	LDA	854
NSPURBAL	Update Beginning Year Balance	PGM	854
NSDLRBAL	Update Beginning Year Balance	LDA	854
NSPURBRC	Year End Balance Recovery	PGM	854
NSDLRBRC	Year End Balance Recovery	LDA	854
NSPTWD0A	Warehouse Denial Analysis	PGM	914
NSMPWD0B	Warehouse Denial Analysis	MAP	914
NSPTWD0A	Warehouse Denial Analysis	PGM	915
NSPTRTRN	Receive Turn In for Credit/No Credit	PGM	916
NSSRBJO6	Batch Job Maintenance	SUB	920
NSHSHELP	Help routine	HRTN	920
EDPUDLPA	JIT DLSC UPDATE	PGM	920
NSPUTL10	Conversion of Due Out Adjustment	PGM	920
NSPUTL11	Conversion of Due Out Direct Buy Adj.	PGM	920
NSPUFDUC	Fedmil Status Updates	PGM	922
NSSRFSUA	Fedmil REQ Status Updates	SUB	922

Deleted Modules

No modules were deleted within this release.

3.0 Pre-Predict Data Conversion

There is no Pre-Predict data conversion for this release.

4.0 Install Predict

4.1 Data Dictionary Changes

There are no data dictionary changes included in this release.

4.1.1 Inventory of Objects

There are no PREDICT changes included in this release.

4.1.2 Storage Considerations

The changes represented by this release should not affect storage requirements.

4.1.3 Physical File Changes

There are no file changes included in this release

5.0 Catalog Source Code

IMPORTANT!!! BEFORE CATALL

In this release, the direct reads to SYSDIC files have been removed and replaced with calls to the **SYSHELP** subprogram. For SESAAS applications, it is necessary to copy modules **SYSHELP** and **SYSHELPA** from the **SYSDICH** library to the **SYSTEM** (default STEPLIB) library. However, we do recommend that all SYSDICH modules be copied into the SYSTEM library. This will make all PREDICT retrieval routines available to Center site uniques.

Run a batch job to catalog (CATALL) all modules in the NSMS or other named library. **IT IS NOT NECESSARY** to catalog the Global Data Area. The NASA Batch standard parameters should be used for the compile.

After all objects are compiled, the NSMS application will run under the NASA On-line standard parameter.

6.0 Post-Predict Data Conversion

There is no Post-Predict data conversion for this release.

7.0 Load Natural Error Messages

There are no error messages for this release.

8.0 Perform Release-Specific Procedures

There are no release specific procedures for this release.

9.0 Local JCL Mods

There are no local JCL mods for this release.

10.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.1 Load Source Code
- 5.0 Catalog Source Code