

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

Release 5.1.1

PrISMS Contract

July 1997



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 5.1.1**

Approved by

Sheila Fogle Consolidation Center Project Manager	Date
---	------

Nikita Zurkin Program Functional Manager	Date
---	------

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

July 1997

- 1. INTRODUCTION..... 1**
 - 1.1 Identification of the Release..... 1**
 - 1.2 Purpose of the Release..... 1**
 - 1.3 Scope of the Release..... 1**
 - 1.4 Contact Points..... 1**
- 2. FUNCTIONAL INFORMATION..... 2**
 - 2.1 FUNCTIONAL CHANGES..... 2**
 - 2.2 FUNCTIONAL INTERFACES..... 2**
 - 2.3 CRITICAL ISSUES..... 2**
 - 2.4 AFFECTED DOCUMENTS..... 2**
 - 2.5 APPLICATION SYSTEM ADMINISTRATION..... 3**
- 3. TECHNICAL INFORMATION..... 4**
 - 3.1 TECHNICAL SYSTEM INTERFACES..... 4**
 - 3.2 DATA DICTIONARY CHANGES..... 4**
 - 3.3 SOFTWARE OBJECT CHANGES..... 4**
 - 3.4 DATABASE ADMINISTRATION..... 4**
 - 3.4.1 Release Dataset Names..... 4**
 - 3.4.2 Inventory of Objects..... 4**
 - 3.4.3 Storage Considerations..... 4**
 - 3.4.4 Installation Procedures..... 4**
 - 3.5 OPERATIONAL PREPARATION..... 5**
- 4. KNOWN AND OPEN PROBLEMS..... 6**

- APPENDIX A - LIST OF ACRONYMS..... A-1**
- APPENDIX B - GLOSSARY..... B-1**
- APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES.. C-1**
- APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST..... D-1**

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 5.1.1.

The release has an effective date of July 31, 1997 and is scheduled for implementation by September 15, 1997. Support of the previous release expires on the implementation date of release 5.1.1.

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 5.1.1, 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). The Change Control Request (CCR) number for the RC is 867.

This release incorporated Discrepancy Report (DR) 880.

1. ENHANCEMENT - (Maintain and Track Quality Sensitive Information, Reserve and Issue Program Stock) 1620# - 867

Add two fields needed for adequate tracking of Quality Sensitive Information. The fields are the engineering parts list and the find number.

ACTION - Incorporate the necessary changes to implement maintenance and tracking of the engineering parts list and the find number.

2. PROBLEM - (Release Due Outs) 1620# - 880

The release due out process is not creating the correct transaction for a direct buy asset with a supply type code of 'J'.

ACTION - Correct process to create an 'ISJT' for a direct buy asset with a supply type code of 'J'.

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 issues of a critical nature are associated with this release.

2.4 AFFECTED DOCUMENTS

The only document affected by this release is the NSMS-UOG-10, NSMS User and Operations Guide (UOG) dated June 1997. The replacement pages for the UOG will not be distributed with this VDD.

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

This release will include the new enhancements for version 5.1.1. Details for changes in this release can be found under Appendix D, paragraph 3.4.4 Installation Procedures.

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 5.1.1 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

CCB	Configuration Control Board
CCR	Change Control Request
NASA	National Aeronautics and Space Administration
NSMS	NASA Supply Management System
NSN	National Stock Number
RC	Requirements Change
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 - (Maintain and Track Quality Sensitive Information, Reserve and Issue Program Stock) 1620# - 867

Add two fields needed for adequate tracking of Quality Sensitive Information. The fields are the engineering parts list and the find number.

ACTION - Incorporate the necessary changes to implement maintenance and tracking of the engineering parts list and the find number.

VALIDATION

- Using the Catalog Scan (CATSCAN) process, select a commercial catalog record.
- Using the Add, Change, or Delete Asset (ADCHGAST) process, add a store stock asset and a program stock asset.
- Using the Manual Commercial Due In (MANCOMDI) process, add a due-in for the store stock asset added in the previous step with a quantity of ten (10) and a price of one hundred dollars (\$100.00). Enter a source document number, a purchase order number, a engineering parts list and a find number.
- Using the Monitor Transaction (MONTRANS) process, verify the due in (DISC) transaction has the data entered for the engineering parts list and find number.
- Using the Manual Commercial Due In (MANCOMDI) process, change the due-in. Enter a different value in engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the due in (DISC) transaction has the data entered for the engineering parts list and find number.
- Using the Manual Commercial Due In (MANCOMDI) process, delete the due-in. Verify data can not be entered in the engineering parts list and find number. Process to completion.
- Using the Commercial Order Demand Items (CODIRECT) process, add a due in for a direct buy asset (an asset that is not on file). Enter the necessary data and enter data in the engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, select the due in direct buy commercial (DIDC) transaction that was created in the previous

step. Verify that the engineering parts list and find number entered previously are being displayed. Process to completion.

- Using the Commercial Order Demand Items (CODIRECT) process, change the due in. Enter the necessary data and enter different data in the engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, select the Due-In Direct Buy (DIDC) transaction. Verify the data entered in the previous step for the engineering parts list and find number is being displayed.
- Using the Commercial Order Demand Items (CODIRECT) process, delete the Due-In Direct Buy (DIDC) transaction. Verify data can not be entered in the engineering parts list and find number. Process to completion.
- Using the Site Parameter Table (SITEPARM) process, ensure the Update Bin Quantity Indicator is set to "N".
- Using the Inventory Adjustment (INVADJST) process, add a quantity of ten (10) to the program stock asset.
- Using the Reservation of Program Stock (RESERVE) process, enter the NSN, Stock Status, and Stock Ownership of the program stock asset. Enter five (5) in the Quantity for the Asset. Enter Unit of Issue, Customer Id, engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the reservation (RSPS) transaction has the data entered in the engineering parts list and find number fields.
- Using the Issue/Adjust Reserved Stock (ISSUERSV) process, enter the program stock asset. Press <ENTER> to receive a selection screen. Select the correct record with an "I" to process the issue. Issue a quantity of one (1) for the asset. Verify the data being displayed in the engineering parts list and find number fields is the data on the reservation transaction. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the issue of reserved (ISRS) transaction has the data entered in the engineering parts list and find number fields.
- Using the Issue/Adjust Reserved Stock (ISSUERSV) process, enter the program stock asset. Press <enter> to receive a selection screen. Select the correct record with an "A" to process the adjustment. Press <enter> to adjust the quantity. Verify the data being displayed in the engineering parts list and find number fields is the data on the reservation transaction. Process to completion.
- Using the Inventory Adjustment (INVADJST) process, increase the quantity of the store stock asset by ten (10).
- Using the Create Issue Directive (ISSUEPRE) process, issue a quantity of one (1) for the store stock asset. Enter a engineering parts list and find number. Process to completion.

- Using the Monitor Transaction (MONTRANS) process, verify the create issue directive (ISPR) transaction created has the data entered in the engineering parts list and find number fields.
- Using the Post Post Issue (ISSUEPP) process, issue a quantity of one (1) for the store stock asset. Enter a engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the post post issue (ISPP) transaction created has the data entered in the engineering parts list and find number fields.
- Using the Freeze/Unfreeze Asset (FRZASSET) process, freeze the store stock asset.
- Using the Create Issue Directive (ISSUEPRE) process, create a suspended issue with a quantity of one (1) for the store stock asset. Enter a engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the suspended issue (ISPRS) transaction created has the data entered in the engineering parts list and find number fields.
- Using the Release Suspended Issue (RELSUSP) process, release the suspended issue for the store stock asset. Enter a engineering parts list and find number. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the issue (ISPR) transaction created has the data entered in the engineering parts list and find number fields.

2. PROBLEM - (Release Due Outs) 1620# - 880

The release due out process is not creating the correct transaction for a direct buy asset with a supply type code of 'J'.

ACTION - Correct process to create an 'ISJT' for a direct buy asset with a supply type code of 'J'.

VALIDATION

- Using the Add Change or Delete Catalog (CATADCHG) process, select a catalog record with a commercial supply source. If preferable, add a catalog record with a commercial supply source.
- Using the Asset Scan (SCANASET) process, select a direct buy asset with a supply type of 'J'. If preferable, add an asset using the Add, Change or Delete Asset (ADCHGAST) process.
- Using the Due In Direct Buy Commercial (CODIRECT) process, add a due in direct buy commercial and due out for the asset. Enter a source document number and a purchase order number.

- Using the Receive Due In/Not Due In (DINOTDI) process, receive the due in for the asset. Process as a receipt due in and request the due outs to be released.
- Using the Monitor Transaction (MONTRANS) process, verify the transaction type for the due out release is ISJT.
- Using the Due In Direct Buy Commercial (CODIRECT) process, add a due in direct buy commercial and due out for an asset not on file. Enter a source document number and a purchase order number.
- Using the Receive Due In/Not Due In (DINOTDI) process, receive the due in for the asset. Process as a receipt due in and request the due outs to be released.
- Using the Monitor Transaction (MONTRANS) process, verify the transaction type for the due out release is ISDR.

Appendix D - INSTALLATION INSTRUCTIONS AND CHECKLIST

Introduction

Release information:

System Name: NSMS
Release Number: 5.1.1
Release Date: July 1997
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.REL511.REL0797.DOC**

VOLUME = site determined
ORG = PO
RECFM = FB
LRECL = 80
BLKSIZE = 23440
TRKS = 7

- **AIMS.NSMS.PROD.REL511.REL0797.PRD**

VOLUME = site determined
ORG = PS
RECFM = VB
LRECL = 4624
BLKSIZE = 4628
TRKS = 151

- **AIMS.NSMS.PROD.REL511.REL0797.SRC**

VOLUME = site determined
ORG = PS
RECFM = VB
LRECL = 4624
BLKSIZE = 4628
TRKS = 36

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 9.0 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 library from dataset AIMS.NSMS.PROD.REL511.REL0797.SRC. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library, 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	19
MAPS	12
HELP ROUTINES	0
SUBROUTINES	9
SUBPROGRAMS	0
PROGRAMS	11
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	51

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

No modules were added with this release.

Changed Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
NSMPINIT	NSMS Initial Map	MAP	
NSPTISPR	Create Issue Directive	PGM	867
NSMPISPR	Create Issue Directive	MAP	867
NSDLISPR	Create Issue Directive	LDA	867
NSSRISAA	Create Issue Directive	SUB	867
NSDLISAA	Create Issue Directive	LDA	867
NSSRISBB	Create Issue Directive	SUB	867
NSDLISBB	Create Issue Directive	LDA	867
NSSRISST	Create Issue Directive	SUB	867
NSDLISST	Create Issue Directive	LDA	867
NSPTISPP	Post Post Issue	PGM	867
NSMPISPP	Post Post Issue	MAP	867
NSDLISPP	Post Post Issue	LDA	867
NSPTRSPS	Reservation of Program Stock	PGM	867
NSMPRSPS	Reservation of Program Stock	MAP	867
NSDLRSPS	Reservation of Program Stock	LDA	867
NSSRISRI	Issue Reserved Stock	SUB	867
NSMPISRI	Issue Reserved Stock	MAP	867
NSDLISRI	Issue Reserved Stock	LDA	867
NSPT3200	Manual Commercial Due-In	PGM	867
NSMP3200	Manual Commercial Due-In	MAP	867
NSDL3200	Manual Commercial Due-In	LDA	867
NSSR320A	Manual Commercial Due-In	SUB	867
NSDL320A	Manual Commercial Due-In	LDA	867
NSSR320C	Manual Commercial Due-In	SUB	867
NSDL320C	Manual Commercial Due-In	LDA	867
NSSR320D	Manual Commercial Due-In	SUB	867
NSDL320D	Manual Commercial Due-In	LDA	867
NSPTCMDI	Commercial Direct Due-In	PGM	867
NSMPCDI2	Commercial Direct Due-In	MAP	867
NSDLCMDI	Commercial Direct Due-In	LDA	867
NSSRCDIC	Commercial Direct Due-In	SUB	867
NSDLCDIC	Commercial Direct Due-In	LDA	867
NSSRCDID	Commercial Direct Due-In	SUB	867
NSDLCDID	Commercial Direct Due-In	LDA	867
NSPTDIPP	Monitor Transaction (Post Post Issue)	PGM	867
NSMPDIPP	Monitor Transaction (Post Post Issue)	MAP	867
NSDLDIPP	Monitor Transaction (Post Post Issue)	LDA	867
NSPTDIPR	Monitor Transaction (Pre Post Issue)	PGM	867

NSMPDIPR	Monitor Transaction (Pre Post Issue)	MAP	867
NSDLDIPR	Monitor Transaction (Pre Post Issue)	LDA	867
NSPTDRPS	Monitor Transaction (Reserve)	PGM	867
NSDLDRPS	Monitor Transaction (Reserve)	LDA	867
NSMPDRPS	Monitor Transaction (Reserve)	MAP	867
NSPTDIRS	Monitor Transaction (Issue Reserve)	PGM	867
NSDLDIRS	Monitor Transaction (Issue Reserve)	LDA	867
NSMPDIRS	Monitor Transaction (Issue Reserve)	MAP	867
NSPT3201	Due In Stocked Commercial	PGM	867
NSMP3201	Due In Stocked Commercial	MAP	867
NSDL3201	Due In Stocked Commercial	LDA	867
NSPTARDO	Release Due Outs	PGM	880

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

This release will include the new enhancements for version 5.1.1. Details for changes in this release can be found under paragraph 4.1.3 Physical File Changes or by performing Predict reporting on the keyword NSMS5.1.1. DDMs should be generated for all NS-TRANSACTION-FILE userviews.

4.1.1 Inventory of Objects

PREDICT Objects by Type:

Keyword	-	1
Standard file	-	1
Conceptual help file	-	1
ADABAS Files and Views	-	29
Data Elements	-	2348

4.1.2 Storage Considerations

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

4.1.3 Physical File Changes

Modified Files

Add the following new fields:

NS-TRANSACTION-FILE		File # 182						
Ty	L	Field name	F	Length	Occ	D	U	DB S
*	-	-----	*	-----	-----	*	*	-- *
1		ENGNRNG-DRWNG-PART-LIST-NMBR	A	25.0				GQ N
1		ENGNRNG-DRWNG-FIND-NMBR	A	8.0				GR N

Add the following new superdescriptors to the appropriate files

NS-TRANSACTION-FILE		File # 182						
Ty	L	Field name	F	Length	Occ	D	U	DB S
*	-	-----	*	-----	-----	*	*	-- *
SP 1		DOM-ENGNRNG-DRWNG-PART-LIST-NMBR	A	27.0		D		GS N

Invert the superdescriptor using command
ADAINV SUPDE='GS=BP(1,2),GQ(1,25)'

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the NSMS or other named library. **IT 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
- 4.0 Install Predict
- 5.0 Catalog Source Code