

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

Release 5.1.2

PrISMS Contract

September 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 5.1.2**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
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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 5.1.2.

The release has an effective date of September 30, 1997 and is scheduled for implementation by November 14, 1997. Support of the previous release expires on the implementation date of release 5.1.2.

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 5.1.2, 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) 887, 889, and 895.

This release includes the necessary modules to incorporate the RC 876 approved by the Configuration Control Board (CCB). RC 876 allows for Just-In-Time (JIT) processing of NSMS for centers updating quantities at the bin level. All modules included in this release associated with JIT should be loaded to the existing NSMS libraries.

1. PROBLEM - (CATALOG SCAN, ASSET SCAN) 1620# - 887

When searching for a part number that is not on file and the value entered is past the last record on file a NATURAL Error 1009 occurs in the Catalog Scan and Asset Scan processes.

ACTION - Correct the processes to present a message indicating the value entered to search by does not exist and return to the start of the query.

2. PROBLEM - (Release Due Outs) 1620# - 889

The Release Due Out process returns a fatal error when attempting to release a due out by document number.

ACTION - Correct process to release a due out when document number is entered.

3. PROBLEM - (Bin Location Summary Report) 1620# - 895

A Natural Error 3047 occurs when trying to produce the report by bin range.

ACTION - Release records put on hold when running the report by bin range.

4. ENHANCEMENT - (JIT Processing) 1620# - 876

Allow centers updating quantity at the bin the capability to enter organization (org.) and project when using the NASA On-Line Supply Catalog (NOSC) system.

ACTION - Add window to enter org. and project within NOSC.

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

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 be distributed with the December release of NSMS.

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 5.1.2 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
DR	Discrepancy Report
JIT	Just In Time
NASA	National Aeronautics and Space Administration
NOSC	NASA On-line Supply Catalog
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. PROBLEM - (CATALOG SCAN, ASSET SCAN) 1620# - 887

When searching for a part number that is not on file and the value entered is past the last record on file a NATURAL Error 1009 occurs in the Catalog Scan and Asset Scan processes.

ACTION - Correct the processes to present a message indicating the value entered to search by does not exist and return to the start of the query.

VALIDATION

- Using the Catalog Scan (CATSCAN) process, search by each option (NSN (1), Manufacturers Part Number (2), Generic Technical Description (3) and Technical Description(4)) entering a Starting Value of all 'Z's, '9's, '0's, 'A's, 'D's, and '5's. Each search will display records containing the Starting Value entered or higher value if a higher value exists. If the Starting Value is past end of file and no records with a higher value exist, a message will be presented reflecting 'PAST END OF FILE, STARTING OVER AT BEGINNING'.
- Using the Asset Scan (SCANASET) process, search by Part Number entering values for all 'Z's, '9's, '0's, 'A's, 'D's and '5's. Each search will display records for the Part Number or display a message stating 'NO RECORD FOUND ON FILE'.

2. PROBLEM - (Release Due Outs) 1620# - 889

The Release Due Out process returns a fatal error when attempting to release a due out by document number.

ACTION - Correct process to release a due out when document number is entered.

VALIDATION

- Using the Catalog Scan (CATSCAN) process, select a catalog record with a commercial supply source. If preferable, add a catalog record using the Add Change or Delete Catalog (CATADCHG) process.
- Using the Asset Scan (SCANASET) process, select a store stock asset for the catalog record chosen above. If preferable, add an asset using the Add, Change or Delete Asset (ADCHGAST) process.

- Using the Create Manual Due Out (MANUALDO) process, add a due out for the asset. Enter a source document number.
- Using the Inventory Adjustment (INVADJST) process, if the asset does not have quantity, add some quantity to the asset. If this step is executed, blank out the release the due out field.
- Using the Release Due Out (RELEASDO) process, release the due out using the document number of the due out stocked transaction (DOST).
- Using the Transaction Reversal (REVTRANS) process, reverse the issue due out release transaction (ISDR).
- Using the Release Due Out (RELEASDO) process, release the due out using the asset key of the due out stocked transaction (DOST).
- Using the Transaction Reversal (REVTRANS) process, reverse the issue due out release transaction (ISDR).
- Using the Inventory Adjustment (INVADJST) process, add some quantity to the asset and request the due outs to be released.

3. PROBLEM - (Bin Location Summary Report) 1620# - 895

A Natural Error 3047 occurs when trying to produce the report by bin range.

ACTION - Release records put on hold when running the report by bin range.

VALIDATION

- Using the Process Inventory Counts (INVCTSMM) process, build an inventory control record (option 1 with run-id, and an inventory type of FBR). Enter a beginning bin of A and an ending bin of 9. Process to completion.
- Using the Process Inventory Counts (INVCTSMM), produce the Bin Location Report (option 2). Process to completion. This will be a long running job due to reading all bins.

4. ENHANCEMENT - (JIT Processing) 1620# - 876

Allow centers updating quantity at the bin the capability to enter organization (org.) and project when using the NOSC system.

ACTION - Add window to enter org. and project within NOSC.

VALIDATION

- This enhancement can only be tested if NOSC is loaded on a PC and the user has authority to order from NOSC. Testing of this enhancement will be done within NOSC. This test should be done in a test environment if available.
- The NOSC.INI file should be updated with the **Update Bin Indicator** equal to 'Y' and the **Domain** should be the domain where the Update Bin Indicator is set to 'Y' within NSMS.
- Select a program stock asset and click on the Detail button. A second window (screen) will appear, click the order quantity button. A third window (screen) will appear, enter data in the appropriate fields and click the order button. A fourth window (screen) will appear, enter org. and project and click the OK button. A fifth window (screen) will appear reflecting the status of the order.
- Using the Monitor Transaction (MONTRANS) process, view the issue transaction if the order was successful.

APPENDIX D

INSTALLATION INSTRUCTIONS AND CHECKLIST

Introduction

Release information:

System Name: NSMS
Release Number: 5.1.2
Release Date: September 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.REL512.REL0997.DOC**
 - VOLUME = site determined
 - ORG = PO
 - RECFM = FB
 - LRECL = 80
 - BLKSIZE = 4000
 - TRKS = 2

- **AIMS.NSMS.PROD.REL512.REL0997.SRC**
 - VOLUME = site determined
 - ORG = PS
 - RECFM = VB
 - LRECL = 4624
 - BLKSIZE = 4628
 - TRKS = 25

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 library from dataset AIMS.NSMS.PROD.REL512.REL0997.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	12
MAPS	4
HELP ROUTINES	1
SUBROUTINES	9
SUBPROGRAMS	4
PROGRAMS	7
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	37

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
EDDLBINE	NOSC Issue Bin, Org. Project	LDA	876
EDDLBIN3	NOSC Issue Bin, Org. Project	LDA	876
EDDLVCIP	NOSC Issue Bin, Org. Project	LDA	876
EDSRBINE	NOSC Issue Bin, Org. Project	SUB	876
EDSRBIN0	NOSC Issue Bin, Org. Project	SUB	876
EDSRBIN3	NOSC Issue Bin, Org. Project	SUB	876
EDSRISAA	NOSC Issue Bin, Org. Project	SUB	876
EDSRVCIP	NOSC Issue Bin, Org. Project	SUB	876

Changed Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
NSMPINIT	NSMS Initial Map	MAP	
NSPTREQR	Customer Requisition	PGM	876
NSDLREQR	Customer Requisition	LDA	876
NSSRISRQ	Customer Requisition	SUB	876
NSDLISRQ	Customer Requisition	LDA	876
NSDPISRQ	Customer Requisition	PARM	876
EDSRVCIS	NOSC Issue	SUB	876
EDDLVCIS	NOSC Issue	LDA	876
EDSERVER	JIT View/Order Quantity	PGM	876
EDSPVCOL	JIT View/Order Quantity	SUBP	876
EDSPVCOP	JIT View/Order Quantity	SUBP	876
EDDLVCOR	JIT View/Order Quantity	LDA	876
EDSPVCOR	JIT View/Order Quantity	SUBP	876
EDDLVCPS	JIT View/Order Quantity	LDA	876
EDSPVCPS	JIT View/Order Quantity	SUBP	876
EDDLVCDB	JIT View/Order Quantity	LDA	876
EDSRVCDB	JIT View/Order Quantity	SUB	876
EDSRVCJT	JIT View/Order Quantity	SUB	876
EDCYCLE	JIT Cycle APPC Server	PGM	876
EDCYCLEM	JIT Cycle APPC Server	MAP	876
NSPTCASC	Catalog Scan	PGM	887
NSMPCASC	Catalog Scan	MAP	887
NSDLCASC	Catalog Scan	LDA	887
NSHSPNCV	Scan Asset (Part Number)	HLP	887
NSMPSCN1	Scan Asset	MAP	887
NSPTSCAN	Scan Asset	PGM	887
NSPTARDO	Release Due Outs	PGM	889
NSPRICLS	Inventory Counts	PGM	895
NSDLICLS	Inventory Counts	LDA	895

EDCYCLE and EDCYCLEM are site specific modules that will need to be changed and stowed. The module EDCYCLE will stop the server in order for newly changed modules to take effect.

References to APPC-BROKER-ID must be changed in **EDCYCLE** to reference the broker id for your center. Change the lines below to the values for your center.

```
0590 IF #APPC-BROKER-ID EQ 'APPC176' OR EQ 'APPC141' OR EQ 'APPC173' /* #1  
.....  
0640 'BROKER ID MUST CONTAIN ".", APPC176, APPC141, OR APPC173' /* #1
```

References to BROKER ID must be changed in **EDCYCLEM** to reference the broker id for your center. Change the text on the map to reflect the appropriate broker ids.

The modules will need to be stowed.

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

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

APPENDIX E

NOSC PC INSTRALLATION PROCEDURES

If NOSC is installed at your center, the following procedures should be used to install the NSMS NOSC PC Version 1.0.2 software upgrade. The upgrade exists on the WIZARD.MSFC.NASA.GOV server. This documentation is found in the **apps\nsms\pc_install\doc** folder on the server.

REQUIREMENT:

There must be an existing directory for NOSC and PBRT.

The installer must be familiar with Windows 3.1 file manager or Windows 95 Explorer, FTP file transfer and ZIP file compression utilities.

If a file transfer application does not exist on your machine, proceed to the following directory on the server, the **apps\nsms\pc_install\support\win95\ws_ftp.zip** file. Open the file and select the **INSTALL** Option.

If an unzip utility does not exist on your machine, proceed to the following directory on the server depending on your platform. Proceed with the installation of this utility.

Win 95 - apps\nsms\pc_install\support\win95\winzip95.zip

Win3.x - apps\nsms\pc_install\support\win3.x\winzip.zip

I. PRE-INSTALL PREPARATION

A. From **My Computer Window** OR **Exploring Window**

1. Rename the existing **Nosc** directory to **Noscbkup**
2. Rename the existing **Pbrt** directory to **Pbrtbkup**
3. Choose the **New Folder** Option and create the temporary **Nosc10 folder**, **\Nosc10** will be used to hold downloaded zip files for the application installation.

II. CONNECTING TO THE SERVER

- A. **OPEN an FTP Server Connection** to access the Remote Host **wizard.msfc.nasa.gov** (128.158.154.9). These entries including the Remote Host are case sensitive.
- B. Login Information
 - User Name - **aim**
 - Password - **aimftp**
 - Remote Operating System - **UNIX** (should be preset)

- C. If the **Anonymous Login** is checked, remove the check.
- D. When the directories display
 - 1. Double click on each directory until the path **apps\nsms\pc_install\versions win95\nosc102** folder is opened.
 - 2. Download the following files into your local **c:\nosc10** folder
 - disk1.zip
 - disk2.zip
 - disk3.zip
 - disk4.zip
- E. **CLOSE** the connection to the remote FTP Server.

III. INSTALLATION

- A. Open the **WinZip** application.
- B. Select **OPEN ARCHIVE**
 - 1. Click on the **Open icon**, point to the **c:\nosc10** folder and locate the **zip files**.
 - 2. Highlight **disk1.zip**, click OK, you can now see the contents of the zip file.
 - 3. Click on the **EXTRACT icon**, point to the **c:\nosc10** folder, then **Extract**. (May already be pointing to correct folder). **Repeat the prior steps (1 through 3) for disk2.zip, disk3.zip and disk4.zip files.**
 - 4. Close the WinZip Application.
 - 5. Proceed to the **c:\nosc10** directory and run **setup.exe**.
- C. Installation is complete.

IV. CONFIGURING YOUR ENVIRONMENT

- A. Using **My Computer Window** or **Exploring Window**, verify the existence of the following folders:

\nosc - contains the following files:

admin.exe
admin.pbd
nosc.exe
nosc.hlp
nosc.ini
nosc.pbd
opensrv.dat
opensrv.dll
opensrv.lib
sh20mon.exe
sh20w16.dll

\pbrt - contains the following files:

Dbt50w.dll Dbt50w.dll

Dbwe50.dll	Pbbgr050.dll
Pbcmp050.dll	Pbdpb050.dll
Pbdse050.dll	Pbdwe050.dll
Pbhlp050.dll	Pbidbf50.dll
Pbitxt50.dll	Pbmss050.dll
Pbodb050.dll	Pbosc050.dll
Pboui050.dll	Pbroi050.dll
Pbrtc050.dll	Pbrte050.dll
Pbrtf050.dll	Pbshr050.dll
Pbsmi050.dll	Pbstr050.dll
Pbsyc050.dll	Pbtyp050.dll
Pvbx050.dll	Pbwsc050.dll
WI50en.dll	Wod50w.dll
Wtr50w.dll	

- B. Modifying the **c:\nosc\nosc.ini** file. Change the following to match the parameters in **c:\noscbkup\nosc.ini**
1. SERVER_NAME; i.e SYBASE_MSFC
 2. DATABASE; i.e. MsfcNsmsPrd
 3. LOGINID; i.e. msfcnsms
 4. PASSWORD; i.e. ross01
- C. Modifying the **c:\nosc\nosc.ini** file. Change the following parameters to specify the site specific requirements.
- BinQtyInd** = enter 'Y' for centers that update quantity at bin level or 'N' for centers which do not update quantity at the bin level
- Domain** = enter default domain (ex. NS)
- D. Save the file, then EXIT
- E. Copy **C:\Noscbkup\Opensrv.dat** to **C:\NOSC** overlaying the existing file.

V. Execute Nosc using normal procedures.

VI. CLEANING UP AFTER INSTALLATION

Delete the following files/folders:

\Nosc10
\Noscbkup
\Pbrtbkup

Call MSFC System Support, Sylvia Battles, (205) 544-8366 for installation assistance.