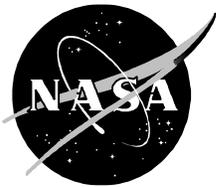


VERSION DESCRIPTION DOCUMENT FOR THE NASA ONLINE SUPPLY CATALOG (NOSC)

Release 4.0

UNITeS Contract

August 6, 2004



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

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RELEASE 4.0**

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Approved by

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August 2004

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1.0 INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for Release 4.0 of the NASA Online Supply Catalog (NOSC). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NOSC, Release 4.0 and has an effective release date of August 6, 2004.

1.2 PURPOSE OF THE RELEASE

This release implements modifications necessitated by the following Change Control Requests (CCR):

- **CCR 985** – Allow a search and entry of a starting value to be performed on the Akaname with the displayed results sorted by Akaname, Generic Name, and Technical Name.
- **CCR 997** – Add 3 new searchable data fields: 1) Body Material, 2) End Connections, 3) End to End Dimension.
- **CCR 998** – DOST Transactions appearing on ISPR Print Notices. (Released in the NOSC 3.9 Emergency Release).
- **CCR 999** – Dynamic Search for all component fields.
- **CCR 1000** – NOSC will not allow a due out (DOST) to be created on a traceable asset.
- **CCR 1001** – Add an edit on the front end when customers are requesting non NASA domain stock items.
- **CCR 1002** - Consumed/Returned radio button on the order screens
- **CCR 1003** - Cost Information on NOSC Order History
- **CCR 1004** - Sequence Number for Source Document Number
- **CCR 1005** - Icon for NOSC Production Web Site
- **CCR 1007** – Screens for scans and searches need to be full screens
- **CCR 1008** – All QCC values for a trace key need to be displayed
- **CCR 1009** – NOSC ordering online with same multi-line number and 2 users (Released in the NOSC 3.9 Emergency Release 2)
- **CCR 1010** – Customer ID Table Verification for Authorized Program Stock

1.3 SCOPE

This VDD provides the functional and technical user of NOSC with information regarding the contents, status, and structure of Release 4.0, including the following:

- Changes implemented since Release 3.9 Emergency Release.
- References to other documentation affected by this release.
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for NOSC is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Identify yourself as SESAAS & NOSC.)

Telephone: 1-866-419-6297

Email: charmaine.styles-oscarson@msfc.nasa.gov

FAX: (256) 544-1836

2.0 FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, ADABAS/NATURAL Installation Instructions, describes the ADABAS/NATURAL software changes related to this release.

2.2 FUNCTIONAL INTERFACES

This release has a functional impact on the interface with the NASA Supply Management System (NSMS.)

2.3 CRITICAL ISSUES

There are no critical issues for this release.

2.4 AFFECTED DOCUMENTS

The following document is affected by this release:

NOSC User and Operations Guide (UOG)

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3.0 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 release has an impact on the interface with the NASA Supply Management System (NSMS). This release augments the interface with the Integrated Financial Management (IFM) application.

3.2 DATA DICTIONARY CHANGES

There are no data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

ADABAS/NATURAL 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 the ADABAS/NATURAL 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 ADABAS/NATURAL software modules impacted by this release.

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, ADABAS/NATURAL Installation Instructions for NOSC Software Release 3.9 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

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

4.0 KNOWN AND OPEN PROBLEMS

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

APPENDIX A
ABBREVIATIONS AND ACRONYMS

ABBREVIATIONS AND ACRONYMS

NOSC	NASA Online Supply Catalog
CC	Consolidation Center
CCR	Change Control Request
DR	Discrepancy Report
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
RC	Requirements Change
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document
SSC	Stock Status Code
JIT	Just-In-Time (Electronic Commerce - EC)
ISPR	Issue Stock Transaction
DOST	Due Out Stock Transaction (Backorder)
DIED	Due In Electronic Direct Buy Transaction
DIEC	Due In Electronic Commerce Transaction (JIT Transaction)

APPENDIX B
GLOSSARY

GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with an application.

APPENDIX C
FUNCTIONAL CHANGE VALIDATION
PROCEDURES

FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of changes in this release.

Section	CCR	Title
1.0	985	Allow a search and entry of a starting value to be performed on the Akaname with the displayed results sorted by Akaname, Generic Name, and Technical Name.
2.0	997	Add 3 new searchable data fields: 1) Body Material, 2) End Connections, 3) End to End Dimension.
3.0	998	DOST Transactions appearing on ISPR Print Notices. (Released in the NOSC 3.9 Emergency Release).
4.0	999	Dynamic Search for all component fields.
5.0	1000	NOSC will not allow a due out (DOST) to be created on a traceable asset.
6.0	1001	Add an edit on the front end when customers are requesting non NASA domain stock items.
7.0	1002	Consumed/Returned radio button on the order screens
8.0	1003	Cost Information on NOSC Order History
9.0	1004	Sequence Number for Source Document Number
10.0	1007	Screens for scans and searches need to be full screens.
11.0	1008	All QCC values for a trace key need to be displayed

1.0 CCR Number 985

Functional Impact

This search will allow the capability to search by Akaname for users who do not know the Generic Name or Technical Name.

Validation Procedures

1. Select the Akaname search from the drop-down search window. Enter a value for the Akaname search. Verify all hyperlink drill downs and navigation buttons work for the search. Verify all pertinent asset data is passed to accessed web pages.

2.0 CCR Number 997

Functional Impact

There are 3 new individual component data searches available. These are as follows:

1. Body Material
2. End Connections
3. End to End Dimensions

Validation Procedures

1. Execute program, EDPUCEXS, to extract NSMS data. This data will be loaded into the NOSC Oracle database.
2. Execute the batch job that uses FTP to download the NSMS extract data files to the Oracle database server.
3. Once the NSMS data files have been downloaded, the data must be imported into the NOSC Oracle database. Please contact Charmaine Styles-Oscarson at (256) 544-8503 or Sylvia Battles at (256) 544-8366. (When NOSC is implemented in production, the data imports will be scheduled to run automatically.)
4. When the data imports have completed, enter the web address to access NOSC and begin using the system:

NOSC Web Address: <http://noscap1.nacc.nasa.gov:8080/javadoc/NOSC.htm>

5. Execute each search above from the drop down search selection window. Verify all hyperlink drill downs and navigation buttons work for each search. Verify all pertinent asset data is passed to each subsequent web page.

3.0 CCR Number 998

Functional Impact

Due-Out Stock Transactions (DOST) will no longer appear on the ISPR print notice.

Validation Procedures

**** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. ****

Using the search or scan functions, select an asset with available quantity in the NS domain to make a stock withdrawal request.

- 1 Click on the 'Order Quantity' button when the 'Asset/Catalog Detail' screen is displayed.
- 2 Complete all required fields and submit the order request. An order confirmation screen should display.
- 3 Verify in NSMS via MONTRANS fastpath the ISPR/DOST transactions are successfully generated.

4.0 CCR Number 999

Functional Impact

A new search function is available to allow a dynamic search to be conducted on multiple components using the following requirements for entry of the search data:

<u>Field</u>	<u>Search option</u>
Generic Name	Wild Card
Technical Name	Wild Card
AKA Name (Also known As)	Wild Card
Size	Entry must be an exact match
Maximum Allowable Pressure	Entry must be an exact match
Relative Pressure Rate	Entry must be an exact match
Last Service	Wild Card

Validation Procedures

1. Select the Multiple Components search from the drop-down search window. Enter a value for each field to be included in the search. Verify all hyperlink drill downs and navigation buttons work for the search. Verify all pertinent asset data is passed to accessed web pages. Verify all pertinent data is displayed for the following columns:

- NSN
- Part Number
- Manufacturer
- Serial Number
- Max Temp
- Min Temp
- Body/Material
- End Connections
- End to End Dimension

*** Be sure to click in the box of the value you entered. Otherwise, the search will not execute. ***

5.0 CCR Number 1000

Functional Impact

Due out (DOST) transactions are now generated for traceable assets. The DOSTs will be created when the quantity is depleted for a selected trace key while creating the ISPR transaction. For program stock assets, the DOST will be created when the quantity is depleted for a selected trace key at the ORG/Project level while creating the ISPR transaction.

Validation Procedures

**** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. ****

Using the search or scan functions, select a traceable asset with available quantity for associated trace keys (serial or lot batch numbers) in the NS domain to make a stock withdrawal request.

- 1 Click on the 'Order Quantity' button when the 'Asset/Catalog Detail' screen is displayed.
- 2 Complete all required fields making sure to request more quantity than what is available for a given trace key and submit the order request. An order confirmation screen should display to include backorder information.
- 3 Verify in NSMS via MONTRANS fastpath the ISPR/DOST transactions are successfully generated.

6.0 CCR Number 1001

Functional Impact

Only NASA domain assets are allowed to be ordered thru NOSC.

Validation Procedures

**** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. ****

1. Using the search or scan functions, select an asset with available quantity in the NS domain to make a stock withdrawal request. The 'Order Quantity' button should display for a nontraceable asset. The 'View & Order Trace Quantity' button should display for a traceable asset. These buttons should not display for Non NASA domain assets.

7.0 CCR Number 1002

Functional Impact

The repairable state of a component asset is now available. When ordering a component, an indicator specifying whether the asset is consumed or returned must be selected before placing the order.

Validation Procedures

1. Using the search or scan functions, select a component asset and verify the Repairable Code field is displayed on the Catalog/Asset Detail screen. When placing an order, verify the Consumed/Returned radio button is displayed on the order request screen for nontraceable and traceable component assets.

8.0 CCR Number 1003

Functional Impact

The cost information for orders placed through NOSC is available on the screen in the NOSC Order History query.

Validation Procedures

1. Select the NOSC Order History link located on the left frame of the NOSC Home Page. Enter a valid user id. The order history for that user will be displayed. Verify that the Price Average field is displayed and the Cost calculation is correct. The cost is obtained by the following computation:
Cost = Price Average * Qty Ordered.

9.0 CCR Number 1004

Functional Impact

Some centers use the source document number for tracking purposes. When a stock withdrawal is requested, a unique source document number will be automatically generated and tracked in NOSC for any center wanting to use this feature. The format consists of the literal 'NOSC', today's date in the format of MMDDYY or '010302', plus a 4 digit sequence number. The sequence number will start over at '0001' for each new day.

Validation Procedures

**** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. ****

1. Select a stock item to order using one of the Scan or Search functions. Complete all necessary entries on the Order Request screen. If your center has requested the automatic generation of the source document number, this number should display in the Source Document Number block on the Order Request screen. Verify that it is the first source document number generated for that day and the sequence number is '0001'. If not, verify with another tester that tested this function first that the sequence number was '0001'. After a stock withdrawal request is successful, the source document number is archived along with the other pertinent order information and may be viewed in Order History.

10.0 CCR Number 1007

Functional Impact

Because of the numerous fields displayed during the scan functions, the scans will display in full screen mode. The search screens will display in a semi-full screen mode consisting of two frames. The smaller top frame will display the search drop-down selection window for ease of selecting other search functions as needed. The larger bottom frame will display the search results of the last search performed.

Validation Procedures

1. Execute each search. Verify the search results are displayed in the larger bottom frame on the screen. Verify all hyperlink drill downs and navigation buttons work for each search. Verify all pertinent asset data is passed to each subsequent web page.
2. Execute each scan. Verify the scan results are displayed in full screen mode. Verify all hyperlink drill downs and navigation buttons work for each scan. Verify all pertinent asset data is passed to each subsequent web page.

11.0 CCR Number 1008

Functional Impact

For traceable assets that have quality sensitive criteria codes, all comments or descriptions of the criteria codes will now be displayed.

Validation Procedures

1. Using the search or scan functions, select a traceable asset that should have quality sensitive criteria codes.
2. When the Asset/Catalog detail screen displays, select the 'View Trace Quantity' or 'View & Order Trace Quantity' button.
3. For a trace key displaying a 'Y' under the 'QCC Info' heading, click on the 'Y' and the associated quality sensitive criteria codes along with all of the associated comments or descriptions should display.

**APPENDIX D
ADABAS/NATURAL
INSTALLATION INSTRUCTIONS
FOR NOSC SOFTWARE RELEASE 4.0**

INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NOSC SOFTWARE RELEASE 4.0

Introduction

Release information:

System Name: NOSC
Release Number: 4.0
Release Date: August 6, 2004
Effective Date: August 6, 2004

For problems encountered as a result of this installation, contact the NACC Technical Services Center (Identify yourself as SESAAS & NOSC.)

Telephone: 1-866-419-6297

Email: charmaine.styles-oscarson@msfc.nasa.gov

FAX: (256) 544-1836

*** IMPORTANT NOTE ***

All release datasets must be deleted from the transient storage DASD volumes within 1 month of the release date. Failure to delete release datasets could negatively impact NPPS production.

The following datasets are located on the transient storage DASD volumes under the following data sets names:

MSMOV.NOSC.R400.R0804.SRC

Installation Sequence

The sequence in which the installation of this release will occur is provided in the following list. A checklist is provided in Section 6.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Catalog Source Code
- 4.0 Perform Release-Specific Procedures
- 5.0 Local JCL Mods
- 6.0 Installation Checklist

1.0 Back Up Existing Data

A back up of the NSMS libraries will be performed as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Copy Source Code

Load the NOSC source modifications from the dataset MSMOV.NOSC.R400.R0704.SRC. The source programs were unloaded using the Natural utility NATUNLD. Using NATLOAD, the programs should be loaded to the application libraries named AGNSDEV, AGNSTEST, and AGNSPROD, replacing any existing programs of the same name. The AGNSLIST libraries should also be loaded with the released modules.

The source module counts included in this release are listed below:

Natural Source Modules by type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	2
MAPS	0
HELP ROUTINES	0
SUBROUTINES	2
SUBPROGRAMS	0
PROGRAMS	1
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	5

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules:

There are no modules added in this release.

Changed Modules:

<u>MODULE ID</u>	<u>MODULE DESCRIPTION</u>	<u>TYPE</u>
1. EDPUCEXS	Extract for Oracle Database	PROGRAM
2. EDDLTRIS	Local Data Area for EDSRTRIS	LDA
3. EDDLVCIP	Local Data Area for EDSRVCIP	LDA
4. EDSRTRIS	Processes traceable asset order requests – ISPR transactions	SUBROUTINE
5. EDSRVCIP	Processes program stock order requests – ISPR transactions	SUBROUTINE

Deleted Modules:

There are no modules deleted in this release.

3.0 Catalog Source Code

A batch job will be run to catalog (CATALL) all modules in the NSMS libraries. The SESAAS Batch standard parameters will be used for the compile.

After all objects are compiled, the NOSC application will run under the SESAAS batch standard parameters.

4.0 Perform Release-Specific Procedures

There are no Release-Specific Procedures with this release.

5.0 Local JCL Mods

1. A new work file must be allocated to use for the additional new component data fields that will be extracted as a result of CCR 997. The work file name and attributes are as follows:

AGCAM.NOSCP.ITEM.COMPONENT.DESC

AGCAM.NOSCP.ITEM.COMPONENT.DESC **(Reallocate only when implementing in production.)**

General Data

Management class . . . : ****None****
Storage class : TSUCLAS
Volume serial : STZ011
Device type : 3390
Data class : ****None****
Organization : PS
Record format : FB
Record length : 213
Block size : 21300
1st extent cylinders: 16
Secondary cylinders : 5
Data set name type :

Current Allocation

Allocated cylinders : 26
Allocated extents . : 3

Current Utilization

Used cylinders . . . : 25
Used extents : 3

SMS Compressible . : NO

2. A new work file must be allocated to use for the additional repairable code data field that will be extracted as a result of CCR 1002. The work file name and attributes are as follows:

AGCAM.NOSCP.ITEM.TECH.DESC

AGCAM.NOSCP.ITEM.TECH.DESC **(Reallocate only when implementing in production.)**

General Data

Management class . . . : ****None****
 Storage class : TSUCLAS
 Volume serial : STZ011
 Device type : 3390
 Data class : ****None****
 Organization : PS
 Record format : FB
 Record length : 90
 Block size : 9000
 1st extent cylinders: 16
 Secondary cylinders : 5
 Data set name type :

Current Allocation

Allocated cylinders : 16
 Allocated extents . : 1

Current Utilization

Used cylinders . . . : 16
 Used extents : 1

SMS Compressible . : NO

6.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.1 Copy Source Code
- 1.0 Catalog Source Code
- 5.0 Local JCL Mods

APPENDIX E
ADABAS/NATURAL
SAMPLE JOB CONTROL LANGUAGE FOR
RELEASE 4.0

SAMPLE JOB CONTROL LANGUAGE FOR RELEASE 4.0

See 5.0 Local JCL Mods for instructions for JCL changes. No samples are provided.