CA NetMaster® Network Management for SNA

Release Notes

r12

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CA Product References

This document references the following CA products:

- CA Mainframe Software Manager (CA MSM)
- CA NetMaster® Network Management for SNA (CA NetMaster NM for SNA)

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Contact Technical Support

For your convenience, CA provides one site where you can access the information you need for your Home Office, Small Business, and Enterprise CA products. At http://ca.com/support, you can access the following:

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- Product and documentation downloads
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Chapter 1: New Features

This topic describes new features added to CA NetMaster NM for SNA.

This section contains the following topics:

New Features in r12 (see page 7)
New Features in r11.7 (see page 7)
New Features in r11.6 (see page 9)

New Features in r12

This section describes the new features introduced with r12.

Mixed Case Password

Support is added for mixed case passwords. The following JCL parameter for the product region enables the support:

```
XOPT=PWMIX
```

If you enable this support, consider the following important points:

- Do not share a UAMS database with a region that does not support mixed case passwords, and is not using a full or partial security exit.
- Ensure that all regions in a multisystem environment have this support enabled.

New Features in r11.7

This section describes the new features introduced with r11.7.

CA Mainframe Software Manager

You can use CA Mainframe Software Manager (CA MSM) to install CA NetMaster NM for SNA. CA MSM is an application that simplifies and unifies the management of CA mainframe products on z/OS systems. As products adopt the services provided by CA MSM, you can acquire, install, and maintain them in a common way.

CA MSM provides a Product Acquisition Service and Software Installation Services that make it easier for you to acquire and install products, and obtain and apply corrective and recommended maintenance. These services enable you to manage your software easily based on industry accepted best practices. A web-based interface makes the look and feel of the environment friendly and familiar, enabling you to install and maintain your products faster and with less chance of error.

You can acquire CA MSM using Electronic Software Delivery (ESD) from CA Support Online.

Note: For more information, see your product's installation instructions and the *CA Mainframe Software Manager Product Guide*.

Electronic Software Delivery (ESD)

Electronic Software Delivery (ESD) has been enabled for this product. You can now download product and maintenance releases over the Internet directly to your system from the CA Support website. When you order the product, you receive the authorizations and instructions to access, download, and prepare the installation files without the need for a physical tape.

Health Checker

The CA Health Checker Common Service lets CA NetMaster NM for SNA integrate with IBM health checker, and checks for the following CA NetMaster NM for SNA conditions:

- Configuration option errors
- The features to activate to gain maximum benefit from the product
- The best settings to optimize the product's performance

Note: For more information, see the *Administration Guide*.

New Features in r11.6

This section describes the new features introduced with r11.6.

Internet Protocol Version 6

CA NetMaster NM for SNA is enhanced to support Internet Protocol Version 6 (IPv6):

- Inter-Network Management Connection (INMC) can use IPv6.
- New operands are added to OCS commands.
- New operands are added to NCL built-in functions.

SOCKETS Parameter Group

The SOCKETS parameter group has the following changes:

- The TCP/IP Software Type field has a new value, IBMV6, indicating IBM's Communications Server with IPv6.
- The Domain Name Resolutions fields let you change the values that affect domain name resolution.

INMC Links

INMC links can use IPv6 connections. The Transmit and Link options on Multi-System Support Menu (shortcut /MADMIN) can specify an IPv6 address for the remote system.

IBM zIIP Support

If IBM System z Integrated Information Processors (zIIPs) are available, CA NetMaster NM for SNA can use them. You can elect to use zIIP processors when you set up your region by using the XM region JCL parameter.

Using zIIPs provides the following benefits:

- Reduction of execution time on the normal central processor, providing savings in billable CPU time
- Freeing up processing cycles from the central processor to other work
- Exploiting the processing power of zIIPs

Note: For information about the XM parameter, see the *Reference Guide*.

Persistent Global Variables

You can preserve selected global variables between restarts of the region. The facility ensures that stored Persistent Global Variables (PGVs) are automatically loaded when the region is started. You can also save PGVs using process macros or calls to the PGV procedure $CAGLBL.

SHOWGLBL provides the means of displaying global variables, including persistent variables, with different levels of detail.

Note: For more information, see the *Network Control Language Reference Guide*, *Network Control Language Programmer Guide*, *Reference Guide*, and *Administration Guide*.

Chapter 2: Changes to Existing Features

This section contains the following topics:

Changes to Existing Features in r12 (see page 11)
Changes to Existing Features in r11.7 (see page 13)
Changes to Existing Features in r11.6 (see page 17)

Changes to Existing Features in r12

This section describes the changes to existing features introduced with r12.

Performance Data Storage

A new VSAM file has replaced VFS for storing performance data such as the data for monitored resource attributes (baseline data). The file, MSDB, makes data storage and access more efficient. Through the VSAMMONITOR parameter group, the region raises an alert when the extents in the file exceed the specified threshold and reorganizes the file automatically to prevent the file from becoming full.

The region allocates the MSDB through the MSDB parameter group.

Note: The MSDB has specific LSR pool requirements. If Pool 0 in the LSRPOOL does not satisfy those requirements, the region overrides the pool with the required values.

Note: If you want to use your existing data, you must migrate the data to MSDB manually. For more information, see the *Installation Guide*.

NETINFO

The reserved category numbers in NETINFO have changed from 1 through 11 to 1 through 31. If you have created any categories using category numbers 12 through 31 and want to keep them, migrate them to numbers above 31. The Install Utility helps you perform the migration during region setup.

FSTOP Command

When you issue the FSTOP command in a region, other linked regions see it as a region shutdown with the following Severity 3 alert:

```
Region region_name was shut down normally.
```

In earlier releases, the linked regions see it as a link failure.

CA MSM

This product is packaged to support the Software Deployment Service in CA MSM.

Data Set Names

The following data set names have changed to be compatible with other CA Mainframe products.

r11.7 Name	New Name
AC11OPTN	No longer required
AC17OPTN	AC17SAMP
AC2AOPTN	AC2ASAMP
AC2DLOAD	AC2DMOD
AC2DOPTN	AC2DSAMP
AC2DPLD	AC2DMODE
CC11OPTN	No longer required
CC17OPTN	CC17SAMP
CC2AOPTN	CC2ASAMP
CC2DOPTN	CC2DSAMP

Note: For more information, see the *Reference Guide*.

UTIL0028

The UTIL0028 utility is replaced by the NETMASTR program distributed in object code. The region started task executes this program, which reads parameters from the ddname, NMDRVCTL, for the RUNSYSIN member. Similarly, SOLVE SSI executes this program, but with alias SOLVE, which reads parameters from the ddname, NMDRVCTL, for the SSISYSIN member.

Changes to Messages

Messages have been added, deleted, or updated in this release. For a list of the affected messages, see the *Message Reference Guide*.

Changes to Existing Features in r11.7

This section describes the changes to existing features introduced with r11.7.

Install Utility

The Install Utility is now unloaded into the CAIJCL data set.

Note: For more information, see the *Installation Guide*.

Data Set Names

The data set names are now compatible with other CA Mainframe products.

Original Name	New Name
AS1EXEC	AC2DEXEC
AS1SAMP	AC2DOPTN
ASICON.S	CC2DVSMI
ASMODS.S	CC2DVSMI
ASOSCN.S	CC2DVSMI
ASPANL.S	CC2DVSMI
ASRAM.S	CC2DVSMI
ASSAMP	CC2DOPTN
ASTEXEC	CC2DEXEC

AU1EXEC	AC18EXEC
AUMODS.S	CC18VSMI
AUOSCN.S	CC18VSMI
AUPANL.S	CC18VSMI
AUTEXEC	CC18EXEC
DS1CLIB	ADEMCLS0
DS1EXEC	ADEMEXEC
DS1MLIOB	ADEMMSG0
DS1PLIB	ADEMPNL0
DSMODS	CDEMVSMI
DSOSCN	CDEMVSMI
DSPANL	CDEMVSMI
DSTCLIB	CDEMCLS0
DSTEXEC	CDEMEXEC
DSTMLIB	CDEMMSG0
DSTPLIB	CDEMPNL0
FT1EXEC	AC17EXEC
FT1LOAD	AC2DLOAD
FT1MACLB	AC17MAC
FT1SAMP	AC17OPTN
FTLOAD	CC2DLOAD
FTMACROS	CC17MAC
FTMODS.S	CC17VSMI
FTOSCN.S	CC17VSMI
FTPANL.S	CC17VSMI
FTSAMP	CC17OPTN
FTTEXEC	CC17EXEC
IP1EXEC	AC11EXEC
IP1LOAD	AC2DLOAD
IP1SAMP	AC11OPTN
IPLOAD	CC2DLOAD

IPMODS.S	CC11VSMI
IPOSCN.S	CC11VSMI
IPPANL.S	CC11VSMI
IPSAMP	CC11OPTN
IPTEXEC	CC11EXEC
ME1LOAD	AC2DPLD
MELOAD	CC2DPLD
MS1DCMLD	AC2DLOAD
MS1EXEC	AC2DEXEC
MS1LOAD	AC2DLOAD
MS1MACLB	AC2DMAC
MS1SAMP	AC2DOPTN
MSCMDLIB	CC2DLMD0
MSDCMLD	CC2DLOAD
MSLNKLST	CAILINK
MSLOAD	CC2DLOAD
MSLPLOAD	CAILPA
MSMACROS	CC2DMAC
MSMODS.S	CC2DVSMI
MSNET.S	CC2DVSMI
MSNVLOAD	CAILINK
MSOSCN.S	CC2DVSMI
MSPANL.S	CC2DVSMI
MSSAMP	CC2DOPTN
MSTEXEC	CC2DEXEC
SN1EXEC	AC2AEXEC
SN1LOAD	AC2DLOAD
SN1MACLB	AC2AMAC
SN1SAMP	AC2AOPTN
SNCNTL.S	CC2AVSMI
SNLOAD	CC2DLOAD

SNMACROS	CC2AMAC
SNMODS.S	CC2AVSMI
SNOSCN.S	CC2AVSMI
SNPANL.S	CC2AVSMI
SNSAMP	CC2AOPTN
SNTEXEC	CC2AEXEC
WHMODS.S	CC2DVSMI
WR1HFS1	AC2DHFSR
WRTHFS1	CC2DHFSR
WS1HFS1	AC2DHFSS
WSTHFS1	CC2DHFSS

Note: For more information, see the *Reference Guide*.

Function Modification Identifiers (FMID) Names

The FMID names are now compatible with other CA Mainframe products.

Component	Original Name	New Name
Automation Services	C2D*nn*AS	Merged into Management Services (CC2D*nn*0)
File Transfer Services	C17*nn*FT	CC17*nn*0
FTS Services	DEM*nn*DS	CDEM*nn*0
Health Checker	New	CC2D*nn*H
Management Services	C2D*nn*MS	CC2D*nn*0
PDSE Services	C2D*nn*ME	CC2D*nn*E
ReportCenter	C2D*nn*WR	CC2D*nn*R
SNA Automation Services	C18*nn*AU	CC18*nn*0
SNA Services	C2A*nn*SN	CC2A*nn*0
TCP/IP Services	C11*nn*IP	CC11*nn*0
WebCenter SDK	C2D*nn*WS	CC2D*nn*S

Note: For more information see the *Installation Guide*.

Changes to Existing Features in r11.6

This section describes the changes to existing features in r11.6.

Network Tracking System

Network Tracking System (NTS) has the following enhancements:

- The NTS primary menu (/SNASESS) is enhanced to support the entry of shortcuts. Field prompting for network IDs, resource type, session type, and session data is now supported.
- The List Resource option is enhanced to include adjacent link stations, and you can list the sessions associated with a link station.
- The SHOW NTS command is enhanced to show all known networks, even if they are currently inactive.
- On the Trace Analysis panel, you can use the F10 (Prev) and F11 (Next) function keys to scroll through the details of consecutive session trace entries.
- The implementation of the SESS NetView operator command is enhanced to support cross-network resources. It can list sessions between resources on *all* networks. It can also restrict the list to sessions of a particular status.

  Note: For more information about the command, see the online command help.
- You can enable intensive message recording for specified LUs and PUs. The syntax of the NTSINTSV system parameter is enhanced to support a name mask:

  ```
  SYSPARMS NTSINTSV={ NO | YES | name_mask }
  ```

Network Control System

Network Control System (NCS) has the following enhancements:

- The APPN RTP List panel has the following enhancements:
  - The new SORT command lets you sort the displayed list of RTP pipes.
  - The MNPS column is replaced by the St column, indicating whether a pipe has stalled. When a pipe becomes stalled, it is highlighted.
  - The new Hn column shows the number of control points traversed by the pipe.
- When you display information about an RTP pipe, you see more information, including information on traffic, queueing, and path switch.
- When you display information about a transmission group, you see more information, including lists of associated resources, for example, RTP pipes and logical units (LUs).
- When NTS session awareness is enabled, you can list the sessions associated with an RTP pipe or transmission group.
- The OSA Details on the Transport Resource List panel has a new column, Congested Priorities, which replaces the Priority 1 and Priority 2 columns. The column shows all priority levels that have become congested.

3270 Lists

In previous releases, the input fields to the left of the lists are not shown. In this release, those input fields are underlined as indicated in the following example:

```
PROD44------------------ UAMS : User Definition List --------------------------
Command ===>                                                  Scroll ===> CSR

                                  S/B=Browse F=Force U=Update D=Delete C=Copy

    User ID  User Name            Location             Phone Number        Type
___ USER003  User 3               Sydney               12334               User
___ USER004  User 4               Sydney               12323               User
___ USER005  User 5               Sydney               11779               User
```

Commands

As part of the IPv6 enhancement, the syntax of a number of commands has changed.

More information:

DOMAIN Command (see page 19)
TCPIP START Command (see page 19)

DOMAIN Command

The DOMAIN command has the following new operand:

IPPROXY

(Optional) Specifies a proxy server through which a remote region is to be contacted. The operand is available when you use the TCP/IP access method (IP=YES).

```
DOMAIN ...
       [IPPROXY=({ip_address|host_name},port_number)]
```

Note: For more information about the command, see the online command help.

TCPIP START Command

The TCPIP START command can start an IPv6 interface on IBM stacks.

Note: For more information about the command, see the online command help.

Timer Commands

Enhancement to time management enables timer commands to determine what to do when time changes, for example, because of daylight saving. If a time change causes a specified time to be skipped, you can specify whether the timed action be done immediately or skipped. If a time change causes a specified time to be repeated, you can specify whether the timed action be repeated or skipped.

The following commands are affected by this enhancement:

- AT
- AFTER (new)
- EVERY
- SYNCTIME (new)

Note: For more information about the commands, see the online command help.

NCL Built-in Functions

As part of the IPv6 enhancement, the following NCL built-in functions have changed:

- ZTCPSUPP has the following new operands:

  IPV6

  Determines whether the region's sockets interface supports IPv6 addresses and sockets in the AF_INET6 address family.

  Note: A positive indication does not necessarily mean that an IPv6 interface has been started for the region.

  SSL

  Determines whether the region's sockets interface supports SSL.

  Note: A positive indication does not necessarily mean that SSL is enabled in the region.

- TYPECHK has the following new type value:

  IP6ADDR

  Specifies that the character string be verified as an IPv6 address in IPv6 textual form.

Command Entry

The command stack is retained across invocations and supports up to 99 entries. You can type ? in the command field and press F6 to display the command stack.

Function key display is now controlled by the user profile, and the KEYS command is supported for controlling the display. You can define actions for the function keys F13 to F24 to enter commands.

A prompt list for the System field is now supported. You can enter ? for a list of linked systems.

Note: For more information, see the online help.

Initialization File

If you have an existing region initialization (INI) file from r11.5 or r11, you can migrate that file for use in this release. However, you must review and update the file to ensure that names such as ACBs, data sets, and interfaces are suitable for the new region.

Note: For information about how to migrate an initialization file, see the *Installation Guide*.

z/OS Symbols in NCL

This product contains new NCL procedures for reading and substituting z/OS symbols.

Note: For more information, see the *Network Control Language Reference Guide*.

Print Services Manager

Print Services Manager (PSM) now supports dynamic allocation of the output data set. You can email the message body as a text attachment.

Note: For more information, see the *Administration Guide*.

AOM SSI Command Prefixes Expanded

Previously, this product supported the definition of a subsystem command prefix as a single character (the AOM SSI command character). A subsystem command prefix enables an operator to enter a prefixed command and route that command to the appropriate subsystem for execution.

You can now use a subsystem command prefix string and interface to the IBM MVS Command Prefix Facility (CPF). z/OS supports subsystem command prefixes that contain up to eight characters, which can be any combination of alphanumeric, national, or special characters.

Message Suppression Character

Previously, this product provided an audit trail by tagging AOM-suppressed messages in the system log. However, the tag character was the same as the AOM SSI command character, or, if no AOM SSI command character was defined, the tag character was assigned a default value of / (slash).

This product now contains an independently definable message suppression character that you can use to avoid confusion when you have multiple product regions running in a given LPAR.

Note: For more information, see the *Reference Guide*.

Alert Monitor

The Alert Monitor has been enhanced as follows:

- You can extract all alerts or a subset of alerts based on a filter from the Alert History Database to a comma-separated data set.
- Usability improvements, including the following:
  - Email trouble ticket interface that supports multiple email addresses
  - Ability to close all alerts or all alerts at a certain severity simultaneously using the CLOSE command
  - Clearer information in automatically-generated alerts from the state change exit
- Control improvements, including additional control over automatically-generated alerts (see parameter group STATECHANGE).

  The STATECHANGE parameter group controls whether alerts of a particular severity are issued when a resource has a problem. Set a value of 1, 2, 3, or 4 to generate alerts, or blank to clear alerts.

Note: For more information, see the *Administration Guide* and *User Guide*.

Transient Log Size Tuning

Previously, the Customizer panel for AUTOTABLES contained a single field, Transient Log Table Size, that let you specify the default transient log table size. The value specified in this field served both as a default value for newly created resources and the maximum value that can be allocated for a transient log table.

This release has the following changes:

- Replaced the current Customizer field with two distinct fields: one for the default allocation, and one for the maximum allowable size of a transient log.
- Improved the administrator tools and methods for effecting a change in the maximum transient log size of loaded resource definitions.
- Added a field to Customizer that lets you control the amount (in days) of transient log entries kept in memory. This means transient log entries are automatically deleted for entries outside of the "Keep Transient log data for" value.

Note: For more information, see the *Administration Guide* and the *Reference Guide*.

Status Monitor PREFIX Command

The new PREFIX command lets you limit the resources displayed on the Status Monitor to those whose names match a specified mask. It works in conjunction with the filter currently in use.

For example, to limit the list of resources to those with names starting with ABC, enter **PREFIX ABC**. To revert to the original list, enter **PREFIX**.

Install Utility

Multiple improvements have been made to the Install Utility to help you install and setup the product more easily.

These improvements include the following:

- SOLVE SSI setup enhancements that ensure all of the parameters are set for all product families
- Ability for regions to share a PARMLIB data set, with region specific members suffixed by the domain ID of the region:
  - IIA*domain_id* (replacing IIAPARMS)
  - SXP*domain_id* (replacing SXPARMS)

Note: For more information, see the *Installation Guide*.

Changes that Affect Resource-Level Security

Some commands and menu options have been added or deleted. If you are using resource-level security, review your implementation and modify as required.

Note: For more information, see the *Security Guide*.

Changes to the Distributed Knowledge Base

Definitions have been added, deleted, or updated in this release. For a list of the affected definitions, see the *Reference Guide*.

Changes to Messages

Messages have been added, deleted, or updated in this release. For a list of the affected messages, see the *Message Reference Guide*.

Chapter 3: Published Fixes

The complete list of published fixes for this product can be found through Published Solutions at the CA Support Download Center.

If you have CA MSM, use it to download the fixes.

Chapter 4: Documentation

This section contains the following topics:

Delivery (see page 27)
Changes Introduced with r12 (see page 27)
Changes Introduced with r11.7 (see page 27)
Changes Introduced with r11.6 (see page 28)

Delivery

The documentation is available through Documentation at Technical Support.

The documentation is delivered in PDF, and is also available in both HTML and PDF formats in a zip file.

You can download the zip file and extract the documentation onto your own server. After extraction, open the bookshelf to access the documentation.

Changes Introduced with r12

A *SOLVE Subsystem Interface Guide* is added to consolidate the information about the SOLVE Subsystem Interface (SSI). Relevant information in the *Reference Guide* is moved into this guide.

Changes Introduced with r11.7

The *Best Practices Guide* has been added with this release.

Changes Introduced with r11.6

Some of the documentation has changes in structure and names. The following list shows the documentation in this release:

- *Release Notes* (formerly *Release Summary*)
- *Installation Guide* (formerly *Getting Started*)
- *Administration Guide* (formerly *Administrator Guide*)
- *User Guide*
- *Reference Guide*
- *Security Guide*
- *Network Control Language Programmer Guide*
- *Network Control Language Reference Guide*
- *Managed Object Development Services Programmer and Administrator Guide*
- *NetMaster REXX Guide* (formerly *Working with REXX*)
- *Message Reference Guide* (formerly *Messages Guide*)
- *Glossary*