

CA SOLVE:Operations[®] Automation for CICS

Release Notes

Release 11.9



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CA Technologies Product References

This document references the following CA Technologies products:

- CA Mainframe Software Manager™ (CA MSM)
- CA OPS/MVS® Event Management and Automation (CA OPS/MVS)
- CA SOLVE:Operations® Automation for CICS

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Chapter 1: New Features

This section contains the following topics:

- [USS Command](#) (see page 7)
- [Internet Protocol Version 6](#) (see page 7)
- [IBM zIIP Support](#) (see page 8)
- [Mixed Case Password](#) (see page 8)
- [Tolerance to Time Offset Changes](#) (see page 9)
- [CA Mainframe Software Manager](#) (see page 10)
- [Health Checker](#) (see page 10)
- [CA OPS/MVS System State Manager](#) (see page 10)

USS Command

The USS command issues shell commands in UNIX System Services (USS). You issue the command from Command Entry.

This command has the following format:

USS *shell_command*

Note: The SOLVE SSI issues the shell commands on behalf of the user. The SOLVE SSI user ID authority determines which commands can be issued. To limit who can use the USS command, implement resource-level security. For information about resource-level security, see the *Security Guide*.

Internet Protocol Version 6

CA SOLVE:Operations Automation for CICS is enhanced to support Internet Protocol Version 6 (IPv6):

- [Inter-Network Management Connection \(INMC\) can use IPv6](#) (see page 8).
- New operands are added to OCS commands.
- New operands are added to NCL built-in functions.

More information:

- [DNR SET Command](#) (see page 18)
- [DOMAIN Command](#) (see page 19)
- [TCPIP START Command](#) (see page 19)
- [NCL Built-in Functions](#) (see page 22)

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 SOLVE:Operations Automation for CICS 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*.

Mixed Case Password

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

```
XOPT=PMIX
```

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 partial security exit.
- Ensure that all regions in a multisystem environment have this support enabled.

Tolerance to Time Offset Changes

You no longer need to recycle a region when time changes (for example, because of daylight saving).

More information:

[Timer Commands](#) (see page 20)

Activity Log

If a time change causes the time to go backward, the activity log differentiates the records that overlap in time by adding a plus sign (+) after the time for the newer records. The feature is only available when you are viewing the log in the default or NORMAL format.

Alert Monitor

If a time change causes the time to go backward, the Alert Monitor differentiates the records that overlap in time by adding a plus sign (+) after the time for the newer records.

Timers

Actions triggered by timers (for example, EventView timer rules) follow the following general rules:

- If a time change causes the time to go backward, the affected actions are not repeated.
- If a time change causes the time to go forward, the affected actions are triggered.

CA Mainframe Software Manager

CA MSM is an application that simplifies and unifies the management of CA Technologies mainframe products on z/OS systems.

CA MSM provides services that make it easier for you to do the following:

- Acquire, install, and deploy products
- Automatically obtain and apply maintenance

These services enable you to easily manage your software 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 from the CA Support website.

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

Health Checker

The CA Health Checker Common Service lets CA SOLVE:Operations Automation for CICS integrate with IBM health checker, and checks for the following CA SOLVE:Operations Automation for CICS 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*.

CA OPS/MVS System State Manager

A CA SOLVE:Operations Automation for CICS region and the SOLVE Subsystem Interface can automatically communicate both active status events and heart beat events to CA OPS/MVS EMA. The enabling technology is through a generic active status or heartbeat event API call. CA OPS/MVS EMA provides this API to other CA Technologies mainframe products so that they can communicate events consistently to CA OPS/MVS EMA.

Chapter 2: Enhancements to Existing Features

This section contains the following topics:

- [STARTAUTO Operation Mode](#) (see page 12)
- [MS Line Command](#) (see page 12)
- [INACTIVE-F Actual State](#) (see page 12)
- [JOB and STC Class Resource Status](#) (see page 12)
- [Logical Resources](#) (see page 13)
- [Count of Triggered Message Rules](#) (see page 14)
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- [EXECNCL and STARTNCL Macros](#) (see page 14)
- [PARSE Macro](#) (see page 15)
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- [Function Modification Identifiers \(FMID\) Names](#) (see page 24)
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- [Audit of Data Set Operations](#) (see page 24)
- [PDS Member Statistics](#) (see page 25)
- [Changes to Data Set Names](#) (see page 25)
- [Removed Features](#) (see page 26)
- [Documentation](#) (see page 26)

STARTAUTO Operation Mode

The STARTAUTO operation mode lets a resource or service to start in the AUTOMATED mode. As the resource or service achieves its desired state, its operation mode switches to MANUAL.

For example, use STARTAUTO to start a resource automatically when the system performs an initial program load (IPL) but switch it to manual control afterwards.

MS Line Command

The MS line command overrides the current operation mode to change the mode to AUTOMATED. When the resource or service achieves its desired state, the override is removed to return to the operation mode set by the definition.

INACTIVE-F Actual State

The INACTIVE-F actual state is transitional. The state forces a failed resource to acquire the INACTIVE actual state. You can specify this state on the Status Monitor Message Details panel of a resource definition.

Important! This state can cause you to miss a resource that actually failed. Use this state only in circumstances when you do not want to know that a resource has been in the FAILED actual state.

JOB and STC Class Resource Status

Enhancements have been made in the determination of the ACTIVE and INACTIVE status of JOB and STC class resources:

- A default display method checks the existence of the address space instead of relying on messages.
- You can check for the end-of-memory condition when determining when a resource becomes INACTIVE.

Display Method

The display method for JOB and STC class resources has changed. Templates that used the `D J,resource_name` or `D A,resource_name` system command as the method now have no system command specified on the Display and Heartbeat Details panel. Instead, a default method checks the existence of the address space ID, and sets the actual state to either ACTIVE or INACTIVE. When you migrate your existing definitions, they acquire the default method (unless a definition has extended information).

When a resource definition uses the default method, the D command issues the `D J,resource_name` command.

End-of-Memory Condition

End-of-memory detection is the default when a resource definition panel contains no message rules that set the resource status to INACTIVE. If you find that the message rules in your resource definitions are not detecting the INACTIVE state correctly, you can use end-of-memory detection:

- You can enable end-of-memory detection by removing the message rules that set an INACTIVE status.
- If you have many resource definitions to update and they are based on a template, you change the template and then apply the changes. In this case, we recommend that you change message rule status to STOPPING instead of removing the message rules altogether.

Logical Resources

Display processing for a logical resource in MANUAL operation mode has changed. When a logical resource that has no display processing defined is in the MANUAL operation mode, a display action sets the actual state of the resource to its desired state.

Count of Triggered Message Rules

Counts of triggered message and message group rules are added to the auditing of UTILIZATION events.

The following message shows the count for a message rule:

```
NMAU0114 Utilization Event Object="PROD11:EVRULE:RS0001-IEA989I:SLIP TRAP MATCHED"  
Action="HIT:4" Value=4 Period=60 UTC Date=20100906 UTC Time=01:00:00.23
```

The following message shows the count for a message group rule:

```
NMAU0114 Utilization Event Object="PROD11:EVRULE:RS0001-GRP0001:(Message Group  
Rule)" Action="HIT:2" Value=2 Period=60 UTC Date=20100906 UTC Time=01:00:00.23
```

Note: For information about how to enable auditing, see the *Administration Guide*.

Message Burst Protection

With multiline write-to-operator (WTO) messages, message burst protection is based on the major line. If your multiline messages have the same major line but different minor lines, you may want to disable suppression for multiline messages. You can disable such suppression through the AOMQUEUES parameter group.

EXECNCL and STARTNCL Macros

You can pass a list of parameters to the EXECNCL and STARTNCL macros using variables. To use this feature, you specify YES in the Segment Multi-word Parameter Variables field on the Macro Parameter Definition panel, for example:

```
----- Automation Services : EXECNCL Macro Parameter Definition -----  
Command ==>                                                    Function=UPDATE  
  
.. NCL Procedure Details -----  
| NCL Name .... NCL00001  
| Parameters .. &PARAMETERS_____  
| _____  
| _____  
| Segment Multi-word Parameter Variables ... YES (YES or NO)
```

PARSE Macro

The PARSE macro creates a number of variables to hold the parsed input. You can specify a variable to return this number. To use this feature, you specify the name of the variable in the Variable Name for Count of Variables Created field on the Macro Parameter Definition panel.

SETSTATE Macro

The SETSTATE macro provides defaults for the following fields:

- Resource Class has a default of &ZRMDBCLASS.
- Resource Name has a default of &ZRMDBNAME.

SYSCMD Macro

The number of message rules that you can specify to detect responses in the SYSCMD macro is increased to ten.

SHUTFORCE Command

The SHUTFORCE command sets the global operation mode to AUTOMATED as part of its processing. You no longer need to set the global operation mode to AUTOMATED yourself.

Panel Shortcuts

You can suppress panel shortcuts or change the shortcut character. You control shortcuts through the PMENUCONTROL parameter group.

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:

```

PROD41----- 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
  
```

Alert Monitor

You can add your own actions to the Alert Monitor. You customize the CC2DEXEC(\$AMCBCMX) exit to specify your actions.

Note: For information about how to customize the \$AMCBCMX exit, see the *Reference Guide*.

Alert Forwarding

The CC2DSAMP(\$AMTRAP) management information base (MIB) definition used by alert forwarding includes the following new object identifiers:

- ...
- sourceTime (1.3.6.1.4.1.1126.1.2.1.3.9)
- updateTime (1.3.6.1.4.1.1126.1.2.1.3.10)
- closeTime (1.3.6.1.4.1.1126.1.2.1.3.11)
- lastTime (1.3.6.1.4.1.1126.1.2.1.3.12)
- elapsedTime (1.3.6.1.4.1.1126.1.2.1.3.13)
- occurrences (1.3.6.1.4.1.1126.1.2.1.3.14)
- sourceId (1.3.6.1.4.1.1126.1.2.1.3.15)
- explanationCount (1.3.6.1.4.1.1126.1.2.1.3.16)
- explanationTable (1.3.6.1.4.1.1126.1.2.1.3.17)
 - explanationEntry (1.3.6.1.4.1.1126.1.2.1.3.17.1)
 - explanation (1.3.6.1.4.1.1126.1.2.1.3.17.1.1)
- systemActionCount (1.3.6.1.4.1.1126.1.2.1.3.18)
- systemActionTable (1.3.6.1.4.1.1126.1.2.1.3.19)
 - systemActionEntry (1.3.6.1.4.1.1126.1.2.1.3.19.1)
 - systemAction (1.3.6.1.4.1.1126.1.2.1.3.19.1.1)
- userActionCount (1.3.6.1.4.1.1126.1.2.1.3.20)
- userActionTable (1.3.6.1.4.1.1126.1.2.1.3.21)
 - userActionEntry (1.3.6.1.4.1.1126.1.2.1.3.21.1)
 - userAction (1.3.6.1.4.1.1126.1.2.1.3.21.1.1)
- ...
- text2 (1.3.6.1.4.1.1126.1.2.1.3.105)
- text3 (1.3.6.1.4.1.1126.1.2.1.3.106)
- text4 (1.3.6.1.4.1.1126.1.2.1.3.107)
- opSysId (1.3.6.1.4.1.1126.1.2.1.3.201)
- opSysName (1.3.6.1.4.1.1126.1.2.1.3.202)
- sysplex (1.3.6.1.4.1.1126.1.2.1.3.203)
- ipHostName (1.3.6.1.4.1.1126.1.2.1.3.204)
- ipHostAddr (1.3.6.1.4.1.1126.1.2.1.3.205)

WebCenter User Interface

The WebCenter user interface can now make better use of the browser window for displaying information. You can expand the Content frame to use the full browser window, without the menu frame. This maximizes the results area and reduces the need for scrolling. For example, you can expand and have the alert monitor in its own window, serving as a general monitor.

Command Changes for IPv6

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

More information:

[DNR SET Command](#) (see page 18)

[DOMAIN Command](#) (see page 19)

[TCPIP START Command](#) (see page 19)

DNR SET Command

The DNR SET command has been enhanced to support the loading and purging of a static cache for name resolution. It has the following new operands:

PURGE

(Optional) Specifies the type of cache entries to purge.

STATIC

(Optional) Specifies a table of variables from which you want to load static cache entries, and whether existing entries should be replaced or purged before loading.

The FORCE operand is ignored. The command executes irrespective of whether the interface is active.

```
DNR SET ...
      [NS={ (addr[,port[,interface_instance_name]]
            [,addr[,port[,interface_instance_name]]
            [,addr[,port[,interface_instance_name]]]) |NO}
      [PURGE={ALL|DYNAMIC|STATIC}]
      [STATIC=vartable_name[, [NOREPLACE|REPLACE|CLEAR]]]
```

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

More information:

[Internet Protocol Version 6](#) (see page 7)

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.

More information:

[Internet Protocol Version 6](#) (see page 7)

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.

More information:

[Internet Protocol Version 6](#) (see page 7)

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.

More information:

[Tolerance to Time Offset Changes](#) (see page 9)

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.

Knowledge Base Export Utility

The EXPORTRM utility exports one of the following types of definitions:

- A system image with the included resource definitions
- A service image with the included service definitions
- An EventView rule set with the included rules
- A class of common components

The utility does not support the selection of individual definitions.

The export data set must exist as a sequential file with a record length of at least 80 characters. You can use DISP=MOD to append multiple exports to a single data set.

This utility has the following format:

```
EXPORTRM DSNAME=data_set_name [DISP=MOD]
        {[OPT=IMAGE SYS=system_image_name VER=version] |
         [OPT=SERVICE VER=version] |
         [OPT=RULESET RULESET=rule_set_name] |
         [OPT=COMMON TYPE=component_type [VER=version]]}
```

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

Knowledge Base Import Utility

The IMPORTRM utility imports definitions in a data set to the knowledge base. The data set contains definitions exported by the EXPORTRM utility.

This utility has the following format:

```
IMPORTRM DSNAME=data_set_name
        MODE={REPLACE|OVERLAY|MERGE}
```

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

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.

More information:

[Internet Protocol Version 6](#) (see page 7)

Messages and Codes

Information accessed through the Messages and Codes Menu is updated (/CODES panel shortcut). The following new information is included under the TCP option:

- TCP connection termination reason codes
- Telnet termination codes
- Telnet error return codes for the ERR (X'09') termination code
- SSL function return codes
- Deprecated SSL function return codes
- ASN.1 status codes
- Certificate Management Services codes

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.

Multisystem Communication Access Methods

You can update the MULTISYS parameter group to change the communication access methods that can be used without having to unlink the region. When you apply the changes, links with the region are stopped and restarted.

NMSAF Security Modeling

The NMSAF security solution is enhanced to build Userid Access Maintenance Subsystem (UAMS) records based on the modeling controls of a user. This build happens each time the user logs in. When the model for a user changes in external security, you no longer need to update the UAMS definitions.

Initialization File

If you have an existing region initialization (INI) file from r11, you can migrate that file for use in this release. However, 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*.

Install Utility

The Install Utility has the following changes:

- The Install Utility is now unloaded into the CC2DJCL data set.
- Regions can 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)
- Field-level online help is available.

- The I08SSLNK link-edit job is no longer required and not generated. The SMP/E APPLY process link edits the CICS agent load library, renamed CDHDCICS.

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

Function Modification Identifiers (FMID) Names

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

Component	Original Name	New Name
Automation Services	C2DnnAS	Merged into Management Services (CC2D710)
Health Checker	New	CC2D71H
Management Services	C2DnnMS	CC2D710
Operations CICS Services	New	CDHDB90
Operations Services	C2HnnSS	CC2HB90
PDSE Services	C2DnnME	CC2D71E

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

UTIL0028

The UTIL0028 utility is replaced by the SOLVE 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, which reads parameters from the ddname, NMDRVCTL, for the SSISYSIN member.

In addition, the program lets you specify the SYSOUT writer and form in the DD command.

Audit of Data Set Operations

Data set operations are added to the auditing of PROCEDURAL events. Auditing applies only if you operate on the data sets from the Dataset Services primary menu. The following actions are audited: DELETE, PRINT, READ, RENAME, UPDATE, and SUBMIT.

Note: For information about how to enable auditing, see the *Administration Guide*.

PDS Member Statistics

When you use Dataset Services to create or update a partitioned data set (PDS) member, interactive system productivity facility (ISPF) statistics are generated. The DSSISPST system parameter controls the generation of these statistics.

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

Changes to Data Set Names

The data set names are now compatible with other CA Mainframe products. The following table shows the changed names.

Original Name	New Name
AS1EXEC	AC2DEXEC
AS1SAMP	AC2DSAMP
ASICON.S	CC2DVSMI
ASMODS.S	CC2DVSMI
ASOSCN.S	CC2DVSMI
ASPANL.S	CC2DVSMI
ASRAM.S	CC2DVSMI
ASSAMP	CC2DSAMP
ASTEEXEC	CC2DEXEC
CICSLOAD	CDHDCICS
ME1LOAD	AC2DMODE
MELOAD	CC2DPLD
MS1DCMLD	AC2DMOD
MS1EXEC	AC2DEXEC
MS1LOAD	AC2DLOAD
MS1MACLB	AC2DMAC
MS1SAMP	AC2DSAMP
MSCMDLIB	CC2DLMD0
MSDCMLD	CC2DLOAD
MSLNKLST	CC2DILINK

MSLOAD	CC2DLOAD
MSLPLOAD	CC2DLPA
MSMACROS	CC2DMAC
MSMODS.S	CC2DVSMI
MSNET.S	CC2DVSMI
MSNVLOAD	CC2DLOAD
MSOSCN.S	CC2DVSMI
MSPANL.S	CC2DVSMI
MSSAMP	CC2DSAMP
MSTEXEC	CC2DEXEC
SS1EXEC	AC2HEXEC and ADHDEXEC
SS1LOAD	ADHDMOD
SS1SAMP	AC2HSAMP
SSLOAD	CDHDCICS
SSMODS.S	CC2HVSMI and CDHDVSMI
SSOSCN.S	CC2HVSMI and CDHDVSMI
SSPANL.S	CC2HVSMI and CDHDVSMI
SSSAMP	CC2HSAMP
SSTEXEC	CC2HEXEC and CDHDEXEC
WOMODS.S	CC2DVSMI
WOOSCN.S	CC2DVSMI
WOPANL.S	CC2DVSMI

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

Removed Features

The product no longer supports the WebCenter software development kit (SDK).

Documentation

This section contains topics related to documentation enhancements.

Installation Guide

The *Getting Started* guide is renamed the *Installation Guide*. The guide has been restructured and describes the following methods of installing CA SOLVE:Operations Automation for CICS:

- CA MSM—CA MSM simplifies and unifies the management of CA mainframe products on z/OS systems. The services provided by CA MSM acquire, install, deploy, and maintain products in a common way.
- Pax-Enhanced Electronic Software Delivery (ESD)—This utility enables you to download and install mainframe software and maintenance electronically to your own disk.
- Tape—You continue to use the Install Utility to install CA SOLVE:Operations Automation for CICS from tape using the SMP/E RECEIVE-APPLY-ACCEPT method.

Other Changes

The following list shows the documentation library changes in this release:

- The *Administrator Guide* is renamed the *Administration Guide*.
- The *Managed Object Development Services Programmer and Administrator Guide* is renamed the *Managed Object Development Services Guide*.
- The *Network Control Language Programmer Guide* is renamed the *Network Control Language Programming Guide*.
- The *Release Summary* is renamed the *Release Notes*.
- 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.
- The *Working with REXX* is renamed the *NetMaster REXX Guide*.

CA HTML Bookshelf

This release contains the CA HTML bookshelf, which is an HTML help system that provides access to all deliverables in the product documentation set in both HTML and PDF. HTML provides robust online viewing and search capabilities, while PDF provides a print-friendly option.

The HTML bookshelf features include:

- A single help screen that displays all documentation for this release.
- An all-in-one search tool that searches the entire documentation set and returns matches found in both the HTML and PDF formatted documentation, without the need for a specialized .PDX index file.
- Additional links for using the bookshelf, downloading Acrobat Reader, and contacting CA Technologies.

Note: You must have Adobe Reader 8 or above to view the PDF files in the bookshelf.

Search the Bookshelf

The bookshelf includes a search facility that helps you locate information throughout the set.

To search the bookshelf

1. Enter your search criteria in the Search field in the upper right corner of the bookshelf and press Enter.

The search returns HTML results listed by topic and PDF results listed by guide. The results are sorted by date so that the most recently updated topics or PDFs appear at the top of the list. To find a topic in a PDF, open the PDF and view the list of topics within the PDF that match the search criteria.

2. (Optional) Click Sort by Relevance.

The list is reordered so that the HTML topics or PDFs that contain the most matches appear at the top of the list.

Appendix A: Changes that Affect Resource-Level Security

Some product resources (for example, commands) have been added or deleted. If you are using resource-level security, review your implementation and modify as required.

This section contains the following topics:

[Menu Option Changes](#) (see page 29)

[Monitor Command Changes](#) (see page 30)

Menu Option Changes

The following list shows the affected menu options:

New

Menu ID: \$NM020 (System Support : Messages and Codes Menu)

TCP - TCP Codes and Errors

Menu ID: \$NM021 (System Support : TCP Errors and Codes Menu)

FTP - FTP Reply Codes

CTR - TCP Connection Termination Reason Codes

TNT - Telnet Termination Codes

TNR - Telnet Error Return Codes for ERR (x'09')

SSL - SSL Function Return Codes

DEP - Deprecated SSL Function Return Codes

ASN - ASN.1 Status Codes

CMS - Certificate Management Services Codes

Monitor Command Changes

The following list shows the affected monitor commands:

New

Note: Names prefixed by A- are created to secure Alert Monitor actions and commands. For example, A-B refers to the Alert Monitor action, B, and A-PROFIL refers to the Alert Monitor primary command, PROFILE (note the eight-character limitation).

- A-B - Browse alerts
- A-S - Browse alerts
- A-T - Track alerts
- A-A - Analyze alerts
- A-TT - Raise trouble tickets
- A-C - Close alerts
- A-CH - Check alert condition
- A-H - Display monitoring history
- A-N - Add notes to alerts
- A-S1 - Change alert severity to 1
- A-S2 - Change alert severity to 2
- A-S3 - Change alert severity to 3
- A-S4 - Change alert severity to 4
- A-TL - View transient log

- A-CLOSE - Close all alerts displayed
- A-DATE - Set the date for alert history
- A-DEFINE - Define an alert filter or format
- A-FILTER - Apply an alert filter
- A-FORMAT - Set the monitor list format
- A-HISTOR - Go to alert history display
- A-HOLD - Hold alert display
- A-PROFIL - Set user profile defaults
- A-RESUME - Resume alert display
- A-SORT - Sort the displayed alerts

- MS - Set mode override to STARTAUTO

Appendix B: Distributed Knowledge Base Changes

If you have previously customized any of the changed objects or are using any of the deleted objects, review each instance in your old knowledge base and make modifications in your new knowledge base as required.

Note: For more information about knowledge base migration, see the *Installation Guide*.

This section contains the following topics:

[\\$TEMPLAT 0001 Definitions](#) (see page 31)

[\\$TEMPLAT 0002 Definitions](#) (see page 32)

[Commands](#) (see page 32)

\$TEMPLAT 0001 Definitions

The following list shows the new, changed, and deleted definitions. The list has the following format:

resource_class :resource_type - resource_description

New

No definitions have been added.

Changed

The following definitions are changed to support the default display method:

STC :CICS - CICS Transaction Server

Deleted

No definitions have been deleted.

\$TEMPLAT 0002 Definitions

The following list shows the new, changed, and deleted definitions. The list has the following format:

resource_class :resource_type - resource_description

New

No definitions have been added.

Changed

The following definitions are changed to support the default display method:

STC :CICS - CICS Transaction Server

Deleted

No definitions have been deleted.

Commands

The following list shows the new, changed, and deleted command definitions. The list has the following format:

command :class - command_description

Note: The ALL class indicates all classes. The ALL-X class indicates all classes except for an excluded set. The INC class includes a selected set of classes. NONE indicates a primary command.

New

MS :ALL-X - Set Mode Override to StartAuto

Changed

No definitions have changed.

Deleted

No definitions have been deleted.

Appendix C: Changes to Messages

This section contains the following topics:

[Changed Messages](#) (see page 34)

[Deleted Messages](#) (see page 37)

[New Messages](#) (see page 38)

Changed Messages

The text of the following messages changed:

AMARED01	Action ~P1 deleted from list of actions
AMARED02	Error deleting action ~P1. FDBK: ~P2
AMEVFW020	Alert forwarding to CA Service Desk. SD URL=~p1 CCI S
AMPARM04	Action ~P1 added to list
CAWV0004	&p1 is not a valid action on this line. Select from t
CAWV0005	Timeout processing request! No response received from
CAWV0007	No previous locate command has been entered. Specify
CAWV0010	Bottom of key ranges reached
CAWV0011	Top of key ranges reached
CAWV0012	No previous find command has been entered. Specify st
CAWV0016	No default option defined for this line
CAWV0017	The zoom option is not relevant on this line
CAWV0018	The expand/collapse option is not relevant on this li
CAWV0019	Remote system &P1 is not active. Cannot display prese
CAWV0020	Bottom of data reached
CAWV0021	Top of data reached
CAWV0022	&p1 lines searched
CS2002	Ping not valid for virtual nodes
DFDBPKG03	&P1 on &P2 failed: MSG=&P6 RC=&P3 ERR=&P4 KEY=&P5.
DFDBPKG07	MSDB file full or unable to allocate additional exten
DFPKG03	&P1: 3x &P2 &P3, &P4% above &P5 baseline of &P6
DFPKG05	&P1: 3x &P2 &P3, &P4% below &P5 baseline of &P6
DFPKG06	&P1: &P2 High, &P3 > &P4
DFPKG07	&P1: 3x &P2 High, &P3 > &P4
DFPKG08	&P1: &P2 Low, &P3 < &P4
DFPKG09	&P1: 3x &P2 Low, &P3 < &P4
DFPKG11	&P1: 3x &P2 is &P3
FAPKG03	Invalid connection state for action ~P1
NF1591	GET CONFIGURATION ERROR. USS ERROR: STACK=~p1 FUNC=~p
NF1592	GET CONFIGURATION ERROR. TCPAXS ERROR: STACK=~p1 diag
NF1593	GET CONFIGURATION ERROR. STORAGE ERROR STACK=~p1 dia
NF1594	GET CONFIGURATION ERROR. INTERNAL ERROR STACK=~p1 ERR
NM4014	MDO DATA ASSIGNMENT FAILED, RC=~p1 FDBK=~p2
NSXA81	INCORRECT NETMASTER VERSION DETECTED
N12703	ID BY INTERVAL -USERID-R LIM CNT K/P EPZFB TID
N12704	id by interval -userid-r lim cnt k/p epzfb tid
N13G11	DOMAIN FAILED: STORAGE SHORTAGE.
N13218	MPREF REFRESH MRESP- LIMIT ACTION NTFY APPST SESS- -M
N13219	~P1 ~P2 ~P3 ~P4 ~P5 ~P6 ~P7 ~P8 ~P9 ~P10
N13538	IP-ADDRESS
N13539	~P1: ~P2
N23Y16	stg/tot stg/ent
N3AF03	SOCKET TYPE OWNER CLIENTID LPORT PPORT PEER-IP-ADD
N3AF04	socket type owner clientid lport pport peer-ip-add
N3AF05	TCP/IP INTERFACE IS status NAME=name PRIMARY=pri IPV6

```

N3AF12      TCP/IP SHARED SERVER IS status. PORT=port
N3AF15      TYPE      NAME      SOCKET LPORT PPORT PEER-IP-ADDRESS
N3AF16      type      name      socket lport pport peer-ip-address
N3AF20      USING type INTERFACE...
N3AN01      TCP/IP SERVER ACTIVE ON PORT: pppp SOCKET: ssss
N3AN90      TCP/IP SERVER REGISTER FAILED. PORT: pp RC: rc FB: fb
N3AN91      TCP/IP SERVER ACCEPT FAILED. SOCKET: ss PORT: pp RC:
N3A085      TCP/IP SERVER PEER=paddr:pport S=sss ERR: error RC=rc
N3A086      TCP/IP SERVER PEER=paddr:pport S=sss ERR: error
N3AP90      SOCKET socket CONNECT TO server AT paddr/pport FAILED
N3AT02      TCPIP option IGNORED, NAME=name IS status
N3AT10      TCPIP option FAILED, UNKNOWN TYPE: type
N3AT11      TCPIP option FAILED, TYPE: type IS INVALID FOR THIS 0
N3AT12      TCPIP option FAILED, NO VENDOR INTERFACE AVAILABLE
N3AT21      TCPIP DEFINE FAILED, NAME=name ALREADY DEFINED
N3AT22      TCPIP option FAILED, NAME=name IS RESERVED
N3AT30      TCPIP MODIFY FAILED, operand OPERAND NOT ALLOWED
N3AV02      count DNR CACHE ENTRIES DELETED
N3AW12      NS n ADDR: hostaddr
N3AW51      SERVER-ADDRESS                                SENDS RE
N3AW52      server-address                                sends re
N3B201      TCPIP START COMPLETE (TYPE=type, NAME=name)
N3B203      TCPIP AUTOMATIC RESTART IN PROGRESS (TYPE=type, NAME=
N3B210      TCPIP START (TYPE=type, NAME=name) INITIALIZATION FAI
N3B220      TCPIP START (TYPE=type, NAME=name) FAILED, rsn - info
N3B280      TCPIP START (TYPE=type, NAME=name) HALTED BY TCPIP ST
N3B290      TCPIP START (TYPE=type, NAME=name) WARNING - UNABLE T
N3B291      TCPIP START (TYPE=type, NAME=name) WARNING - UNABLE T
N3B401      TCPIP STOP IN PROGRESS (TYPE=type, NAME=name), REASON
N3B402      TCPIP STOP COMPLETE (TYPE=type, NAME=name)
N3DC90      SOLVE DNR SOCKET request FAILURE, NAME=name RC=rr RSN
N3DC98      DNS MSG RCVD FROM hostaddr/port L=lll ID=iiii
N3DE90      SOLVE DNR SEND ERROR, NAME=name RC=rr RSN=rrr ERRNO=e
N3DE98      DNRQ @ aaaaaaaaa -- SEND TO hostaddr/port LEN=ll - DAT
N3D690      PING/TRACEROUTE RAW SOCKET OPEN FAILURE, NAME=name PR
N3D691      PING/TRACEROUTE RAW SOCKET RECV FAILURE, NAME=name RC
N3D692      ~P1 RAW SOCKET SEND FAILURE, NAME=name RC=rr RSN=rrr
N3ZK01      IPAM PEER=hostaddr:port NAME=nnnn HEARTBEAT SEND FAIL
N3ZN80      TELNET PEER=hostaddr:port info
N3ZP01      TELNET PEER=hostaddr:port NAME=nnnn HEARTBEAT SEND FA
N3ZQ80      TELNET PEER=hostaddr:port NAME=nnnn SSCP-LU DATA SEND
N3ZS50      LUNAME  TYPE      USERID  SEC LPORT RPORT ADDRESS
N3ZS51      luname  type      userid  sec lport rport address
N3Z301      TCP/IP SERVER ACTIVE ON PORT: pppp SOCKET: ssss
N3Z390      TCP/IP SERVER REGISTER FAILED. PORT: ppp RC: rr FB: f
N3Z391      TCP/IP SERVER ACCEPT FAILED. SOCKET: sss PORT: ppp R
N3Z401      TELNET SESSION INITIATED WITH hostaddr:port LUNAME: l
N3Z480      TELNET PEER=hostaddr:port ERR: err
N3Z482      TELNET PEER=hostaddr:port ERR: err RC=rr FB=ff ERRNO

```

N3Z680 TELNET PEER=hostaddr:port ERROR: err RC=rr FB=ff ERR
N3Z681 TELNET PEER=hostaddr:port STORAGE SHORTAGE
N3Z682 TELNET PEER=hostaddr:port INVALID/UNEXPECTED TELNET C
N3Z684 TELNET PEER=hostaddr:port INVALID/UNEXPECTED TN3270E
N53H01 POOL NAME USE#
N53H02 ~P1 ~P2
N59006 PANEL panelname EXPANSION ERROR
N74H03 SESSION AWARENESS IS NOT ACTIVE
N74914 PRI-NAME SUBA# ELEM# SEC-NAME SUBA# ELEM# START-TIME-
N83916 TOT SEEN n TOT ACCEPT n LOST QOFLOW n
N85603 AOMPROC=name1 CMDPROC=name2 TABLE=name3(library)
N98601 SUBSYSTEM INTERFACE STATUS IS valstat SSID=subsysid.
RE0108 RULESET &P1 INCLUDED BY RULESET &P2
RMAOMNX00 BURST SUPPRESS=> ~P1
RMCALL22 '~P1' COMMAND CANNOT BE ISSUED AGAINST A LOCALLY LOAD
RMDBMS04 RECORD(resource-name) NOT FOUND
RMDB0201 No records found to export from component(~P1)
RMDB0202 Export commenced for component(~P1) to ~P2
RMEXP08 IP node discovery maximum duration exceeded (~p1 minu
RMINWI56 No common access method with ~P1
RMINWI60 TCP/IP not available on this system
RML0AD11 THE ONLY VALID VALUES FOR ~P1 ARE 'YES' AND 'NO'
RMRS0002 No &P1 records found &P2
RMTM0005 ~P2 STARTED FOR AVAILMAP(~P1)
RMTM0006 ~P2 COMPLETED FOR AVAILMAP(~P1)
RMVM0069 OPERATION MODE MUST BE AUTOMATED, STARTAUTO, MANUAL,
SD2438 VARTABLE ~p1 DOES NOT EXIST IN SCOPE ~p2
SL0007 Invalid scroll amount. Must be CSR, DATA, HALF, PAGE,
SL0016 Invalid shortcut/command (for help:put cursor on this
TVF101 IBM HPNS INTERFACE INITIALIZATION FAILURE nn - inform
WRDFWI01 The Data Feed Destination RC\$JAVATASK1 has been added
WRDFWI02 An IP Host name or address must be specified
WRINWI12 Adaptor.ini updated with &P1 &P2
WRINWI14 Adaptor.ini updated with ReportCenter Java Task name
WRINWI26 Adaptor.ini updated with JDBC &P1 Driver Name of &P2
WRINWI28 The HFS Path for the CA Datacom JDBC Classes zip file
WRINWI36 DB2 JDBC Legacy Driver class file &P1
W3SV1014 WebCenter is active (NCLID=~P1)
W3SV1015 WebCenter is not active: ~P1

Deleted Messages

The following messages were deleted:

```
DFAT0414    ~P1 qualifiers listed for attribute ~P2
DFAT0416    999 out of ~P1 qualifiers listed for attribute ~P2
DFPKG12     &P1
DFRR0106    Option &P1 is not valid against (no qualifier) entry.
NR4090      UNABLE TO IDENTIFY REXX INTERFACE MODULE: mmmmmmm RC
N13G04      IP DETAILS INVALID WHEN IP=NO SPECIFIED.
N15407      NSBRO SPECIFIC BROADCAST OPERANDS INVALID FROM THIS S
N3AT03      TCPIP QUIESCE COMMAND WILL STOP TCP/IP, NO SOCKETS 0
N3AT04      NEW TCP/IP TYPE (~P1) DEFINED, LOAD MODULE IS ~P2
N3AT20      TCPIP DEFINE FAILED, TYPE TABLE IS FULL
N3AW80      CANNOT DISPLAY DNR STATISTICS, TCP/IP NOT ACTIVE
N3B104      IP TRACE: ALLOCATE RC=~P1
N3B105      IP TRACE: DEALLOCATE RC=~P1
N3DB90      NETMASTER DNR UDP SOCKET OPEN FAILURE, RC=rr RSN=rrr
N3U201      Call successful
N3U202      Not enough variables to hold all of the data
N3U203      Link to IRXEXEC failed
N3U204      Unexpected return code &P1 from OSA/SF interface
N3U205      Return code &P1 from $IPSA14Z
UTNEUP01    Send MDO Map error: ~P1 ~P2 ~P3 ~P4 ~P5 ~P6 ~P7 ~P8 ~
UTNEUP02    Send MDO Data error: ~P1 ~P2 ~P3 ~P4 ~P5 ~P6 ~P7 ~P8
UTNEUP03    Send data accepted for interval ~P1 ~P2 (~P3 mins), ~
```

New Messages

The following messages are new:

AMARED06 Request canceled
AMDISP31 Note: Lines marked + came after a backwards time chan
AMEVFW03 Destination address~P1 invalid. SOCKETS API is not IP
AMINWI34 Destination address cannot be IPv6, SOCKETS API is no
AMINWI46 IPv6 socket support not enabled
AMPAGT16 No alerts found matching supplied criteria
BAINWI46 Buffer minimums set for pool ~p1: ~p2
BAIPWI30 ~P1 hostnames read from ~P2
BAIPWI31 No entries loaded into DNR static cache
BAIPWI32 IPv6 socket support not enabled
BAIPWI33 Invalid filter on line &p1: &p2
BAVL01 VSAM levels are not available
BAVL02 System VSAM base is: MODS ~P1 PANELS ~P2 OSCNTL ~P3
BAVSAM07 File resize failed for &p1 &p2
BAVSAM08 &p1
BAVSAM09 Resizing of file &p1 initiated due to file full or ex
BAVSAM10 Resizing of file &p1 completed successfully
BS0105 Field prompting not supported
BS0161 FUNCTION NOT SUPPORTED FOR GENERIC RESOURCE GROUP ~P1
CAPKG030W Server token set failed! &p1="&p2" rc=&p3 fdbk=&p4
CAPKG031W Server &p1 socket registration failed! &p2 rc=&p3 fdb
CAPKG032I Server &p1 socket registered on port &p2 &p3 servlet=
CAPKG033W Server &p1 TCP connection accept failed for port &p2
CAPKG034W Server &p1 APPC start failed for servlet &p2 rc=&p3 m
CAPKG035W Server &p1 TCP connection socket transfer failed! Soc
CAPKG036I Server &p1 has had &p2 TCP connections since &p3
CAPKG037I Server &p1 stats: &p2 conns, &p3 in error, &p4 bytes
CAPKG038I &p1
CAPKG039E Socket call failed in &p1 : rc="&p2" fdbk=&p3 errno=&
CAPKG039I &p1
CAPKG040W &p1 servlet socket transfer notification timed out.
CAPKG041W &p1 servlet received an unexpected socket transfer ms
CAPKG042W &p1 servlet socket transfer accept failed. rc=&p2 fdb
CAPKG043W Server &p1 has not yet registered.
CAWV0028 The maximum number that can be selected has been exce
CAWV0029 Request canceled
CAWV0030 Expanded section empty
CAWV0031 Widglets exceeded system maximum of &p1. ID=&p2.&p3.&
CAWV0036 Invalid command (for help:put cursor on this line, pr
CAWV0050 Invalid action. Use S,Q,/ or cursor to select item
CSAP2901 SNANMI request failed, USS ~P1 error: Retcode=~P2 Rea
CSAP2902 SNANMI request failed, SNANMI interface terminated, R
CSAP2903 SNANMI request failed - ~P1
CSAP2904 EE session for CPNAME=~P1 restarted
CSAP2905 Attribute ~P1 sampling error: ~P2

CSCALLG11 No link found for CP ~P1
CSCALLG12 ~P1 list truncated - size limit reached
CSCALLG13 SNA NMI error ~p1, connection RTP status not applied
CSCALLG14 EPS ~p1 error: Errno=~p2 Reason=~p3
CSCALLG15 EPS ID error: Verb=~p1, ID=~p2, SSID=~p3, system=~p4,
CSCALLG16 SSI ~p1 on ~p2 not contactable or Packet Analyzer not
CSCALLG17 Request timed out on SSID=~p1, system=~p2 for ~p3 with
CSEE001 Use PT to start tracing an EE Remote CP, then PTV to
CSEE002 Use PT to start tracing an EE Local VIPA, then PTV to
CSEE003 Packet trace not available - stack ~P1 unknown to pac
CSEE004 Packet trace activated for IP address ~P1
CSRT001 ~P1 stalled, ~P2 congested, ~P3 switching
CSRT002 SORT fields are ~P1
CSRT003 SORT order not A or D
CSRT004 SORT field ~P1 not supported
CSRT005 Use PT to start tracing an RTP Pipe, then PTV to view
CSRT006 SELFTEST ACTIVATED. ALL RTPS DISPLAYED.
CS0301 Directory display not supported for node type ~P1
CS2401 No Sessions using ALS ~P1
DFCVPKG01 Recursive condition definitions encountered! Cond ID=
DFCVPKG02 Not monitored
DFCVPKG03 Not available
DFCVPKG04 Sampling error
DFCVPKG05 Pending
DFCVPKG06 Condition DB integrity error on ID="&p1"
DFCVPKG07 No stacks monitored
DFCVPKG08 No stack interfaces monitored
DFCVPKG09 No ports monitored (by number)
DFCVPKG10 No ports monitored (by address space)
DFCVPKG11 &P1 is not monitored
DFCV0001 Condition monitor initialization in progress
DFCV0002 Conditions not available for &p1
DFCV0003 Sample details not available
DFCV0004 Invalid VIEWCOND command options: &P1
DFCV0005 Condition summary view changed to: &P1
DFCV0006 Conditions not accessible for &p1
DFDBPKG08 Resource &P1(&P2) not found.
DFDBPKG09 &p1 &p2 &p3 &p4 migrated to &p5 from &p6
DFDBPKG10 Migration to &p1 from &p2 completed with &p3 errors a
DFDBPKG11 &p1 baseline attributes found on file &p2
DFDBPKG12 &p1 existing baseline records deleted from file &p2 b
DFDBPKG13 Baseline record missing from file &p1 key=&p2
DFDBPKG14 &p1 baselines written as &p2 records to &p3 (LRECL mi
DFDBPKG15 &p1 baseline records deleted from file &p2 after migr
DFDBPKG16 Migration to &p1 from &p2 started.
DFDBPKG17 Migration to &p1 from &p2 bypassed, baselines already
DFDBPKG18 Warning, invalid data for baseline: &p1
DFDBPKG19 Migration to &p1 from &p2 progressing... &p3
DFDBPKG20 Migration to &p1 from &p2 completed. No baselines fou

DFDBPKG21 Parameter &p1 mutually exclusive to &p2
DFDBPKG22 Parameter &p1 must specify a different value to &p2
DFDBPKG23 Identical input and output dataset not allowed: &p1
DFDBPKG24 Baseline migration aborted: &p1
DFDBPKG25 Migration process ended
DFDBPKG26 Error for dataset &p1
DFDBPKG27 Invalid dataset characteristic: &p1
DFPKG13 Update is not valid for resources from a migration re
DFPKG14 Update in progress by &P1
DFPKG15 Update in progress by &P1 for group &P2
DFPKG16 Alert details saved and will be effective next sample
DFPKG17 No changes made, record not saved
DFPKG18 Monitoring for &P1 already enabled for &P2
DFPKG19 Condition enabled and will be effective next sample/p
DQ0312 Invalid LOCATE operand: ~P1
DQ0313 Bottom of data reached
FADB0217 High and Low remote address must be the same IP versi
GP1017 Invalid sort option. Use SORT ? to display valid opti
GP1018 No sort value selected
GP1019 ~P1 is not an IP address or partial IP address
GP1020 Locate only supported after list is sorted
IAPKG035 IIAPARMS data set &P1
LOBROW06 Note: Lines marked + came after a backwards time chan
LOPROC04 Backward time offset ~P1 expires ~P2~P3
NCD101 CDI EPS REGISTERED, NAME=~P1
NCD102 CDI EPS REGISTRATION FAILED, RC=~P1, NAME=~P2
NCD103 ~P1 ACTIVE CDI REQUEST(S)
NCD281 EPSRQST: CID=~P1 NMID=~P2 FUNC=~P3 UCORR=~P4
NCD282 EPSRESP: CID=~P1 NMID=~P2 FUNC=~P3
NCD283 +000 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx cccc cc
NCD371 CDIRQST: CID=~P1 TYPE=~P2 ADDR=~P3 LEN=~P4
NCD372 CDIRESP: CID=~P1 TYPE=~P2 ADDR=~P3 LEN=~P4
NCD373 +000 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx cccc cc
NCD374 USSRESP: CID=~P1 FUNCTION=~P2 RETVAL=~P3 RETCODE=~P4
NCD390 ~P1 APPARENT STALLED CDI REQUESTS
NCD580 CDI SUBTASK ATTACH FAILED (REFER TO LOG)
NCD581 CDI SUBTASK INIT FAILED, RC: ~P1 CODE: ~P2 SUBCODE: ~
NCD582 CDI SUBTASK TERMINATED, RC: ~P1 CODE: ~P2 SUBCODE: ~P
NDRV01 Invalid ALLOCATE parm combination
NDRV02 No suitable ALLOC to CONCAT to
NDRV03 SYSOUT concatenation not allowed
NDRV04 TEMP DSN table overflow
NDRV05 TEMP DSN not found in table
NDRV99 ~p1
NDR001 DD=NMDRVCTL OPEN failure
NDR002 Unrecognised operand
NDR003 PGM= name greater than 8 characters
NDR004 LIST= value invalid
NDR005 ERROR= value invalid

NDR006 PARMSEP= value invalid
NDR007 PPREF= value invalid or too long
NDR008 WAIT= value invalid
NDR009 PSUFF= value invalid or too long
NDR010 More than 1 parm on a control line
NDR011 ~p1 operand unrecognised
NDR012 <~p1> operand duplicated
NDR013 <~p1> operand invalid value
NDR014 Variable substitution not supported
NDR015 Invalid SUBS=... value
NDR016 Variable name not 1-16 characters
NDR017 Variable name has bad characters
NDR018 Variable value too long
NDR019 Too many variables defined
NDR020 Subs output buffer overflow
NDR021 Parm syntax error at col ~p1
NDR022 Missing continuation
NDR099 ~p1
NDR101 Waiting for WAIT= requirements to be satisfied
NDR102 SAF unavailable - SAFRC=&p1, RACFRC=&p2, RACFRE=&p3
NDR103 VTAM unavailable - RC = ~p1
NFGLO1 STARTING EIG SCAVENGE RUN...
NFGLO3 ENDED EIG SCAVENGE RUN. DELETED: nnn
NFGZ01 EPS SERVICE REGISTERED. TYPE: aaa NAME: bbb
NFGZ02 EPS SERVICE REGISTRATION FAILED. TYPE: aaa NAME: bbb
NFGZ03 ... ACTIVE REQUESTS: nnn
NF0001 PACKET ANALYZER INITIALIZATION FAILED - ~p1
NF0710 CPU: ~P1 API: ~P2 PKTS: ~P3 EVT: ~P4 SMF: ~P5 UUID: ~
NF0711 DDB-U: ~1% SDB-U: ~2% TDB-U: ~3%
NF0712 D/C: NQ: ~1 DQ: ~2 LS: ~3 AW: ~4 TW: ~5 ST: ~6 (%): ~
NF0713 S/T CPU: ~1 TASK: ~2 (~3%) SRB: ~4 (~5%) M-SW: ~6
NF0714 PHTM: ~1 ZONC: ~2 ZNCT: ~3 %-ZIIP: ~4
NF1M50 CONN INFO REQ FOR STACK: ~P1 COMPLETE. #CONN: ~P2 #QD
NF1M51 CONN INFO REQ FOR STACK: ~P1 FAILED. REASON: ~P2
NF1M80 IPV6 CONFIGURATION IOCTL ERROR. STACK=stackname
NF1003 PACKET ANALYSER VERSION IS aaa.bb
NF1501 CONFIGURATION REFRESH COMPLETE. STACK: ~p1
NF1502 CONFIGURATION CHANGE DETECTED. STACK: ~p1
NF1580 UNIX SYSTEM SERVICES UNAVAILABLE: STACK=~P1
NF1581 ATTACH FAILED FOR SUBTASK: ~p1 STACK: ~p2
NF1582 STACK CONFIGURATION HANDLER SUBTASK INIT FAILURE, STA
NF1583 STACK CONFIGURATION HANDLER MODULE INIT FAILURE, STAC
NF6180 STACK: name DOES NOT HAVE PTF FOR APAR PK11661 APPLIE
NF8A90 P/A S/T REQ STALLS... #CR: aaa #SR: bbb #NSR: ccc
NH0080 HC INTERFACE SETUP FAILURE: code - desc
NH0310 HC INTERFACE INSTALLED AND AVAILABLE
NH0311 HC INTERFACE UNAVAILABLE. REASON: reason
NH0312 HC INTERFACE STATUS UNKNOWN
NH0319 IBM HC REGION STATUS IS: aaa PROC NAME IS: bbb

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NH0410      HC INTERFACE STATUS INFORMATION FOLLOWS...
NH0411      CHECK I/F STATUS: aaa QUERY I/F STATUS: bbb CHECKS DE
NH0412      IBM HC REGION STATUS IS: aaa PROC NAME IS: bbb
NH0413      TYP CHECK NAME          HANDLER  F-CODE  NM-PARM
NH0414      typ check name          handler  f-code  nm-parm
NH0420      HZSQUERY REQUEST=aaa SCHEDULED...
NH0421      HZSQUERY REQUEST=aaa RESULT: bbb-ccc ddd eee fff
NH0428      DUMP OF RETURNED HZSQUAA. @=aaa XL=bbb DL=ccc
NH0429      hex dump data
NH0430      HZSQUAA HEADER FIELD NAME..... VALUE
NH0431      field-name              value
NH0432      HZSQUAAG FIELD NAME..... VALUE
NH0433      field-name              value
NH0440      LIST OF CHECKS FOLLOWS.  NUMBER: nnn
NH0441      CHECK-NAME              OWNER          S
NH0442                        MSGTOKEN
NH0445      check-name              owner          s
NH0446                        msgtoken
NH0450      CHECK LINES FOLLOW.  BUFFERS: aaa NUMBER LINES: bbb
NH0455      line-data
NH0610      HC DEFINE COMMAND COMPLETE. CHECK: aaa DEFINED
NH0620      HC DELETE COMMAND COMPLETE. CHECK: aaa DELETED
NH0621      HC DELETE COMMAND FAILED. CHECK: aaa NOT FOUND
NH0622      HC DELETE COMMAND COMPLETE. CHECK: aaa MARKED FOR PEN
NH0670      INVALID HEALTH CHECK NAME
NH0671      INVALID HEALTH CHECK REASON
NH0673      INVALID INTERVAL FORMAT
NH0680      HC DEFINE COMMAND FAILED - STORAGE SHORTAGE (1)
NH0681      HC DEFINE COMMAND FAILED - CHECK ALREADY EXISTS: aaa
NH0682      HC DEFINE COMMAND FAILED - STORAGE SHORTAGE (2)
NH2101      SCHEDULING PROCEDURE (pppp) FOR HEALTH CHECK: cccc
NH2201      PROCESS pppppp FOR CHECK: cccc HAS COMPLETED.  RESULT
NH2210      PROCESS pppppp FOR CHECK: cccc RESULT ERROR.  INFO FO
NH2211      NO RESULT SET
NH2212      RESULT: aaaa NO TEXT SET FOR bbbb
NH2213      RESULT: aaaa NO MSGID SET FOR bbbb
NH2214      RESULT: aaaa NO DIAG VALUE SET
NH2288      PROCESS pppppp FOR CHECK: cccc TERMINATED IN ERROR
NH2289      PROCESS pppppp FOR CHECK: cccc FLUSHED DUT TO TIMEOUT
NH2980      HC_UTIL VERB ONLY VALID IN A HCPROC PROCEDURE
NH2981      NO RESULT SET
NH2982      RESULT: aaa NO TEXT SET FOR bbb
NH2983      RESULT: aaa NO MSGID SET FOR bbb
NH2984      RESULT: aaa NO DIAG VALUE SET
NH2988      STEM. VARNAME TOO LONG
NH2989      STEM. VALUE LENGTH EXCEEDS 255
NH3010      LOAD FAILED FOR aaaaaaaaa - HC CHECK API DISABLED
NH3011      HC CHECK API FAILED TO INITIALISE, RC: rrr, R0/1 (HEX
NH3020      CHECK: aaaaaaaaa DEFINED.  CORR: bbbb

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NH3021      CHECK: aaaaaaa DEFINE FAILED. RC: rr R0/1 (HEX): bb
NISB81      NMIRQST: ADDR=~P1 LEN=~P2
NISB82      NMIRESP: ADDR=~P1 LEN=~P2
NISB83      NMIREC: ADDR=~P1 LEN=~P2
NISB84      +0000 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx *cccccccc
NIST000I    text
NIS001      IPSEC NMI INITIALIZATION FAILED - ~P1
NIS101      IPSEC NMI EPS REGISTERED, NAME=~P1
NIS102      IPSEC NMI EPS REGISTRATION FAILED, RC=~P1, NAME=~P2
NIS103      ~P1 ACTIVE IPSEC NMI REQUEST(S), SUBTASK STATUS: ~P2
NIS281      EPSRQST: CID=~P1 NMID=~P2 FUNC=~P3 UCORR=~P4
NIS282      EPSRESP: CID=~P1 NMID=~P2 FUNC=~P3
NIS283      +000 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx cccc cc
NIS390      ~P1 APPARENT STALLED IPSEC NMI REQUESTS
NIS501      CONNECTED TO IPSEC NM SERVER
NIS580      IPSEC NMI SUBTASK ATTACH FAILED (REFER TO LOG)
NIS581      IPSEC NMI SUBTASK INIT FAILED, RC: ~P1 CODE: ~P2 SUBC
NIS582      IPSEC NMI SUBTASK TERMINATED, RC: ~P1 CODE: ~P2 SUBCO
NIS583      USS ERROR, FUNCTION: ~P1 RETVAL: ~P2 RETCODE: ~P3 RSN
NIS584      IPSEC NM SERVER IS NOT STARTED, RETVAL: ~P1 RETCODE:
NIS585      CONNECTION TO IPSEC NM SERVER TERMINATED, RETCODE: ~P
NIS590      IPSEC NMI SUBTASK INITIALIZATION IS STALLED
NMAU0501    EventView Rule audit queue overflow
NM6480      STCKFIX PARM n IS NOT A VALID OPERATION NAME
NM6481      STCKFIX PARM n ('name') NEEDS A FOLLOWING VALUE PARM
NM6482      STCKFIX PARM n ('name') MUST BE A type
NM6485      STCKGEN INPUT FMT/VALUE/RANGE INVALID
NQ0080      MQ INTERFACE SETUP FAILURE: code - extra-data
NQ0310      MQ INTERFACE INSTALLED AND AVAILABLE
NQ0311      MQ INTERFACE UNAVAILABLE. REASON: rrrrrrr
NQ0312      MQ INTERFACE STATUS UNKNOWN
NQ0410      MQ INTERFACE USER LIST FOLLOWS
NQ0411      NCLID USERID QMGR
NQ0412      ID          LST-FUNC CC   RS T NAME
NQ0415      nclid userid qmgr
NQ0416      id          lst-func cc   rs t name
NQ1080      MDO PROCESSING ERROR. RC: rr ARG: a KEY: k OFFSET (DE
NQ1081      GET TARGET MDO ASSIGN ERROR. RC: rr
NQ1082      GET TARGET MDO MAP CONNECT ERROR. RC: rr
NQ1181      MDO SETUP ERROR. RC: rrr ARG: aaa R0: aaa
NQ1182      INCORRECT MAP FOR ''SET'' MDO. MDO NAME: aaa - EXPEC
NQ1183      NUMERIC ATTR CODE: aaa NOT VALID
NQ1184      DUPLICATE NUMERIC ATTR CODE: aaa
NQ1185      MDO KEY NOT VALID FOR ''SET'' OF THIS OBJECT: aaa
NQ1186      MDO FLD LEN FOR aaa ATTR: bbb IS INVALID: ccc
NQ1187      INSUFFICIENT VARIABLES PROVIDED IN ''VARS'' LIST
NQ1188      VAR DATA LEN FOR aaa ATTR: bbb IS INVALID: ccc
NQ1189      MDO aaa FAILURE. RC: bbb FB: ccc
NQ2090      MQ INTERFACE SUBTASK UNEXPECTED TERMINATION. REQUEST

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NQ2091      TERMINATION TYPE AND INFO: iii
NQ2092      REFER TO PRECEDING N15Z.. MESSAGES FOR PSW/REGS
NQ4280      LOAD FOR MQ I/F MODULE: mmmmmmmm FAILED.  RC: rrrr COD
NR4080      IDENTIFY SETUP ERROR... IDENTIFY FAILED
NSNB81      NMIRQST: ADDR=~P1 LEN=~P2
NSNB82      NMIRESP: ADDR=~P1 LEN=~P2
NSNB83      NMIREC: ADDR=~P1 LEN=~P2
NSNB84      +o000 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx *cccccccc
NSN001      SNANMI INITIALIZATION FAILED - ~P1
NSN101      SNANMI EPS REGISTERED, NAME=~P1
NSN102      SNANMI EPS REGISTRATION FAILED, RC=~P1, NAME=~P2
NSN103      ~P1 ACTIVE SNANMI REQUEST(S), SUBTASK STATUS: ~P2
NSN281      EPSRQST: CID=~P1 NMID=~P2 FUNC=~P3 UCORR=~P4
NSN282      EPSRESP: CID=~P1 NMID=~P2 FUNC=~P3
NSN283      +000 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx cccc cc
NSN390      ~P1 APPARENT STALLED SNANMI REQUESTS
NSN501      CONNECTED TO VTAM SNAMGMT SERVER, LEVEL: ~P1 FLAGS: ~
NSN580      SNANMI SUBTASK ATTACH FAILED (REFER TO LOG)
NSN581      SNANMI SUBTASK INIT FAILED, RC: ~P1 CODE: ~P2 SUBCODE
NSN582      SNANMI SUBTASK TERMINATED, RC: ~P1 CODE: ~P2 SUBCODE:
NSN583      USS ERROR, FUNCTION: ~P1 RETVAL: ~P2 RETCODE: ~P3 RSN
NSN584      VTAM SNAMGMT SERVER IS NOT STARTED, RETVAL: ~P1 RETCO
NSN585      CONNECTION TO VTAM SNAMGMT SERVER TERMINATED, RETCODE
NSX910      UNKNOWN USERID: uuuuuuuu
NSX911      STORAGE SHORTAGE
NSX912      TSO AUTO LOGON (NO PASSWORD) NOT ALLOWED
NSX913      PASSWORD REQUIRED FOR ROF LOGON
NSX919      LOGON FOR USERID: uuuuuuuu DENIED BY SECURITY EXIT (T
NSX920      PASSWORD CHANGE PREVENTED BY SECURITY EXIT
NSX951      USERID: uuuuuuuu SAF ERROR RC=aa RRET=bb RREA=cc
NSX952      USERID: uuuuuuuu NOT DEFINED TO SECURITY SYSTEM
NSX953      USERID: uuuuuuuu REVOKED
NSX954      USERID: uuuuuuuu PASSWORD HAS EXPIRED
NSX955      USERID: uuuuuuuu PASSWORD INVALID
NSX956      USERID: uuuuuuuu NEW PASSWORD INVALID
NSX971      SECCALL CALL INVALID OR MISSING PARM 1
NSX972      SECCALL CALL UNRECOGNISED PARM 1
NSX973      SECCALL CALL OPTION: oooo NOT SUPPORTED BY THIS EXIT
NSX974      SECURITY CALL: sssssssssssssssssss NOT SUPPORTED BY
NSX981      GETMAIN FOR WORKAREA FAILED
NSX982      NetMaster version not at least V5.0
NSX983      ERRORS IN SXCTL FILE
NSX984      NETMASTER NOT APF AUTHORIZED
NSX985      UNSUPPORTED SAF LEVEL
NSX986      REGION RACROUTE TOKENXTR FAILED
NSX990      SECURITY EXIT INTERNAL FAILURE: cccccccc
NSX991      MODULE: mmmmmmmm VERSION: vvvv PTF: pppppp ASM D/T: y
NSX992      OFFSET: oooo additional information
NSX993      Rxx-Ryy aaaaaaaa bbbbbbbb cccccccc dddddddd

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NS2039      DATE: yyyy/mm/dd TIME: hh:mm:ss.th TIMEZONE OFFSET: s
NS2040      SSI UNIQUE VALUE: xxxxxxxx
NY4C08      CREATE SOCKET call failure - Stack Name:~P1, Errno:~P
NY6001      SSM support initialized for ~P1
NY6002      SSM support initialization failed - Not supported on
NY6101      SSM SUPPORT STATUS
NY6102      SSM SUPPORT ACTIVE
NY6103      SSM ~P1 STATUS COMPLETE
NY6104      SSM HEARTBEAT ACTIVE
NY6105      SSM SUPPORT FAILED
NY6106      SSM ~P1 STATUS FAILED
NY6107      SSM ~P1 STATUS PENDING
NY6501      SSM support initialized
NY6502      SSM support initialization failed- ~P1
NY6503      SSM STATUS attach failed RC:~RC
NY6504      SSM support may not be active
NY6505      SSM subtask error during detach, RC: ~RC, RS: ~RS
NY6506      SSM heartbeat active
NY6601      SSM support initialized
NY6602      SSM support initialization failed- ~P1
NY6603      SSM STATUS attach failed RC:~RC
NY6604      SSM support may not be active
NY6605      SSM subtask error during detach, RC: ~RC, RS: ~RC
NY6606      SSM heartbeat active
NY6701      SSM support initialized for ~P1
NY6702      SSM support initialization failed - Not supported on
NY6801      SSM SUPPORT STATUS
NY6802      SSM SUPPORT ACTIVE
NY6803      SSM ~P1 STATUS COMPLETE
NY6804      SSM HEARTBEAT ACTIVE
NY6805      SSM SUPPORT FAILED
NY6806      SSM ~P1 STATUS FAILED
NY6807      SSM ~P1 STATUS PENDING
NY7101      FXTB present
NY7109      FXTB Creation failed, Reason=~P1
NY7201      FTPX command function missing
NY7202      FTPX command function invalid
NY7203      FTPX command function argument invalid: ~P1
NY7209      FTPX debugging flags set
NY7210      Required SAB not found
NY7211      Required FXTB not found
N0D201      INSUFFICIENT STORAGE TO PROCESS SHOW COMMAND
N0D202      DATACOM API DBSVWPR NOT LOADED, LOAD FAILED WITH R15=
N0D203      DATACOM API DBSVWPR NOT LOADED, MODULE NOT FOUND
N0D204      DATACOM API DBSVWPR RETURNED R15=~p1
N0D205      DATACOM API DBNTRY RETURN RC=~p1, IC=~p2
N0D208      MUFNAME  REL TP JOBNAME  SVC SUB STATUS
N0D209      ~p1      ~p2 ~p3~p4      ~p5 ~p6 ~p7
N0D210      ~p1      ~p2      ~p3      ~p4 ~p5 ~p6
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N0D211      ~p1      ~p2 ~p3                      ~p4~p
N0D212      ~p1      ~p2 ~p3 ~p4
N0D213      ~p1      ~p2 ~p3 ~p4 ~p5 ~p6 ~p7~p8 ~p9 ~p10
N0D220      MUFNAME  JOBNAME  DIRNAME  SVC SUB ENABLE-DATE/TIME
N0D221      DIRNAME  DBID OCCURRENCE                      S VN
N0D222      DIRNAME  DBID AREA DATASET
N0D223      DIRNAME  DBID AREA TAB TBID DDID T I RECORDS N OC
N0D266      DATACOM  VERSION ~p1 NOT SUPPORTED
N0D267      DBSVWPR  API DOES NOT SUPPORT VERSION ~p1
N00M11      hh:mm:ss ET: ss.th TCB: DC: s.tttttt TC: s.tttttt %T:
N00M12      hh:mm:ss ET: ss.th SRB: DC: s.tttttt TC: s.tttttt %S:
N00M13      hh:mm:ss ET: ss.th MS: sss #W: www #T: ttt XM: mmmm
N00M14      hh:mm:ss ET: ss.th PH: s.tttttt ZC: s.tttttt ZZ: s.tt
N00M30      hh:mm:ss ET: ss.th DC: s.tttttt TC: s.tttttt ST: ss E
N00M31      aa iiiiiii ppppppp se s.th c.tttttt s.tttttt
N00M39      *END*
N00517      REGION  NOT RUNNING AUTHORIZED, TERMINATING
N02H01      REGION  LOCAL D/T: dddd tttt UTC OFFSET: oooo
N02H02      JCL PARM TZ=<OFFSET> HAS SET UTC OFFSET TO shhmm
N02H03      JCL PARM TZ=GMT IS IN EFFECT
N02H10      LOCAL TIME OFFSET CHANGE PROCESSED...
N02H11      OLD LOCAL D/T/OFFSET: dddd tttt UTC OFFSET: oooo
N02H12      NEW LOCAL D/T/OFFSET: dddd tttt UTC OFFSET: oooo
N02H13      'OFFSET CHANGE: ooo
N02I01      ENF CODE 53 LISTENER INSTALLED
N02I80      ENF LISTENER INSTALL FAILED, REASON: rrr
N02101      REQUESTED EXECUTION MODE: aaa ACTUAL EXECUTION MODE:
N02180      EXEC. MODE: mode SETUP FAILURE. REASON: reason
N09709      ~P1 ACTIVE AS GENERIC RESOURCE ~P2
N10V01      DATE AND TIME RESYNCHRONISED WITH SYSTEM, OLD GMT OFF
N10V02      NO DATE/TIME OFFSET CHANGE DETECTED
N10V03      aaa IN EFFECT, SYNCTIME COMMAND IGNORED
N11419      LOCAL TIME OFFSET IS shhmm dddd mmmm
N11427      EXECUTION MODE (REQ ACTUAL): rrrr aaaa
N11428      ... FAILURE INFO... reas rc subreas desc
N11429      Passwords are ~p1 Case Sensitive.
N13G90      INVALID IP ADDRESS
N13G91      INVALID PROXY ADDRESS/PORT
N13453      USER TIMEZONE NAME: nnn OFFSET: shhmm ddd
N14T01      ##TOFF ttt COMMAND PROCESSED
N14T02      ##TOFF ttt COMMAND IGNORED, TZ=... JCL PARM SPECIFIED
N14T80      INVALID TIME OFFSET: ooo
N16C59      INVALID DSNAME, DSN=aaaaaa
N17L01      ADDRESS SPACE INFORMATION FOLLOWS...
N17L10      ASID JOBNAME STEPNAME PSTPNAME TYP PGM JOBID
N17L11      DDNAME DSNAME
N17L12      PARM...
N17L15      asod jobname stepname pstpname typ pgm jobid
N17L16      ddname dsname
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N17L17      parm...
N17L80      SHOW ASINFO COMMAND NOT SUPPORTED ON THIS OPERATING S
N17L81      SHOW ASINFO COMMAND REQUIRES REGION TO BE APF AUTHORI
N17L82      SHOW ASINFO COMMAND FAILED - STORAGE SHORTAGE
N17L89      AB: ccc PSW: aaa-bbb R11: ccc ILC: ddd OFF: eee
N18729      ~P1      IP: PORT=~P2 HOST ~P3=~P4
N2A620      SPECIFIED VAR/MDO NAME NOT VALID IN NCL
N2A621      SPECIFIED VARIABLE NAME IS INVALID
N2D001      Datacom interface is now ~P1
N2D002      Datacom ~P1 failed with return code ~P2 and internal
N2D801      The OML/DATACOM interface status is: ~P1
N2D802      NCLID OWNER
N2D803      ~P1 ~P2
N2D901      State is already ~P1
N2D902      Disconnecting - ~P1 users currently connected
N2D903      Command ignored - currently ~P1
N2D904      Command accepted
N3AF29      -----
N3AF40      SERVER-NAME
N3AF41      -----
N3AF42      server-name
N3AF90      OPERAND operand IS INVALID OR OUT OF RANGE
N3AF91      SHOW optname FAILED, NAME=name IS NOT DEFINED
N3AT05      TCPIP START FAILED, PRIMARY ALREADY ACTIVE
N3AT31      TCPIP option FAILED, NO PRIMARY VENDOR INSTANCE
N3AT32      TCPIP option FAILED, NO DEFINED VENDOR INSTANCES
N3AT33      TCPIP option FAILED, NAME=name IS NOT DEFINED
N3AT34      TCPIP option FAILED, NO ACTIVE VENDOR INSTANCES
N3AV03      STATIC DNR CACHE LOADED, ADD=add, REPLACE=replace, NO
N3AV99      ~P1 OPERAND IS OBSOLETE AND IS IGNORED
N3AW14      NS n PORT: port VENDOR: name
N3C105      SRCIP= operand specifies invalid value
N3ZB18      UNDEFINED DOMAIN NAME FOR INCOMING CONN REQ VIA PROXY
N54504      SESSION DEFINITION FILE UNAVAILABLE
N6XA03      NetMaster AXS exit EP::~P1 Compiled::~P2
N74708      SESSION AWARENESS PROCESSING (NO VTAM MODE) IS status
N75310      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N75311      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N75312      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N75320      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N75321      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N75322      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N75703      offset hex1 hex2 hex3 hex4 char1 char2 char3 char4
N80519      PASSTICKET GENERATION ENTRY POINT NOT ACCESSIBLE
N80520      PASSTICKET GENERATION FAILED FOR APPL::~p1, RC=X'~p2'
N99792      SHOW EPS COMMAND NOT PROCESSED, SSI ~P1 NOT CONNECTED
RETM1013    Eventview timer adjustment failed - &P1
RETM1014    Execution of timer rule ~P1 in ruleset ~P2 adjusted f
RMAD0115    CANNOT DELETE SYSTEM IMAGE WITH A HOME SYSTEM OF &P1

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RMAMAPI02 CANNOT LOCATE ALERT
RMAM00H01 Alert ~P1 for ~P2 error ~P3
RMAS0001 ~P1 is an invalid sort column
RMAS0002 ~P1 is an invalid sort order
RMDBMS27 DATA SAMPLING ATTRIBUTE IN USE IN ~P1 RESOURCE(S)
RMDBMS31 CANNOT COPY A ~p1 SYSTEM IMAGE TO AN EXISTING ~p2 SYS
RMDB0206 Export rejected - the export dataset is not in the co
RMDB0207 Export rejected - dataset contains data from a differ
RMEXPR38 IPv6 subnet ~P1 not processed
RMEXPR39 Address ~P1 bypassed. Type ~P2 not in NODETYPES list
RMEXPR40 SmartTrace parameter Group updated by Express Setup
RMHIMSG00 ID=~p1 - ~p2
RMHIMSG01 The Hardware Interface Service event handler connecte
RMHIMSG02 Backup copy of procedure \$RMHIMSG (id:~p1) has starte
RMHIMSG03 The Hardware Interface Service cannot be contacted
RMHIMSG04 The Hardware Interface Service region is shutting dow
RMHIMSG05 Lost contact with the Hardware Interface Service
RMHIMSG06 Unexpected Hardware Interface Service event received
RMHIMSG07 Unknown Hardware Interface Service event name: ~p1
RMHIMSG08 Expected attribute flag missing or invalid: ~p1, ~p2,
RMHIMSG99 The Hardware Interface Service Event Message Handler
RMHIS101 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS102 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS103 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS104 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS105 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS106 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS107 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS108 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS109 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS110 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS111 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS112 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS113 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS114 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS115 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS116 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS117 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS118 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS119 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS120 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS121 ~p1 ~p2 (~p3) ~p4 ~p5
RMHIS201 HARDWARE INTERFACE SERVICE DOWN
RMHIS202 HARDWARE INTERFACE SERVICE UP
RMHIS203 SERVER HARDWARE INTERFACE UP
RMHIS204 SERVER HARDWARE INTERFACE DOWN
RMHIS205 INITIAL H/W TOPOLOGY COLLECTION COMPLETE
RMHIS206 INITIAL H/W TOPOLOGY COLLECTION HAD ERRORS
RMHIS207 TEST EVENT TXT=~p1

RMIM0101 Call <~P1> is invalid
RMIM0102 Panel name(~P1~) is invalid
RMIM0103 Panel(~P1~) does not exist in panel library(~P2~)
RMINWI88 IPv6 socket support not enabled
RMINWI89 Invalid value, must be REGION, SERVER or USER
RMINWI99 Deprecated attribute processing ~P1
RMIPAPI12 UDP Connection command is not supported. PF1 on this
RMIPAPI13 Command not available. Associated stack is TCPAccess
RMIPAPI14 Link ~p1 is not active
RMIPAPI15 Command not available on remote region ~p1
RMLXCMD01W Command Server port number not yet in token &P1
RMLXCMD02W Connection to Command Server not allowed.
RMLXCMD03W Command Server not available on port &P1
RMLXCMD04E Commands Server terminated connection.
RMLXMSG01I Unsolicited Message Server port number not yet in tok
RMLXMSG02I Connected to Unsolicited Message Server ~P1 on ~P2
RMLXMSG03E Unsolicited Message Server failed to send HELLO. Sent
RMLXMSG04E Unsolicited Message Server terminated connection. &P1
RMLXMSG05W Connection to Unsolicited Message Server not allowed.
RMLXMSG06I Unsolicited Message Server not available on port &P1
RMLXMSG07W Unsolicited message receiver cannot verify a TCP/IP i
RMMC3705 DATA SENT TO ADDRESS(&P1) PORT(&P2)
RMMC3706 DATA: &P1
RMMC3707 INVALID ADDRESS IGNORED(&P1)
RMMC4204 IPv6 socket support not enabled on ~P1
RMRSSU36 Interface name must be specified when VIPA is IPv6
RMRSSU37 Is Name Generic? must be NO when Type is ~P1
RMRSSU38 Required fields for address space port monitoring omi
RMRSSU39 &P1 removed. Review attribute settings.
RMSY6916 TCP/IP Host Name/Addr is invalid. SOCKETS API is not
RMTNPK13 The NSM agent ~P1 callback interval set to ~P2
RMVM0121 IPv6 addresses are not supported here
RMVM0123 ~P1 cannot be an IPv6 address
RMVM0124 Selection list of source addresses not available for
RMVM0125 ~P1 must start with ~P2
RM350315 IP Summary Display must be OFF if no components selec
RW4118 Report definition has no format items
SD2444 Data set name and member name must be valid, and both
SD2445 Invalid dataset characteristics. Must have DSORG=P0 a
SD2446 &p1 level var table &p2 exported. &p3
SD3932 Invalid hexadecimal data on line &p1 &p2
SD3933 Record not added or updated because a duplicate alter
SD3934 Record updated.
SD3935 Record added.
SD3936 No NDBs to view.
SD3937 NDB not selected for viewing.
SD3938 NDB name &P1 does not exist.
SD3939 &P1 invalid - &P2
SD3940 Scan returned &P1 records

SD3941 Invalid LENGTH parameter. Specify an +num, -num, =num
SD3942 Variable deleted.
SD3943 Invalid global variable name.
SD3944 No locks to view for ID=&p1
SD3945 Invalid sort parameter, specify NCLID, NAME, PROC, US
SD3946 Invalid filter expression: ~p1
SD3947 OML globals excluded because this environment is bein
SD3948 Message overflow, some variables not displayed, use N
SL0036 Invalid command (for help:put cursor on this line, pr
SYMS1230 Review Userid ~P1 not defined
UADT56 MSDM Access > 0 is only valid with Privilege Class 'A
UTAPI001 Packet Analyzer scan exceeded time limit
UTHHTTP01 ERROR IN HTTP RESPONSE FORMAT, DATA=~P1
VMCMD001E VM Node must be identified using NODE= operand of VMC
VMCMD002E ~p1 Command Handler is not running
VMCMD003E CMD= is required for VMCMD
VMCMD999 END OF RESPONSES
WRDFWI08 A Port Number must be specified
WRDFWI09 This IP host name cannot be resolved to an IP address
WRDFWI10 Both Start and Stop Time must be specified if either
WRINWI46 The DB2 JDBC Driver Type must be either Universal or
WRINWI47 DB2 JDBC Universal Driver Class directory name doesn'
WRINWI48 DB2 JDBC Universal Driver class directory &P1
WRINWI49 JDBC Universal Driver class directory doesn't contain
WRINWI50 JVM Heap Size Specifications are incorrect
WRINWI51 Weekly Database Expiry Run Day is not a valid day
WRINWI52 Both Start and Stop Time must be specified if either
W3RSS001 Required keyword parameter ~P1 not specified.
W3RSS002 Invalid parameter combination, Class=~P1 Action=~P2
W3RSS003 Channel ~P1 is not registered
W3RSS004 RSS Get Request Channel=~P1 User=~P2 Agent=~P3
W3SP1101 URL NOT FOUND, ~P1
W3SP1102 HTTP METHOD ~P1 not supported for Soap requests
W3SP1103 Missing Service request for HTTP Soap request
W3SP1104 Invalid Metric name ~P1-passed on GetMetric Soap requ
W3SP1105 Unknown Soap Service name~P1~passed on HTTP Soap requ