
Unicenter

NetMaster Network Automation Release and Migration Guide

Version 5.0



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Introduction

This chapter provides an overview of Unicenter NetMaster Network Automation (also known as NetMaster Automation) 5.0 and describes the new and enhanced features. The chapter also summarizes the new and enhanced features in previous versions of the product (variously known as NetworkIT NetMaster Automation and SOLVE:Operations for SNA).

See also the *Automation Services 5.0 Release and Migration Guide* and the *Management Services 5.0 Release and Migration Guide* for information about other new and enhanced supporting features.

About the New Version

In this version, the name of the product changes from NetworkIT NetMaster Automation to Unicenter NetMaster Network Automation. This version also includes several new and enhanced features.

Improvements have been made in response to specific customer requests received since the release of Version 4.0.

New Feature

This version of the product enables your region to react to alerts from NetSpy SNA agents (part of the Unicenter NetSpy Network Performance product). You can monitor these alerts at the alert monitor.

By using the NETSPYLINKS parameter group, you can implement links to selected agents. These links enable you to define user alert monitors for specific SNA resources. By using commands, you can also retrieve performance data collected for a resource by the agents.

For information about how to implement the agent links, see the *Implementation Guide*. For information about how to work with the agents, see the *User Guide*.

Enhanced or Changed Features

This version of the product includes the following enhanced features:

- Menu restructure and shortcuts
- Activity log enhancements
- Parameter groups

Menu Restructure and Shortcuts

The menu structure has been reorganized. Some panels can be accessed by using shortcuts that are easy to remember. You can use these shortcuts as your primary means of navigation, exploring the menus only when you need to find less common options. Shortcuts are shown beside options on menus.

Selecting a Function Directly by Using Shortcuts

To jump to the panel of a function directly:

- Specify */shortcut-name* to retain the current panel on return.
- Specify *=/shortcut-name* to close the current panel and return to the primary menu when you exit the desired panel.

Note: Enter */* or *=/* to list all shortcuts.

Menu Option Path Changes

The reorganization of the menu structure changes some of the option paths. The following table lists some of the changes:

| Old Path | New Path or Shortcut | Option |
|----------|-------------------------|-------------------------------------|
| =A.C.P | =A.IN.P or /ICS | Parameter Groups |
| =A.M | =A.M or /MADMIN | Multi-System Support Administration |
| =A.SS.P | =A.MS.PS or /PSM | Print Services Manager |
| =D.E.R.R | =A.E.R.R or /EADMIN.R.R | Rulesets |
| =D.I | =A.G or /GADMIN | Graphical Monitor Administration |
| =D.SNA | =A.SN or /SNADMIN | SNA Administration |
| =NS | =M.NS or /SNASUM | SNA Network Summary |

Activity Log Enhancements

The physical format of the activity log files has changed. You can no longer use your old log files. For more information, see the *Management Services Version 5.0 Release and Migration Guide*.

The activity log has been enhanced in the following ways:

- The log supports multiple concatenated log files.
- Text finding has been enhanced to support compound FIND arguments, using the AND (+) or OR (|) operators.
- The TIME command supports larger sets of operands. You can now position the log by either relative time or absolute time.

Parameter Groups

The following parameter groups have changed:

| Old | New |
|--------------|---------------|
| AUTOSNAFILES | SNAAUTOFILES |
| NMINIDET | CNM and ISRIN |
| PPINIDET | ISRIN and PPO |

OS/390 Messages

EventView rules now support both OS/390 messages and VTAM messages.

Summary of Enhanced Feature in Version 4.0

The enhanced feature was the provision of BLD and BLDALL commands for rebuilding SNA groups.

Summary of Enhanced Feature in Version 3.3

The enhanced feature was the provision of heartbeat monitoring for switched PUs.

Variables Used in Data Set Names

This guide uses the following variable representation in data sets:

dsnpref – Represents the data set prefix used during the installation of the product.

rname – Represents the name of the product region.

Migrating to Version 5.0

This chapter describes the migration procedures.

Migrating from Version 4.0

To migrate from Version 4.0 to Version 5.0, you need to do the following:

- [Task 1 – Migrating the Knowledge Base](#)
- [Task 2 – Migrating NPF or SAF Security Members](#)
- [Task 3 – Migrating Alert Monitor Filters](#)

Task 1—Migrating the Knowledge Base

Create a Version 5.0 knowledge base, and migrate any Version 4.0 data that you want to keep to the new knowledge base.

The Version 5.0 knowledge base contains new and changed definitions. You should migrate the appropriate old data to update the new knowledge base.

WARNING! *The REPRO command must never be used to manage the definitions in the knowledge base under any circumstances.*

Preparing Your Version 4.0 Knowledge Base for Migration

Consider the following:

- If you want to keep a copy of an old distributed template (for example, you might have modified it), copy this template to a new template image version above 0009.
- If you want to keep a copy of an old distributed rule set (for example, you might have modified it), make a copy of this result under a different name. (If the result is associated with a system image, update the association accordingly.)

Version 4.0 Migration Procedure

To perform migration, proceed as follows:

1. Create and initialize a master Version 5.0 region, using the supplied knowledge base.
2. Ensure that the region using the Version 4.0 knowledge base is shut down. (For information about database maintenance, see the *Automation Services Administrator Guide*.)
3. In the Version 5.0 region, enter the `/ASADMIN.MIG` path.
4. On the displayed RAMDB Migration Utility panel, proceed as follows:
 - a. Specify the data set name for your Version 4.0 knowledge base in the Old RAMDB Data Set Name field.

The data set name of the knowledge base is `dsnpref.rname.SS400.RAMDB`.
 - b. To migrate all definitions, specify **NO** in the Select By Class field.
 - c. Press F6 (Action) to display the Migration Statistics panel.
5. At the completion of migration, review the components that have a nonzero value in the Not Copied column. (The utility does not copy a component if the component exists in the new knowledge base already.) You might have customized some of these components and want to copy them anyway. Enter **R** beside the components that you want to selectively copy, and copy the records. The copying options depend on whether a component contains multiple objects (for example, a system image) or is the object itself (for example, a user profile definition) (see [Copying Multi-object Components](#) and [Copying Single-object Components](#) in this chapter).
6. After you have copied the components, exit the migration utility.

If you do not want to move directly from your established regions to Version 5.0 regions, you can run the two versions in parallel. For more information, see [Easing Version 5.0 into Production](#) in this chapter.

You should keep the old knowledge base until your Version 5.0 regions are performing correctly.

Copying Multi-object Components

Important! The products use template images \$TEMPLAT 0001 through 0009 for the distribution of template definitions. Do not overwrite or replace them in the Version 5.0 knowledge base.

For a component that contains multiple objects, you operate on the objects as a whole. You can perform the following actions:

- Merge the component in the old knowledge base into the component in this knowledge base.
- Overwrite existing objects in this knowledge base by the objects in the old knowledge base.
- Replace the component in this knowledge base by the component in the old knowledge base.

Note: If you want to migrate specific objects, see the activity log and use the RMMUAD05 messages to determine which objects have not been copied. You can then delete the appropriate objects and redo the migration. (To list only the RMMUAD05 messages in the log, enter **TEXT RMMUAD05**.)

Copying Single-object Components

For a component that is the object, you can perform the following actions:

- Copy the component to this knowledge base by using a different name.
- Overwrite the existing component in this knowledge base by the component in the old knowledge base.

Task 2—Migrating NPF or SAF Security Members

If you have customized the distributed Version 4.0 NPF or SAF security members, update the Version 5.0 members with your changes.

Task 3—Migrating Alert Monitor Filters

To migrate alert monitor filters, use the REPRO command. The filters are stored in the VFS data set with a key of \$AMFD0.

Task 4—Reviewing Initialization Procedure (\$RMNSINI)

The NetMaster Network Automation initialization procedure, \$NSINIT (previously known as \$RMNSINI), is used for site-specific definitions, for example, NTS DEFCLASS statements.

If you have customized your \$RMNSINI procedure in Version 4.0, you need to do this:

1. Review your Version 4.0 file and apply your local modifications to the V5.0 file in TESTEXEC.

Note: Many of the statements from Version 4.0 have been replaced by ICS parameter groups. Therefore you cannot simply migrate your Version 4.0 \$RMNSINI file.

2. Update the SNAINIT parameter group in ICS to action your changes.

Migrating from Version 3.3

To migrate from Version 3.3 to Version 5.0, you need to do the following:

- [Task 1 – Migrating the Knowledge Base from Version 3.3](#)
- [Task 2 – Migrating NPF or SAF Security Members](#)
- [Task 3 – Migrating Alert Monitor Filters](#)
- [Task 5 – Migrating for Changed Interface to the Automatic Restart Manager](#)

Task 1—Migrating the Knowledge Base from Version 3.3

Create a Version 5.0 knowledge base, and migrate any Version 3.3 data that you want to keep to the new knowledge base. The migration procedure is similar to the procedure for Version 4.0 (see [Migrating the Knowledge Base in this chapter](#)).

Task 2—Migrating NPF or SAF Security Members

The migration procedure is similar to the procedure for Version 4.0 (see [Task 2—Migrating NPF or SAF Security Members in Migrating from Version 4.0](#)).

Task 3—Migrating Alert Monitor Filters

The migration procedure is similar to the procedure for Version 4.0 (see [Task 3—Migrating Alert Monitor Filters in Migrating from Version 4.0](#)).

Task 4—Reviewing Initialization Procedure (\$RMNSINI)

The migration procedure is similar to the procedure for Version 4.0 (see [Task 4—Reviewing Initialization Procedure \(\\$RMNSINI\)](#) in [Migrating from Version 4.0](#)).

Task 5—Migrating for Changed Interface to the Automatic Restart Manager

If you have used the event notification facility (ENF) to provide restart status messages for resources registered with the automatic restart manager (ARM), add `ENFARMWTO=YES` to the SSI parameters.

Migrating from Version 3.2

The migration procedure is similar to the procedure for Version 3.3. Follow the tasks in [Migrating from Version 3.3](#) in this chapter.

Easing Version 5.0 into Production

If you do not want to move directly from your established regions to Version 5.0 regions, you can do the following:

1. Create an equivalent Version 5.0 region for each of your regions, so that you have a mirrored pair on each system.
2. Initially, have the established region performing automation, and the Version 5.0 region running in the global mode of MANUAL (that is, merely monitoring) but using the same data.
3. Gradually, reverse the global mode of operation between the mirrored pairs, until Version 5.0 is performing automation in all regions.

This suggested scenario provides you with a hot backup situation, allowing you to instantly swap from a Version 5.0 region to the established region if you experience any problems. You can then correct the problem before swapping back to try Version 5.0 again.

Coexistence Considerations

This chapter describes the coexistence considerations when you implement the products.

Coexistence With Earlier Versions

You **cannot** synchronize and connect a pre-version 5.0 region to a Version 5.0 region. However, you still can transmit pre-version 5.0 knowledge base definitions to a Version 5.0 knowledge base. You may also use the migration utility to perform this task.

Coexistence Between Products

In general, you can link as focal points only those regions that are licensed for the same products. For a subordinate to focal point link, the products licensed in the subordinate region can be a subset of the products licensed in the focal point region.

However, special considerations apply for the following products so that you can still link regions that include these products with minimal restriction:

- This product
- SOLVE:Operations Automation
- SOLVE:Operations Automation for CICS

You can link focal point regions that include these products, even when the regions do not include the same subset of these products. That is, you can link a region that includes this product only with a region that includes SOLVE:Operations products only. For a subordinate to focal point link, you must include this product in the focal point region.

Coexistence with Other Network Management Products

Only one product can have ownership of the primary program operator (PPO) or the communication network management (CNM) interface on a system. When you use this product together with the Unicenter NetMaster Network Management for SNA (also known as NetMaster for SNA) product or the NetView product on the same system, you should review the PPO (for PPO messages) and the CNM (for CNM data) parameter groups to ensure that this product receives the relevant messages and data.

See the *Implementation Guide* for detailed information about how to set up the coexistence requirements.

Coexistence with the NetMaster for SNA Product

Run the NetMaster for SNA product in the same region as this product. If you run the products in separate regions, specify the NetMaster for SNA logon requirements in the EXTAPPLS parameter group.

Same Region Considerations

To run the NetMaster for SNA product in the same region, you should perform the following:

- Ensure that the RUNSYSIN procedure (created during product setup) includes the NetMaster for SNA product.
- Ensure that the RUNSYSIN procedure includes the NetMaster for SNA data sets in the COMMANDS DD.

Separate Region Considerations

Some resource-specific commands are not functional if you run the products in separate regions.

If you need to run the products in separate regions on the same system, you should review the ISRIN parameter group. This group enables you to set up proper communications between the two regions.

CNM Data Considerations

To use CNM data, you must initialize the Network Error Warning System (NEWS) in the product region. However, if you have an existing NetMaster for SNA region, you might want to use it concurrently for a while for receiving CNM data from VTAM before combining it with this product.

To receive CNM data from a separate region, identify the link to that region in the ISRIN parameter group.

Coexistence With the NetView Product

If you want to receive PPO events from the NetView product, switch on the Inter-system Routing (ISR) link to the NetView product in the ISRIN parameter group.

If you want to receive CNM data from the NetView product, you must also have the NetMaster for SNA product running in the same region as this product. Switch on the ISR link to the NetView product in the ISRIN parameter group.

See the *Implementation Guide* for detailed information about how to set up the coexistence requirements.

Coexistence With the Unicenter Central Service Desk Products

You must run this product and the Unicenter Central Service Desk (CSD) (also known as SOLVE:Central) products in separate regions. Specify the Unicenter CSD logon requirements in the EXTAPPLS parameter group.

Problem Recording Through Supplied Exits

The supplied \$RMPB06S and \$RMPB07S NCL procedures enable a region to record problems automatically in a SOLVE:Problem product. You can, for example, use the procedures in a state change exit. See the *Automation Services Common User Guide* for information about the NCL procedures.

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