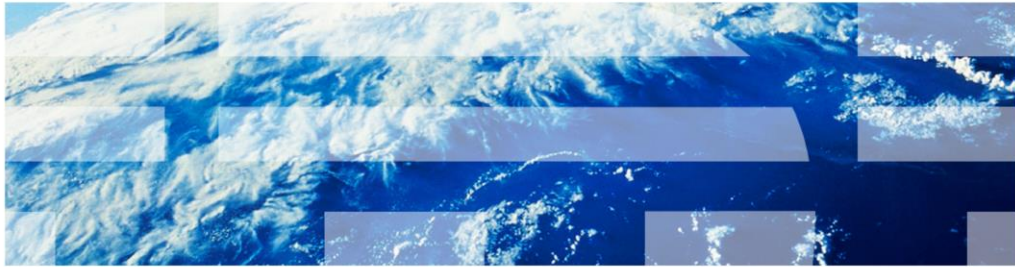


# Tivoli NetView for z/OS V5.3

## NetView automation table tracing



Tivoli® NetView® for z/OS® V5.3, NetView automation table tracing.

## Objectives

When you complete this module, you can perform these tasks:

- Determine when to use the automation table tracing
- Configure and run the automation table trace
- Find the listing data set and member
- Interpret the trace statements
- Find more information

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## Problem statement

NetView automation is not handling messages as expected. The message is seen in the NetView for z/OS netlog/canzlog but the expected action is not executed. A CNM493I message is issued indicating there was an automation table match. The problem is how to tell which automation table statement was matched.

The automation table trace shows all of the automation table entries that are checked for the specific message, and it shows which entries were matched and used, and which entries were bypassed.

The NetView Automation Table Trace is used to identify matching statements during message processing.

## Setting up the trace

- Add this statement to the top of the first automation table in the concatenation to ensure that the trace is active for all tables in use:

```
IF MSGID = 'MSGxxx' THEN  
  TRACE('User_Defined_Trace_Message');
```

- Replace the MSGxxx with the actual message ID
- This example is for the MVS D T (Display Time) command and response (IEE136I)

```
IF MSGID = 'IEE136I' THEN  
  TRACE('IEE136I_TRACE');
```

- Reload the automation table to pick up the tracing statement
  - The tracing is written to the netlog
  - You can use AUTOMAN to reload an automation table
  - The NetView AUTOMAN command shows the automation tables in use, and which one is first in the order
  - Use F4 (commands) to reload the table

You start an automation table trace by adding a TRACE statement to the top of the first automation table in the concatenation.

## Automation table trace entries (1 of 2)

- The trace is set up for IEE136I and the automation table is reloaded
- To generate the IEE136I message, in NetView run the command `MVS D T`

```
MVS D T
BNH370I PASS TRACE          DSITBL01 DSITBL01 #0000043      IEE136I_TRACE
BNH370I PASS MSGID         DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS MSGGTIME      DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS AND           DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS MSGID         DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS AND           DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS MSGGDATE      DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS AND           DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
BNH370I PASS EXEC          DSITBL01 DSITBL01 #0000046      IEE136I_TRACE
CNM493I DSITBL01 : #0000046 : JAMDMT 2012296 15.46.35.41 IEE136I
IEE136I LOCAL: TIME=15.46.35 DATE=2012.296 UTC: TIME=19.46.35 DATE=2012.296
```

This image shows what the Automation Table Trace looks like.

The trace statements are identified with a **BNH370I** message.

## Automation table trace entries (2 of 2)

```
BNH370I PASS TRACE      DSITBL01 DSITBL01 #0000043      IEE136I_TRACE
```

The trace entry provides the information listed:

- BNH370I: Indicates automation table trace entry
  - You can look at help for this message in NetView for more information
- PASS: Indicates that conditional test on the automation table entry was successful
  - If the conditional test was not met, the trace shows **FAIL** and the entry is bypassed
- Trace: Is the condition being evaluated
- DSITBL01 DSITBL01: Automation table and member name where the match is found
- #0000043: Entry in the LISTING member
- IEE136I\_TRACE: This string is set as the TRACE parm on the automation table trace entry
  - Any trace message can be coded for this entry
  - Use the identifier to easily find trace entries in the netlog

Here is all the information that the BNH370I message provides.

Help for Message BNH370I also shows the purpose of each entry.

The sequence number is found on the BNH370I message that is shown.

## NetView listing

- The listing member also plays a key role in the automation table trace
- You can determine the listing dataset
- The default member name for the listing is **LISTING**
- Browse the listing data set in ISPF

```
* NTVB1      LISTA DSILIST
' NTVB1
CNM299I
DDNAME      DATA SET NAME
-----
DSILIST     USER.NETV54.NTVB1.DSILIST
-----
```

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NetView automation table tracing

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The DSILIST listing member contains Automation table statements and sequence numbers.

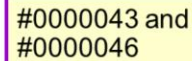
The Listing member also plays a key role in the Automation Table trace. It contains Automation table statements and sequence numbers. The sequence number in the Trace BNH370I message points to an entry in the Listing member.

You can determine the Listing dataset by issuing NetView command: **LISTA DSILIST** or look at the NetView startup proc JCL for the **DSILIST DD**.

The default member name for the listing is **LISTING**.

Browse the Listing data set in ISPF and look for member name **LISTING**.

## Listing member



#0000043 and  
#0000046

```
0003 001 IF MSGID = 'IEE136I' THEN TRACE('IEE136I_TRACE'); #0000043
0004 001 IF MSGID = 'IEE136I' & MSGGTIME = MT & MSGID = MG & MSGGDATE = #0000046
MD THEN EXEC(CMD('JAMDHT 'MD' 'MT' 'MG) ROUTE(ONE *));
```

- A match occurred with sequence numbers #0000043 and #0000046 in the listing
- Notice that #0000046 shows several conditions (MSGID='IEE136I' for example) that all must evaluate as true for the EXEC action to occur
- The automation table trace identified statement #0000046 as the matching entry for the action that was taken

Here is what the information in the Listing member looks like.

A match occurred with sequence numbers #0000043 and #0000046 in the listing. The sequence number is on the right side of the member.

Notice that #0000046 shows several conditions (MSGID='IEE136I' for example) that all must evaluate as true for the EXEC action to occur.

The Automation Table Trace identified statement #0000046 as the matching entry who's action was taken. If this action is not the expected action, then review the conditions on the IF statement to determine why. There might also be multiple statements for IEE136I and a different one than expected was matched. Review the Automation table trace to identify other entries for the message in question.



## Additional information

There is more information about Automation Table Tracing in the NetView Automation Guide

- NetView v6r1: Section 7.8.4.4 Using NetView Automation Table Tracing

<http://publibfi.dhe.ibm.com/cgi-bin/bookmgr/BOOKS/ENVG0100/7.8.4.4?SHELF=env2bk41&DT=20110418144006&CASE=>

- NetView v5r4: Section 7.8.4.4 Using NetView Automation Table Tracing

<http://publibfi.dhe.ibm.com/cgi-bin/bookmgr/BOOKS/ENVG0020/7.8.4.4?SHELF=env1bk30&DT=20090922145756&CASE=>

For more information about Automation Table Tracing, see the links shown.

## Summary

Now that you completed this module, you can perform these tasks:

- Determine when to use the automation table tracing
- Configure and run the automation table trace
- Interpret the trace statements
- Find the listing data set and member
- Find more information

Now that you completed this module, you can perform these tasks:

- Determine when to use the Automation Table Tracing
- Configure and run the Automation Table Trace
- Find the Listing data set and member
- Read the Trace statements
- Find more information

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