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Auto-reply to WTORs



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Operators and WTORs



- ❑ Reply delays can affect all systems in a sysplex
 - Operators may not closely monitoring the system
 - Operators typically do not have authority, experience, or system understanding to make their own decision on what to reply for uncommon WTORs
- ❑ Customers have told IBM that it is reasonable to assume a WTOR may take at least 30-45 minutes
 - No longer feasible to expect fast, accurate, knowledgeable answers from system operators
 - Some WTORs are so infrequent that they are not automated and may never have been seen before

Auto-reply Policy



- ❑ With an auto-reply policy for WTORs, an automatic response from the system to WTOR messages occurs
 - When there is no automation, the operator is unaware
- ❑ Specifically, the auto-reply policy provides the following enhancements on z/OS:
 - If an operator or installation-supplied automation has not provided any reply to a WTOR in a specified amount of time, and an auto-reply policy contains this WTOR
 - The system uses the reply from the auto-reply policy to reply to the message - (automatic response - time based)
 - Auto-reply policy activated during the IPL
 - (IBM supplies a default policy)

IBM Default Auto-reply Policy



- ❑ With z/OS V1R12, a new AUTOR00 parmlib member is implemented - (IBM default policy)
 - If WTORs listed in the AUTOR00 parmlib member are automated by an existing automation product, examine the WTOR replies in the AUTOR00 parmlib member before IPLing, to avoid possible conflicts
- ❑ Defining a AUTORxx member
 - Overrides the AUTOR00 member
 - SET AUTOR=xx[,xx]..
 - Display current auto-reply policy
 - D AUTOR,P



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Using Auto-reply Policy Options



- ❑ No auto-reply policy required:
 - Specify AUTOR=OFF in the IEASYSxx parmlib member
 - Or respond to IEA101A SPECIFY SYSTEM PARAMETERS
 - Not recommended that you remove AUTOR00 from parmlib, service or new releases might reinstall AUTOR00
 - If there is no AUTOR00 member in parmlib, auto-reply is not activated and the following messages are produced:

```
CNZ2600I AUTO-REPLY POLICY ATTEMPTING TO USE AUTOR=00.  
IEA301I AUTOR00 NOT FOUND IN PARMLIB  
CNZ2601I AUTO-REPLY POLICY NOT ACTIVATED.  
NO ENTRIES SPECIFIED
```



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IEASYSxx Parmlib Member - (AUTOR=)



- ❑ The parameter options are:
 - AUTOR={xx }
 - AUTOR={{xx[,xx]...}}
 - AUTOR={OFF }
 - AUTOR={{(OFF) }
- ❑ If AUTOR= is specified in response to IEA101A SPECIFY SYSTEM PARAMETERS, the AUTOR= value overrides any AUTOR= specification in the IEASYSxx parmlib member
- ❑ Value Range: Any two characters (A-Z, 0-9, @, #, and \$).
- ❑ Default Value: AUTOR=00



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AUTORxx Parmlib Member



- ❑ Use the AUTORxx parmlib member to activate auto-reply processing on a system
- ❑ New system parameter AUTOR= specified in the IEASYSxx parmlib member - (AUTOR=xx)
 - During an IPL, auto-reply processing is activated, unless you change the default system settings
 - The default policy is used unless it is requested not to be activated
- ❑ Or another AUTORxx policy is specified
 - Installations can add their own policy or override the AUTOR00 policy

The IEASYSxx member specifying AUTOR cannot be shared with prior z/OS releases



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AUTORxx Parmlib Member Parameters



- ❑ The following parameters can be specified with the **AUTORxx parmlib member**
 - **HC** -Indicates that the auto-reply notification messages (CNZ2605I, CNZ2606I and CNZ2608I) only appear in the hardcopy log - If NOTIFYMSGs is not specified, HC is the default value
 - **CONSOLE** - Indicates that the auto-reply notification messages (CNZ2605I, CNZ2606I and CNZ2608I) are displayed on consoles receiving routing codes 2 (operator information) or 10 (system programmer information) and also appear in the hardcopy log
 - **MSGID()** - The first keyword of the message definition. This keyword must be in the range of 1 to 10 characters. The message ID must be enclosed in quotes if it contains non-alphanumeric characters, like equal sign or parenthesis

```
[NOTIFYMSGs({HC|CONSOLE})]  
[MSGID([']msgid['])]{NOAUTORREPLY}  
                {DELAY(nnn{M|S}) REPLY([']replytext['] [,[']replytext[']...)]}
```



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AUTORxx Parmlib Member Parameters



- ❑ **AUTORxx parmlib member parameters**
 - **NOAUTORREPLY** Can be specified to cause subsequent MSGID() specifications of this message ID (in this member or subsequent members) to be ignored. With the NOAUTOREPLY option, you can have your own AUTORxx member and use it to remove messages specified in the AUTOR00 member without actually removing the AUTOR00 statements. No auto-reply processing is performed for this message ID.
 - **DELAY(nnn{M|S})** Can appear in any order and on different lines from REPLY() and MSGID()
 - **nnn** - nnn is the minimum amount of time, in minutes (M) or seconds (S) to delay after the WTAAAOR is issued but before the system issues a reply. Only three digits are supported, which gives a limit of 999 minutes (16.65 hours) or 999 seconds (16.65 minutes). The delay value of 0 is supported, but specifying the value of 0 can prevent automation or an operator from providing a reply

```
[NOTIFYMSGs({HC|CONSOLE})]  
[MSGID([']msgid['])]{NOAUTORREPLY}  
                {DELAY(nnn{M|S}) REPLY([']replytext['] [,[']replytext[']...)]}
```



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AUTORxx Parmlib Member



- ❑ Auto-reply provides a policy definition - (AUTORxx)
- ❑ Syntax example - AUTORxx parmlib member

notifymsgs(hc)

```
/* $HASP811 REPLY Y TO CONTINUE OR N TO TERMINATE START PROCESSING */
Msgid(?HASP811) Delay(30S) Reply(Y)
/* ANTU2220D "READY FOR FLASHCOPY. REPLY 'I' TO INITIATE, 'C' TO */
/* CANCEL" */
Msgid(ANTU2220D) Delay(60S) Reply(C)
```

- ❑ AUTOR00 parmlib member - Syntax rule

```
/* ***** */
/* $HASP811 REPLY Y TO CONTINUE OR N TO TERMINATE START PROCESSING */
/*
/* Rule: 5
/*
Msgid(?HASP811) Delay(30S) Reply(Y)
/* ***** */
```



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Default Auto-reply Policy



```
D AUTOR,P
CNZ2603I 14.09.56 AUTOR POLICY 234
POLICY ACTIVATED AT 09.13.26 ON 07/06/2010 NOTIFYMSG(S)(HC)
FROM PARMLIB MEMBERS 00
--MSG ID-- DELAY MEM ---REPLY TEXT---
ANTU2220D 60S 00 C
ANTX8925A 60S 00 N
ANTX8926A 60S 00 N
ANTX8942A 60S 00 N
ANTX8943A 60S 00 N
ANTX8944A 60S 00 N
ANTX8973A 60S 00 N
ANTX8978A 60S 00 N
ANTX8981A 60S 00 N
ARC0310A 15M 00 N
ARC0311A 15M 00 N
ARC0314A 15M 00 Y
ARC0346A 30S 00 Y
ARC0380A 60S 00 CANCEL
ARC0387A 60S 00 N
ARC0505D 60S 00 Y
ARC0803A 60S 00 Y
ARC0825D 60S 00 Y
ARC0962A 30S 00 C
ARC6254A 30S 00 N
BPXI078D 60S 00 N
BPXI083D 30S 00 N
BPXM055D 60S 00 N
BPXM061D 60S 00 N
BPXM063D 60S 00 N
BPXM120D 60S 00 N
CBR9810D 60S 00 QUIT
CNZ9009D 60S 00 N
CPO4205I 60S 00 2
CPO4206I 60S 00 2
EDG0103D 60S 00 RETRY
EDG1107D 2M 00 RESTART
EDG1200D 30S 00 CANCEL
EDG1203D 30S 00 CANCEL
EDG2103D 30S 00 L
EDG2106D 30S 00 L
EDG3213D 30S 00 RETRY
EDG4000D 2M 00 RETRY
EDG4001D 2M 00 RETRY
EDG4010D 60S 00 RETRY
EDG8008D 60S 00 RETRY
EDG8010D 60S 00 RETRY
EDG8011D 60S 00 RETRY
EDG8013D 60S 00 RETRY
EDG8102D 60S 00 RETRY
EDG8108D 60S 00 RETRY
EDG8110D 60S 00 RETRY
EDG8113D 60S 00 RETRY
EDG8121D 60S 00 RETRY
EDG8122D 60S 00 RETRY
EDG8123D 60S 00 RETRY
ERB306D 60S 00 GO
IAT2855 60S 00 RETRY
IAT3155 60S 00 CONTINUE
ICH15041A 30S 00 CANCEL
IEA029D 60S 00 YES
IEA893A 30S 00 NO
IEE799D 30S 00 CANCEL
IEE800D 60S 00 NO
IEF739D 30S 00 TERM
ISG017D 60S 00 NO
ISG027D 60S 00 NO
ISG082D 60S 00 NO
ISG101D 60S 00 NO
ISG117D 60S 00 NO
ISG186D 60S 00 KEEP
ISG220D 60S 00 C
ISG366D 60S 00 C
ISG880D 60S 00 C
IXC222D 60S 00 U
IXC289D 60S 00 U
IXC394A 60S 00 N
IXC403D 60S 00 W
?HASP070 30S 00 TERMINATE
?HASP294 30S 00 CANCEL
?HASP360 60S 00 N
?HASP457 60S 00 Y
?HASP811 30S 00 Y
```



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New Commands for Auto-reply



- ❑ **SET AUTOR=(xx[,xx]..)** - Activate auto-reply processing on a system by specifying the AUTORxx parmlib member or members that the system is to use
- ❑ **D AUTOR,POLICY** - Display auto-reply policy active on the system
- ❑ **D AUTOR,WTORES** - Display current outstanding WTORES being monitored by auto-reply processing
- ❑ **SETAUTOR OFF** - Deactivate auto-reply processing and stop monitoring all WTORES issued on the system
- ❑ **SETAUTOR IGNORE** - Request that the auto-reply processing stop monitoring an outstanding WTORES.



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SETAUTOR Command



- ❑ Deactivate auto-reply or - stop monitoring a WTORES

```
SETAUTOR {OFF  
          {IGNORE,RID={rpid }  
          {0,SYS=sysname}b
```

OFF - An optional parameter indicating that the auto-reply processing should deactivate the auto-reply processing and stop monitoring all WTORES issued on the system

IGNORE - An optional parameter requesting that the auto-reply processing should stop monitoring a WTORES

RID=rpid -The reply ID that identifies the WTORES to no longer be monitored by auto-reply processing

RID=0,SYS=sysname - System where reply ID 0 msg issued



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SETAUTOR Command Examples



Assume the following VARY command is issued to generate message IEE800D:

V 3D0,OFFLINE,FORCE

0009 IEE800D CONFIRM VARY FORCE FOR 3D0 - REPLY NO OR YES

If message IEE800D (reply ID 0009) is to be ignored by auto-reply processing, issue:

SETAUTOR IGNORE,RID=9

CNZ2607I AUTO REPLY WILL NO LONGER OCCUR FOR THE FOLLOWING WTOR: 0009

06.46.55 2008130 IEE800D CONFIRM VARY FORCE FOR 3D0 - REPLY NO OR YES

If auto-reply processing is to be deactivated, issue:

SETAUTOR OFF



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D AUTOR Command



- Displays current auto-reply policy and the current WTORs being monitored by auto-reply processing

```
D AUTOR[,POLICY|,P]
      [,WTORS|,W]
      [,L={a|name|name-a}]
```

```
/*-----\
| IXC371D CONFIRM REQUEST TO VARY SYSTEM xxxx OFFLINE. |
| REPLY SYSNAME=xxxx TO REMOVE xxxx OR C TO CANCEL. |
\-----*/
Msgid(IXC371D) Delay(1m) Reply(C)
/*-----\
| IEE800D CONFIRM VARY FORCE FOR xxxx - REPLY NO OR YES |
\-----*/
Msgid(IEE800D) Delay(1m) Reply(NO)
```

```
D AUTOR,P
CNZ2603I 06.46.34 AUTOR POLICY
POLICY ACTIVATED AT 06.45.32 ON 12/25/2008 NOTIFYMSG(S(HC)
FROM PARMLIB MEMBERS 00
--MSG ID-- DELAY ----REPLY TEXT---
IEE800D 1M NO
IXC371D 1M C
```



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D AUTOR Command



- ❑ If WTORs IEE800D and IXC371D are issued and are waiting to be replied to by auto-reply processing, the output of the D AUTOR,W command

```
D AUTOR,W
CNZ2604I 06.47.02 AUTOR WTORs
0009 STATUS=06.47.58 SYS=SY1
MSG=IEE800D CONFIRM VARY FORCE FOR 3D0 - REPLY NO OR YES
REPLY=NO
0008 STATUS=06.47.46 SYS=SY1
MSG=IXC371D CONFIRM REQUEST TO VARY SYSTEM SY1 OFFLINE. REPLY
SYSNAME=SY1 TO REMOVE SY1 OR C TO CANCEL.
REPLY=C
```