Canzlog in NetView for z/OS 6.1: User Experience

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Bank of America

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Session 9914
About Dale Carter

• Graduated from Data processing Institute in 1985
• Worked at Bank of America for 26 years.
• Started as tape operator on 3420 tape drives, then print operator, Console operator, Security analyst, Weekend Operations manager and on to Systems Automation.
• Title: VP; CNSLT – Systems Engineer Midrange and Mainframe Automation and Monitoring
• Worked with NetView for about 10 years and assisted with the installing NetView N5V1 – N6V1.
• Participated in the NetView N6V1 Beta testing using the Canzlog function since May of 2010.
Bank of America Mainframe Environment

- **Size and Scope:**
  - 40 CECs
  - 201 Globally distributed LPARS
  - 208,354 Mainframe MIPS Worldwide
  - 75 Parallel Sysplex environments
  - 14k+ managed subsystems
  - 1.6+ billion messages generated monthly
  - 1.1+ billion messages managed monthly by SA
  - 1.9 million batch job definitions
  - 58+ million batch jobs executed monthly

- **Hardware:**
  - z9 Business Class & z10 Enterprise Class

- **Operating System**
  - z/OS version 1.11 & 1.12
Canzlog use at BankofAmerica

- A large shop like BankofAmerica can benefit from using a tool like Canzlog. We plan to use it to manipulate logs and maintain data that is easily recovered for research by operations and by automation technicians. Using the features via a REXX-PIPE API within the programming will lead to faster automated resolutions. We will use the features to capture pertinent log data and save it for research and for future reference. We already use Canzlog to filter out specific messages, route codes and descriptor codes for testing and research.
Canzlog Overview

- Canzlog is a combined network and system log that brings together years of "wouldn't it be nice" ideas for browsing. Forty-six message attributes are kept, displayed, and used for automation and by REXX programs.

- Simple steps for automatic archiving and seamless browsing.

- Canzlog can be shared with IBM service or moved to a backing store when needed.
The components of Canzlog facility you need to know about

- During IPL, 2G dataspace created
- NetView SSI exit inserts system messages
  - NOT “SSI Proc”
- NetView standard logging inserts NetView messages
- One NetView instance per LPAR writes archives
- 3270 interface from BROWSE command
- REXX/pipe API available
DEFAULTS command selects standard view of the log

Command: BROWSE LOG (PF5)

```
NetView V6R1 - 7E  Tivoli NetView  NTV7E TOM  06/26/11 15:19:04
T SYSID ORIGIN
  NTV7E TOM
DWO654I DISPLAY DEFAULTS
  SLOGCMDR: NO
  CANZLOG: MVS & local NetView messages
  CZFORMAT: TIME
```

• “LOG” means “use DEFAULTS/OVERRIDE setting”
  • Later, we will show other things that you can decide that “LOG” might mean
Text and some attributes shown on Main Display – see messages in context

15:20:07 IST1411I INOP GENERATED FOR EEL001
IST1430I REASON FOR INOP IS XID OR LDLC COMMAND TIMEOUT
IST3141 END
15:20:07 IST2591 INOP RECEIVED FOR NMP181 CODE = 01
15:20:07 IST493I VARY DIAL FOR ID = NMP181 OVERRIDDEN BY SOFT INOP
15:20:07 IST619I ID = NMP181 FAILED - RECOVERY IN PROGRESS
15:21:09 IST1411I INOP GENERATED FOR EEL002
IST1430I REASON FOR INOP IS XID OR LDLC COMMAND TIMEOUT
IST3141 END
15:21:09 IST2591 INOP RECEIVED FOR NMP181
15:21:09 IST493I SOFT INOP FOR ID = NMP181 OVERRIDDEN BY SOFT INOP
15:21:09 IST619I ID = NMP181 FAILED - RECOVERY IN PROGRESS
15:21:09 IST590I CONNECTOUT FAILED FOR PU NMP181 ON LINE EEL002
15:21:09 IST621I RECOVERY SUCCESSFUL FOR NETWORK RESOURCE NMP180
15:21:09 IST1411I INOP GENERATED FOR EEL002
IST1430I REASON FOR INOP IS XID OR LDLC COMMAND TIMEOUT
IST3141 END
15:21:09 IST2591 INOP RECEIVED FOR NMP181
15:21:09 IST493I SOFT INOP FOR ID = NMP181 OVERRIDDEN BY SOFT INOP
15:21:09 IST619I ID = NMP181 FAILED - RECOVERY IN PROGRESS
15:21:09 IST590I CONNECTOUT FAILED FOR PU NMP181 ON LINE EEL000
15:21:09 IST621I RECOVERY SUCCESSFUL FOR NETWORK RESOURCE NMP181
15:26:29 BNH067I SYSPLEX MASTER IN GROUP DSIPLEX01 SETH TO NET7E. PREVIOUS MASTER
15:26:29 DS1047E CNMEERSC failed: DISCOVERY not enabled.
15:26:29 DS1201I TIMER REQUEST SCHEDULED FOR EXECUTION 'ID=XCFMR$2'
15:37:41 GO
15:37:41 GO
15:37:41 DS1016I NOT IN PAUSE OR WAIT STATUS
15:37:48 br log
DWO672I Message * was issued at 06/26/11 15:21:09.845 by NET7EPP1
CMD= =>

Additional info on selected message via F9
See only the “interesting” part of Canzlog data

Filter options panel
The Canzlog with msg tags. You can view all Canzlog data as far back as your archives go.
Filtering on AOF570I, SA commands report messages, with time range
SA issued these cmds in the time range

Some msgs are MLWTO

- You are seeing both NV & z/OS messages.
Fliter makes Canzlog a Joblog viewer

<table>
<thead>
<tr>
<th>CNMKCZLOG</th>
<th>Specify Canzlog Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>From:</td>
<td>To:</td>
</tr>
<tr>
<td>Tag:</td>
<td>MSGID:</td>
</tr>
<tr>
<td>Jobname:</td>
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</tr>
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<td>Text - case sensitive; faster search:</td>
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<td></td>
</tr>
<tr>
<td>Name:</td>
<td>Remark:</td>
</tr>
</tbody>
</table>

Alt: BR CANZLOG JOBNAME=TSO

- Using Canzlog to filter messages associated with jobname TSO.
Browsing a “joblog”

<table>
<thead>
<tr>
<th>Time</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:33:06</td>
<td>LOGON</td>
</tr>
<tr>
<td>20:03:13</td>
<td>LOGON</td>
</tr>
<tr>
<td>14:09:31</td>
<td>LOGON</td>
</tr>
<tr>
<td>15:24:14</td>
<td>LOGON</td>
</tr>
<tr>
<td>04:10:08</td>
<td>IKT033I TCAS USERMAX VALUE SET TO 0</td>
</tr>
<tr>
<td>04:10:08</td>
<td>IKT008I TCAS NOT ACCEPTING LOGONS</td>
</tr>
<tr>
<td>04:10:08</td>
<td>IKT033I TCAS USERMAX VALUE SET TO 5</td>
</tr>
<tr>
<td>04:10:09</td>
<td>IKT007I TCAS ACCEPTING LOGONS</td>
</tr>
<tr>
<td>04:10:10</td>
<td>IKT006I TCAS ENDED</td>
</tr>
<tr>
<td>04:10:10</td>
<td>IEF404I TSO - ENDED - TIME=04.10.10</td>
</tr>
<tr>
<td>04:10:10</td>
<td>$HASP395 TSO ENDED</td>
</tr>
<tr>
<td>10:34:47</td>
<td>IRR8121 PROFILE ** (G) IN THE STARTED CLASS WAS USED TO START TSO WITH JOBNAME TSO.</td>
</tr>
<tr>
<td>10:34:48</td>
<td>$HASP100 TSO ON STCTNDRD</td>
</tr>
<tr>
<td>10:34:52</td>
<td>IEF695I START TSO WITH JOBNAME TSO IS ASSIGNED TO USER TSO</td>
</tr>
<tr>
<td>10:34:52</td>
<td>$HASP373 TSO STARTED</td>
</tr>
<tr>
<td>10:34:52</td>
<td>IEF403I TSO - STARTED - TIME=10.34.52</td>
</tr>
<tr>
<td>10:34:52</td>
<td>IEC141I 013-18,IGG0191B,TSO,TSO,PARMLIB,200E,XPXIO1,SY51.PARMLIB.CUST1</td>
</tr>
<tr>
<td>10:34:52</td>
<td>IKT013I PARAMETER FILE CANNOT BE OPENED - DEFAULT PARAMETERS USED</td>
</tr>
<tr>
<td>10:34:52</td>
<td>IKT007I TCAS ACCEPTING LOGONS</td>
</tr>
<tr>
<td>10:34:52</td>
<td>IKT005I TCAS IS INITIALIZED</td>
</tr>
<tr>
<td></td>
<td>TO SEE YOUR KEY SETTINGS, ENTER 'DISPFK'</td>
</tr>
<tr>
<td></td>
<td>CMD==&gt;</td>
</tr>
</tbody>
</table>

- Messages filtered for Jobname TSO. Some here from archive. Note pink time, upper right
As many filters as you want

- Here we filter on Jobname JES2 **AND** for Descriptor code one in a time range
So – just two Desc code 1 items from JES?

- Results pick up two $HASP623 messages with Desc Code of one.
- Times and dates can be entered in short form, too.
Data with “this” or “that” or “t’other”

- **OR** condition for more than one value

```
Specify Canzlog Filters

From: '05/29/11 04:00:00'  To: '06/06/11 04:00:00'
Tag: MSGID: IEF403I  IEF404I
Jobname: TSO PDSMAN VTAM  Jobid: 
ASID:   ASType: 
Console: Route Code: 
Domain: System ID: 
AutoTok: Desc Code: 
AuthUser: AuthGroup: 
Opid: 
UCHARS: 
CHKey: 
WTOKey: 
Text - case sensitive; faster search:
Text - case insensitive; slower search:
Name:   Remark: 
```

NOT (¬) available, too.
In a flash: relationship between events

Results show all the IEF403I and IEF404I messages for all three jobs during that time frame.
“I use certain filters often” (oh, goody)

<table>
<thead>
<tr>
<th>From:</th>
<th>'06/01/11 00:00:01'</th>
<th>To:</th>
<th>'06/07/11 00:00:01'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tag:</td>
<td>MSGID: AOF571I</td>
<td>ASID:</td>
<td>ASType:</td>
</tr>
<tr>
<td>Jobname:</td>
<td>Jobid:</td>
<td>Console:</td>
<td>Route Code:</td>
</tr>
<tr>
<td>Domain:</td>
<td>System ID:</td>
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<tr>
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<td></td>
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<tr>
<td>CHKey:</td>
<td></td>
<td>WTOKey:</td>
<td></td>
</tr>
</tbody>
</table>

Text - case sensitive; faster search:

Text - case insensitive; slower search:

Name: ALL571I  Remark: ALL AOF571I MSGS FROM 06/01-06/07/11

TO SEE YOUR KEY SETTINGS, ENTER 'DISPFK'
CMD==> SAVE TASK _

- TASK operand means filter available to this oper only.
Your filter combo saved (for a while)

- Result of SAVE: no DSIOPEN operator dataset, so ALL571I filter discarded when operator logs off.
  - Until then, this operator can issue “BR ALL571I”, return to same browse session
  - Alt: BR ALL57II OPERID=AUTO1
    - Gives subset of ALL57II issued by AUTO1
    - Many other filter options
Quickly, subsystem status?

BROWSE ALL5711

Canzlog ALL5711 ALL AO5711 MSGS FROM 06/01-06/07 06/06/11 00:04:33 -- 00:05:35

00:04:33 AO5711 00:04:33 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ACTIVE - ACTIVE MESSAGE RECEIVED
00:04:33 AO5711 00:04:33 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ACTIVE
00:04:33 AO5711 00:04:33 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ABENDING - SUBSYSTEM HAS SUFFERED A RECOVERABLE ERROR
00:04:33 AO5711 00:04:33 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ABEND
00:04:34 AO5711 00:04:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS RESTART - RESTARTING AFTER A RECOVERABLE ERROR
00:04:34 AO5711 00:04:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS START
00:04:34 AO5711 00:04:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS RESTART - STARTUP FOR OSSDSLOG/APL/IP54 IN PROGRESS
00:04:34 AO5711 00:04:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS START
00:05:34 AO5711 00:05:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ACTIVE - ACTIVE MESSAGE RECEIVED
00:05:34 AO5711 00:05:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ABENDING - SUBSYSTEM HAS SUFFERED A RECOVERABLE ERROR
00:05:34 AO5711 00:05:34 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS ABEND
00:05:35 AO5711 00:05:35 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS BROKEN - ABENDED, CRITICAL THRESHOLD EXCEEDED
00:05:35 AO5711 00:05:35 : OSSDSLOG SUBSYSTEM STATUS FOR JOB OSSDSLOG IS BROKE

TO SEE YOUR KEY SETTINGS, ENTER 'DISPFK'

CMD--> _

- Commands like FIND, BACK, TOP respect filter
But, **ALL** my people use these filters...

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<tr>
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<td>Qpid:</td>
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<tr>
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TO SEE YOUR KEY SETTINGS, ENTER 'DISPFK'

CMD ==> SAVE COMMON

**COMMON option means all operators see/use filter.**
Choose from these filters:
LIST CZFILTER

Use directly with BROWSE or with DEFAULTS | OVERRIDE

- Your TASK filters
- All COMMON filters (incl *built in* NETLOG--DOMS)
My named filter isn’t *quite* right…

- No edits of built-in filters
Filter is displayed – change wanted?

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</tr>
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<td>ALL AOF571I MSGS FROM 06/01-06/07/11</td>
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</table>

[Enter] to just USE the altered filter

- Subcommand REPLACE will save changed filter
Where are all those “details” you promised?

CMD==>
Everything you ever wanted to know about the AOF571I message

- **DomTime**: none (no DOM matched by NV)
- **DescCodes**: (6, 7, 13) that you can’t get from SYSLOG.
- **Astype**: S (started task)
- **AuthUser**: AONETV (from ACEE)
Why did the VARY fail?

- Autotoken: SA0# from MPF or MRT
- wtoKey: A1#11000 from WTO issuer or MRT
- CHKEY = AONETV, stepname
  - Why no jobname?

Seen by Auto Table after 12 millisecs (long?)
The 46 Attributes

- **ASID** Address space ID.
- **AStype** Indicates how the address space was started
- **AuthGroup** z/OS ACEE group ID (ACEEGRPN), if available
- **AuthUser** z/OS ACEE user ID (ACEEUSRI), if available
- **AutoTime** Milliseconds between issue and submission to automation
- **AutoToken** z/OS automation token.
- **CHkey** z/OS CHKEY, from IEECHAIN.
- **CzID** Canzlog identifier.
- **DescCodes** z/OS descriptor code.
- **DestConsole** z/OS destination console name.
- **Domain** NetView domain name.
- **DomTime** Seconds between issue and DOM, if applicable.
- **DomToken** A 4-byte token to identify a Delete Operator Msg
- **DOMtype** Type of DOM - token, TCB, ASID or SMID
- **AMRFnRt** AMRF does not retain.
- **Auth** Issuer was authorized.
- **AuthR** NetView authorized receiver message (IFRAUAUT)
- **Copy** NetView copy message (IFRAUCPY).
- **MRT** Exposed to the Message Revision Table (MRT).
- **PPT** NetView PPT message (IFRAUPPT).
- **Pri** NetView primary routing message (IFRAUPRI).
- **Suppr** Suppressed; message not displayed
The 46 attributes (cont’d)

- Sec NetView secondary routing message (IFRAUSEC).
- Transl NetView translated message (IFRAUNLM).
- JobID Identifier assigned by JES, AKA job number.
- JobName z/OS job name.
- MsgTime For some DOMs, the local time of the associated message.
- MsgsMatch For some the number of messages matched by NetView.
- Mtype The NetView program's HDRMTYPE.
- OperID NetView task/operator name.
- ReplyID Reply ID at the start of a WTOR.
- RouteCodes z/OS route codes.
- SmsgID System message ID. For DOMS, multiples.
- SystemID z/OS system ID.
- Audit For audit purposes, such as internal commands.
- Bcast z/OS broadcast to active consoles applies.
- CmdEcho Command echo.
- Del Message was requested to be deleted.
- DOMexp Issuer promised a DOM.
- MVS Logged at the z/OS subsystem interface.
- NV Originated in the NetView program.
- Trace Intended for tracing purposes, such as debug messages.
- TCBaddr Task Control Block (TCB) address.
- Time Associated date and time.
- Uchars User-defined or installation-defined characters.
- WTOkey Key field from the WTO macro, WQEKEY.
This “automatic” Canzlog archive: what is it?

- One primary index data set, a fixed record length and blocked sequential data set that describes the index data sets in the archive. The primary index contains one 80-byte record for each index data set created in the archive.

- Index data sets, fixed record length and blocked sequential data sets containing records describing message data sets in the archive. An index data set contains no more than 4096 80-byte records. Each record describes one message data set.

- Message (data) data sets, fixed record length and blocked sequential data sets containing raw Canzlog data. 8 megs each, readable only within NetView
All your prep for Canzlog Archive: Style Statement “Archive.”

- The statements in this section determine whether this instance of NetView is to save Canzlog data to an archive.
- Provides the necessary information for creating or updating the archive.
- Archiving is done from only one NetView instance per LPAR.
- All subject to RESTYLE except data space count
Few Archive statements really needed...

styleMsg = AOS0000I CNMSTYLE setting Canzlog
ARCHIVE.HLQ = SYS3.SA.C&DOMAIN
ARCHIVE.WRITE = Yes
ARCHIVE.BROWSE.DATASPACES = 2

In this slide we have a comment and three Archive Style sheet statement settings for the CANZLOG function.

The first statement is setting the High level qualifier for the archives.
The second setting is saying yes I want to write out the Canzlog data.
The third setting provides the maximum number of data spaces that the NetView program will use for browsing archived Canzlog data. The default value is 1.
Other Archive statements you should consider

ARCHIVE.MESSAGE.DATACLAS = data_class_name or *NONE*
ARCHIVE.MESSAGE.STORCLAS = storage_class_name or *NONE*
ARCHIVE.MESSAGE.MGMTCLAS = management_class_name
ARCHIVE.MESSAGE.VOLUMES = volser1 volser2 ... volser10
ARCHIVE.MESSAGE.UNIT = unit_name
ARCHIVE.MESSAGE.BLOCKSIZE = nnnnn
ARCHIVE.MESSAGE.SPACE = units primary secondary
ARCHIVE.INDEX.DATACLAS = data_class_name or *NONE*
ARCHIVE.INDEX.STORCLAS = storage_class_name or *NONE*

In our shop, SMS management automatically changed whatever SMS allocation functions I tried like STORCLASS & DATACLASS in the style sheet.
The action of your ARCHIVE statements

Once you add the Archive statements to your CNMSTYLE, use RESTYLE or recycle NetView proc and the following datasets will automatically be allocated:

SYS3.SA.CAsysid.DXyyymmdd.HRhh
SYS3.SA.CAsysid.NV.CANZLOG.INDEX

Note: User selected HLQ shown in green.
Note: date/hour in index name is UTC

These two datasets will have the following attributes:

• Record format . . . : FB
• Record length . . . : 80
• Block size . . . . : 27920 (user selectable)
What happens at NetView Close?

- About 240 to 280 thousand messages unwritten to allow updates
- NetView writes this back-log to the archive only when the NetView that has the archiving duty goes down.

Example:
DSI017I CLOSE COMMAND ACCEPTED
IEF196I IGD101I SMS ALLOCATED TO DDNAME (CANZLOG )
IEF196I DSN (SYS3.SA.CA1P54.CZ110608.T182709 )
IEF196I STORCLAS (SYS1000) MGMTCLAS (MCNACT) DATACLAS (ADDSORG)
IEF196I VOL SER NOS= 5P0S02
IEF196I IGD104I SYS3.SA.CA1P54.CZ110608.T182709 RETAINED,
IEF196I DDNAME=CANZLOG
IEF196I IGD103I SMS ALLOCATED TO DDNAME SYS01062

<1 second
Datasets contain raw Canzlog data. Not readable in TSO. The only way to view the data is from NetView BROWSE or output from REXX/pipe API
What is happening in CANZLOG?

- Command gives information on Canzlog such as: is it active? How many total messages since the IPL, which NetView is archiving, and the date and timestamp the data is available from.
User experience of...

Bank of America

- Questions?