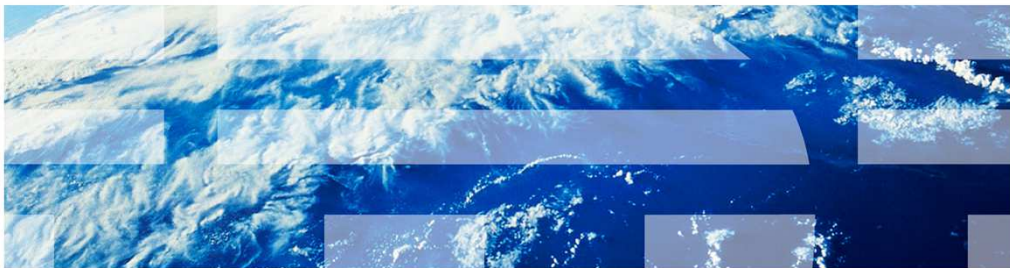

Tivoli Event Pump for z/OS V4.2.2

Enabling the JOBLOG data source



Tivoli® Event Pump for z/OS® V4.2.2, Enabling the JOBLOG data source.

Objectives

When you complete this module, you can enable the JOBLOG data source to capture messages that are written to any output DD statement by any application

When you complete this module, you can enable the JOBLOG data source to capture messages that are written to any output DD statement by any application.

Selecting the job and output DD

Session A - [27 x 132]

Display Filter View Print Options Search Help

SDSF JOB DATA SET DISPLAY - JOB BRL2DSST (STC04239) DATA SET DISPLAYED

COMMAND INPUT ==> SCROLL ==> CSR

PREFIX=BRL* DEST=(ALL) OWNER=* SYSNAME=

NP	DDNAME	StepName	ProcStep	DSID	Owner	C	Dest	Rec-Cnt	Page-Cnt	Byte-Cnt	CC	Rmt	Node	0-Grp-N	SecLabel	PrMod
	JESJCLIN		1		TSUSER	Z		2		127	1					
	JESMSGLG	JES2	2		TSUSER	Z		225	1	16,681	1					
	JESJCL	JES2	3		TSUSER	Z		223		13,926	1					
	JESYSMSG	JES2	4		TSUSER	Z		195		10,142	1					
	\$INTTEXT	JES2	5		TSUSER	A		71		4,460	1					
	RKLVLOG	BRL2DSST	102		TSUSER	X	LOCAL	12,610		1M	1		25	5		LINE
	RKPDLOG	BRL2DSST	104		TSUSER	X	LOCAL	8,833		669,067	1		25	6		LINE

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The first step in implementing the JOBLLOG data source is to identify what to monitor and where to send the output. Identify the job or started task that you want to monitor. Identify the output DD statement where the message you are interested in displays. In this example, BRL2DSST is the started task that you want to monitor, and the RKPDLG output DD is where the message displays.

Identifying the message to capture

```

SDSF OUTPUT DISPLAY BRL2DSST STC04239 DSID 104 LINE CHARS 'KPDMMNT03S' FOUND
COMMAND INPUT ==>
SCROLL ==> CSR
2012/03/20 09:57:56 KPDMMNT03S - Maintenance for Persistent Datastore has not completed after waiting 0:23:59
2012/03/20 09:57:56 KPDMMNT001 - Dataset = TSL2.DS620.BRLV420.RGENHIS3, Started Task = KPDPROC1, Job Name = L26230M
2012/03/20 09:57:56 KPDMMNT03S - Maintenance for Persistent Datastore has not completed after waiting 0:24:00
2012/03/20 09:57:56 KPDMMNT001 - Dataset = TSL2.DS620.BRLV420.RKM5LPR3, Started Task = KPDPROC1, Job Name = L26230M
2012/03/20 09:57:56 KPDMMNT03S - Maintenance for Persistent Datastore has not completed after waiting 0:24:01
2012/03/20 09:57:56 KPDMMNT001 - Dataset = TSL2.DS620.BRLV420.RKDFDSB3, Started Task = KPDPROC1, Job Name = L26230M
2012/03/20 09:57:56 KPDMMNT03S - Maintenance for Persistent Datastore has not completed after waiting 0:24:01
2012/03/20 09:57:56 KPDMMNT001 - Dataset = TSL2.DS620.BRLV420.RKDFDSB3, Started Task = KPDPROC1, Job Name = L26230M
2012/03/20 09:57:56 KPDMMNT03S - Maintenance for Persistent Datastore has not completed after waiting 0:24:01
2012/03/20 09:57:56 KPDMMNT001 - Dataset = TSL2.DS620.BRLV420.RKDFDSB3, Started Task = KPDPROC1, Job Name = L26230M
2012/03/20 10:48:56 KPDMMANE: Persistent DataStore facility terminating.
2012/03/20 10:48:56 KPDIFIL: TSL2.DS620.BRL2PLEX.RKM5PLX3 has been deactivated as the output file for group PLEXDATA.
2012/03/20 10:48:56 KPDIFIL: TSL2.DS620.BRLV420.RPD5GRP1 has been deactivated as the output file for group PDS5GRP.
2012/03/20 10:48:56 KPDIFIL: TSL2.DS620.BRLV420.RGENHIS2 has been deactivated as the output file for group GENHIS2.
2012/03/20 10:48:56 KPDIFIL: TSL2.DS620.BRLV420.RKDFDSB3 has been deactivated as the output file for group RKDFDSB.
2012/03/20 10:48:56 KPDIFIL: TSL2.DS620.BRLV420.RKDFDSB3 has been deactivated as the output file for group RKDFDSB.
2012/03/20 10:48:56 Command: QUERY DATASTORE
2012/03/20 10:48:56 Response:
2012/03/20 10:48:56 Response: DSN
2012/03/20 10:48:56 Response:
2012/03/20 10:48:56 Response:
2012/03/20 10:48:56 Response: TSL2.DS620.BRL2PLEX.RKM5PLX3
2012/03/20 10:48:56 Response: TSL2.DS620.BRL2PLEX.RKM5PLX2

```

Next, you identify the message that you want to monitor for. In this case, it is the KPDMMNT03S message shown here that you configure to trap.

Creating the JOBLOG statement in GTMMON dataset

```
Session A - [27 x 132]
File Edit Edit Settings Menu Utilities Compilers Test Help
EDIT TSL2.EVP422.GTMMON(JOBLOGBL) - 01.06 Columns 00001 00080
Command ==> Scroll ==> CSR
***** Top of Data *****
000001 JOBLOG JOBNAME=BRL2DSST *
000002 DDNAME=RKPDLOG *
000003 JOBTYP=STC *
000004 LAYOUT= . . KPDMT03S*
***** Bottom of Data *****
04/037
Connected to remote server host: rslab1.ibm.ibm.com using tsoipd TCPAC214 and port 23
```

The next step is to create the monitoring and event statements in your GTMMON data set. As shown here, the first member to create is the one that holds the JOBLOG statement. In this example, member JOBLOGBL in the GTMMON data set contains the keywords that identify the name of the job you want to monitor (BRL2DSST). It also contains the output DD name (RKPDLOG), the job type (STC), and the layout of the message that indicates which messages to trap.

Example of a LAYOUT statement

Start matching here

2012/03/20 09:57:56 KPDMNT03S - Maintenance for Persistent Datastore
has not completed after waiting 0:23:59

LAYOUT=' . . KPDMNT03S*'

Skip the date and time
fields and start at the
KPDMNT03S field.
Spaces must separate the
periods.

The top lines show the message as it shows in the RKPLOG output DD. Beneath that is the LAYOUT keyword from the JOBLLOG statement in the GTMMON data set. The leading two periods in the LAYOUT statement indicate that processing should skip the first two fields of the message, the date and time stamps, and start matching against what is displayed beyond them. So, in this case, you want to match KPDMNT03S. There must be a space between the two periods on the LAYOUT statement.

Creating the user-defined event

```
Session A - [27 x 132]
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT TSL2.EVP422.GTMMON(JOBLOGZE) - 01.07 Columns 00001 00080
Command ==> Scroll ==> CSR
***** Top of Data *****
000001 ZEVENT KPD MNT03S*
000002 MASK %S*
000003 EVENTID KPD MNT03S
000004 RESOURCE BRL2DSST
000005 RESOURCE_TYPE STC
000006 SEVERITY WARNING
000007 TYPE JES
000008 MESSAGE_TEXT
***** Bottom of Data *****
04/037
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```

Next, you create another member that contains your user-defined event to pass to the OMNibus server for display in the Event List. Here you can see the statements necessary for that task. You can see that the message ID is used for the Event ID. For this sample, the severity of the event is set to warning. The TYPE, JES, is required for the JOBLOG data source.

Creating the registration statements

```

EDIT      TSL2.EVP422.GTMCONFG(REGDATA) - 01.21      Columns 00001 00080
Command ==>                                         Scroll ==> CSR
000052 *****
000053 *      JOBLOG DATA SOURCE
000054 *****
000055 GROUP JOBLOG
000056 SOURCE TYPE=JOBLOG CONFIG=JOBLOGBL DEBUG=NO
000057 MONITOR TYPE=TEST2 CONFIG=JOBLOGZE
000058 GROUP END
000059 *****
000060 *      SMS data feed
000061 *****
000062 GROUP STORAGE
000063 MONITOR TYPE=STORAGE ID=SMS CONFIG=ISMSPARM
000064 SMS      TYPE=DEFAULT EXCP=DPE CONFIG=DPEDEFLT DKDV=1
000065 SMS      TYPE=DEFAULT EXCP=CPE CONFIG=CPEDEFLT DKDV=1
000066 SMS      TYPE=DEFAULT EXCP=DSE CONFIG=DSEDEFLT
000067          DKVL=PRI200, PRI201, PRI202, PRI203
000068 GROUP END
000069 *****
000070 **      Generic job trap      **
000071 *****
000072 GROUP GENJOB
000073 JOB MSG=IEF450I NAME=BRL2DSST TYPE=STC RETURNRTYPE=STC

```

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Enabling the JOBLOG data source

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Now for the Event Pump to register the data feed, you must add several registration statements in the REGDATA member in the GTMINPUT data set. You can see that two statements are required. The first is the SOURCE statement. The second is the MONITOR statement. Both statements point to the configuration members that you created in the previous slides in the GTMMON data set.

Verifying the validity of the MONITOR statement

```

Session A - [27 x 112]
-----
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY BRLPMP5G STC04387 DSID 101 LINE CHARS 'BRL2DSST' FOUND
COMMAND INPUT ==> SCROLL ==> CSR
-----
GTM30501 Monitoring started for monitor TEST2 Count=1 User=0 JOBNAME= RC=0
GTM30501 Monitoring started for monitor STORAGE Count=61 User=0 JOBNAME= RC=0
GTM30501 Monitoring started for monitor DB2 Count=6 User=0 JOBNAME=CICSL231
GTM30501 Monitoring started for monitor DB2 Count=156 User=0 JOBNAME= RC=0
GTM30501 Monitoring started for monitor RMF STRES=50
-----02\20\020S\040000120006\470N\30GTMAOPG5\31, SYS, MVS_IMAGE , ,G 8D0620\32GTMAOPG6\33GT, 0\34100\350\36HACTUSRS"
-----02\20\020S\040000120006\470N\30GTMAOPG5\31, SYS, MVS_IMAGE
-----02\20\020S\040000120006\470N\30GTMAOPG5\31, SYS, MVS_IMAGE
-----02\20\020S\040000120006\470N\30GTMAOPG5\31, SYS, MVS_IMAGE
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CSR , ,
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CSR , ,
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CENTRA
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CENTRA
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CENTRA
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CENTRAL_STORAGE , ,G 8D0370\32GTMAOPG6\33GT, 0\34100\350\36HCSUIC"
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * CENTRAL_STORAGE , ,G 8D1260\32GTMAOPG6\33GT, 1\34100\350\36HCSUIC"
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * I/O_SUBSYSTEM , ,G 8D0680\32GTMAOPG6\33LT, 100\34100\350\36HDELIO"
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * I/O_SUBSYSTEM , ,G 8D0700\32GTMAOPG6\33LT, 100\34100\350\36HDELIOBS"
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * I/O_SUBSYSTEM , ,G 8D0E90\32GTMAOPG6\33GT, 1\34100\350\36HIOACT"
-----02\20\020S\040000120006\470N\30GTMAOPG5\31SYS, * I/O_SUBSYSTEM , ,G 8D04B0\32GTMAOPG6\33GT, 0\34100\350\36HIOUSJOBS"
-----
04/021

```

After you create the necessary monitoring and registration statements, when you start the Event Pump address space, the message is highlighted in the APOUT sysout DD display. This message indicates that it successfully read the MONITOR statement. Look for the phrase "read without error."

Verifying the validity of the SOURCE statement

```

Session A - [27 x 132]
File Edit View Communication Actions Window Help
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY BRPMPG STC04387 DSID 101 LINE CHARS 'JOBLOG' FOUND
JOBLOG START
GPZ57101 JOBLOG did not find active job in compliance with specified criteria for BRL2DSST.RKPDLOG SPOOL DD
GPZ57151 Monitoring started for source JOBLOG, Count=1, RC=0
-----
02\05\02STC\03GTMSRVR\040000000001\45Z\481EF4031"
-----02\05\02STC\03GTMPUMP\040000000001\45Z\481EF4031"
-----02\05\02STC\03GTNDSPC\040000000001\45Z\481EF4031"
-----02\05\02STC\03GTMSRVR\040000000001\45Z\481EF4031"
-----02\05\02STC\03GTMPUMP\040000000001\45Z\481EF4031"
GPZBINIT debug
SSID:D8A1
SSID:D81D
SSID:D81X
SSID:D91J
SSID:D91R
SSID:D91S
SSID:D92A
0 Exclude filters
DBA1MSTR
DBA1DBM1
DBA1IRLM
DBA1DIST
SQLCODE = -104
-----
05/010

```

Indication that the SOURCE statement was OK (RC = 0) and that the job was not active at the time the Event Pump was started

You can see one or two more messages further on the AOPOUT sysout DD.

The first message indicates that the JOBLOG statement was processed.

The second message indicates whether the job you wanted to be monitored was found active when the Event Pump started.

Verifying the event was generated

```

Session A - [27 x 132]
File Edit View Communication Actions Window Help
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY BRLPMSG STC04387 DSID 103 LINE 10,571 COLUMNS 02- 133
COMMAND INPUT ===== SCROLL ===== CSR
11:55:39.55 EIF0201 : ITZP EVENT RECORD FOLLOWS
11:55:39.55 FORMAT=30 ACTION=03
11:55:39.55 00=2012032011:55:39.550736
11:55:39.55 01=SYS475
11:55:39.55 10=SYS
11:55:39.55 11=USCAC001.CCCDRM25
11:55:39.55 12=LPRR400J
11:55:39.55 13=BRL2DSST
11:55:39.55 14=STC
11:55:39.55 15=KPD MNT03S
11:55:39.55 16=- Maintenance for Persistent Datastore has not
11:55:39.55 completed after waiting 1:03:00
11:55:39.55 17=KPD MNT03S - Maintenance for Persistent Datastor
11:55:39.55 e has not completed after waiting 1:03:00
11:55:39.55 18=KPD MNT03S
11:55:39.55 19=2
11:55:39.55 21=BRL2DSST
11:55:39.55 22=STC
11:55:39.55 EIF0202 : END OF ITZP EVENT RECORD
11:55:39.55 EIF0204 : SELECTED BY SELECT 002 TEC=YES TBSM=NO
11:55:39.55 EIF0301 : TEC EVENT DATA FOLLOWS TBSM
11:55:39.55 TBSMV3_SOURCE390;source=USCAC001.CCCDRM25;name_val1TBSM
04/021

```

After the message is generated to the output DD being monitored, the Event Pump traps it, format the event as show, and sends it to the EIF probe for processing, and sends it to OMNibus. For the event to display in the AOPEDLOG output DD as shown, you must code EIF_LOG=YES in the Event Pump initialization parameters in your AOPSYSIN data set.

Viewing the event in Omnibus

Netcool/OMNibus Event List : Filter="All Events", View="Default"

File Edit View Alerts Tools Help

All Events Default Top [OFF]

Node	Alert Group	Summary	Last Occurrence	Count
IBM-859920A1FBC	Windows Event List	A NT Event List@09188346 process running on IBM-859920A1FBC has connected as usernam...	3/21/2012 9:49:19 ...	1
IBM-859920A1FBC	Windows Event List	A NT Event List@09188346 process running on IBM-859920A1FBC has connected as usernam...	3/21/2012 9:49:17 ...	1
USCACC01.CCCDR...	TBSMV3_SOURCE390	KDS91421 The TEMS BRLV420.CMS is disconnected from the hub TEMS ip.pipe:#9.27.131.70...	3/21/2012 9:48:06 ...	7
IBM-859920A1FBC	Windows Event List	A NT Event List@09188346 process running on IBM-859920A1FBC has connected as usernam...	3/21/2012 9:17:43 ...	1
IBM-859920A1FBC	Windows Event List	A NT Event List@09188346 process running on IBM-859920A1FBC has connected as usernam...	3/21/2012 9:17:40 ...	1
Primary:IBM-859920...	ITM_NT_Monitored_Logs...	NT_Log_Space_Low(% Usage)>=95) ON Primary:IBM-859920A1FBC:NT ON Application (% Us...	3/21/2012 7:38:38 ...	1
Primary:IBM-859920...	ITM_NT_Monitored_Logs...	NT_Log_Space_Low(% Usage)>=95) ON Primary:IBM-859920A1FBC:NT ON Security (% Usag...	3/21/2012 7:38:38 ...	1
Primary:IBM-859920...	ITM_NT_Monitored_Logs...	NT_Log_Space_Low(% Usage)>=95) ON Primary:IBM-859920A1FBC:NT ON System (% Usage...	3/21/2012 7:38:38 ...	1
Primary:IBM-859920...	ITM_NT_Objects	BRL_Number_Processes_Crit((Processes<300) ON Primary:IBM-859920A1FBC:NT (Processes=...	3/21/2012 7:38:38 ...	1
USCACC01.CCCDR...	TBSMV3_SOURCE390	KPDMNT035 - Maintenance for Persistent Datastore has not completed after waiting 1:03:00	3/20/2012 11:53:10...	5
LPAR4001:MVS:SY...	ITM Susplex DASD Group	KM5 No Susplex DASD Filter Warn(Volume Serial Number="snoes" GROUP Managed Sv...	3/20/2012 10:50:32...	1

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Here you see the result of the process, with the event surfaced in the Event List in OMNibus.

Summary

Now that you completed this module, you can enable the JOBLOG data source to capture messages that are written to any output DD statement by any application

Now that you completed this module, you can enable the JOBLOG data source to capture messages that are written to any output DD statement by any application.

The example in this module uses a message from the Tivoli Monitoring address space.

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