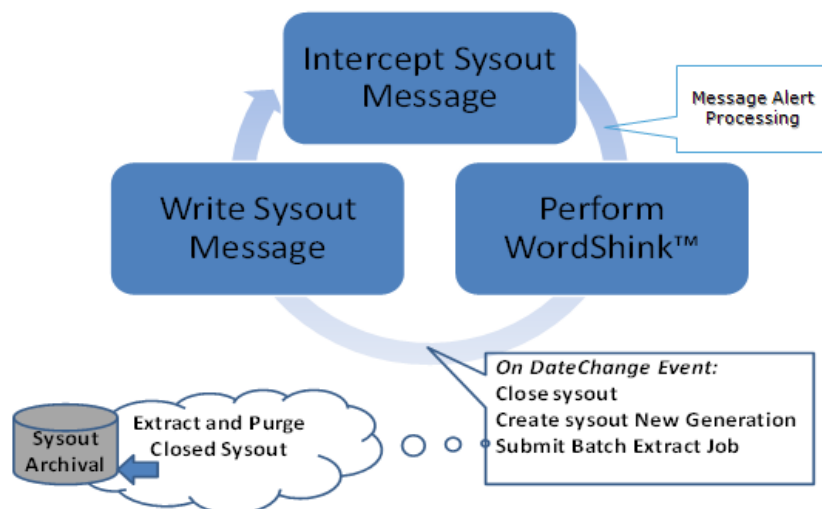


SysQManager

for CICS®

Sysout TDQ Generation Management

Dynamically create and manage CICS extrapartition Sysout Transient Data Queues



To meet the demand for non-stop CICS processing of mission critical applications, organizations often keep CICS regions running for days, weeks, or even months at a time. This can lead to excessive, undesired growth in CICS Sysout Transient Data Message Queues. In some cases, the extrapartition queue CSSL (MSGUSR) has been known to expand beyond its maximum resource size, resulting in an actual CICS outage.

SysQManager solves that problem. With its dynamic Sysout generation control process, the potential for TDQ overflow is completely eliminated.

```

SysQManager™ CICS Sysout Directory
with generation queues

SDSF JOB DATA SET DISPLAY - JOB CICSA (STC05502)
COMMAND INPUT ==>
PREFIX=CICS* DEST=(ALL) OWNER=* SYSNAME=
NP DDNAME StepName ProcStep DSID Owner C Dest
CEEMSG CICSA 106 CICSA W
CEEOUT CICSA 107 CICSA W
COUT CICSA 117 CICSA W
PLIMSG CICSA 118 CICSA W
CRPO CICSA 119 CICSA W
HBAUDIT CICSA 120 CICSA W
HBEVENT CICSA 121 CICSA W
HBSTART CICSA 122 CICSA W
HBERROR CICSA 123 CICSA W
ZMSGLOG CICSA 124 CICSA W
➔ ZMSG0628 CICSA 125 CICSA K LOCAL
ZMSG0629 CICSA 126 CICSA K LOCAL
ZMSG0701 CICSA 127 CICSA K LOCAL
ZMSG0703 CICSA 128 CICSA K LOCAL
ZMSG0704 CICSA 129 CICSA K LOCAL
ZMSG0706 CICSA 130 CICSA K LOCAL
ZMSG0707 CICSA 131 CICSA K

```

(sample CICS sysout)

Each target TDQ controlled by **SysQManager** is limited in growth by a dynamic process that separates the target queue into one or more generation queues.

For each generation created, a unique 'ddname' is assigned, which allows easy viewing, automated JES spinoff, and extraction into any data format.

Dynamic creation of a new generation automatically occurs on a change in date, a message line threshold, or manual intervention.

SysQManager provides automated management of any CICS sysout Transient Data Queue.

SysQManager™ Primary Features:

- Ideally suited for 24x7 non-stop CICS processing
- Eliminates excessive growth build-up found in common CICS Transient Data queues (*msgusr, ceemsg, etc.*)
- Dynamically divides a Transient Data Queue into separate message queues identified by date or generation number
- No changes to existing applications, outside Vendor Software, or in-house exits
- Easy to install

For installations that limit viewing of CICS SYSOUT, VSAM Shadow files can be defined for **SysQManager** mirror logging of each message line. These files can then be used by others to view and extract TDQ messages without accessing CICS SYSOUT.

```
SysQManager™ CICS Sysout MSGUSR  
with WordShrink™
```

```
SDSF OUTPUT DISPLAY CICS STC04080 DSID 125 LINE 20 COLUMNS 02- 133  
COMMAND INPUT ==> SCROLL ==> CSR  
FC0200 041710 213012 CICS Non-RLS:ZSHADOWA allocated - DSN:DOCSTS.ZMSGUSR.ZSHADOWA.CICSA.  
LD0555 041710 213018 CICS Current LIBRARY search order follows.  
LD0556 041710 213018 CICS Position in search order: 1, LIBRARY: DFHRPL.  
LD0556 041710 213018 CICS Position in search order: 2, LIBRARY: HOSTBRDG.  
SO0107 041710 213018 CICS TCP/IPSERVICE HBRHTTP has been opened on port 06131 at IP address 172.  
SO0107 041710 213018 CICS TCP/IPSERVICE HBXNSSL has been opened on port 06132 at IP address 172.  
SO0107 041710 213018 CICS TCP/IPSERVICE HBXNSSL has been opened on port 06133 at IP address 172.  
ZC6935 041710 213244 CICS Autoinstall (Term:0003 Net:TCP00003 Model:DFHLU2E5) successful.  
PG0209 041710 213244 CICS 0003 EARL001 CESN PPT DFHSNLEM has been autoinstalled using model DFH  
SN1100 041710 213250 CICS Signon Net:TCP00003 User:EARL001 Group:GROUP1 complete.  
SN1200 041710 213838 CICS Signoff Net:TCP00003 User:EARL001 complete. 4 transactions entered.  
ZC6966 041710 213838 CICS AutoDelete (Term:0003 Net:TCP00003) successful.  
ZC6935 041710 214219 CICS Autoinstall (Term:0004 Net:TCP00004 Model:DFHLU2E5) successful.  
SN1100 041710 214225 CICS Signon Net:TCP00004 User:EARL001 Group:GROUP1 complete.  
ZM$9999 041710 214714 CICS Last message this TDQ generation - View next generation for more
```

An optional *WordShrink™* feature can strip unnecessary characters, words, and lines from the CSSL (MSGUSR) queue, resulting in an average savings of 30% - 90% in message queue size.

(sample CSSL MSGUSR messages in generation queue with optional WordShrink™)

SysQManager can also be used in defense against message flooding caused by repeated sysout TDQ messages during a runaway loop condition. When this condition is detected, **SysQManager** will notify the System Console and continuously flush the repeated messages until a possible intervention resolves the runaway.

SysQManager provides a variety of options to control creating and managing CICS sysout extrapartition TDQs.

SysQManager™ *System Control Options:*

- *WordShrink™* technology for data size reduction of *msaur*
- Message exclusion by message-id masking
- New Generation create upon message date-change, max lines threshold, or manual request
- Automated Job Submit to perform message Queue extract
- *Vsam* Message Shadow logging
- Message *floodlevel* detection
- Dynamic Delivery of *eMail* Alerts on critical messages

Any TDQ defined as an extrapartition sysout can be managed by **SysQManager**, including CSSL (MSGUSR), CESE (CEEMSG), CCSO (COUT) and CESO (CEEOUT).

SysQManager can monitor sysout messages by setting text strings as a trigger for automated Alert detection.

The message is emailed to designated users for corrective action.

```

SysQManagertm      CICS SysQManager Log
SDSF OUTPUT DISPLAY CICSA      STC03490  DSID   124 LINE 0      COLUMNS 02-133
COMMAND INPUT ==>|           SCROLL ==> CSR
***** TOP OF DATA *****
SQMSL000 061411 183634 CICSA  STSQMANAGER(tm) v1.0 07012011 Copyright(c) 2009-2011 Document Systems Inc.
SQMSL001 061411 183634 CICSA  Dynamic TDQ Management started
SQMS0001 061411 183634 CICSA  TargetQ(ZSSU)CREATED:ZMSG0614 Generation:0001 SysoutClass:H WordShrink:ON (option:2)
SQMS0003 061411 183634 CICSA  Message Shadowing DD:ZMSG0614 Generation:0001 is now logging to SQMSHADA
SQMS0002 061411 183634 CICSA  LICENSE KEY FOR CPU 03FEDC2086 IS VALID UNTIL 06/02/2012
SQMS8102 061411 183634 CICSA  ** MESSAGE ALERT ** job submitted for DD:ZMSG0614 (generation 0001) Alert:ERROR
SQMS8100 061411 183634 CICSA  ** MESSAGE ALERT ** job submitted for DD:ZMSG0614 (generation 0001) Alert:INVALID
SQMS1776 061511 183253 CICSA  DateChange monitor has started New Generation process for triggerQ(CSSL)
SQMS8000 061511 183253 CICSA  TargetQ(ZSSU)CLOSED::ZMSG0614 Generation:0001
SQMS8001 061511 183253 CICSA  Message Shadowing DD:ZMSG0614 Generation:0001 logging stopped SQMSHADA
SQMS8002 061511 183253 CICSA  TDQ Statistics: LinesIn 000002997 LinesOut 000000031 BytesIn 0000228279 BytesOut 0000002564
SQMS8003 061511 183253 CICSA  Shadow Stats::: LinesIn 000002997 LinesOut 000000031 BytesIn 0000228279 BytesOut 0000003742
SQMS8100 061511 183253 CICSA  Data TDQueue extract job submitted for DD ZMSG0614 (generation 0001)
SQMS0001 061511 183253 CICSA  TargetQ(ZSSU)CREATED:ZMSG0615 Generation:0002 SysoutClass:H WordShrink:ON (option:2)
SQMS0003 061511 183253 CICSA  Message Shadowing DD:ZMSG0615 Generation:0002 is now logging to SQMSHADB
SQMS0002 061511 183253 CICSA  LICENSE KEY FOR CPU 03FEDC2086 IS VALID UNTIL 06/02/2012
  
```

(sample SysQManager Log reflecting Message Alerts)

SysQManager performs the following without recycling CICS and with no JCL changes required in the running CICS region:

- Create a new TDQ sysout generation
- Extract the previous days TDQ sysout into an archival dataset
- Purge the previous days TDQ sysout from the CICS region

```

Display Filter View Print Options Help
-----
SDSF JOB DATA SET DISPLAY - JOB CICSA      (STC09556)
COMMAND INPUT ==>
PREFIX=CICSA*  DEST=(ALL)  OWNER=*  SISNAME=
NP  DDNAME  StepName ProcStep DSID Owner      C Dest
   HBERROR  CICSA           123 CICSA    W
   ZMSGLOG  CICSA           124 CICSA    W
   ZMSG0223 CICSA           129 CICSA    H
  
```

```

.  Menu Options View Utilities Compilers Help
.  -----
.  DLIST - Data Sets Matching CICSA                      Row 1 of 9
.  Command ==>                                         Scroll ==> CSR
.
.  Command - Enter "/" to select action                Message                Volume
.  -----
.  CICS.A.ZMSG0214.G0014                                VVWRKC
.  CICS.A.ZMSG0215.G0015                                VVWRKN
.  CICS.A.ZMSG0216.G0016                                VVWRKD
.  CICS.A.ZMSG0217.G0017                                VVWRKD
.  CICS.A.ZMSG0218.G0018                                VVWRKT
.  CICS.A.ZMSG0219.G0019                                VVWRKI
.  CICS.A.ZMSG0220.G0020                                VVWRKT
.  CICS.A.ZMSG0221.G0021                                VVWRKT
.  CICS.A.ZMSG0222.G0022                                VVWRKQ
.  ***** End of Data Set list *****
  
```

For more information or to request a free, 45-day trial of **SysQManager**, contact DSI at info@dsisolutions.com or by telephone at 888-774-3509.

