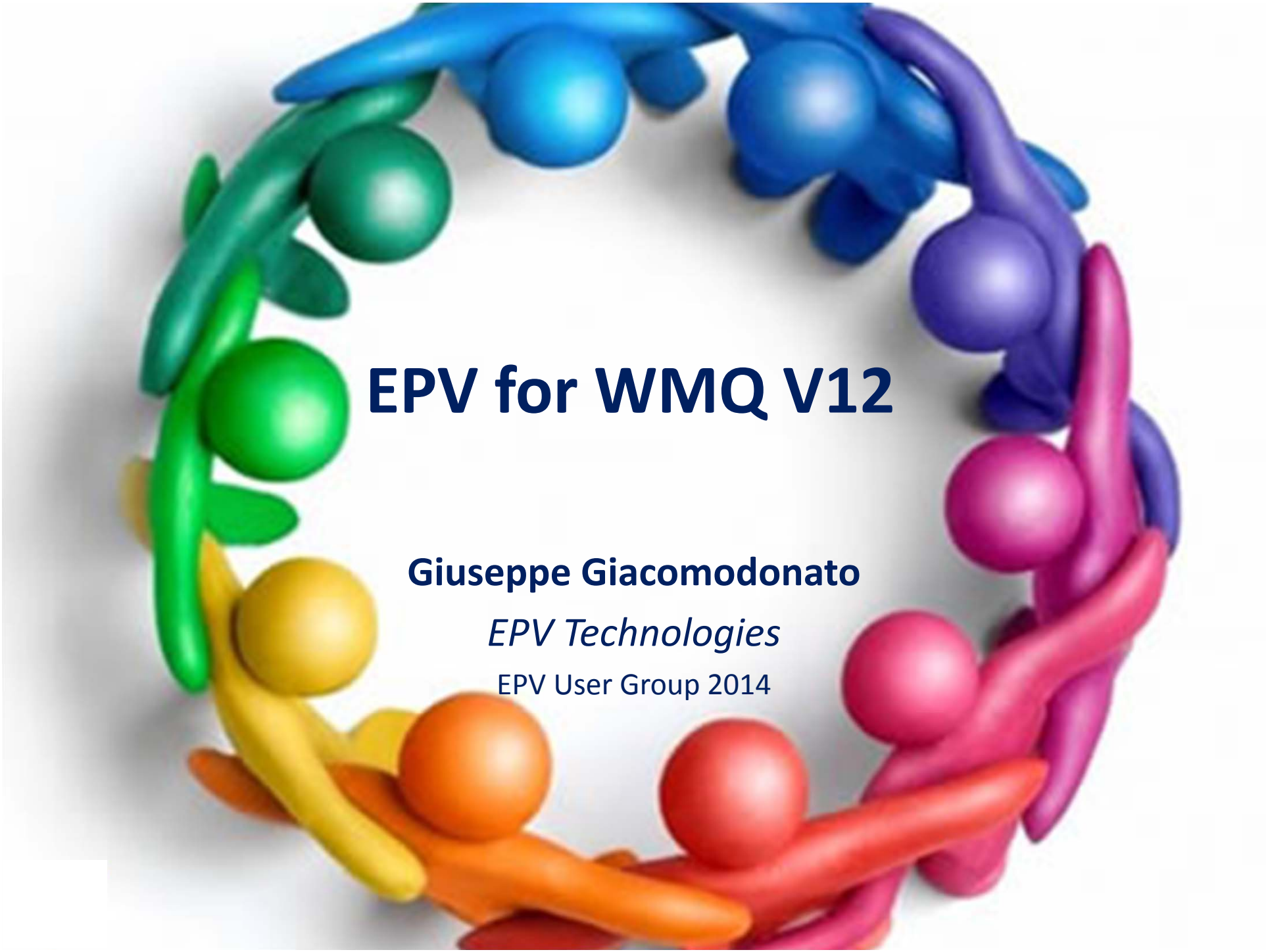

EPV for WMQ V12

Giuseppe Giacomodonato

EPV Technologies

EPV User Group 2014

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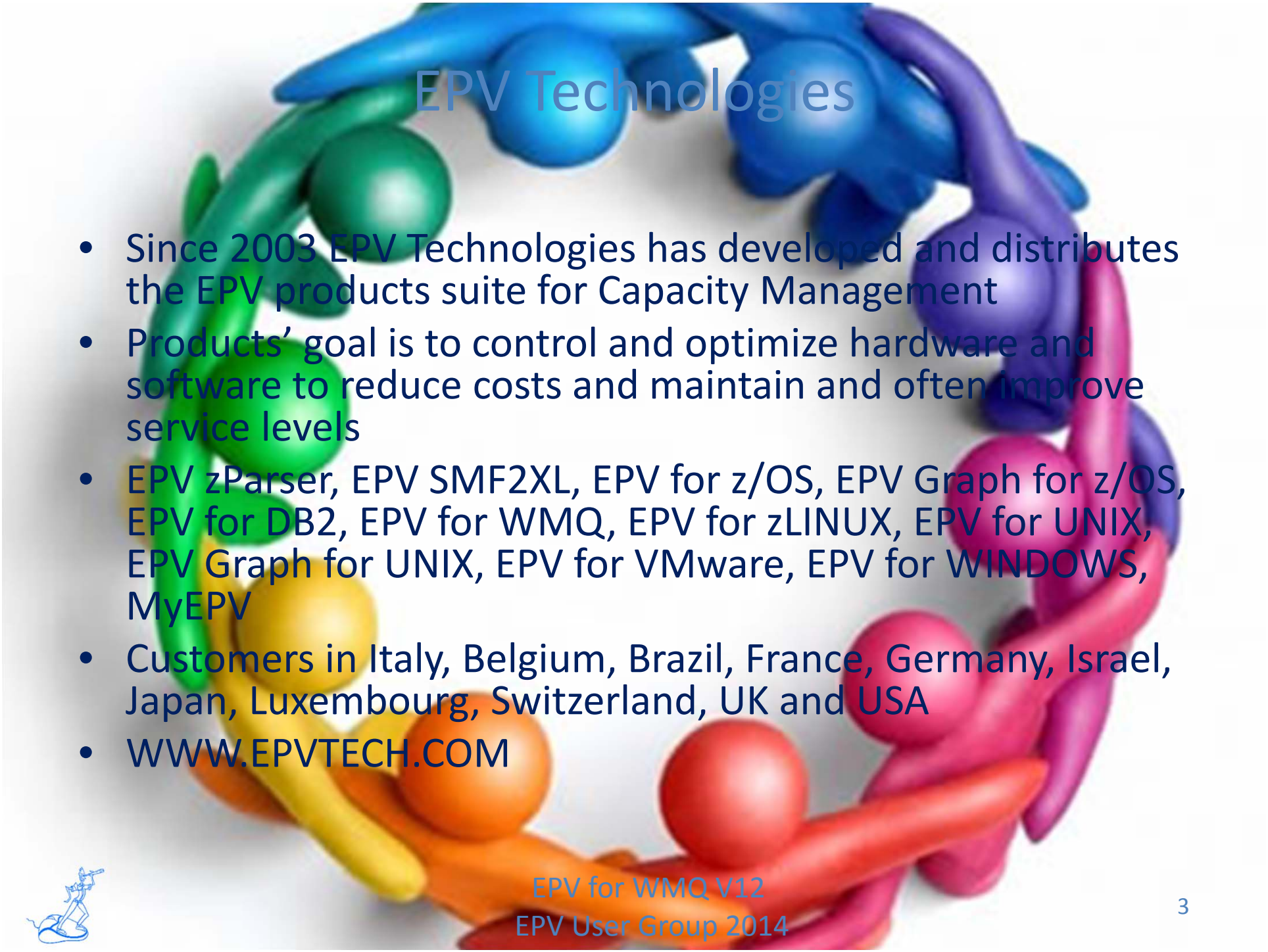

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- Products' goal is to control and optimize hardware and software to reduce costs and maintain and often improve service levels
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- WWW.EPVTECH.COM

Agenda

- Input data
- EPV for WMQ Highlights
- Conclusions

Input data

- SMF 30 interval for WMQ AS
- RMF 70 for CPC configuration
- RMF 74(4) for Coupling Facility Structure
- SMF 115 WMQ statistical record
- SMF 116 WMQ accounting record
- One JCL per WMQ subsystem to run everyday

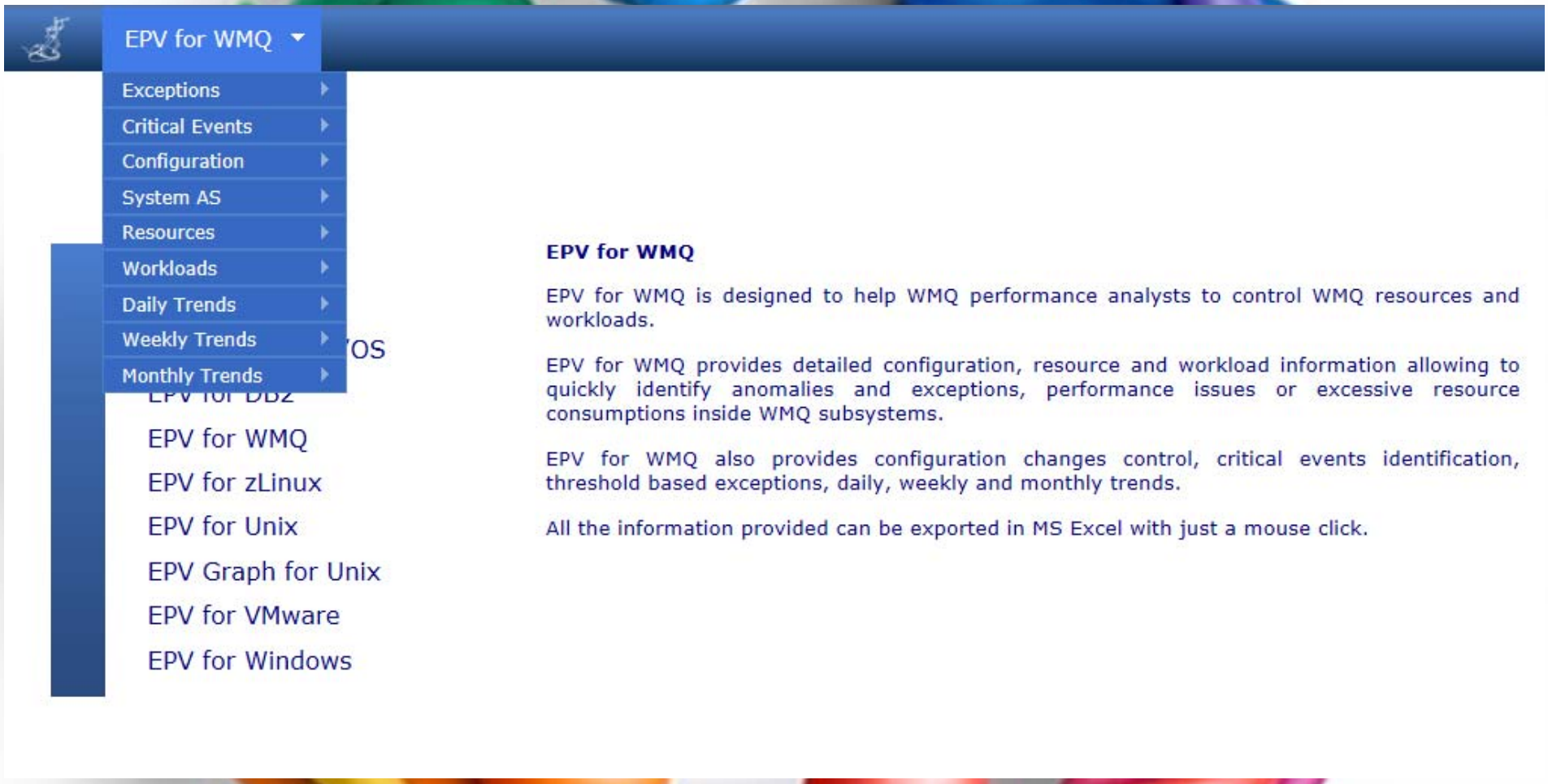
Input data - 115

- Collected by setting SMFSTAT=YES in CSQ6SYSP macro
- Class 1 statistics trace creates two SMF 115 records:
  - subtype 1 record with log and storage manager statistics;
  - subtype 2 record with message, data, buffer , lock and CF manager statistics
- Negligible CPU cost

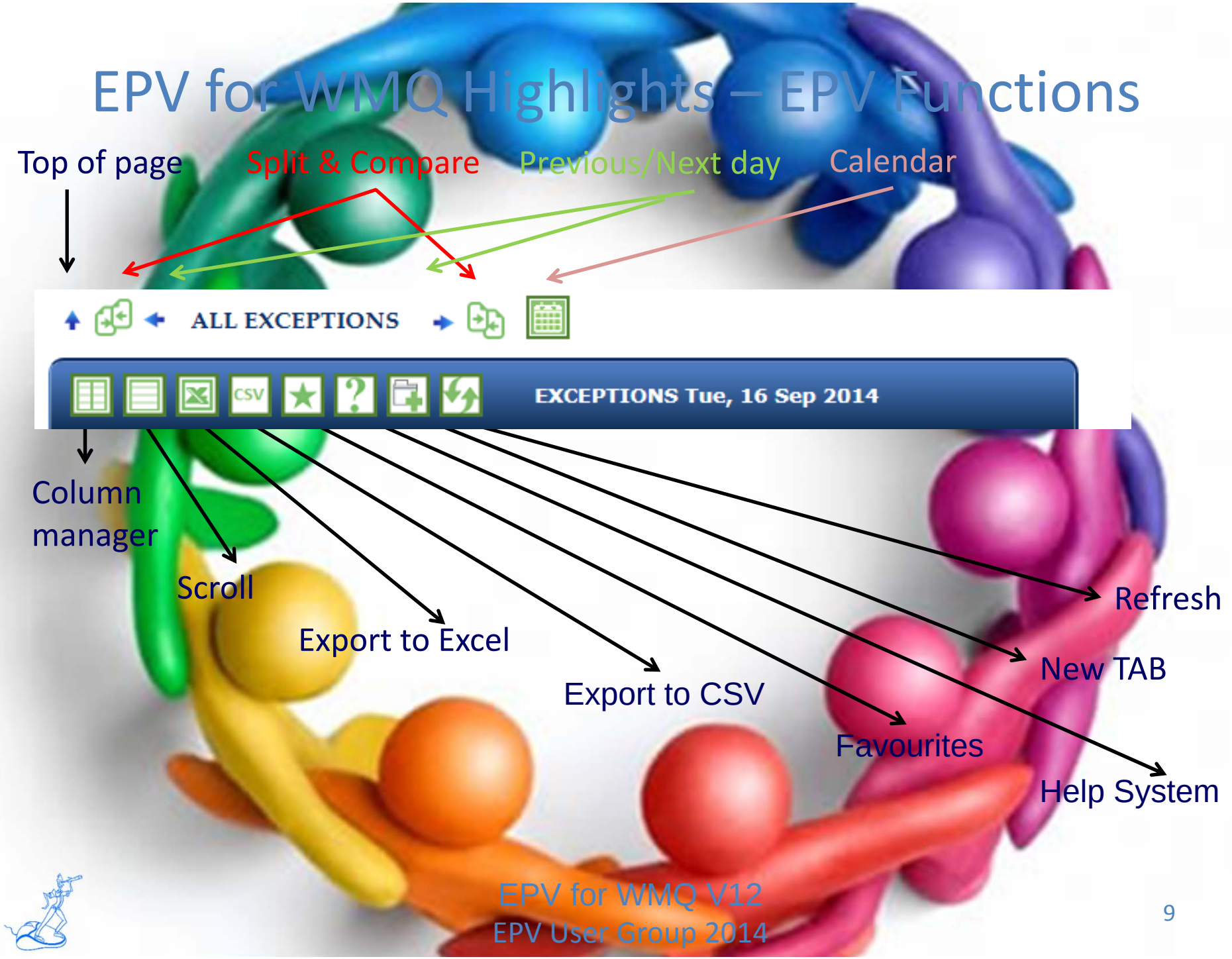
Input data – 116

- Collected by setting SMFACCT=YES in CSQ6SYSP macro
- Class 1 accounting trace creates one SMF 116 subtype 0 record at thread termination
- Class 3 more detailed information about threads and queues
  - creates one subtype 1 and one or more subtype 2 records at thread termination
- Class 1 CPU overhead is 2-3% range
- Class 3 CPU overhead is 5-10% range

EPV for WMQ Highlights - Menu



EPV for WMQ Highlights – EPV Functions



EPV for WMQ Highlights – Exceptions

WMQ EXCEPTIONS - DATE : 16SEP14

ALL EXCEPTIONS | SYSTEM EXCEPTIONS | WMQ SUBSYS EXCEPTIONS

ALL EXCEPTIONS

EXCEPTIONS Tue, 16 Sep 2014

AREA	MESSAGE	FREQ	OP	THRESHOLD	ALERT	SCOPE
ALLWMQ	LOG BUFFER PAGED IN	85	GT	0,0	LOGBUPA	1
ALLWMQ	CHECKPOINTS DUE TO LOGLOAD VALUE REACHED	23	GT	10,0	CPLOGLO	1
ALLWMQ	LOG BUFFER WAITS	20	GT	0,0	LOGBUWA	1
ALLWMQ	BUFFER POOL HIT RATIO	4	LT	80,0%	BPHIRA	1
ALLWMQ	BP SYNCHRONOUS WRITE PROCESSOR STARTED	1	GT	0,0	SYNDMCT	1

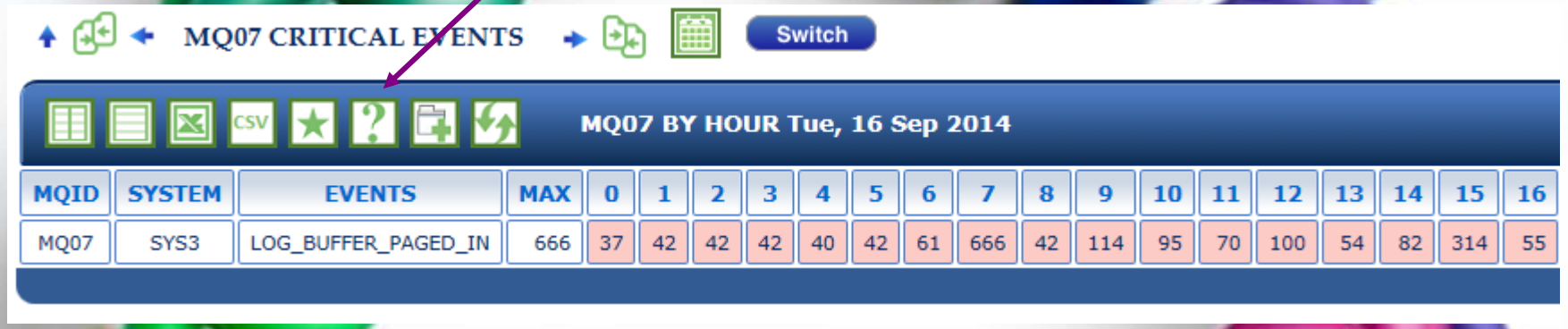
EPV for WMQ Highlights – Critical Events

CRITICAL EVENTS OVERVIEW

CRITICAL EVENTS BY HOUR Tue, 16 Sep 2014

MQID	SYSTEM	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MQ01	SYS1	20	9	10	10	10	9	9	11	20	12	14	15	12	13	12	12	12	13	12	9	11	11	10	3	6
MQ02	SYS1	76	9	1	4	1	9	1	5	43	30	34	41	39	37	18	16	18	9	24	76	42	1	0	0	0
MQ03	SYS2	14	0	0	0	0	0	0	0	1	0	14	10	2	1	1	2	2	1	7	5	0	1	0	0	0
MQ04	SYS2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MQ06	SYS2	1	0	1	0	0	0	0	1	1	0	1	1	0	1	1	0	1	1	0	1	0	1	0	0	0
MQ05	SYS3	31	0	0	0	0	0	0	11	1	0	6	19	9	19	0	29	3	31	19	0	1	0	2	0	1
MQ07	SYS3	666	37	42	42	42	40	42	61	666	42	114	95	70	100	54	82	314	55	231	43	42	37	67	44	43
MQ08	SYS3	8	4	5	5	5	5	5	8	4	5	5	6	5	5	3	5	5	5	5	6	5	3	6	6	5
MQ09	SYS3	9	6	6	7	6	5	6	9	5	6	7	6	5	6	6	7	6	7	6	7	5	5	7	7	7

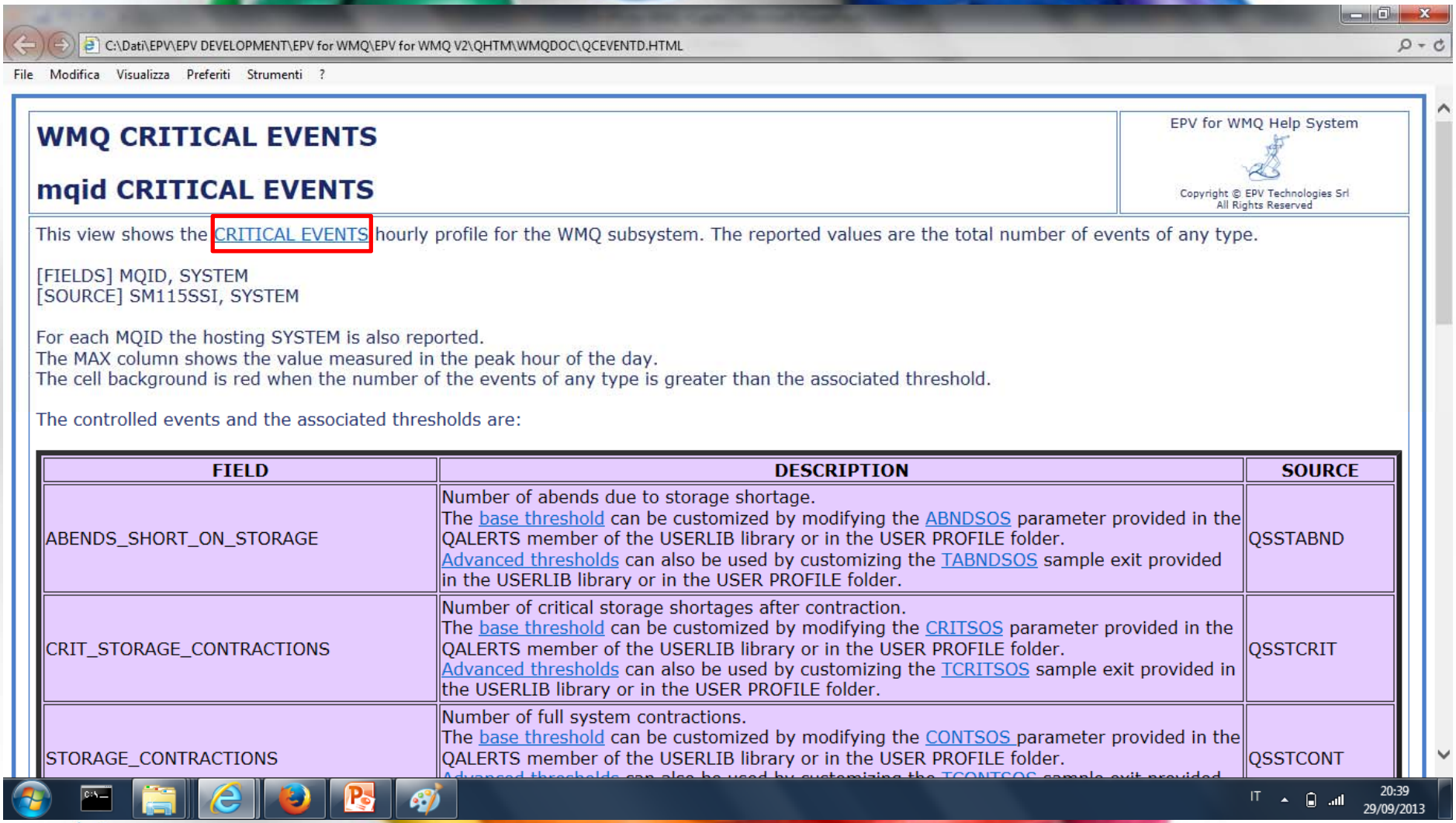
EPV for WMQ Highlights – Critical Events



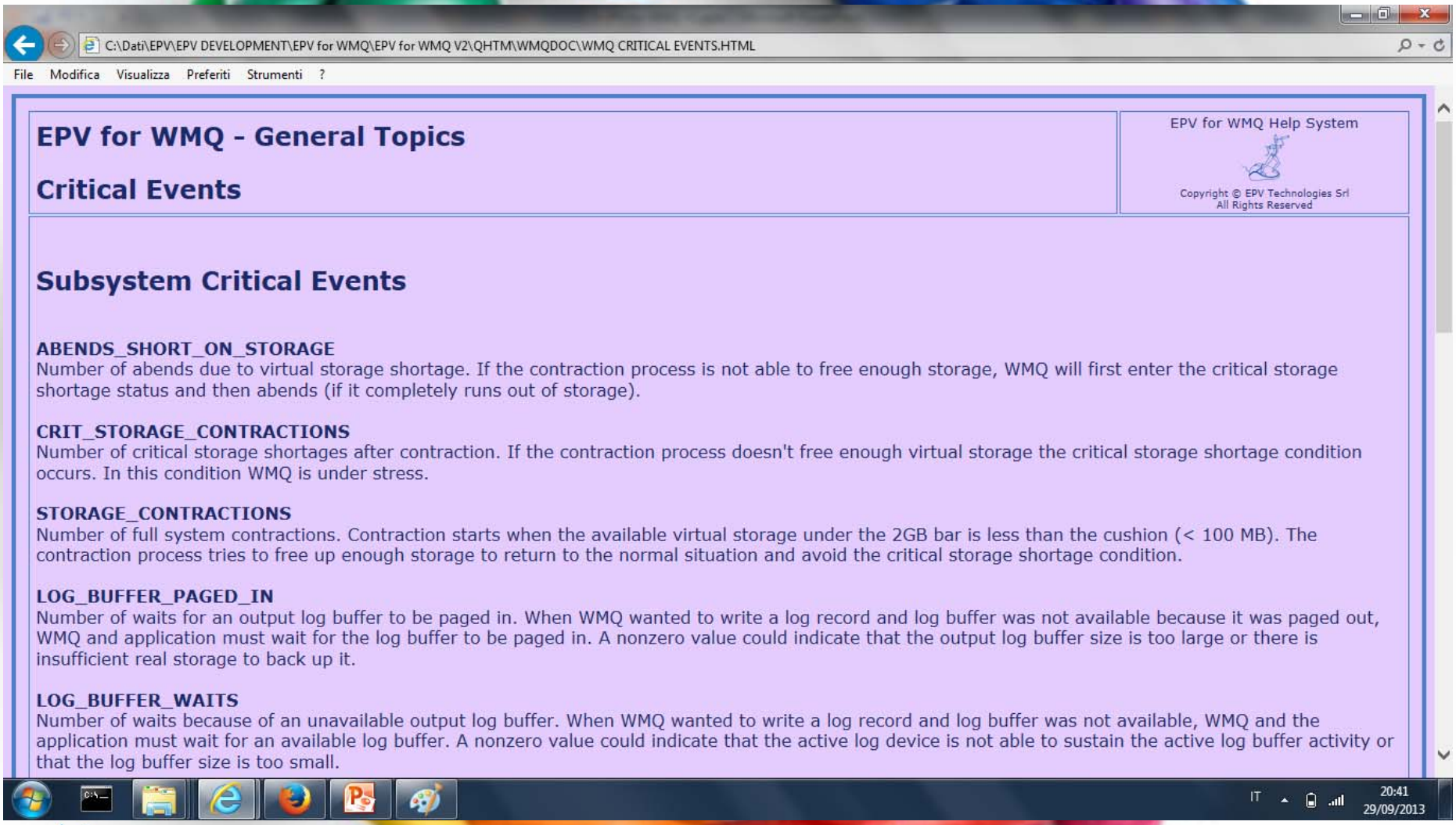
MQID	SYSTEM	EVENTS	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MQ07	SYS3	LOG_BUFFER_PAGED_IN	666	37	42	42	42	40	42	61	666	42	114	95	70	100	54	82	314	55

Switch feature available in all system/subsytem pages

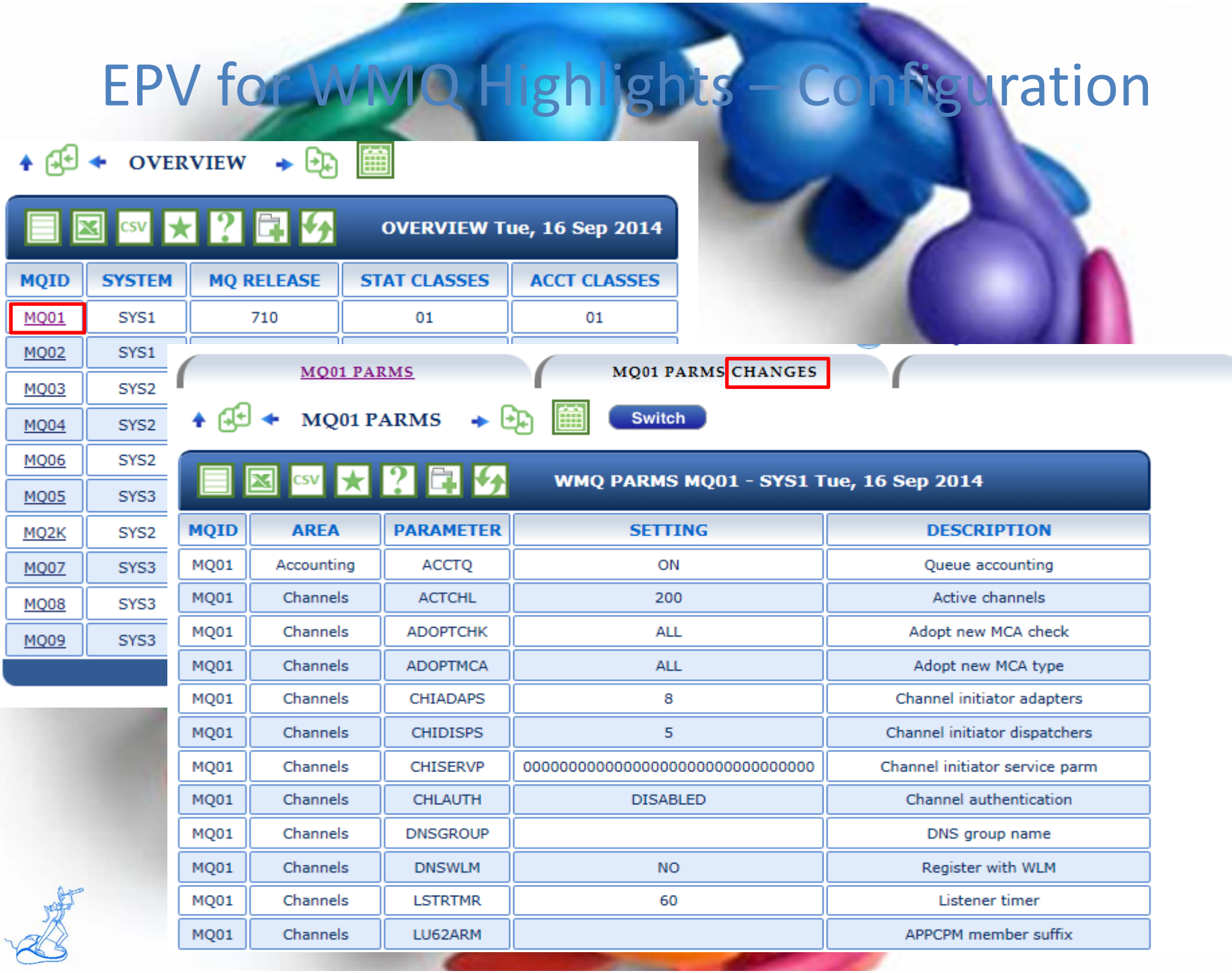
EPV for WMQ Highlights – Help System



EPV for WMQ Highlights – Help System



EPV for WMQ Highlights – Configuration



OVERVIEW

OVERVIEW Tue, 16 Sep 2014

MQID	SYSTEM	MQ RELEASE	STAT CLASSES	ACCT CLASSES
MQ01	SYS1	710	01	01
MQ02	SYS1			
MQ03	SYS2			
MQ04	SYS2			
MQ06	SYS2			
MQ05	SYS3			
MQ2K	SYS2			
MQ07	SYS3			
MQ08	SYS3			
MQ09	SYS3			

MQ01 PARMS | MQ01 PARMS CHANGES

MQ01 PARMS Switch

WMQ PARMS MQ01 - SYS1 Tue, 16 Sep 2014

MQID	AREA	PARAMETER	SETTING	DESCRIPTION
MQ01	Accounting	ACCTQ	ON	Queue accounting
MQ01	Channels	ACTCHL	200	Active channels
MQ01	Channels	ADOPTCHK	ALL	Adopt new MCA check
MQ01	Channels	ADOPTMCA	ALL	Adopt new MCA type
MQ01	Channels	CHIADAPS	8	Channel initiator adapters
MQ01	Channels	CHIDISPS	5	Channel initiator dispatchers
MQ01	Channels	CHISERVP	00000000000000000000000000000000	Channel initiator service parm
MQ01	Channels	CHLAUTH	DISABLED	Channel authentication
MQ01	Channels	DNSGROUP		DNS group name
MQ01	Channels	DNSWLM	NO	Register with WLM
MQ01	Channels	LSTRTMR	60	Listener timer
MQ01	Channels	LU62ARM		APPCPM member suffix

EPV for WMQ Highlights – Configuration

PAGESETS SIZE

PAGESETS SIZE Tue, 16 Sep 2014

MQID	SYSTEM	PS0	PS1	PS2	PS3	PS4	PS5	PS6	PS7
MQ01	SYS1	26.997	44.996	26.997	26.997	250.003	250.003	441.511	250.003
MQ02	SYS1	26.997	167.388	84.593	26.997	26.997	62.995		
MQ03	SYS2	26.997	466.170	26.997	26.997	539.965	539.965	539.965	

MQ01 PRIVATE QUEUES Switch

WMQ PRIVATE QUEUES MQ01 - SYS1 Tue, 16 Sep 2014

MQID	BPID	PSID	STGCLASS	QUEUE	DESCR	TYPE	USAGE	QSGDISP	GET	PUT	DEFPRTY	DEFPSIST	XMITQ
MQ01	0	0	SYSTEM	QUEUE1	System reply	QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	0	NO	
MQ01	0	1	DEFAULT	QUEUE2		QMODEL	NORMAL	QMGR	ENABLED	ENABLED	0	NO	
MQ01	0	0	SYSTEM	QUEUE3	System reply	QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	0	NO	
MQ01	0	1	DEFAULT	QUEUE4		QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	0	NO	
MQ01	0	1	DEFAULT	QUEUE5		QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	0	NO	
MQ01	0	0	SYSTEM	QUEUE6	System reply	QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	0	NO	
MQ01	0	0	SYSTEM	QUEUE7	APP initiation queue	QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	5	YES	
MQ01	6	6	STGCL06	QUEUE8	APPL1 incoming	QLOCAL	NORMAL	QMGR	ENABLED	ENABLED	0	YES	

EPV for WMQ Highlights – System AS

WMQ SYSTEM AS - DATE : 16SEP14

A.S. CPU USAGE | A.S. IIP USAGE | A.S. MSTR STORAGE | A.S. MSTR VIRT

A.S. MSTR PAGING | A.S. CHIN PAGING

A.S. CPU USAGE

A.S. CPU USAGE MIPS BY HOUR Tue, 16 Sep 2014

MQID	SYSTEM	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MQ01	SYS1	6	4	4	5	5	5	5	5	6	5	6	6	6	5	5	5	5	5	5	5	6	5	5	4	4
MQ02	SYS1	17	15	10	10	10	12	10	10	13	16	16	16	16	17	14	12	15	13	12	11	10	10	10	9	9
MQ03	SYS2	20	11	10	11	11	10	11	11	12	16	20	17	13	13	13	12	13	13	20	12	13	10	9	10	10
MQ04	SYS2	12	9	9	9	9	9	11	11	11	12	12	11	12	11	11	11	11	12	11	10	11	10	9	9	9
MQ06	SYS2	8	6	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7
MQ05	SYS3	4	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	4	4	3	3	3	3
MQ2K	SYS2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MQ07	SYS3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
MQ08	SYS3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MQ09	SYS3	2	2	2	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

EPV for WMQ Highlights – System AS

A.S. MSTR VIRTUAL STORAGE

AVAILABLE VIRTUAL STORAGE < 2GB - MB BY HOUR Tue, 16 Sep 2014

MQID	SYSTEM	MAX	0	1	2	3	4	5	6	7	8	9	10	11
MQ01	SYS1	671,8	671,8	671,8	671,8	671,8	671,8	671,8	671,8	671,8	671,8	671,8	671,8	671,8
MQ02	SYS1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1	1.199,1
MQ03	SYS2	589,5	588,6	588,6	588,6	588,5	588,5	588,5	588,5	588,3	587,5	587,4	587,4	587,4
MQ04	SYS2	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1	1.026,1
MQ06	SYS2	613,7	613,7	613,5	613,4	613,2	613,1	612,8	612,6	612,2	611,9	611,4	611,1	610,3
MQ05	SYS3	1.186,2	1.186,1	1.186,1	1.186,1	1.186,1	1.186,1	1.186,1	1.186,1	1.186,2	1.186,2	1.186,2	1.186,1	1.186,1
MQ2K	SYS2	622,2	622,2	622,2	622,2	622,2	622,2	622,2	622,2	622,2	622,2	622,2	622,1	622,1
MQ07	SYS3	1.183,3	1.182,3	1.182,3	1.182,3	1.182,3	1.182,3	1.182,3	1.182,3	1.183,3	1.183,3	1.183,3	1.183,3	1.183,2
MQ08	SYS3	640,5	640,5	640,5	640,5	640,5	640,5	640,5	640,5	640,5	640,5	640,5	640,5	640,5
MQ09	SYS3	821,0	820,7	820,7	820,7	820,7	820,7	820,7	820,7	821,0	821,0	821,0	821,0	821,0

EPV for WMQ Highlights – System AS

A.S. MSTR STORAGE

REAL STORAGE MB BY HOUR Tue, 16 Sep 2014

MQID	SYSTEM	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12	13
MQ01	SYS1	223,0	214,3	214,3	214,3	214,3	215,2	215,3	215,6	215,6	215,8	215,9	217,5	221,4	221,4	221,4
MQ02	SYS2	218,7	208,9	208,9	208,9	208,9	209,0	209,1	209,1	209,4	209,5	209,8	212,4	215,5	215,6	215,6
WQ03	SYS3	56,7	55,4	56,7	56,7	55,4	56,7	55,9	56,7	56,7	55,4	56,7	55,4	56,7	56,7	55,4
WQ04	SYS4	70,1	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3	26,4
WQ05	SYS1	188,3	186,0	186,1	186,1	186,1	186,1	186,1	186,1	186,8	186,9	187,0	187,1	187,2	187,1	187,1
WQ06	SYS2	182,2	179,5	179,5	179,5	179,5	179,9	180,0	180,0	180,5	180,7	180,8	180,8	180,9	180,9	180,9
WQ07	SYS4															
WQ08	SYS4															

EPV for WMQ Highlights – Resources

EPV for WMQ Highlights – Resources

BP HIT RATIO

BP HIT RATIO BY HOUR Tue, 16 Sep 2014

MQID	SYSTEM	MIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MQ01	SYS1	99	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100
MQ02	SYS1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
MQ03	SYS2	93	100	100	100	100	100	100	100	100	100	96	98	100	100	100	100	100
MQ04	S																	
MQ06	S																	
MQ05	S																	
MQ10	S																	
MQ07	S																	
MQ08	S																	
MQ09	S																	

MQ03 BP HIT RATIO

Switch

MQ03 HIT RATIO BY HOUR SYS2 Tue, 16 Sep 2014

BP	MIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
BP0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
BP1	68,3	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	91,6	93,2	99,0	100,0	100,0	100,0
BP2	97,3	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
BP3	97,8	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
BP4	99,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
BP5	99,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
BP6	99,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
BP7																
BP8																

EPV for WMQ Highlights – Resources

CF STRUCTURE USAGE

CF STRUCTURE % USAGE BY HOUR Tue, 16 Sep 2014

MQIDS	CF NAME	STRUCTURE	TYPE	ROLE	OBJ	MAX	0	1	2	3	4	5	6	7	8	9	10
MQ01 MQ02	CF1	MQS0CSQSYSAPPL	LIST-S		LST	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6

MQS0CSQSYSAPPL DETAIL

MQS0CSQSYSAPPL CF STRUCTURE DETAIL BY HOUR - CF1 Tue, 16 Sep 2014

CF NAME	STRUCTURE	TYPE	ROLE	METRIC	0	1	2	3	4	5	6	7
CF1	MQS0CSQSYSAPPL	LIST-S		INITIAL SIZE	29,3	29,3	29,3	29,3	29,3	29,3	29,3	29,3
CF1	MQS0CSQSYSAPPL	LIST-S		MIN SIZE	33,0	33,0	33,0	33,0	33,0	33,0	33,0	33,0
CF1	MQS0CSQSYSAPPL	LIST-S		MAX SIZE	30,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0
CF1	MQS0CSQSYSAPPL	LIST-S		CURR SIZE	30,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0
CF1	MQS0CSQSYSAPPL	LIST-S		LIST ENTRIES	50,0	50,0	50,0	50,0	50,0	50,0	50,0	50,0
CF1	MQS0CSQSYSAPPL	LIST-S		MAX LIST ENTRIES	8.962,0	8.962,0	8.962,0	8.962,0	8.962,0	8.962,0	8.962,0	8.962,0
CF1	MQS0CSQSYSAPPL	LIST-S		% LIST USED	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
CF1	MQS0CSQSYSAPPL	LIST-S		DATA ELEMENTS	128,0	128,0	128,0	128,0	128,0	128,0	128,0	128,0
CF1	MQS0CSQSYSAPPL	LIST-S		MAX DATA ELEMENTS	53.350,0	53.350,0	53.350,0	53.350,0	53.350,0	53.350,0	53.350,0	53.350,0
CF1	MQS0CSQSYSAPPL	LIST-S		% DATA USED	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
CF1	MQS0CSQSYSAPPL	LIST-S		SYNCH REQUEST	10.895,0	10.893,0	10.936,0	10.836,0	10.884,0	10.901,0	10.912,0	10.910,0

EPV for WMQ Highlights – Resources

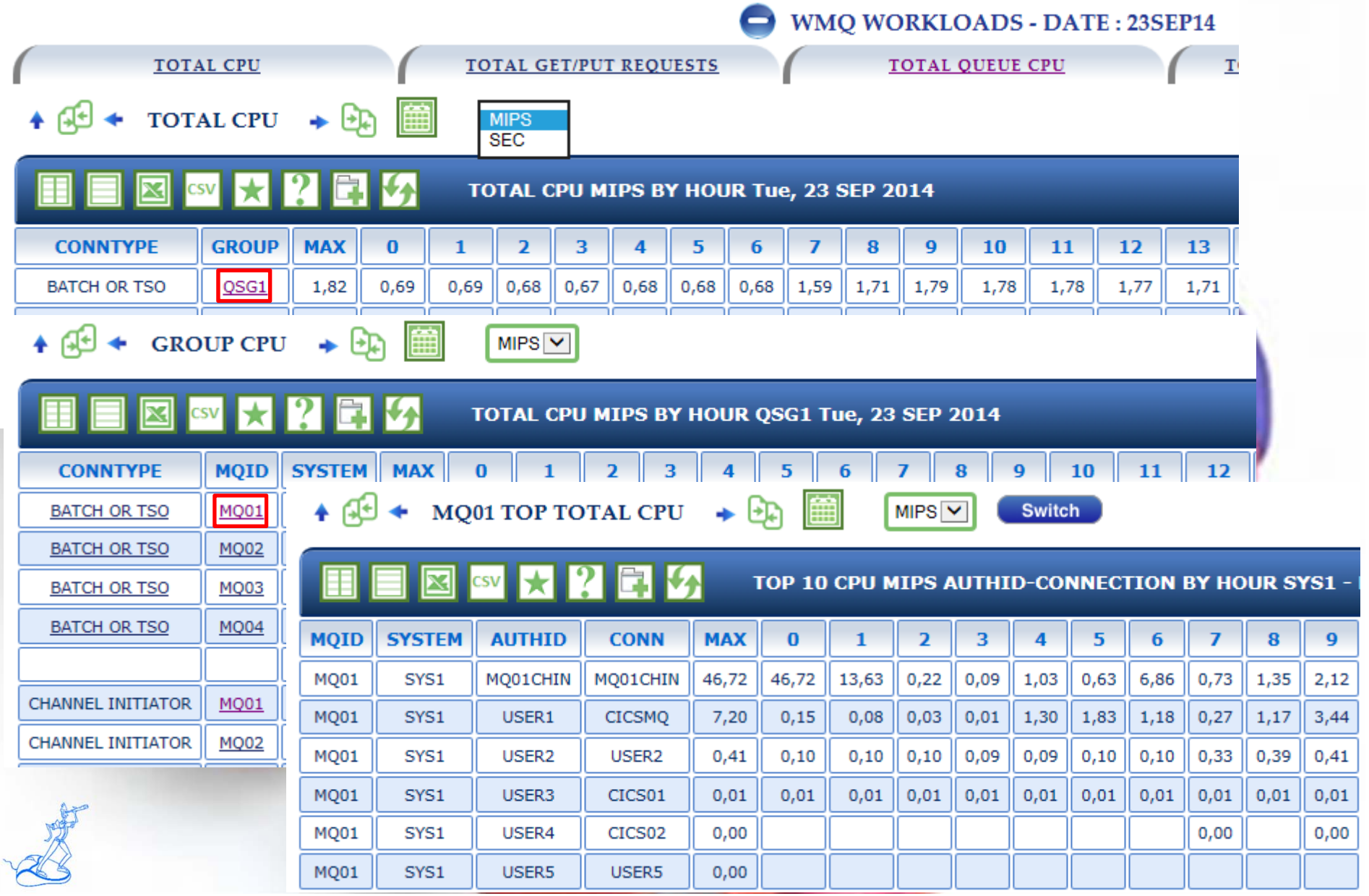
SMDS USAGE

% USED
USED BLOCKS

% USED BY HOUR Tue, 16 Sep 2014

MQID	SYSTEM	STRUCTURE	SMDS	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
MQ01	SYS1	APPL1		0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6		0,6	0,6	0,6
MQ02	SYS2	APPL1		2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2
MQ01	SYS2	APPL2		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
MQ01	SYS2	APPL3		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
MQ01	SYS2	APPL4		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
MQ01	SYS2	APPL5		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
MQ01	SYS2	APPL6		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

EPV for WMQ Highlights – Workloads



WMQ WORKLOADS - DATE : 23SEP14

TOTAL CPU | TOTAL GET/PUT REQUESTS | TOTAL QUEUE CPU | T

TOTAL CPU — MIPS / SEC

TOTAL CPU MIPS BY HOUR Tue, 23 SEP 2014

CONNTYPE	GROUP	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12	13
BATCH OR TSO	QSG1	1,82	0,69	0,69	0,68	0,67	0,68	0,68	0,68	1,59	1,71	1,79	1,78	1,78	1,77	1,71

GROUP CPU — MIPS

TOTAL CPU MIPS BY HOUR QSG1 Tue, 23 SEP 2014

CONNTYPE	MQID	SYSTEM	MAX	0	1	2	3	4	5	6	7	8	9	10	11	12
BATCH OR TSO	MQ01															
BATCH OR TSO	MQ02															
BATCH OR TSO	MQ03															
BATCH OR TSO	MQ04															
CHANNEL INITIATOR	MQ01															
CHANNEL INITIATOR	MQ02															

MQ01 TOP TOTAL CPU — MIPS — Switch

TOP 10 CPU MIPS AUTHID-CONNECTION BY HOUR SYS1 -

MQID	SYSTEM	AUTHID	CONN	MAX	0	1	2	3	4	5	6	7	8	9
MQ01	SYS1	MQ01CHIN	MQ01CHIN	46,72	46,72	13,63	0,22	0,09	1,03	0,63	6,86	0,73	1,35	2,12
MQ01	SYS1	USER1	CICSMQ	7,20	0,15	0,08	0,03	0,01	1,30	1,83	1,18	0,27	1,17	3,44
MQ01	SYS1	USER2	USER2	0,41	0,10	0,10	0,10	0,09	0,09	0,10	0,10	0,33	0,39	0,41
MQ01	SYS1	USER3	CICS01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
MQ01	SYS1	USER4	CICS02	0,00								0,00		0,00
MQ01	SYS1	USER5	USER5	0,00										

EPV for WMQ Highlights – Workloads

TOTAL QUEUE CPU

MIPS
SEC

TOTAL QUEUE CPU MIPS BY HOUR Tue, 23 SEP 2014

SYSTEM	MQID	QUEUES	0	1	2	3	4	5	6	7	8	9	10	11	12
SYS1	MQ01	107	1,04	0,66	0,37	0,23	1,92	5,83	4,19	1,57	3,81	15,29	30,51	30,31	34,48
SYS1	MQ02	20	0,07	0,04	0,01	0,00	0,29	0,23	0,03	0,07	0,81	3,01	4,79	7,21	7,13

MQ01 TOP QUEUE GET CPU | MQ01 TOP QUEUE PUT CPU | MQ01 TOP QUEUE PUT1 CPU | MQ01 TOP Q

MQ01 TOP QUEUE PUT/PUT1 THROUGHPUT | MQ01 TOP QUEUE GET ELAPSED | MQ01 TOP QUEUE PUT ELAPSED | MQ01 TOP QU

MQ01 TOP QUEUE GET CPU

Switch

TOP 50 QUEUE GET CPU SEC BY HOUR SYS1 - MQ01 TUE, 23 SEP 2014

MQID	SYSTEM	QUEUE	INDEX	PS	BP	MAX DEPTH	0	1	2	3	4	5	6	7
MQ01	SYS1	QUEUE1	NONE	7	7	7	0,02	0,01	0,00	0,00	0,02	0,01	0,02	0,03
MQ01	SYS1	QUEUE2	NONE	0	0	5	1,98	1,18	0,56	0,21	2,43	10,60	7,85	2,77
MQ01	SYS1	QUEUE3	NONE	8	8	5	0,02	0,01	0,00	0,00	0,00	0,00	0,01	0,04
MQ01	SYS1	QUEUE4	CORREL_ID	9	9	6	0,26	0,26	0,25	0,25	0,25	0,25	0,25	0,88
MQ01	SYS1	QUEUE5	NONE	6	6	5	0,02	0,01	0,00	0,00	0,02	0,01	0,02	0,03

EPV for WMQ Highlights – Workloads

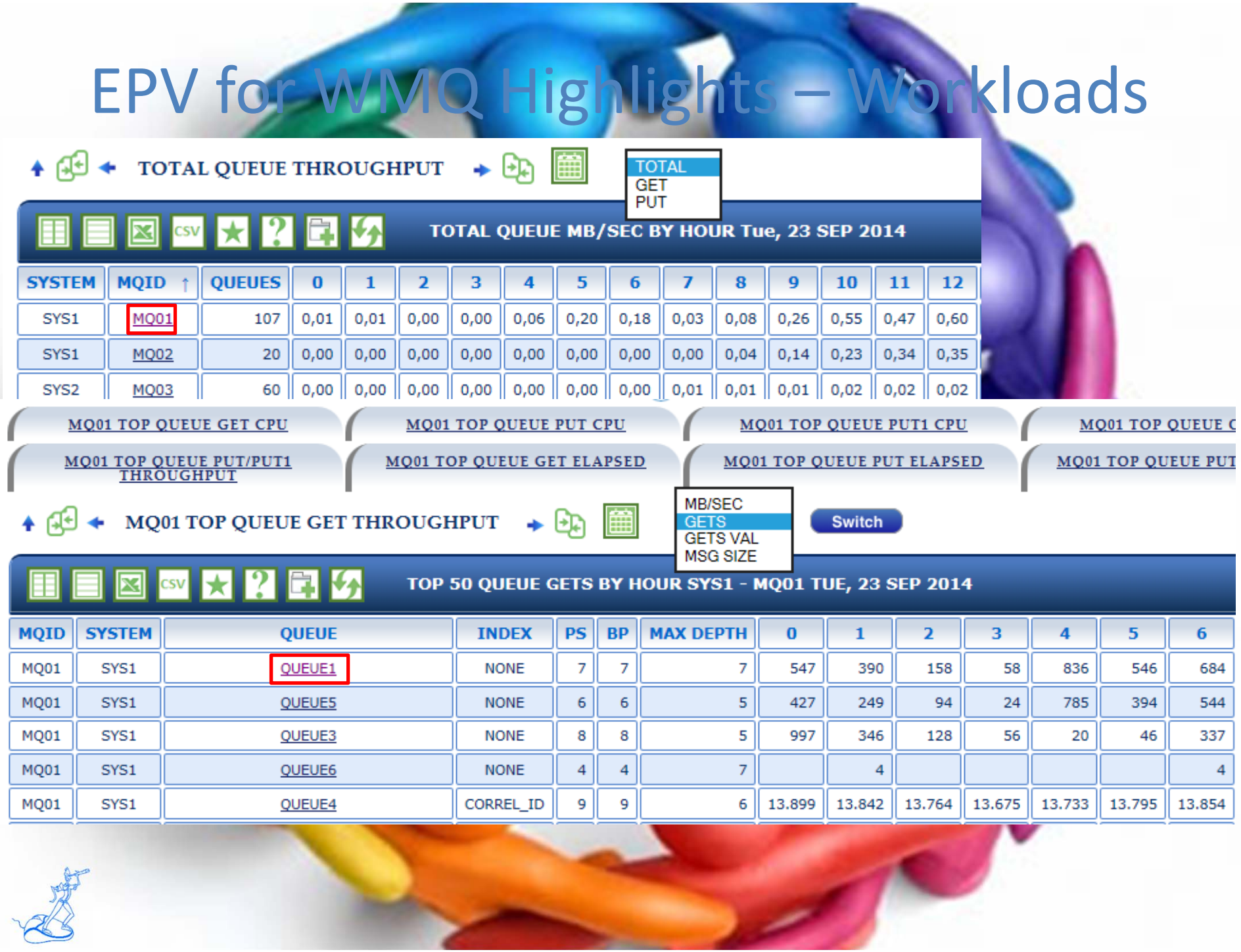
MQ01 TOP QUEUE CPU TOTALS

Switch

TOP 50 QUEUE CPU TOTALS SYS1 - MQ01 TUE, 23 SEP 2014

MQID	SYSTEM	QUEUE	CONNTYPE	CONN	TRAN	GET	PUT	PUT1	OPEN	CLOSE	INQ
MQ01	SYS1	QUEUE1	CHAN INIT	MQ01CHIN		8,46	0,00	0,00	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN4	0,00	0,00	1,28	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN6	0,00	0,00	1,26	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN2	0,00	0,00	1,24	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN8	0,00	0,00	1,18	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN9	0,00	0,00	0,70	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN3	0,00	0,00	0,65	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN1	0,00	0,00	0,64	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN7	0,00	0,00	0,63	0,00	0,00	0,00
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN5	0,00	0,00	0,62	0,00	0,00	0,00

EPV for WMQ Highlights – Workloads



TOTAL QUEUE THROUGHPUT

TOTAL
GET
PUT

TOTAL QUEUE MB/SEC BY HOUR Tue, 23 SEP 2014

SYSTEM	MQID	QUEUES	0	1	2	3	4	5	6	7	8	9	10	11	12
SYS1	MQ01	107	0,01	0,01	0,00	0,00	0,06	0,20	0,18	0,03	0,08	0,26	0,55	0,47	0,60
SYS1	MQ02	20	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,04	0,14	0,23	0,34	0,35
SYS2	MQ03	60	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,01	0,01	0,01	0,02	0,02	0,02

MQ01 TOP QUEUE GET CPU | MQ01 TOP QUEUE PUT CPU | MQ01 TOP QUEUE PUT1 CPU | MQ01 TOP QUEUE C

MQ01 TOP QUEUE PUT/PUT1 THROUGHPUT | MQ01 TOP QUEUE GET ELAPSED | MQ01 TOP QUEUE PUT ELAPSED | MQ01 TOP QUEUE PUT

MQ01 TOP QUEUE GET THROUGHPUT

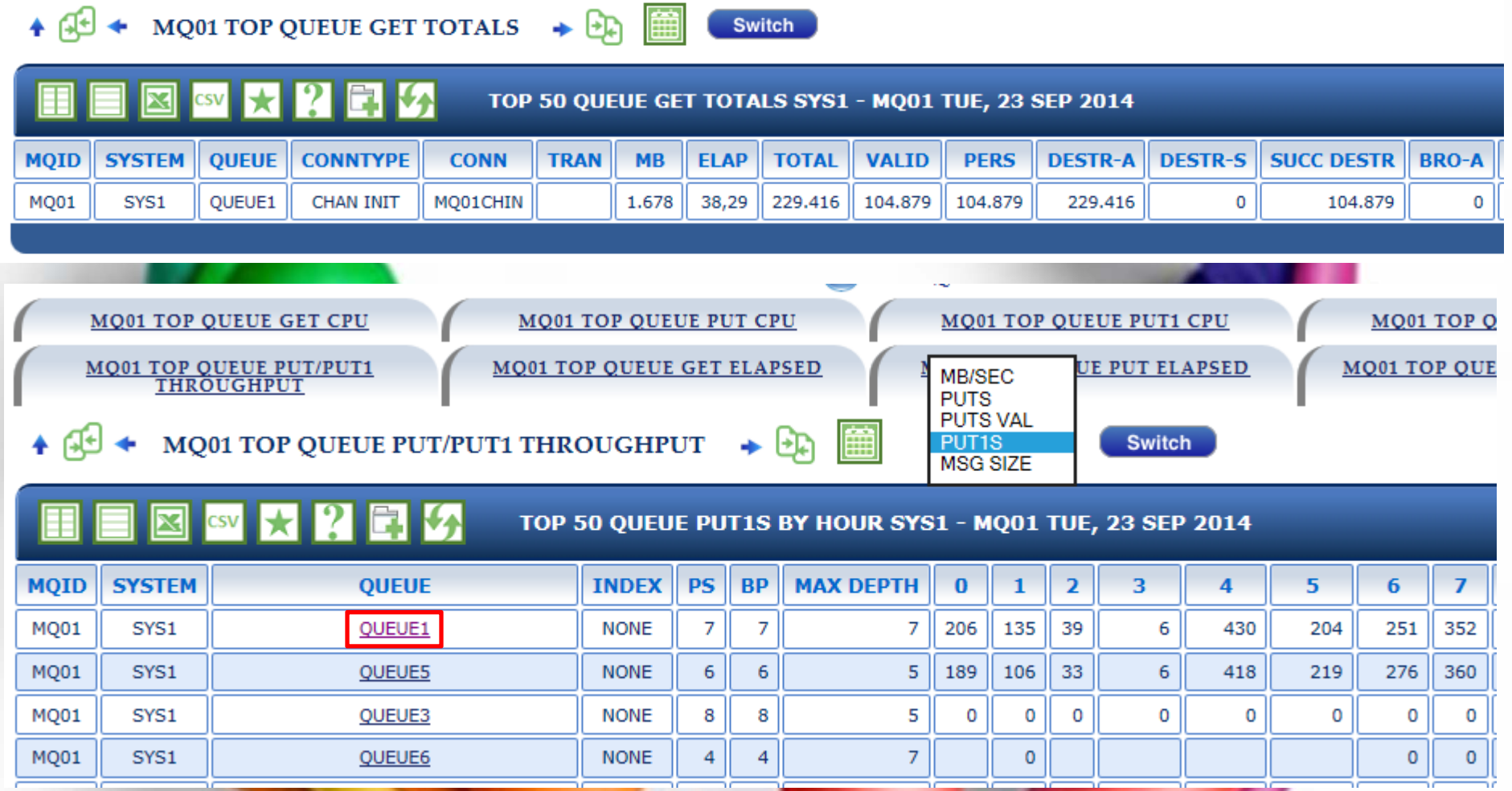
MB/SEC
GETS
GETS VAL
MSG SIZE

Switch

TOP 50 QUEUE GETS BY HOUR SYS1 - MQ01 TUE, 23 SEP 2014

MQID	SYSTEM	QUEUE	INDEX	PS	BP	MAX DEPTH	0	1	2	3	4	5	6
MQ01	SYS1	QUEUE1	NONE	7	7	7	547	390	158	58	836	546	684
MQ01	SYS1	QUEUE5	NONE	6	6	5	427	249	94	24	785	394	544
MQ01	SYS1	QUEUE3	NONE	8	8	5	997	346	128	56	20	46	337
MQ01	SYS1	QUEUE6	NONE	4	4	7		4					4
MQ01	SYS1	QUEUE4	CORREL_ID	9	9	6	13.899	13.842	13.764	13.675	13.733	13.795	13.854

EPV for WMQ Highlights – Workloads



EPV for WMQ Highlights – Workloads

WMQ WORKLOADS - DATE : 23SEP14 - SYSTEM : SYS1 - MQ01

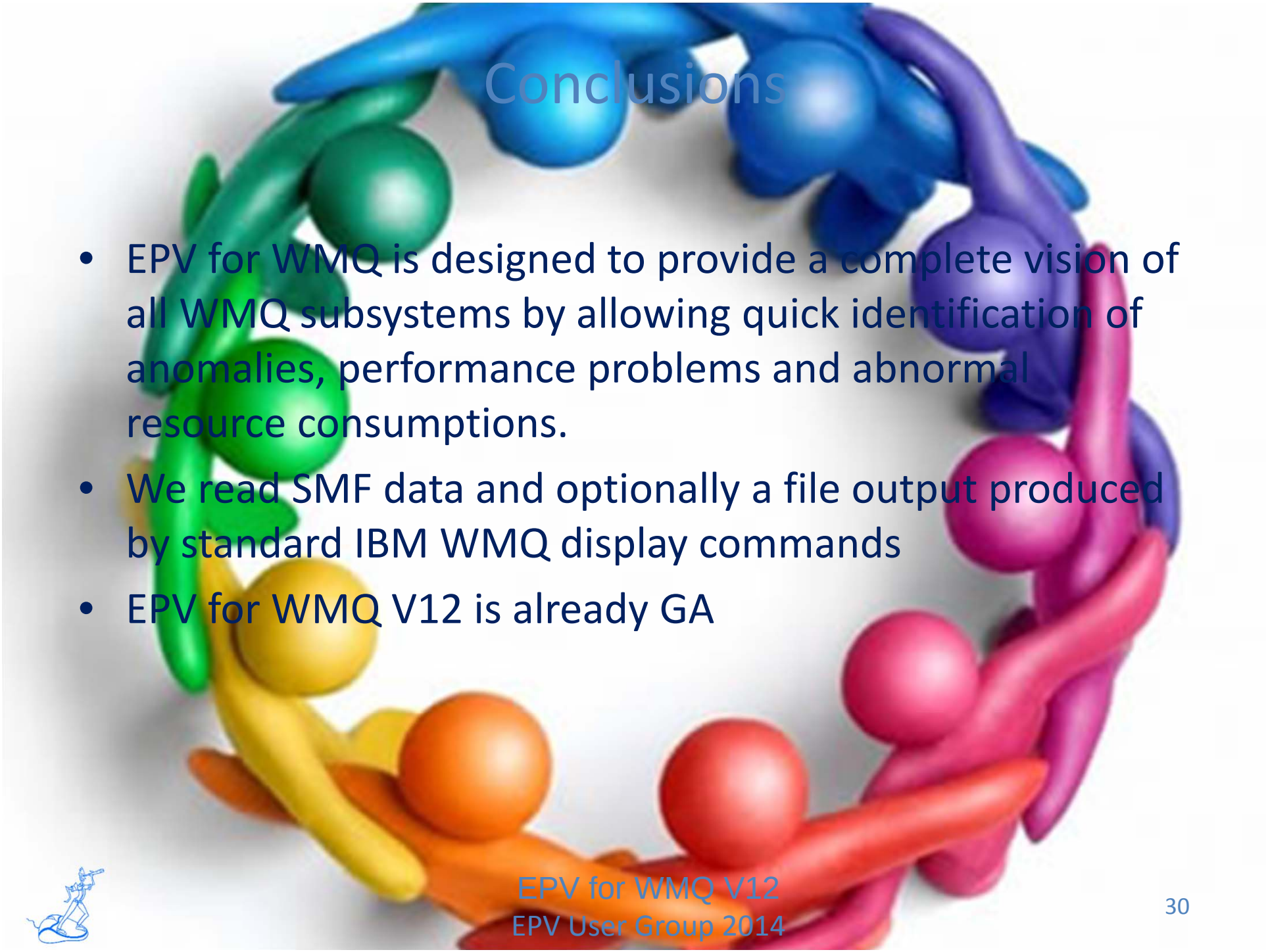
MQ01 TOP QUEUE PUT/PUT1 TOTALS

MQ01 TOP QUEUE PUT/PUT1 TOTALS Switch

TOP 50 QUEUE PUT/PUT1 TOTALS SYS1 - MQ01 TUE, 23 SEP 2014

MQID	SYSTEM	QUEUE	CONNTYPE	CONN	TRAN	MB	VALID	PUT ELAP	PUT TOTAL	PUT PERS	PUT1 ELAP	PUT1 TOTAL	PUT1 PERS
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN4	197	9.474	.	0	0	281,37	9.474	9.474
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN8	182	9.434	.	0	0	287,48	9.434	9.434
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN6	177	9.525	.	0	0	224,74	9.525	9.525
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN2	177	9.525	.	0	0	160,96	9.525	9.525
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN3	108	4.791	.	0	0	326,73	4.791	4.791
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN7	104	4.804	.	0	0	418,29	4.804	4.804
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN1	95	4.805	.	0	0	155,92	4.805	4.805
MQ01	SYS1	QUEUE1	CICS	CICS01	TRN5	88	4.681	.	0	0	227,79	4.681	4.681
MQ01	SYS1	QUEUE1	CICS	CICS01	TR44	69	4.541	.	0	0	163,14	4.541	4.541
MQ01	SYS1	QUEUE1	CICS	CICS01	TR42	68	4.503	.	0	0	136,77	4.503	4.503

Conclusions



- EPV for WMQ is designed to provide a complete vision of all WMQ subsystems by allowing quick identification of anomalies, performance problems and abnormal resource consumptions.
- We read SMF data and optionally a file output produced by standard IBM WMQ display commands
- EPV for WMQ V12 is already GA

Questions ?