16572:
You Asked, We Delivered: Workload Management in the CICS Explorer

Ezriel Gross – Circle Software  Stewart Francis - IBM  Eric Higgins - IBM

SHARE is an independent volunteer-run information technology association that provides education, professional networking and industry influence.

Copyright (c) 2014 by SHARE Inc.  Except where otherwise noted, this work is licensed under http://creativecommons.org/licenses/by-nc-sa/3.0/
Dynamic Transaction Routing

Incoming Work

Routing CICS "TOR"  EXIT  Routing Mechanism

Target CICS "AOR"
Target CICS "AOR"
Target CICS "AOR"

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
CPSM Routing
WLM Overview

Routing CICS "TOR"

WLM Data Space

Rules + Health Info

Target CICS "AOR"

Health Info

In Coming Work "Tran"

TASK
Start TASK
DPL

Route Exit
Enhanced WLM
WLM Definition Hierarchy

Diagram showing the hierarchy of CICS System (Routing) and CICS System Group (Routing) with subtopics such as WLM Specification, addtospec, and addtosysgrp. Additionally, there is a mention of Transaction Group and TRN1, TRN2, etc. with addtran.
WLM Administration View

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
WLM Specification

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
WLM Definitions – Affinities / Separation
WLMDEF

WLM definitions

Attribute, 'AORSCOPE', has been successfully updated.

Workload management definition
- TESTDEF

Description
- First test WLM def

Transaction group
- TRANGRP1

Terminal LU name
- *

User ID
- RSMINS1

BTS process type
- *

Scope name of set of target systems
- MAS9

Perform 'Create'?
- Yes

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
WLM Transaction Groups

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
CPSM workload management is highly flexible

Flexibility comes at the expense of accessibility

CICS Explorer 5.2 provides an intuitive UI for administering and monitoring CPSM workload management

… without sacrificing any of the flexibility?
Compatibility

Backward compatible to CICS TS 4.1
Works with existing workloads
Requires CMCI to update
Demo
Create a workload specification

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Browse for a default target scope
Edit a workload specification

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Routing rules for workload separation

Rules
- Default rule
- Rule 20

Targets
- Targets: *
- Terminal LU name: *
- User ID: *
- BTS process type: *

Transactions
No transactions are specifically identified for routing. This means these workload separation rules will apply to all transactions. To apply these rules to specific transactions, select an existing transaction group, or define a new one.

Select Transaction Group...
Create Transaction Group

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Using transaction groups
Show more detail
Organize rules into groups
Organize rules into groups
Import rules from existing workloads
Reconcile errors

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Define routers
Select regions to associate as routers
Edit system groups

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
It scales!
CICSplex Explorer grouping

Server: EICM

- CICSEX52 (8/8)
  - Workload Management
  - Systems
    - IYCWEID1 (IYCWEID1)
    - IYCWEIE1 (IYCWEIE1)
    - IYCWEIF1 (IYCWEIF1)
    - IYCWEIG1 (IYCWEIG1)
    - IYCWEIH1 (IYCWEIH1)
    - IYCWEII1 (IYCWEII1)
    - IYCWEIW1 (IYCWEIW1)
    - IYCWEIW2 (IYCWEIW2)

  - System Groups
    - AAAAA (aaaaa)
    - ALL
    - ALLGRP (Group defined by EYU9XDBT)
    - ANAHEIM (ANAHEIM)
    - BANKJAVA (Java Regions for CICS V5 cloud demo)
    - BANKWEB (Web Regions for CICS V5 cloud demo)
    - BELVEDER (BELVEDER)
    - CJKP1 (CJKP1)
    - DECKING (DECKING)
    - DECKREG1

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
View active workloads

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Examine router statistics

Target Distribution Factors

<table>
<thead>
<tr>
<th>Target Re</th>
<th>Status</th>
<th>Contact S</th>
<th>Routing L</th>
<th>Task Cour</th>
<th>Health Sh</th>
<th>Health St</th>
<th>Health Du</th>
<th>Health M/</th>
</tr>
</thead>
<tbody>
<tr>
<td>IYCEIW1</td>
<td>ACTIVE</td>
<td>N_A</td>
<td>4</td>
<td>500</td>
<td>75</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>IYCEIW2</td>
<td>ACTIVE</td>
<td>N_A</td>
<td>4</td>
<td>500</td>
<td>75</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

Target Statistics

<table>
<thead>
<tr>
<th>Target Re</th>
<th>Reporting</th>
<th>Optimizal</th>
<th>Optimizal</th>
<th>Routing W</th>
<th>Routing L</th>
<th>Task Load</th>
<th>Task Load</th>
<th>Route Sel</th>
<th>Route Abi</th>
</tr>
</thead>
<tbody>
<tr>
<td>IYCEIW1</td>
<td>IYCEIWCM</td>
<td>INACTIVE</td>
<td>DISABLED</td>
<td>880</td>
<td>4</td>
<td>60</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>IYCEIW2</td>
<td>IYCEIWCM</td>
<td>INACTIVE</td>
<td>DISABLED</td>
<td>880</td>
<td>4</td>
<td>60</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Examine router statistics
Active transaction groups

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Active affinities

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Notices and Disclaimers

Copyright © 2015 by International Business Machines Corporation (IBM). No part of this document may be reproduced or transmitted in any form without written permission from IBM.

U.S. Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM.

Information in these presentations (including information relating to products that have not yet been announced by IBM) has been reviewed for accuracy as of the date of initial publication and could include unintentional technical or typographical errors. IBM shall have no responsibility to update this information. THIS document is distributed "AS IS" without any warranty, either express or implied. In no event shall IBM be liable for any damage arising from the use of this information, including but not limited to, loss of data, business interruption, loss of profit or loss of opportunity. IBM products and services are warranted according to the terms and conditions of the agreements under which they are provided.

Any statements regarding IBM’s future direction, intent or product plans are subject to change or withdrawal without notice.

Performance data contained herein was generally obtained in a controlled, isolated environments. Customer examples are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual performance, cost, savings or other results in other operating environments may vary.

References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business.

Workshops, sessions and associated materials may have been prepared by independent session speakers, and do not necessarily reflect the views of IBM. All materials and discussions are provided for informational purposes only, and are neither intended to, nor shall constitute legal or other guidance or advice to any individual participant or their specific situation.

It is the customer’s responsibility to insure its own compliance with legal requirements and to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer’s business and any actions the customer may need to take to comply with such laws. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the customer is in compliance with any law.

Complete your session evaluations online at www.SHARE.org/Seattle-Eval
Notices and Disclaimers (con’t)

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products. IBM does not warrant the quality of any third-party products, or the ability of any such third-party products to interoperate with IBM’s products. IBM expressly disclaims all warranties, expressed or implied, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents, copyrights, trademarks or other intellectual property right.

• IBM, the IBM logo, ibm.com, Bluemix, Blueworks Live, CICS, Clearcase, DOORS®, Enterprise Document Management System™, Global Business Services ®, Global Technology Services ®, Information on Demand, ILOG, Maximo®, MQIntegrator®, MQSeries®, Netcool®, OMEGAMON, OpenPower, PureAnalytics™, PureApplication®, pureCluster™, PureCoverage®, PureData®, PureExperience®, PureFlex®, pureQuery®, pureScale®, PureSystems®, QRadar®, Rational®, Rhapsody®, SoDA, SPSS, StoredIQ, Tivoli®, Trusteer®, urban{code}®, Watson, WebSphere®, Worklight®, X-Force® and System z® Z/OS, are trademarks of International Business Machines Corporation, registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at: www.ibm.com/legal/copytrade.shtml.
Thank You!