

IBM Software Group

# Enterprise Management

CICS TS V3 R1, CICSplex System Manager – Technical Overview

**WebSphere** software



@business on demand software

## CICSplex SM review

- Enterprise systems management for CICS on z/OS via
  - ▶ Web User Interface
  - ▶ Batch repository update
  - ▶ Application Programming Interface
- Single System Image & Single Point of Control
  - ▶ Resource definition
  - ▶ Operations
  - ▶ Monitoring
  - ▶ Workload Management
  - ▶ Threshold Analysis
  - ▶ Automation
- Tivoli Business System Manager Integration

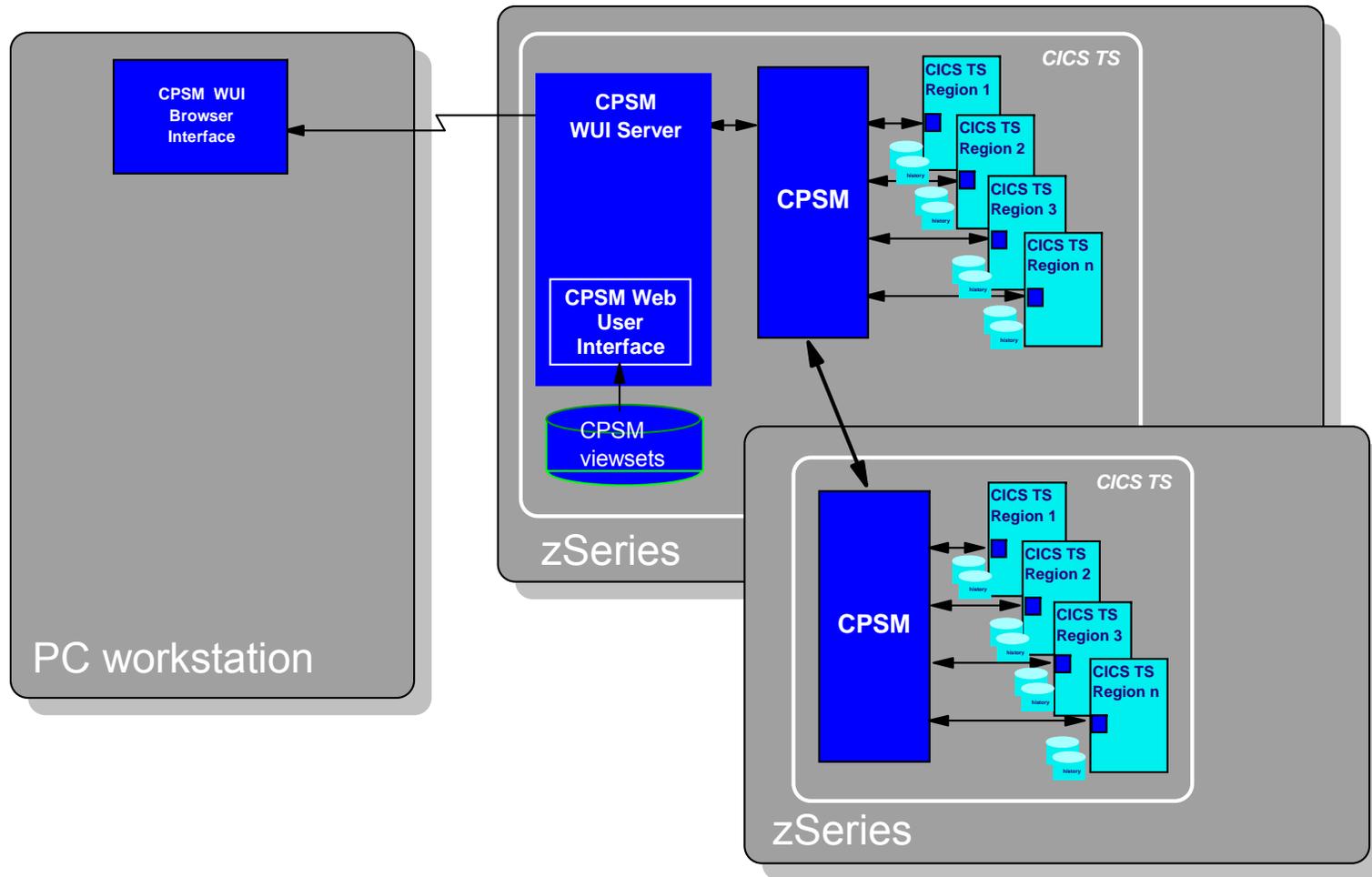


## Single System Image – what does it mean?

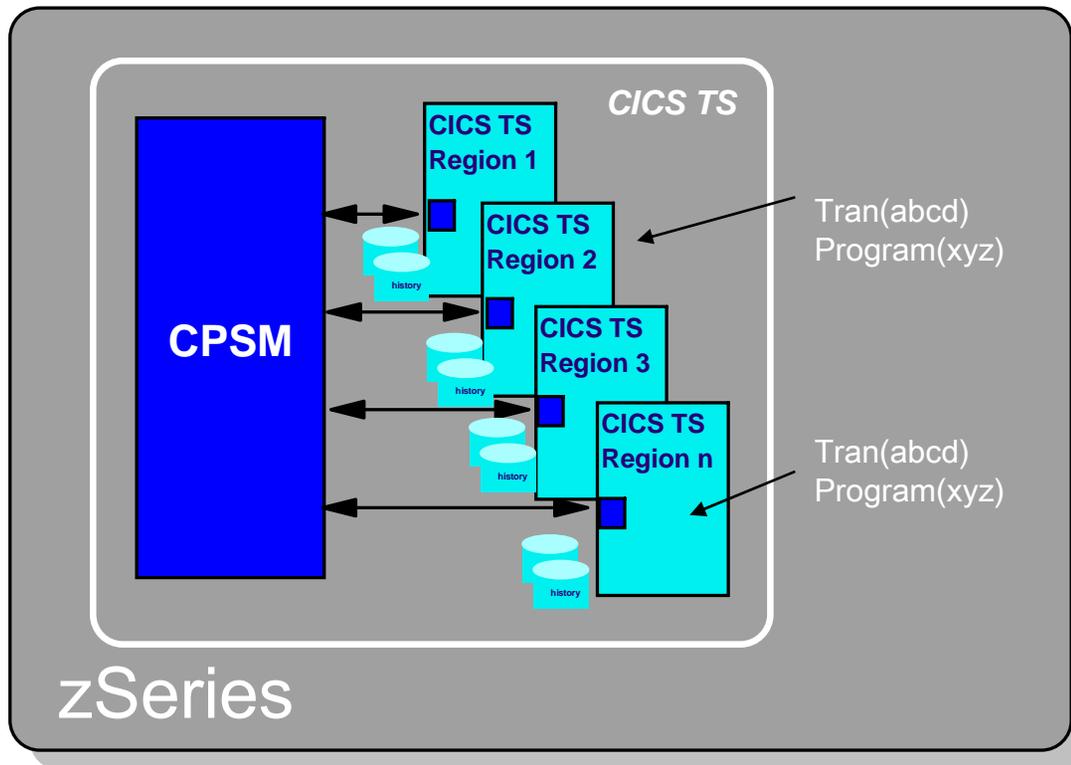
- Resources may move from one day to another
- New regions may be created, others removed
- All of these changes drive
  - ▶ notifications to those concerned, e.g. operations
  - ▶ Changes to actions taken by staff
  - ▶ A common source of error
    - Disable transaction ABCD
      - Does so in CICS A, CICS B
      - But not CICS C where it was installed yesterday
- As location of resources change, topology keeps track of this automatically
- Actions taken via WUI or API are independent of location
  - ▶ DISABLE TRANS(PAYR) SCOPE(PAYROLL)
- Information is all displayed together in one view e.g.
  - ▶ All tasks associated with unit of work across the CICSplex



# CICSplex SM Architecture



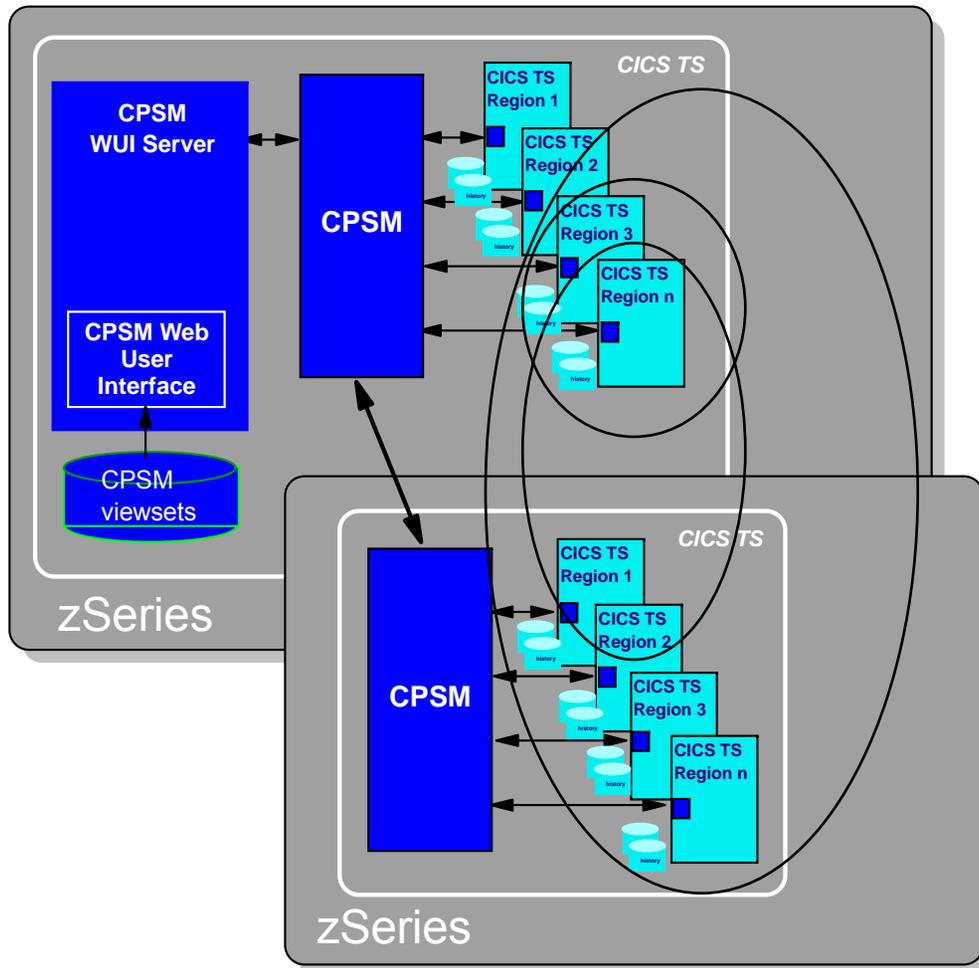
## Topology – Where are the resources?



- CICS regions initialise and terminate
  - ▶ CICS resources become available/unavailable
- Topology keeps track of all resources within the CICSplexes
- Used to make directed requests to CICS regions and their resources
- Provides the basis for Single System Image (SSI)



## Identifying sets of systems



- ▶ **CONTEXT** – the name of a collection of CICS regions
  - ▶ e.g. TEST, QAPLEX, PRODUCTION
  - ▶ A CICS region can only be in one context
- ▶ **SCOPE** – the name of a set of CICS regions within that CONTEXT
  - ▶ e.g. PAYAORS, TORSET...
  - ▶ A CICS region can be in multiple scopes

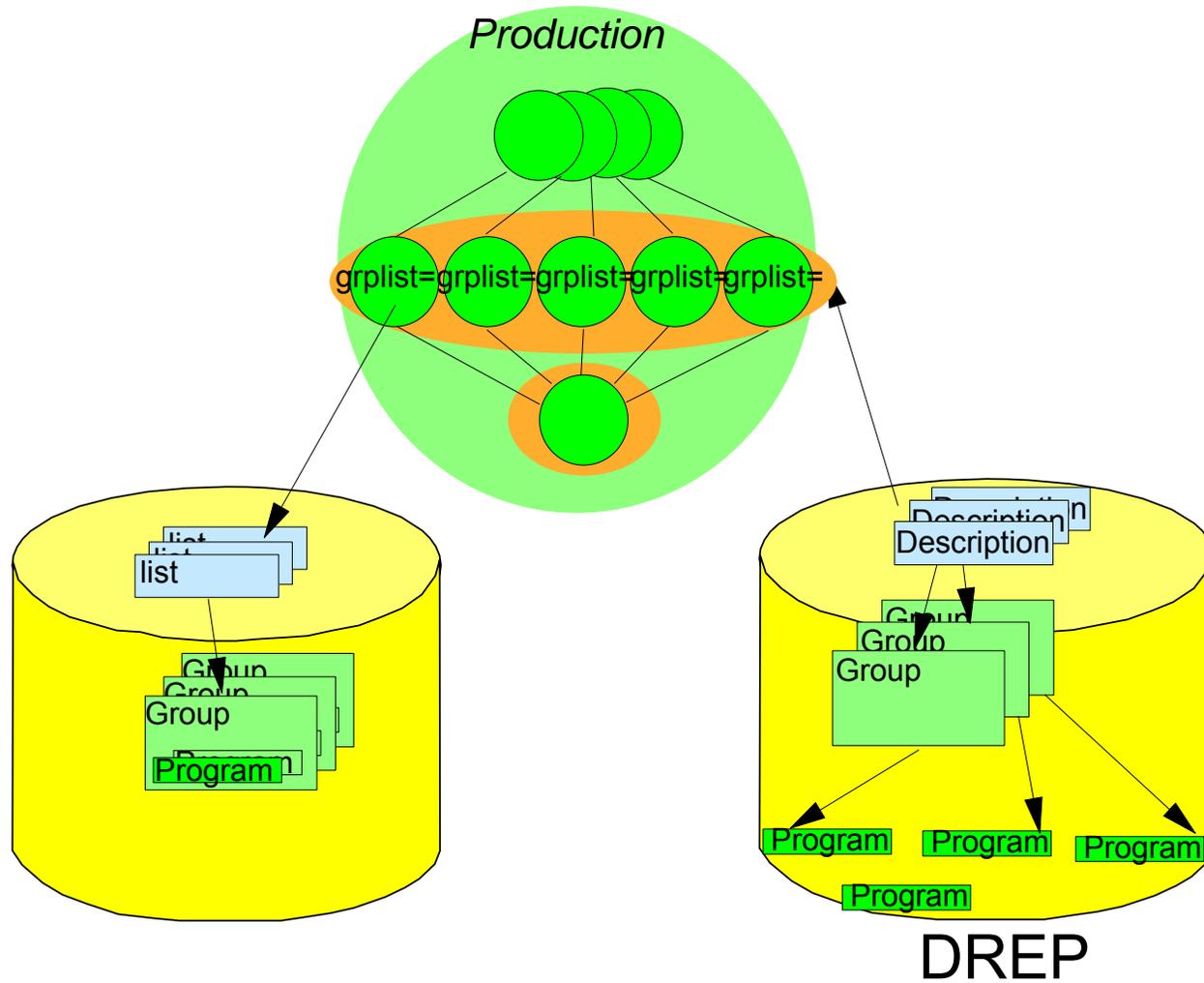


# Business Application Services – Resource Definition

- The CICSplex SM equivalent of CICS RDO
  - ▶ Basic BAS is very similar to RDO
  - ▶ Also introduces SYSLINK resource for CONNECTION/SESSIONs
  - ▶ Advanced BAS introduces one additional construct
    - Resource assignment
  - ▶ Definitions can also be assigned a logical name e.g. PAYROLL
    - Can be used as a runtime filter via operations
  - ▶ Install controlled at
    - CICS initialisation
    - CICS Runtime
      - INSTALL ..... CONTEXT(QAPLEX) SCOPE(AORSET)



# How basic BAS and RDO relate to each other



# Why should I use it?

## ▪ RDO

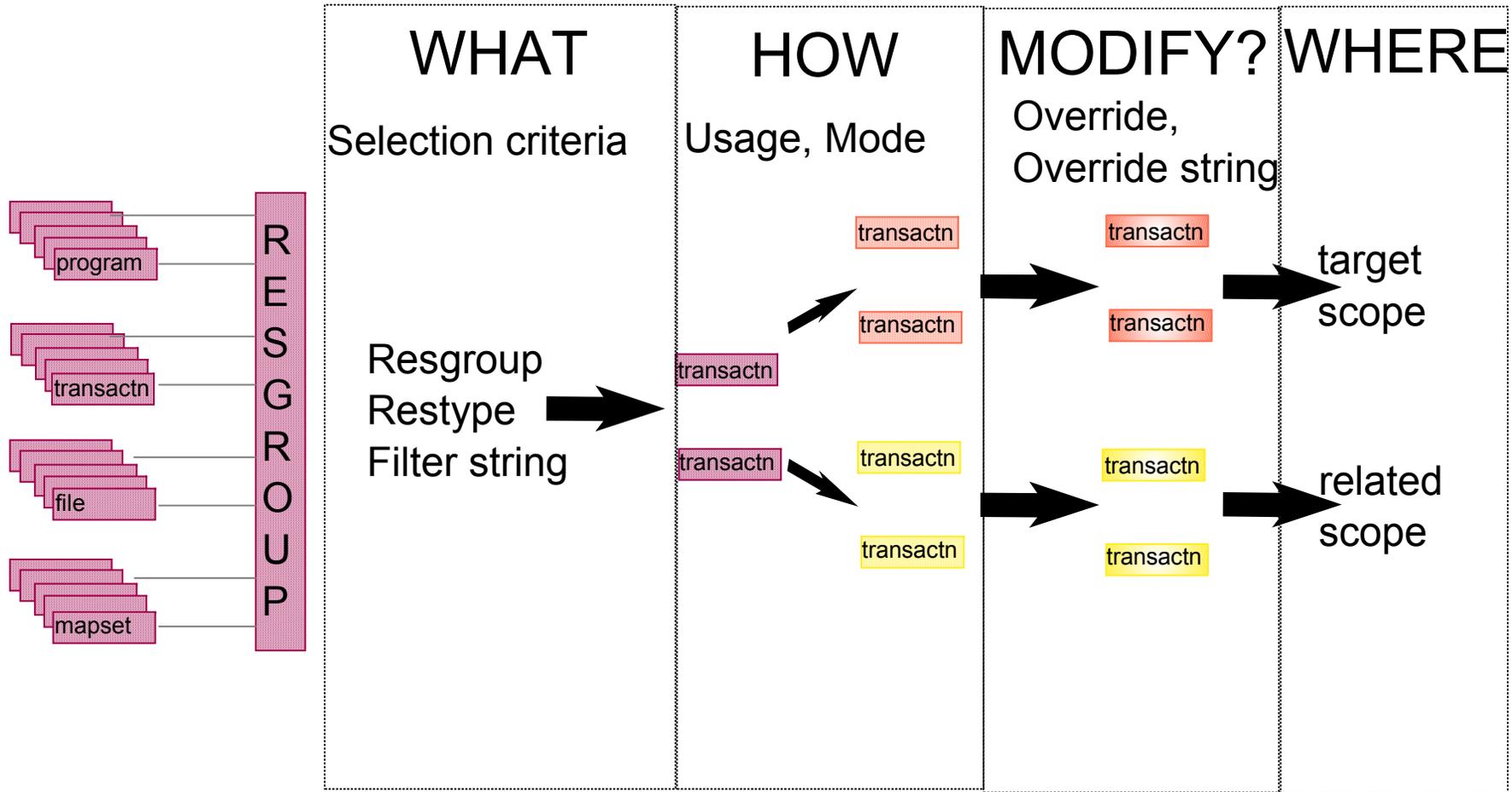
- ▶ Repository
  - Sysplex shared
  - Discrete - need copies
- ▶ Data
  - control - full access
  - volume - baseline
  - consistency - CHECK cmd
- ▶ Access control
  - dataset RACF
  - records LOCK/UNLOCK
- ▶ Install span of control
  - Coldstart
  - region -> Sysplex
- ▶ Runtime
  - Single system
- ▶ API access
  - No access to CSD data
  - EXEC CICS CREATE
- ▶ Integration into runtime
  - None
- ▶ EUI
  - 3270 from within CICS

## ▪ BAS

- ▶ Repository
  - Globally shared
  - No need to copy things around
- ▶ Data
  - control - full access
  - volume - less due to sharability
  - consistency - increased
- ▶ Access control
  - dataset RACF
  - records RACF
- ▶ Install span of control
  - Coldstart
  - Global
- ▶ Runtime
  - Global
- ▶ API Access
  - Full access from CICS, batch, TSO, NetView
- ▶ Integration into runtime
  - enables subset resource management
- ▶ EUI
  - Web Browser via WUI



# BAS – Advanced BAS – the Resource Assignment

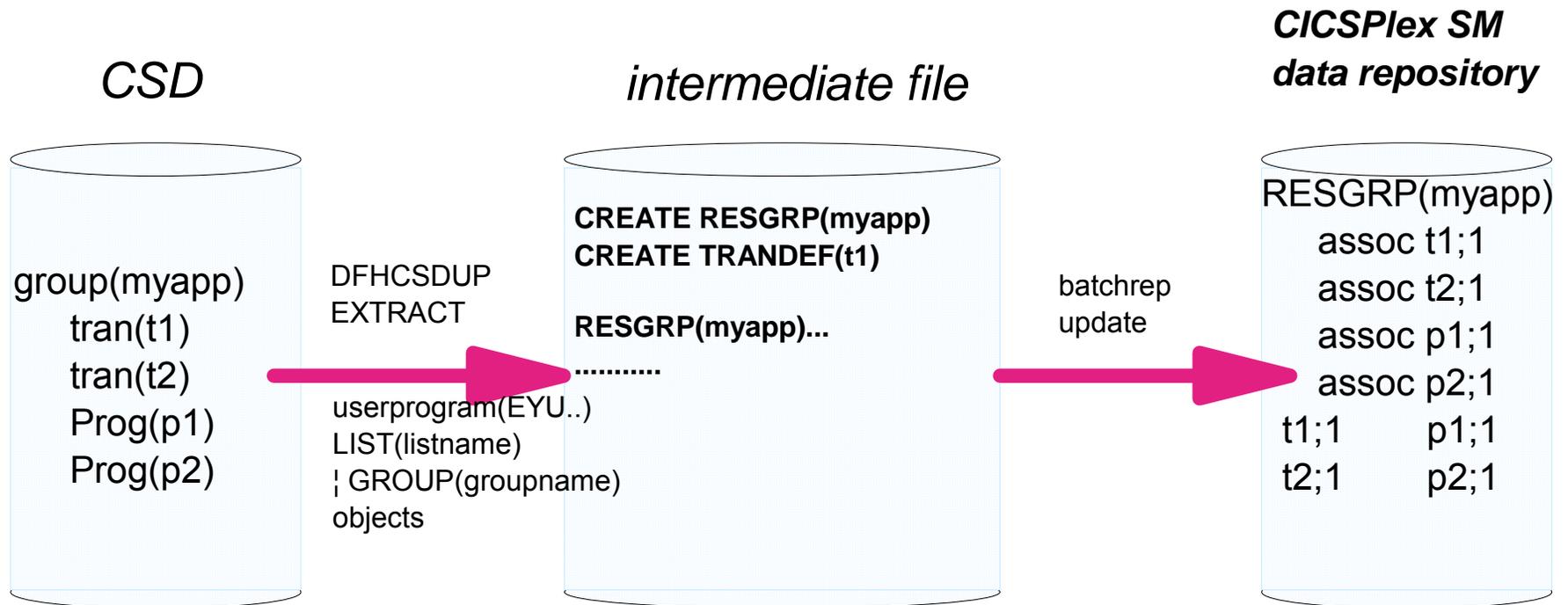


## Why use resource assignments?

- Easier to see where resources are assigned and how
- Can share resources across multiple environments
- Easier to do global change
- Increased consistency - no mismatches
- Movement from test; QA; production
- No need to edit resource definitions to adapt to topology change
- New application version becomes Resource Description, Resource assignments and changed definitions



# Definition migration



# BAS Administration views

- [Analysis point monitoring administration views](#)

## CICS resource definitions using Business Application Services (BAS)

- [Basic CICS resource administration views](#)
- [Fully functional Business Application Services \(BAS\) administration views](#)

Basic CICS resource administration views
YK3ZDB1

CMAS context:   
 Context:   
 Scope:

**Definitions**

- [CICS resource definitions](#)
- [Resource groups](#)
- [Resource descriptions](#)

**Associations**

- [CICS resource definitions in resource group](#)
- [Resource groups in description](#)
- [CICS system links](#)

**Resources deployed by ...**

- [Resource description](#)
- [CICS system](#)

Fully functional Business Application Services (BAS) administration views
YK3ZDB1

CMAS context:   
 Context:   
 Scope:

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- [CICS system links](#)

**Resources deployed by ...**

- [Resource description](#)
- [Resource assignment](#)
- [CICS system](#)

Menu name: EYUSTARTADMBAS2



CICSplex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

**Transaction Definition**

- Transaction definition name**   Aa
- Definition version**
- Definition description**   Aa
- Resource group name**
- User data area 1**   Aa
- User data area 2**   Aa
- User data area 3**   Aa
- First program name**
- Size in bytes of transaction work area (TWA)**   (0-32767, blank)
- Transaction profile**   Aa
- Default application partition set**
- Enabled status**  ENABLED
- Primed storage allocation**   (0-65520, blank)
- Task data location**  BELOW
- Task data key**  USER
- Storage clearance status**  NO
- Runaway timeout value**   (SYSTEM, 0-2700000, blank)
- Shutdown run status**  DISABLED
- Transaction isolation option**  YES

Done Internet



CICSplex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSPlex SM Web User Interface

**CICS resource definitions in resource group**

EYUVC1280I 2 records collected at 2004/10/06 15:45:57.

**Context:** APOLLO

**Resource group name:** = [ ]

**Resource definition name:** = [ ] Aa

**Resource definition version:** = [ ]

**Resource definition type:** = [ ]

Automatic refresh:  60 seconds.

2 records on 1 pages.

| Record                     | Resource group name | Resource definition name | Resource definition version | Resource definition type | Last time definition changed |
|----------------------------|---------------------|--------------------------|-----------------------------|--------------------------|------------------------------|
| 1 <input type="checkbox"/> | PJGROUP             | PJPROG                   | 1                           | PROGDEF                  | 2004/10/06 15:45:30          |
| 2 <input type="checkbox"/> | PJGROUP             | ABCD                     | 1                           | TRANDEF                  | 2004/10/06 15:45:04          |

2 records on 1 pages.

Resource name: RESINGRP. View name: EYUSTARTRESINGRP.TABULAR

Done Internet



# BATCHREP WUI view

scope:

**General views**

- [CMAS configuration administration views](#)
- [Monitor administration views](#)
- [Topology administration views](#)
- [Workload manager administration views](#)
- [Batched repository update job](#)

**Real Time Analysis (RTA) views**



## Batchrep via JCL stream

- sample JCL & output

```
//BATCHREP EXEC PGM=EYU9XDBC,REGION=0M
//STEPLIB DD DISP=SHR,DSN=CICSTS31.CPSM.SEYULOAD
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
CMASNAME(IYK4Z0E1)
CHECK
INPUTDSN(GALLEN.WORK.JCL)
INPUTMEMBER(BCH5955)
PRINTNODE(LOCAL)
OUTPUTUSER(GALLEN)
/*
```

CICSplex/SM Batched Repository Update Utility

Version 310

Parameters specified:

```
CMASNAME(IYK4Z0E1)
CHECK
INPUTDSN(GALLEN.WORK.JCL)
INPUTMEMBER(BCH5955)
PRINTNODE(LOCAL)
OUTPUTUSER(GALLEN)
```

EYUXD0908I A batched repository update has been submitted to run in CMAS IYK4Z0E1.

EYUXD0909I CICSplex SM Batched Repository Update Utility is terminating.



# Operations & Monitoring

- Operations
  - ▶ More data than CEMT
  - ▶ Wider scope than CEMT
  - ▶ Direct access to CICS regions
- Monitoring
  - ▶ Cached data in dataspace
  - ▶ Accumulated averages etc
  - ▶ Collected corresponding to user specified criteria
    - Includes CICS historical task data



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**General views**

- [CICS regions](#)
- [Active tasks](#)
- [ISC and MRO connections](#)
- [Terminals](#)
- [Local files](#)
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**View menus**

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- [Real Time Analysis \(RTA\) views](#)
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- [CICSplex SM operations views](#)
- [Administration views](#)

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**CICS operations views**

Context:

Scope:

**CICS operations views**

- [CICS Business Transaction Services \(BTS\) operations views](#)
- [CICS region operations views](#)
- [Connection operations views](#)
- [DB2 and DBCTL operations views](#)
- [Document template operations views](#)
- [Enqueue model operations views](#)
- [Enterprise Java component operations views](#)
- [Exit operations views](#)
- [FEPI operations views](#)
- [File operations views](#)
- [Journal operations views](#)
- [Program operations views](#)
- [Task operations views](#)
- [TCP/IP service operations views](#)
- [Temporary storage queue \(TSQ\) operations views](#)
- [Terminal operations views](#)
- [Transient data queue \(TDQ\) operations views](#)
- [Transaction operations views](#)
- [Unit of work \(UOW\) operations views](#)

**Related resources**

- [Monitoring views](#)

Menu name: EYUSTARTOPERATE

Done Internet



CICSplex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

**Monitoring views**

Context:  Scope:

**Monitoring views**

- [Active monitor specifications](#)
- [CICS region monitoring views](#)
- [Connection monitoring views](#)
- [DB2 and DBCTL monitoring views](#)
- [FEPI monitoring views](#)
- [File monitoring views](#)
- [Global resource monitoring views](#)
- [Journal monitoring views](#)
- [Program monitoring views](#)
- [Temporary storage \(TSQ\) monitoring views](#)
- [Terminal monitoring views](#)
- [Transaction monitoring views](#)
- [Transient data queue \(TDQ\) monitoring views](#)

**Related resources**

- [CICS operations views](#)

Menu name: EYUSTARTMONITOR

Internet



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IBM. CICSplex SM Web User Interface

**Active task**

EYUVC1280I 4 records collected at 2004/10/06 15:47:19.

Context='APOLLO' Scope='APOLLO' Task ID=' Transaction ID='CEDA' Dispatch status=' Automatic refresh:  60 seconds. Refresh

4 records on 1 pages.

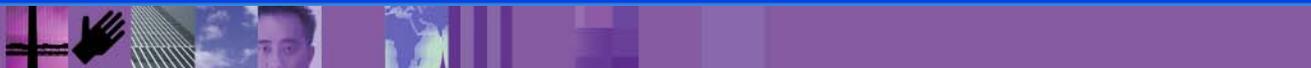
| Record | CICS system name | Task ID                 | Transaction ID | Dispatch status | User ID | Principal facility   | VTAM LU name          | Task priority | Transaction class        | Time task has been suspended |
|--------|------------------|-------------------------|----------------|-----------------|---------|----------------------|-----------------------|---------------|--------------------------|------------------------------|
| 1      | IYEMST01         | <a href="#">0004470</a> | CEDA           | SUSPENDED       | CTSQ01D | <a href="#">TC14</a> | '000000000000000000X' | 1             | <a href="#">DFHTCL00</a> | 0:51:19                      |
| 2      | IYEMST07         | <a href="#">0000077</a> | CEDA           | SUSPENDED       | CTSQ01D | <a href="#">TC02</a> | '000000000000000000X' | 1             | <a href="#">DFHTCL00</a> | 1:09:15                      |
| 3      | IYEMST11         | <a href="#">0000089</a> | CEDA           | SUSPENDED       | CTSQ01D | <a href="#">TC11</a> | '000000000000000000X' | 1             | <a href="#">DFHTCL00</a> | 0:04:43                      |
| 4      | IYEMST13         | <a href="#">0000091</a> | CEDA           | SUSPENDED       | CTSQ01D | <a href="#">TC13</a> | '000000000000000000X' | 1             | <a href="#">DFHTCL00</a> | 0:27:02                      |

4 records on 1 pages.

Set attributes... Purge...

Resource name: TASK. View name: EYUSTARTTASK.TABULAR

Done Internet



# Dynamic Workload Management

- Dynamically balances workload from multiple routing regions to multiple targets where workload is processed giving high availability
- Balanced according to
  - ▶ Queue algorithm
  - ▶ MVS Goal algorithm
- Supports
  - ▶ Workload separation
  - ▶ Affinity management
- Applies to
  - ▶ Dynamic transaction routing
  - ▶ Start (<termid) requests
  - ▶ Dynamic DPL
  - ▶ EJB requests
  - ▶ 3270 bridge
  - ▶ CICS BTS activities and processes

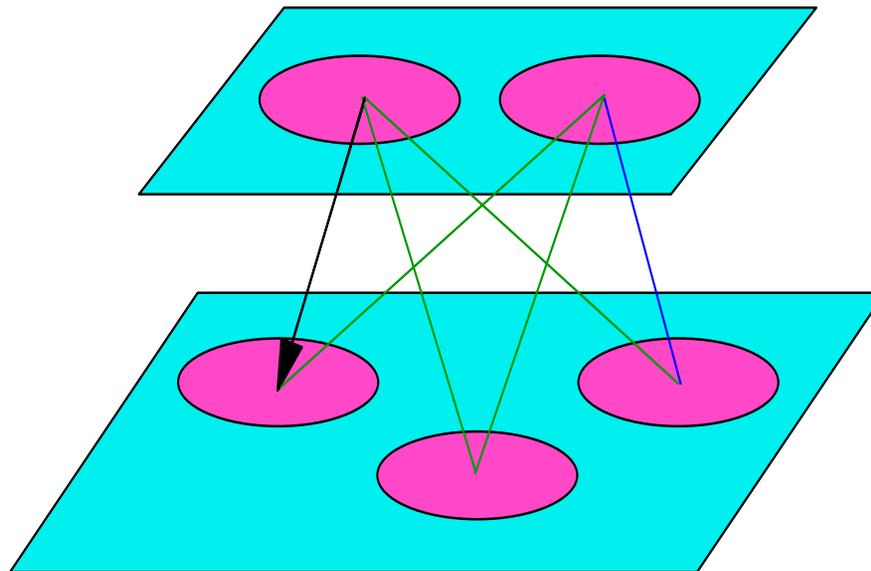


# Dynamic Transaction routing

$\text{trangrp}(x) = \{\text{tranid}\}$

$(\text{userid}, \text{luname}, \text{trangrp}, \text{processtype}) \rightarrow \text{SystemGroup}$

Associated with SystemGroup'



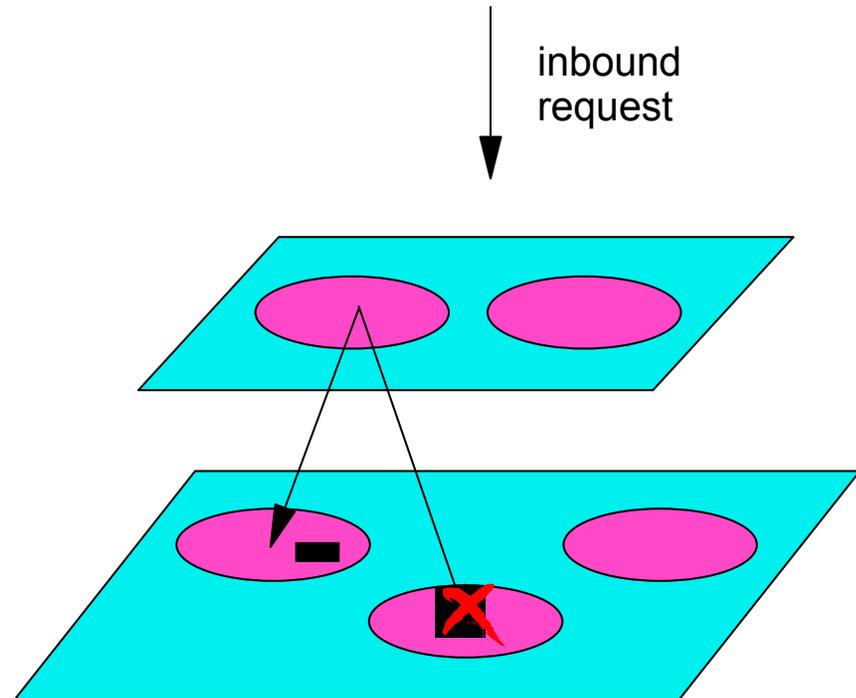
tranid(abcd)  
dynamic(yes)

tranid(abcd)  
dynamic(no)



# Affinities

- Inbound request routed
- Creates data in region
- Next route is different region
- Fails (hopefully!)



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IBM CICSplex SM Web User Interface

← → ↶ ↷ ?

**General views**

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### Workload manager administration views

**CMAS context:**

**Context:**

**Scope:**

**Definitional views**

- [Workload specifications](#)
- [Workload groups](#)
- [Workload definitions](#)
- [Transaction groups](#)

**Associated views**

- [CICS systems associated with workload specifications](#)
- [CICS system groups associated with workload specifications](#)
- [Workload groups in workload specifications](#)
- [Workload definitions in groups](#)
- [Transactions in transaction groups](#)

Menu name: EYUSTARTADMWLM

Done Internet



## Detecting potential problems – Real Time Analysis

- Provides the ability to detect states within CICSplex
- Provides the ability to take actions
  - ▶ Internally – perform a SET action when the predicate is true
  - ▶ Externally – send a console message/SNA Generic Alert/ CPSM EVENT followed by script execution
- Three flavours provided
  - ▶ System Availability Monitoring (SAM)
  - ▶ MAS Resource Monitoring (MRM)
  - ▶ Analysis Point Monitoring (APM)



## RTA - System Availability Monitoring

- Out of the Box function
  - ▶ Detects common states such as SOS, MAXTASK, Dumping
- If Time period specified for CICS region
  - ▶ Detects CICS is down when it should be up
- Also detects STALL state
  - ▶ Matrix of task number versus SUSPENDTYPE CPUTIME from EXEC CICS INQUIRE TASK
  - ▶ If task is in SUSPENDTYPE for longer than threshold value then alert is raised



## RTA – MAS Resource monitoring

- Allows user to specify thresholds on any attribute of any object instance
- Predicates may be combined via 'and' 'or' 'not' logic
- Simple thresholds
  - ▶ If tran(abcd) status ne enabled then .....
- Complex thresholds
  - ▶ Select tran(abcd)
  - ▶ When (0< responsetime<5seconds) then notification A
  - ▶ When (5< responsetime<10seconds) then notification B
  - ▶ .....
- Can also cater for transients on metric being tested
- Provides aggregation mechanisms such as AVG,HWM,LWM...
- Applies to each region within the specified scope



## RTA – Analysis Point Monitoring (APM)

- Thresholds specified similarly to MRM
- Applies to sets of systems within the SCOPE



## Fixing problems

- Internal automation via RTA
  - ▶ Via modification string expressions (SET commands)
    - Attribute1=value1,attribute2=value2.....
- External Automation via RTA
  - ▶ Via Automation products such as NetView
    - Message table entries for CPSM generated console messages
    - Capture of SNA Generic alerts
    - Execution of CPSM REXX API script
  - ▶ Via a CPSM API program
    - Utilising LISTEN verb
    - Execution of CPSM API commands



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Real Time Analysis (RTA) MAS resource monitoring administration views

**CMAS context:**   
**Context:**   
**Scope:**

**Main definitions**

- [Analysis specifications](#)
- [Analysis groups](#)
- [Analysis definitions](#)
- [Evaluation definitions](#)
- [User status probe definitions](#)
- [Action definitions](#)
- [Time period definitions](#)

**Association definitions**

- [CICS systems associated with analysis specifications](#)
- [CICS system groups associated with analysis specifications](#)
- [Analysis groups in analysis specifications](#)
- [Analysis definitions in groups](#)
- [Status definitions in groups](#)

Menu name: EYUSTARTADMMIRM

Done Internet

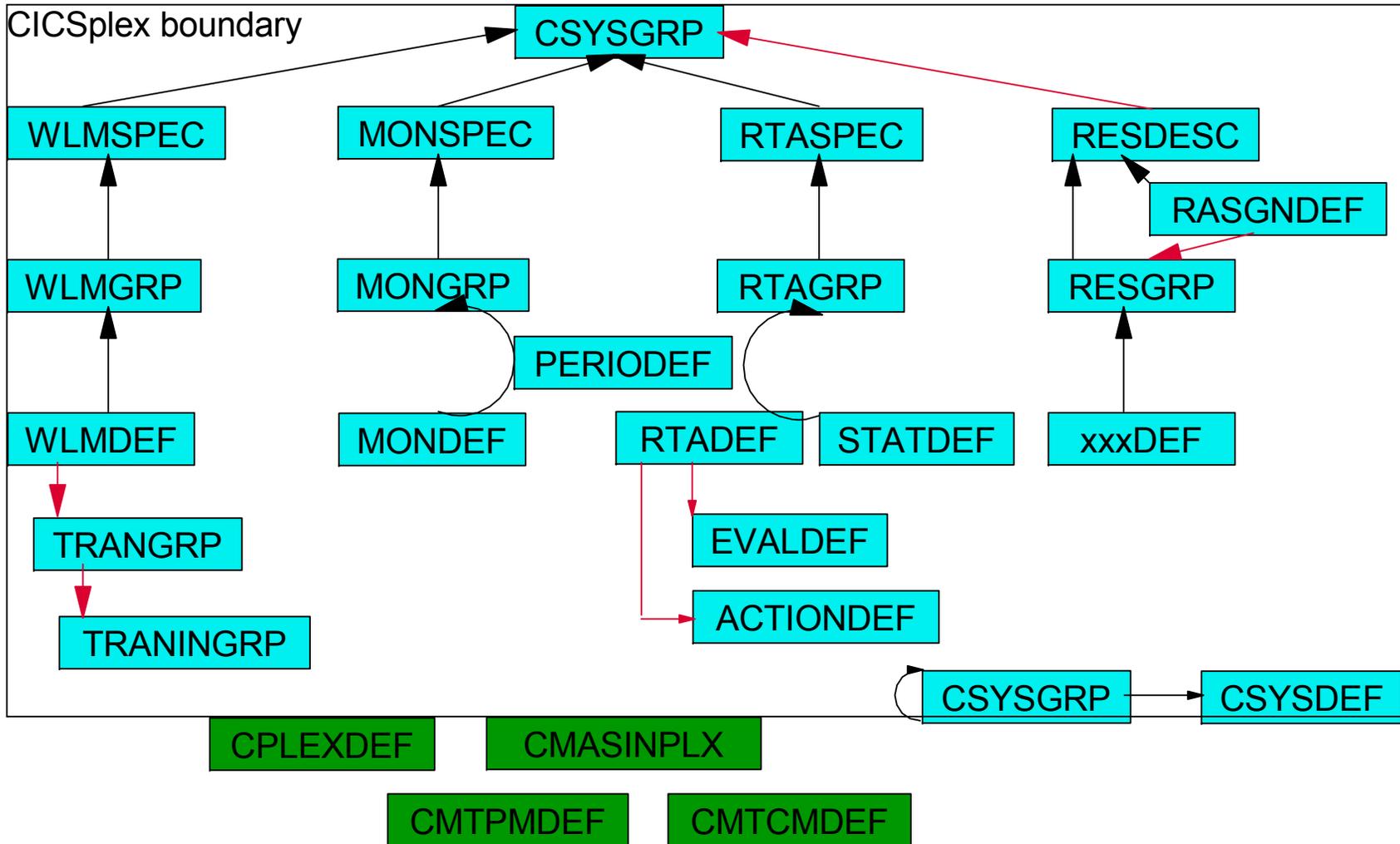


## Writing automation scripts – the CPSM APIs

- Many tasks are ‘one offs’
- Others need triggering via automation
  - ▶ Pre market open checks
- Others involve other subsystems
  - ▶ Checking both CICS and z/OS environments
- Other involve complex operational procedures
  
- CPSM provides access to all of its function via
  - ▶ EXEC CPSM verb for compiled programs (C, PLI, ASM)
  - ▶ REXX CPSM API programs
  - ▶ Synchronous and Asynchronous access
  - ▶ EVENT pub/sub process



# CICSplex SM Administrative objects



# Web User Interface

- Familiar Browser environment
  - ▶ Introduced for operations in CICS TS 1.3
  - ▶ Now fully capable
- Menu, Tabular/Detail view structure
- Hyperlinks between
  - ▶ levels of detail
    - e.g. tasks for given unit of work in CICSplex to task detail
  - ▶ resource relationships
    - e.g. navigate to program referenced by transaction
- NLS enabled
- User profiles
- Favourites support
  
- Capability to build your own menus and views via view editor
- Capability to manage user profiles and favourites via user and favourites editor
  
- Control transaction COVC



# WUI runtime



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Open  
[Home](#)  
[Repeat last menu](#)  
**+ General views**  
**+ View menus**  
**Special**  
[Refresh](#)  
[View editor](#)  
[User editor](#)  
[New window](#)  
[Close window](#)  
[Sign off](#)

### Main menu

EYUVC1015I Signon complete for User (pj).  
 EYUVC1314I You currently do not have any favorites.

CMAS context:   
 Context:   
 Scope:

Welcome to the CICSplex SM Web User Interface. Please select an item from the menu below.

### General views

- [CICS regions](#)
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- [Remote transactions](#)
- [Real Time Analysis \(RTA\) outstanding events](#)

### View menus

- [CICS operations views](#)  
Work with the managed CICS resources.
- [Monitoring views](#)  
View the results of CICS resources monitored by CICSplex SM.
- [Real Time Analysis \(RTA\) views](#)  
View the CICS resource status alerts.
- [Active workload views](#)  
Work with the CICS workloads being managed by CICSplex SM.
- [CICSplex SM operations views](#)

Internet



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Open  
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**General views**  
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- [Active workload views](#)  
Work with the CICS workloads being managed by CICSplex SM.
- [CICSplex SM operations views](#)  
View some of the CICSplex SM configuration.
- [Administration views](#)  
Work with CICSplex SM and CICS resource definitions.

Internet



CICSplex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

CICSplex SM Web User Interface

**CICS region**

EYUVC1280I 15 records collected at 2004/10/06 15:32:37.

Context: APOLLO Automatic refresh:  60 seconds. Refresh

Scope: APOLLO

15 records on 1 pages.

| Record | CICS system name         | Job name | MVS system ID | Current number of tasks | CICS status | CICS Release | Total CPU time used | Number of page-in requests | Number of page-out requests | Number of I/O requests |
|--------|--------------------------|----------|---------------|-------------------------|-------------|--------------|---------------------|----------------------------|-----------------------------|------------------------|
| 1      | <a href="#">IYEMST01</a> | IYEMST01 | MV51          | 4                       | ACTIVE      | 0640         | 0:02:16.6065        | 0                          | 0                           | 18976                  |
| 2      | <a href="#">IYEMST02</a> | IYEMST02 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.0860        | 0                          | 0                           | 9130                   |
| 3      | <a href="#">IYEMST03</a> | IYEMST03 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:04.5808        | 0                          | 0                           | 10629                  |
| 4      | <a href="#">IYEMST05</a> | IYEMST05 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.2426        | 0                          | 0                           | 9335                   |
| 5      | <a href="#">IYEMST07</a> | IYEMST07 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:03.9259        | 0                          | 0                           | 9364                   |
| 6      | <a href="#">IYEMST09</a> | IYEMST09 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:03.7781        | 0                          | 0                           | 9890                   |
| 7      | <a href="#">IYEMST11</a> | IYEMST11 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:03.3687        | 0                          | 0                           | 8686                   |
| 8      | <a href="#">IYEMST12</a> | IYEMST12 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:04.4269        | 0                          | 0                           | 10643                  |
| 9      | <a href="#">IYEMST13</a> | IYEMST13 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.1407        | 0                          | 0                           | 10143                  |
| 10     | <a href="#">IYEMST14</a> | IYEMST14 | MV51          | 5                       | ACTIVE      | 0640         | 0:00:04.2977        | 0                          | 0                           | 9454                   |
| 11     | <a href="#">IYEMST15</a> | IYEMST15 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:05.3946        | 0                          | 0                           | 9799                   |
| 12     | <a href="#">IYEMST17</a> | IYEMST17 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.1048        | 0                          | 0                           | 9530                   |
| 13     | <a href="#">IYEMST18</a> | IYEMST18 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:03.7951        | 0                          | 0                           | 9231                   |
| 14     | <a href="#">IYEMST19</a> | IYEMST19 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:04.2419        | 0                          | 0                           | 9713                   |
| 15     | <a href="#">IYEMSW1W</a> | IYEMSW1W | MV51          | 10                      | ACTIVE      | 0640         | 0:03:08.1087        | 0                          | 0                           | 93522                  |

Special  
Refresh  
View editor  
User editor  
New window  
Close window  
Sign off

Internet



CICSPlex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSPlex SM Web User Interface

15 records on 1 pages.

| Record | CICS system name         | Job name | MVS system ID | Current number of tasks | CICS status | CICS Release | Total CPU time used | Number of page-in requests | Number of page-out requests | Number of I/O requests |
|--------|--------------------------|----------|---------------|-------------------------|-------------|--------------|---------------------|----------------------------|-----------------------------|------------------------|
| 1      | <a href="#">IYEMST01</a> | IYEMST01 | MV51          | 4                       | ACTIVE      | 0640         | 0:02:16.8065        | 0                          | 0                           | 18976                  |
| 2      | <a href="#">IYEMST02</a> | IYEMST02 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.0860        | 0                          | 0                           | 9130                   |
| 3      | <a href="#">IYEMST03</a> | IYEMST03 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:04.5808        | 0                          | 0                           | 10629                  |
| 4      | <a href="#">IYEMST05</a> | IYEMST05 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.2426        | 0                          | 0                           | 9335                   |
| 5      | <a href="#">IYEMST07</a> | IYEMST07 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:03.9259        | 0                          | 0                           | 9364                   |
| 6      | <a href="#">IYEMST09</a> | IYEMST09 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:03.7781        | 0                          | 0                           | 9890                   |
| 7      | <a href="#">IYEMST11</a> | IYEMST11 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:03.3687        | 0                          | 0                           | 8686                   |
| 8      | <a href="#">IYEMST12</a> | IYEMST12 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:04.4269        | 0                          | 0                           | 10643                  |
| 9      | <a href="#">IYEMST13</a> | IYEMST13 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.1407        | 0                          | 0                           | 10143                  |
| 10     | <a href="#">IYEMST14</a> | IYEMST14 | MV51          | 5                       | ACTIVE      | 0640         | 0:00:04.2977        | 0                          | 0                           | 9454                   |
| 11     | <a href="#">IYEMST15</a> | IYEMST15 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:05.3946        | 0                          | 0                           | 9799                   |
| 12     | <a href="#">IYEMST17</a> | IYEMST17 | MV51          | 4                       | ACTIVE      | 0640         | 0:00:04.1048        | 0                          | 0                           | 9530                   |
| 13     | <a href="#">IYEMST18</a> | IYEMST18 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:03.7951        | 0                          | 0                           | 9231                   |
| 14     | <a href="#">IYEMST19</a> | IYEMST19 | MV51          | 3                       | ACTIVE      | 0640         | 0:00:04.2419        | 0                          | 0                           | 9713                   |
| 15     | <a href="#">IYEMSW1W</a> | IYEMSW1W | MV51          | 10                      | ACTIVE      | 0640         | 0:03:08.1087        | 0                          | 0                           | 93522                  |

15 records on 1 pages.

Shutdown... Request system dump... Switch auxiliary tracing data set...  
 Reset the internal CICS clock... Rebuild security profiles... Delete shipped terminal definitions...  
 Request statistics processing...

Resource name: CICS RGN. View name: EYUSTARTCICSRGN.TABULAR

Internet



CICSplex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

Open

- Home
- Repeat last menu

**General views**

- CICS regions
- Active tasks
- ISC and MRO connections
- Terminals
- Local files
- Remote files
- Local or dynamic transactions
- Remote transactions
- Real Time Analysis (RTA) outstanding events

**View menus**

- CICS operations views
- Monitoring views
- Real Time Analysis (RTA) views
- Active workload views
- CICSplex SM operations views
- Administration views

**Special**

- Refresh
- View editor
- User editor
- New window
- Close window
- Sign off

**CICS region**

EYUVC1280I 15 records collected at 2004/10/06 15:32:37.

Refresh

|  |                                   |
|--|-----------------------------------|
| <b>CICS system name</b>                                | IYEMST01                          |
| <b>CICS Release</b>                                    | 0640                              |
| <b>Job name</b>  | IYEMST01                          |
| <b>VTAM application ID</b>                             | IYEMST01                          |
| <b>MVS system ID</b>                                   | MV51                              |
| <b>CICS system ID</b>                                  | MT01                              |
| <b>Activity keypoint (AKP) frequency</b>               | <input type="text" value="4000"/> |
| <b>Number of MRO requests to be batched</b>            | <input type="text" value="1"/>    |
| <b>Priority aging value</b>                            | <input type="text" value="500"/>  |
| <b>Runaway time interval</b>                           | <input type="text" value="5000"/> |
| <b>Terminal scan delay time</b>                        | <input type="text" value="100"/>  |
| <b>Exit wait time</b>                                  | <input type="text" value="1000"/> |
| <b>Number of load requests</b>                         | 1                                 |
| <b>Total loading time</b>                              | 0:00:00.0314                      |
| <b>Number of waiting loader requests</b>               | 0                                 |
| <b>Number of tasks waiting for load requests</b>       | 0                                 |
| <b>Peak number of tasks waiting for load requests</b>  | 0                                 |
| <b>Number of times maximum suspended tasks reached</b> | 0                                 |
| <b>Total load waiting time</b>                         | 0:00:00.0000                      |
| <b>Default remote system</b>                           | Not applicable                    |
| <b>MVS system name</b>                                 | MV51                              |

Done Internet



CICSplex SM Web User Interface - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

Home  
Repeat last menu

**General views**

- CICS regions
- Active tasks
- ISC and MRO connections
- Terminals
- Local files
- Remote files
- Local or dynamic transactions
- Remote transactions
- Real Time Analysis (RTA) outstanding events

**View menus**

- CICS operations views
- Monitoring views
- Real Time Analysis (RTA) views
- Active workload views
- CICSplex SM operations views
- Administration views

**Special**

- Refresh
- View editor
- User editor
- New window
- Close window
- Sign off

**Configuration options:**

- Separate conversational task performance records: NOCONVERSE
- Shutdown transaction: CESD
- Web domain garbage collection interval: 0
- Web domain terminal timeout interval: 0
- Debugging profiles status: NODEBUG
- Good morning message: CICS/TS 3.10 LMAS on WINI
- Good morning transaction ID: CSGM

**Monitoring, dump and trace details**

- [Task details](#)
- [Autoinstall details](#)
- [Active tasks](#)
- [Global temporary storage attributes](#)
- [Global transient data queue attributes](#)
- [Dynamic storage areas](#)
- [Transaction classes](#)
- [Global user exits](#)
- [Task related user exits](#)

**Buttons:**

- Apply changes
- Shutdown...
- Request system dump...
- Switch auxiliary tracing data set...
- Reset the internal CICS clock...
- Rebuild security profiles...
- Delete shipped terminal definitions...
- Request statistics processing...

Resource name: CICS RGN. View name: EYUSTARTCICSRGN.DETAILED

Done Internet



CICSplex SM Web User Interface - DEWCB8W0 - PJ - Netscape

IBM. CICSplex SM Web User Interface

**Dynamic Storage Areas (DSA)**

CICS system name: DEWCB8A0

Short on storage status: Notsos

Current DSA limit:  6291456

Total storage currently allocated to DSAs: 1048576

Peak amount of storage allocated to DSAs: 1048576

[Extended Dynamic Storage Areas \(EDSA\)](#)

**Dynamic Storage Areas**

|                                    | CDSA   | UDSA | SDSA   | RDSA   |
|------------------------------------|--------|------|--------|--------|
| DSA Size                           | 524288 | 0    | 262144 | 262144 |
| Peak DSA Size                      | 524288 | 0    | 262144 | 262144 |
| Current Free Storage               | 131072 | 0    | 253952 | 69632  |
| Times Short-on-Storage             | 0      | 0    | 0      | 0      |
| Times no storage returned          | 0      | 0    | 0      | 0      |
| Current Subpools (domain and task) | 39     | 19   | 7      | 4      |
| Getmain Request                    | 3245   | 0    | 12     | 0      |
| Freemain Request                   | 3245   | 0    | 6      | 0      |

Apply changes

Resource name: CICSSTOR. View name: IBM\_CMZCICSSTOR.DETAIL1



CICSplex SM Web User Interface - IYK3ZDB3 - DBUSBY - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

**Terminal**

FYIIVC12801 2 records collected at 08/20/04 11:10:28

|   |           |   |                |
|---|-----------|---|----------------|
| CICS system name                              | IYK3ZDB3  | Terminal ID                                 | CBRF           |
| Access method                                 | Vtam      | Acquire status                              | Notapplic      |
| Alternate page height                         | 0         | Alternate page width                        | 0              |
| Alternate printer                             |           | Hardware COPY feature for alternate printer | Notapplic      |
| Alternate screen height                       | 0         | Alternate screen width                      | 0              |
| Alternate-map-set suffix                      | 00X       | APL keyboard feature                        | Noaplkbybd     |
| APL text feature                              | Noapltxt  | ASCII data stream type                      | Notapplic      |
| Automatic transaction initiation (ATI) status | Ati       | Audible alarm feature                       | Audalam        |
| Session binding status                        | Notapplic | Background transparency feature             | Backtrans      |
| Extended color feature                        | Color     | Console ID                                  |                |
| Copy feature in control unit                  | Nocopy    | Correlation ID                              |                |
| Session creation status                       | Notapplic | Device data stream type                     | Ds3270         |
| Default page height                           | 24        | Default page width                          | 80             |
| Default screen height                         | 24        | Default screen width                        | 80             |
| Device type                                   | T3277r    | Device busy status                          | Not applicable |
| Disconnect Requests status                    | Discreq   | Dual-case keyboard status                   | Nodualcase     |
| Exit tracing status                           | Notapplic | Extended data stream support                | Extendeddds    |
| Function management header (FMH) option       | Nofmhparm | Forms feed feature                          | Noformfeed     |

Applet EyuWuiWatchdog started

Internet



## Dynamic selection lists

- WUI enabled to generate dynamic selection lists
  - Fields that are capable for dynamic selection lists are marked with an icon
    - clicking the icon will open a selection list screen
    - filters applicable to the list



### Add to resource group

|                          |  |
|--------------------------|--|
| Terminal definition name | TRMA   |
| Definition version       | 1  |
| Definition description   | My 1st terminal definit on   |
| Resource group name      | <input type="text"/>  |

### Resource selection

Select a value from the list below and click 'OK'.

Resources matching key:

| Select                | Resource name | Resource description         | Resource type | Resource status |
|-----------------------|---------------|------------------------------|---------------|-----------------|
| <input type="radio"/> | DWGRP1        | Daves group                  | Resgroup      | N/A             |
| <input type="radio"/> | RESGRP1       | My 1st resource group thingy | Resgroup      | N/A             |
| <input type="radio"/> | RESGRP2       | My 2nd RESGROUP              | Resgroup      | N/A             |
| <input type="radio"/> | RESGRP3       | My 3rd resource group        | Resgroup      | N/A             |
| <input type="radio"/> | RESGRP4       | My special modelly type      | Resgroup      | N/A             |



## Filter confirmation

- WUI view editor allows filter confirmation
  - specify a filter confirmation screen to be displayed before data retrieval

The screenshot shows a dialog box titled "Filter confirmation for Local file". On the left is a blue sidebar with navigation links: "Open", "Home", "Repeat last menu", and expandable sections for "Alerts", "Regions", "Activity", "Connectivity", "Files & DB2", and "Journals". The main area of the dialog has a title bar with navigation icons (back, forward, print, help). Below the title bar is a yellow message bar with the text "EYUVC1289W Review the filters and click OK to confirm this action." and a help icon. The main content area is light blue and contains the following fields:

- Context:
- Scope:
- File ID:
- Enablement status:
- Open status:

At the bottom of the dialog are "OK" and "Cancel" buttons.

## Result set warning count

- Issue a warning if the request returns more data than expected
  - provide the opportunity to alter filters or cancel the request before execution
  - Maximum size of a result set specified in ...
    - user group profile, if WUI is running with security
      - set by an administrator
    - DEFAULTWARNCNT parameter in WUIPARM
      - default is 0, meaning no warning issued
- Warning count screen

**Warning count for Program**

**EYUVC1258W** This action may produce a result set containing 2008 entries. Click Refresh to retry with different filters or click OK to proceed.

Context:

Scope:

Program name:

Automatic refresh:   seconds.

# Favorites support

- Faster access to frequently used views
  - New “Favorites” in Navigation frame
  - “Add to favorites” icon on tabular and detail views
    - Added to new “USER” object in WUI repository
  - Favorites editor to create/update/delete/rename favorites

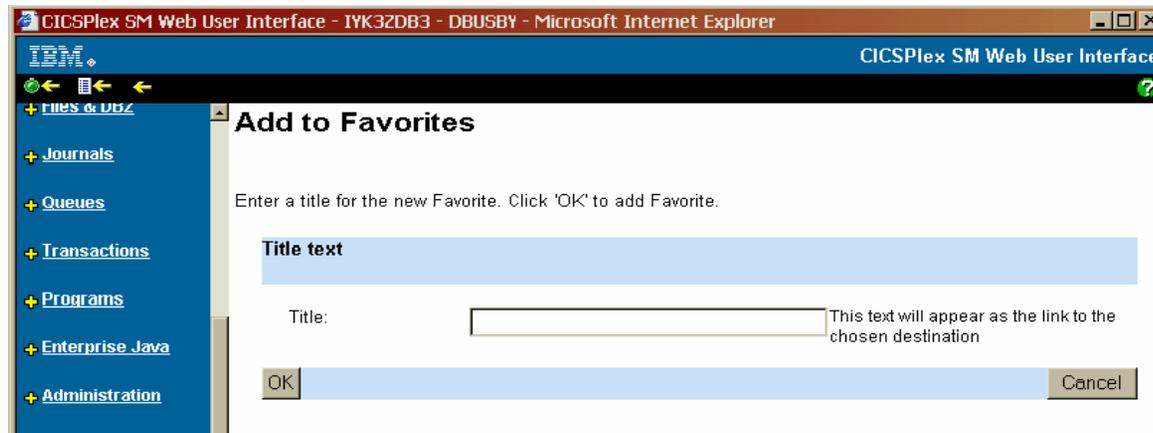
The screenshot displays the IBM WebSphere WUI interface for monitoring a CICS region. The left navigation pane includes a new '+ Favorites' link and a 'Special Favorites editor' link. The main content area shows a table of CICS records with an 'Add to favorites' icon in the top right corner of the table header. Annotations highlight these features with red circles and yellow callouts.

| Record | CICS system name         | MVS system ID | Current number of tasks | CICS status | CICS Release | Total CPU time used | Number of page-in requests | Number of page-out requests | Number of I/O requests |
|--------|--------------------------|---------------|-------------------------|-------------|--------------|---------------------|----------------------------|-----------------------------|------------------------|
| 1      | <a href="#">IYK3ZDB3</a> | WUIZDB3       | MV2C                    | 6 Active    | 0640         | 0:00:06.4332        | 0                          | 0                           | 166                    |

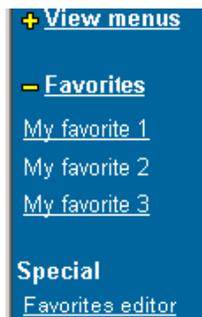


# Adding a favorite

- Click icon  on view
  - Displays a screen to add a title



- the view will be accessible from the Navigation frame



## Expand / collapse filters

- Can collapse filters when not in use
  - To display more data in tabular views
  - Filters expanded

Context: DWBPLEX1  
Scope: DWBPLEX1  
Task ID: = [ ] Aa  
Transaction ID: = [ ] Aa  
Dispatch status: = [ ]  
Automatic refresh:  60 seconds.  
Refresh

- Filters Collapsed

+ Context=DWBPLEX1' Scope=DWBPLEX1' Task ID=' Transaction ID=' Dispatch status='  
Automatic refresh:  60 seconds. Refresh

- New FILTERSTYLE parameter in WUIPARM
  - FILTERSTYLE ( EXPAND | COLLAPSE )
  - specifies how the filters should be displayed by default



## Architected urls

- Prefix:path?selectioncriteria
- Prefix is http or https
- Path is
  - ▶ Hostname:port/CICSplexSM/codepage/userid
  - ▶ Hostname:port/CICSplexSM/codepage/userid/MENU/menuuname
  - ▶ Hostname:port/CICSplexSM/codepage/userid/VIEW/viewset.view
  - ▶ Hostname:port/CICSplexSM/codepage/userid/DATA
- Selectioncriteria
  - ▶ Standard url query string format to qualify request
    - e.g. &Context=testplex&scope=aorset



# WUI Editor



## Why create your own views?

- Supplied views
  - ▶ object based
  - ▶ Resource references and navigable
- Customised views
  - ▶ Task based
  - ▶ Specific to your system e.g. online stock trading company
    - Pre market open checks menu and views
    - Post market checks menu and view
    - Problem determination menus and views
    - Help desk views
    - System cut over menus and views
  - ▶ All in ***your*** terminology with the data which is important to ***you***
  - ▶ Can be integrated into your online web documentation



CICSplex SM Web User Interface Editor - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

**Special**  
[New Home window](#)  
[New editor window](#)  
[Close window](#)  
[Sign off](#)

### CICSplex SM Web User Interface Editor

Select Web User Interface resource type to work with. Close this window to exit the Editor when you have finished.

**Web User Interface resource**

|                           |                               |
|---------------------------|-------------------------------|
| <a href="#">Menus</a>     | Work with Menus               |
| <a href="#">View sets</a> | Work with View sets and Views |

Done Internet



CICSplex SM Web User Interface Editor - IYEMSW1W - PJ - Microsoft Internet Explorer

IBM. CICSplex SM Web User Interface

**Special**  
[New Home window](#)  
[New editor window](#)  
[Close window](#)  
[Sign off](#)

### Tabular View Components

Select the tabular View component you wish to edit. You will return to this screen and can select other components later. Click 'OK' when you have finished. Click 'Cancel' to abandon your changes.

**Selected view**

**View:** TABULAR  
**View title:** Dynamic storage area  
**Object:** CICSDSA  
**View set:** EYUSTARTCICSDSA

**Tabular view components**

|   |  |  |
|---|--|--|
| 1 | <a href="#">Table contents</a>               | Edit the columns of the table and their contents.  |
| 2 | <a href="#">Title and annotation</a>         | Edit the View title and the annotation that appears at the bottom of the display.  |
| 3 | <a href="#">Action buttons</a>               | Edit the buttons that will be available to perform actions or launch action confirmation panels.                                 |
| 4 | <a href="#">View help location</a>           | Edit the location of the help page, if any.  |
| 5 | <a href="#">Available filters</a>            | Edit the set of attributes and parameters that will be made available to the user to filter the Object instances on the display. |
| 6 | <a href="#">Context and Scope options</a>    | Edit the Context and Scope display options.  |
| 7 | <a href="#">Tabular View display options</a> | Edit the display options, including the number of rows to display and the availability of automatic screen update.               |

OK Cancel

Internet



# Setting filter confirmations in the WUI Editor

The screenshot illustrates the configuration process in the WUI Editor. It shows three overlapping dialog boxes:

- Menu Choice Type:** This dialog prompts the user to "Select the type of the Menu choice and click 'OK' to continue." The "Selected menu" is "TI\_MENU". Under "Menu choice type", the "View link" option is selected and circled in red. An arrow points from this selection to the "Menu Choice Components" dialog.
- Menu Choice Components:** This dialog prompts the user to "Select the menu choice component you wish to edit." The "Selected item" is "TASK tabular view". Under "Menu choice components", the "Destination" option is selected and circled in red. An arrow points from this selection to the "Filter confirmation" dialog.
- Filter confirmation:** This dialog has a "Target View name:" field. The "Use filter confirmation prior to get" checkbox is checked. A note states: "If selected, the user will be able to specify filter criteria before getting the data for the view." The dialog includes "OK" and "Cancel" buttons.

Red dashed circles and arrows highlight the flow of configuration from the "View link" selection to the "Destination" selection, and finally to the "Filter confirmation" dialog.

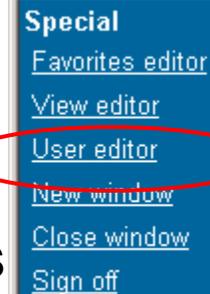


# User profile editor



## User group profiles

- Set profiles for groups of users
  - groups such as..
    - Operators, Sysprogs, Developers, etc.
  - user group profile contains information for
    - result set warning count
    - default main menu and navigation menu
    - default context and scope, CMAS context
  - if not retrieved from profile, defaults from WUIPARM is used
  - New “User Group” object to store profile information
  - Security needs to be activated in the WUI
- Setting up the user group
  - To create a user group...
    - Use the new User Editor to create the user group profile
    - Create a user group with the same name in the ESM
  - Associate a user to the user group
    - Set the user group as the user’s default user group in the ES



Special  
[Favorites editor](#)  
[View editor](#)  
[User editor](#)  
[New window](#)  
[Close window](#)  
[Sign off](#)



# Managing user group profiles

- User Editor (for administrators)
  - “User groups” screen
    - Can create, edit, delete a user group and its profile

The screenshot displays the IBM WebSphere User Editor interface. On the left, a navigation menu includes 'Special', 'New Home window', 'New editor window', 'Close window', and 'Sign off'. The main content area is titled 'CICSplex SM Web User Interface User Editor' and contains a 'User resource' section with a red circle around the 'User groups' link. Below this, the 'User Group Editor' section offers operations: 'Create' (Create a new User resource), 'Edit' (Edit an existing User resource), 'Delete' (Delete an existing User resource), and a 'Finish' button. A red dashed arrow points from the 'Edit' link to the 'Edit User Group Profile' form on the right. This form shows a success message: 'EYUVE0949I User group (TI@TEST) has been created.' Below the message, it prompts the user to 'Enter values for the User group profile attributes'. The form includes a 'Selected user group' field with 'TI@TEST' entered. Under 'Profile attributes', there are several input fields: 'Warning record count', 'Default main menu', 'Default navigation menu', 'Default context', 'Default scope', and 'Default CMAS context'. Each field has a corresponding help text on the right. At the bottom of the form are 'Save' and 'Abandon' buttons.

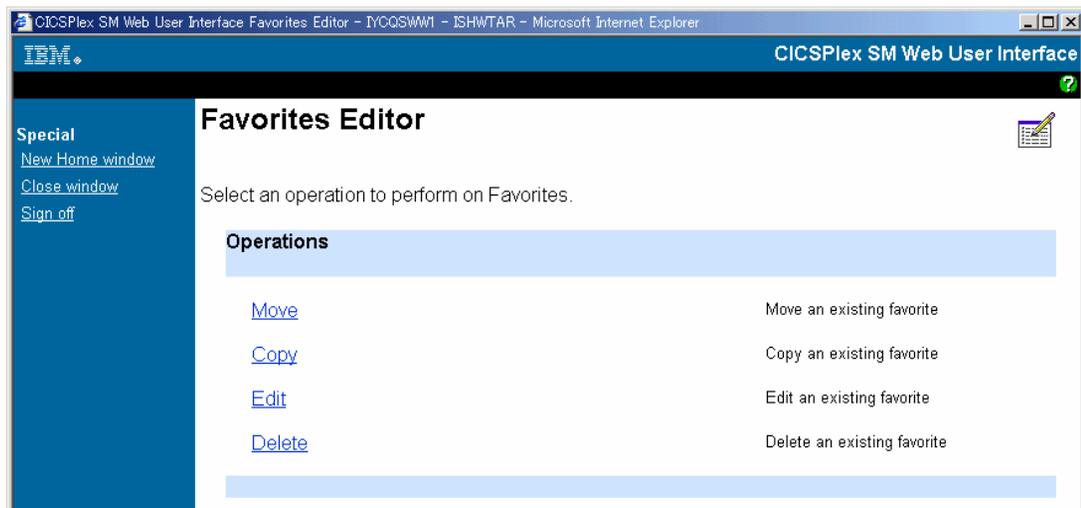


# Favourites editor



## Favorites editor

- To alter the list of Favorites
  - Move
    - change position of an item on the favorites list
  - Copy
    - copy an existing favorite to a different name
  - Edit
    - change the title, target view set and view, context and scope, filter settings
  - Delete
    - delete an item



# Favorites editor sample – editing a favorite

## Select Favorite to Edit

Select the favorite you wish to edit and click 'OK' to continue.

**Current user**

User: ISHWTA

Last modified by: ISHWTA

Last modified on: 2004/07/

**Selected item**

Item: My favorite 1

**Favorites contents**

**Favorites**

- My favorite 1
- My favorite 2
- My favorite 3

**Menu choice components**

- 1 [Title and annotation](#)
- 2 [Destination](#)

OK

**Selected view link**

View set and view: EYUSTARTCICSRGN.TABULAR

Item: My favorite 1

**View link components**

- 1 [Target View set and View](#)
- 2 [Context and Scope settings](#)
- 3 [Filter attributes and parameters](#)

Finish

**Target View set**

Use an existing View set

Existing target View set:

- EYUSTARTCICSRGN
- EYUSTARTCLCACHE
- EYUSTARTCMAS
- EYUSTARTCMASLIST
- EYUSTARTCMASPLEX
- EYUSTARTCMDMPAPS
- EYUSTARTCMDMSAPS
- EYUSTARTCMDT
- EYUSTARTCMTMDEF
- EYUSTARTCMTMLNK
- EYUSTARTCMTMDEF
- EYUSTARTCMTMPLNK

Select the target View set from the

Use a specified View set

Target View set name:

OK

OK

Cancel



# Managing favorites for other WUI users

- User Editor
  - “User” screen
    - Can create, edit, delete a user and its favorite list

The screenshot illustrates the workflow for managing user favorites in the IBM WebSphere User Editor. It consists of three overlapping windows:

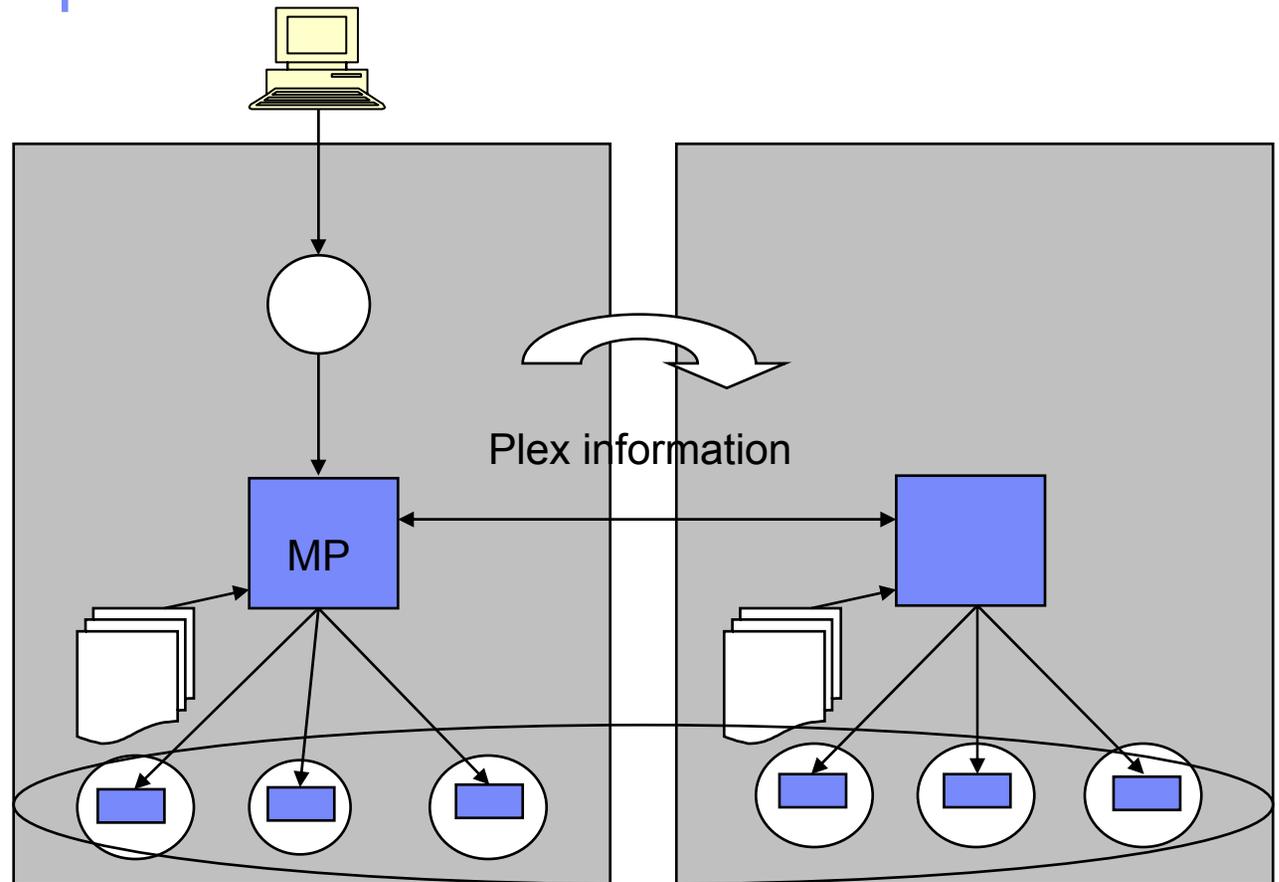
- User Editor:** The main window titled "CICSplex SM Web User Interface User Editor". It contains a "User resource" section with a link to "Users" (circled in red). Below it is an "Operations" section with links for "Create", "Edit" (circled in red), and "Delete". A "Finish" button is at the bottom.
- Favorites Editor:** A smaller window titled "Favorites Editor" that appears after clicking "Edit" in the User Editor. It shows a message "EYUVE0978I User (ISHWTAR) has been opened for edit." and an "Operations" section with links for "Create", "Move", "Copy", "Edit" (circled in red), and "Delete". A "Save" button is at the bottom.
- Select Favorite to Edit:** A dialog box titled "Select Favorite to Edit" that appears after clicking "Edit" in the Favorites Editor. It prompts the user to "Select the favorite you wish to edit and click 'OK' to continue." It displays the "Current user" as "ISHWTAR" and "Last modified on:" as "2004/08/11 14:07:35". Under "Favorites contents", there is a list of favorites: "My favorite 1" and "My favorite 2". "OK" and "Cancel" buttons are at the bottom.

Red arrows indicate the flow of the process: from the "Users" link in the User Editor to the Favorites Editor, and then from the "Edit" link in the Favorites Editor to the "Select Favorite to Edit" dialog.



# CICSplex SM setup

- ▶ Install and activate CMAS
- ▶ Configure MP CMAS
  - ▶ Define plex
  - ▶ Regions in CICSplex
  - ▶ WUI Server region
  - ▶ Link to other CMAS
  - ▶ Other CMAS involved
- ▶ Configure other CMAS
  - ▶ Link to other CMAS
- ▶ Install agent code



- ▶ Install and activate WUI Server
  - ▶ Autoimport of WUI views



## Summary

- Fully functional Single System Image System Management tool
- Provided as part of CICS Transaction Server
- Providing
  - ▶ Resource definition
  - ▶ Operations
  - ▶ Thresholding
  - ▶ Automation
  - ▶ Dynamic workload management
  - ▶ Modern Browser interface
  - ▶ Scripting APIs
  - ▶ Integration with IBM System Management tooling

