



IBM Software Group



# IBM CICS Explorer®

## The New Face of CICS

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Marketing Manager - CICS Tools



Customer presentation

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## Agenda

- **The changing world**
- **The New Face of CICS**
- **Demonstration**
- **Screenshots**



# IBM CICS

“

"CICS is **probably the most successful piece of software of all time** . . . It is the mainstay of business computing throughout the world . . . Millions of users unknowingly activate CICS every day, and if it were to disappear the world economy would grind to a halt."

*Phil Manchester,  
Personal Computer  
Magazine*

”

- Most of the top 50 Global banks use CICS
- Most of the fortune 100 use CICS
- 30 years and \$1 trillion invested in CICS applications (IDC)
- 10,000+ CICS mainframe licenses worldwide
- 950,000+ concurrent users/system
- 5,000 CICS software packages from 2,000 ISVs
- 950,000 programmers earn their living from CICS
- CICS handles more than 30 billion transactions/day valued at over \$1 trillion/week for 30 million end users of CICS Apps
- CICS TS v3 (SOA release) had fastest uptake of any CICS release.
  - 40% utilizing CICS Web Services capability

## Large bank in China

- 30 Million Txns/Hour
- 9445 TPS
- 99.9% Txns <400 Msec
- Av Tx 200 Msec

## Large Asian Bank

- 14,250 TPS
- 210 Million records deployed in <45 mins

- *CICS & System z – making computing more affordable*



“

Although most people are blissfully unaware of CICS, they probably make use of it several times a week, for almost every commercial electronic transaction they make. In the whole scheme of things, **CICS is much more important than Microsoft Windows.**"

*Martin Campbell-Kelly, From  
Airline Reservations to Sonic  
the Hedgehog (A History of the  
Software Industry*

”

## The changing world

- **First- and second-generation System z specialists exit the industry**
  - ▶ Enterprises must transfer skills, knowledge and best practice to new CICS technical staff
  - ▶ Productivity must be maintained, and service-levels protected
- **Opportunity to build new System z skill pool**
  - ▶ Specialists can collaborate with new developers and administrators to create new applications, and manage IT resources with a smaller operations team.
- **CICS family is making a significant contribution by reducing the skills barrier to the development and management of CICS systems**
- **IBM CICS Explorer**
  - ▶ Common, intuitive, Eclipse-based tooling environment for architects, developers, system administrators, system programmers, and operators
  - ▶ Integrated access to a broad range of data and control capabilities
  - ▶ Supports CICS runtime, CICS tools, and CICS connectors, Problem Determination Tools plus other IBM and third-party software products

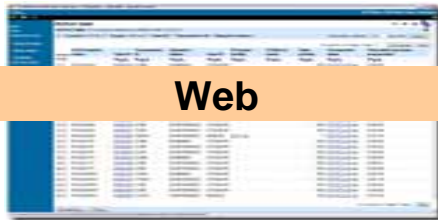


# The changing face of CICS tooling

**CICS Explorer** reduces need for multiple interfaces

*Previously...*

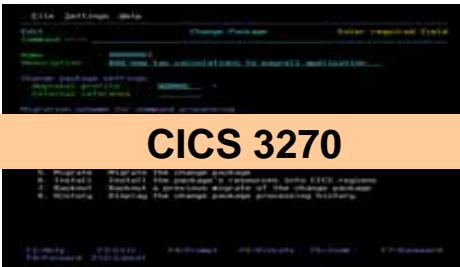
*Now ...*



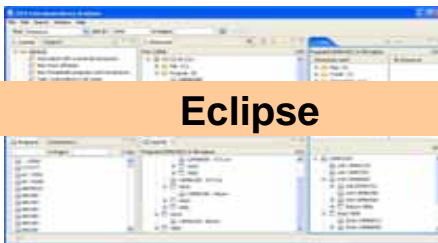
**Web**



**ISPF**



**CICS 3270**



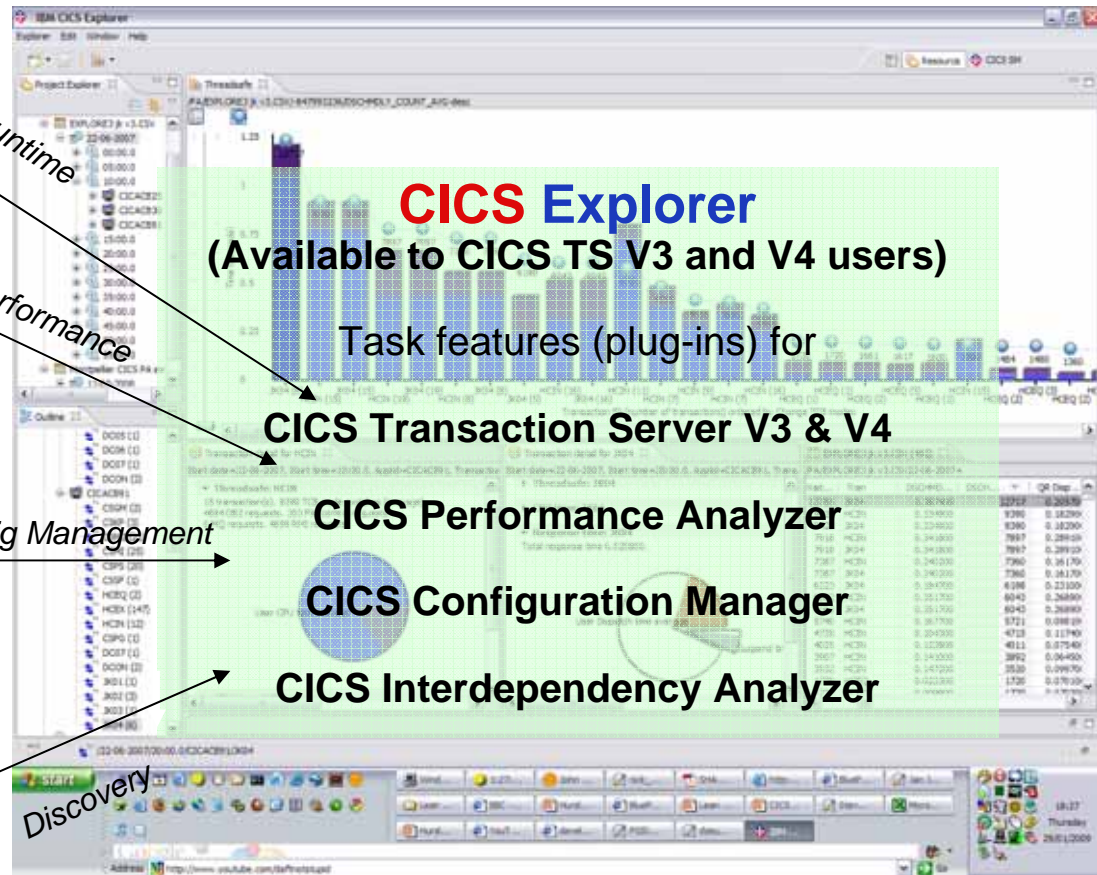
**Eclipse**

*Runtime*

*Performance*

*Config Management*

*Discovery*



**CICS Explorer**  
(Available to CICS TS V3 and V4 users)

Task features (plug-ins) for

**CICS Transaction Server V3 & V4**

**CICS Performance Analyzer**

**CICS Configuration Manager**

**CICS Interdependency Analyzer**

# IBM CICS Explorer® V1.1.1

Session and user views, Configuration, Broadcast, User and Admin commands

**ISM**

Daemon & Connection Status & Test

**TG**

Manage IMS ...

**IMS Explorer**

Develop Test

**RDz**

Configuration Status Control, Test

**MQ**

Status Situations Topology

**XE**

Manipulate, browse z/OS data sets, z/FS, VSAM, MQ, CICS, DB2

**FM**

CICS, IMS, DB2, & z/OS Abend Reporting & Diagnosis

**FA**

*Enhanced!*

Threadsafe, File, CPU, Response & Wait analysis, Statistics, Alerts, Graphical and Sheet views

**PA**

Deployment, Discovery, Visualization, Cloning, Automation & Control

**DA**

CICS, IMS, DB2, & z/OS Application Debugging

**DT**

*Enhanced!*

CICS, IMS, DB2, & z/OS Observation Requests & Reporting

**APA**



*Enhanced!*

Execution Tree Dependencies Queries Command Flow

**IA**

CRUD, Install, History, Backout, Audit, Search, Compare, Packaging

**CM**

CRUD, Install, Control, Filter, Sort, Topology, Events, ATOM, Java, WLM, Txn Tracking, Copy/Paste

**SM**

3270 application performance testing

**WSIM**

*New!*

[ibm.com/cics](http://ibm.com/cics)  
[ibm.com/cics/tools](http://ibm.com/cics/tools)  
[ibm.com/cics/explorer](http://ibm.com/cics/explorer)

*Enhanced!*

SM	CICS Transaction Server
IA	CICS Interdependency Analyzer
PA	CICS Performance Analyzer
CM	CICS Configuration Manager
DA	CICS Deployment Assistant
TG	CICS Transaction Gateway
ISM	IBM Session Manager

z/OS Connections, z/OS Datasets, z/FS files, JES

**z/OS Explorer**

*New!*

**CICS TS, IMS, DB2, MQ, z/OS**

APA	Application Performance Analyzer
FA	Fault Analyzer
DT	Debug Tool
FM	File Manager
WSIM	Workload Simulator
MQ	WebSphere MQ
XE	OMEGAMON XE for CICS
RDz	Rational Developer for System z



## IBM CICS Explorer® - The New Face of CICS

### Key features

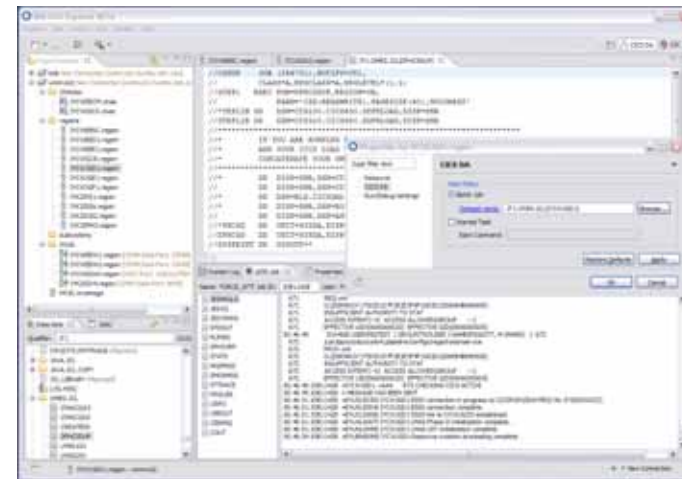
- ▶ Common, intuitive, Eclipse-based environment for architects, developers, administrators, system programmers, and operators
- ▶ Task-oriented views provide integrated access to broad range of data and control capabilities
- ▶ Powerful, context-sensitive resource editors for CICS resource definitions
- ▶ Access to zOS datasets, files, spool, and log
- ▶ Common connection and credential management with export/import
- ▶ Integration point for CICS TS (V3 & V4), CICS Tools (IA, PA, CM, DA), CICS TG, PD Tools (FA, DT, APA, FM, WSIM), WebSphere MQ Explorer, OMEGAMON XE for CICS
- ▶ Integrated with [Rational Developer for System z](#) and [IMS Explorer](#)

### Availability

- ▶ More information at [ibm.com/cics/explorer](http://ibm.com/cics/explorer)
- ▶ Download [ibm.com/cics/explorer/download](http://ibm.com/cics/explorer/download)

### New in CICS Explorer V1.1.1

- z/OS Explorer component
- Connection Management view
- Java Web Start
- Copy and paste to a spreadsheet or a new resource
- Numerous z/OS file and dataset enhancements,
- CICS TS for z/VSE support



## What's new in **CICS Explorer V1.1.1**

Capability	Value
z/OS Explorer component	Consistent user experience in variety of desktop platforms
z/OSMF connection type	Access to active spool, more control, better performance
Shared connection definitions	Reduced user set-up for large or complex environments
Java Web Start	Simplified deployment for large user communities
Copy / Paste as ...	Fast duplication of 'model' resource definitions
Support for CICS VSE	Extend value to VSE customers
Export file/folder to z/OS, create new z/OS Unix file and data set	Minimise choppy user experience
Multiple selection job submission and output deletion	Task acceleration
Copy/paste resource data to a spreadsheet	Facilitate analysis, sharing. and collaboration





## What's new in **CICS Explorer V1.1**

Capability	Value
Event Processing impact analysis, search, system events, separated event adapters	Powerful event search capability eases event lifecycle management
	System events can help to understand CICS operational issues more quickly
	Use of new multi-part CICS bundles simplifies atom feed creation, deployment, and management
SDK - java development and OSGi bundles	Much easier to develop and deploy CICS Java applications
Atom feed bundle support	Use of new multi-part CICS bundles simplifies atom feed creation, deployment, and management
z/OS Unix file enhancements	Ability to view properties, create directories, and modify permissions reduces need to use green screen or telnet-style interfaces
Transaction Tracking	Provides on-line display and diagnosis of 'hung' CICS transactions
CICSplex SM Workload management lifecycle support	Enables the creation and management of all CICSplex SM workload management resources from the CICS Explorer



## What's new in **CICS Explorer V1.0.1**

Capability	Value
System z perspective and APIs	<p>Simplified access to many common tasks which today require ISPF access, especially for new users without System z experience</p> <p>Users can spend more time within the CICS Explorer environment, avoiding context switches</p> <p>Enables automation and a common interface across multiple tools, such as CICS DA, PD Tools, etc</p>
View/edit zOS datasets, PDSs, and zFS files	<p>Simplifies and speeds common file-related tasks, from 4 manual steps + 4 for each subsequently referenced dataset, plus knowledge of location and switching of interface to access in 2 clicks + 1 click for each subsequently referenced dataset. From 2 minutes x times a day to 2 seconds x times a day.</p> <p>zFS file view and edit can also simplify creation of scripts and configuration when using CICS Dynamic Scripting.</p>
View dataset / file properties	
Recall migrated datasets	
View/edit/submit JCL	<p>Simplifies and speeds up common spool-related tasks, from 4 manual steps, plus switching of interface to access in 2 clicks. From 2 minutes x times a day, to as little as 2 seconds x times a day</p>
Hyperlink from DSNs	
View completed JES spool output	
View completed job log	
Secure FTP connection	Uses robust IBM Comms Server which most customers already have
Connection import/export	Facilitate the use of CICS Explorer in enterprises with large teams, complex CICS topologies, and multiple tools



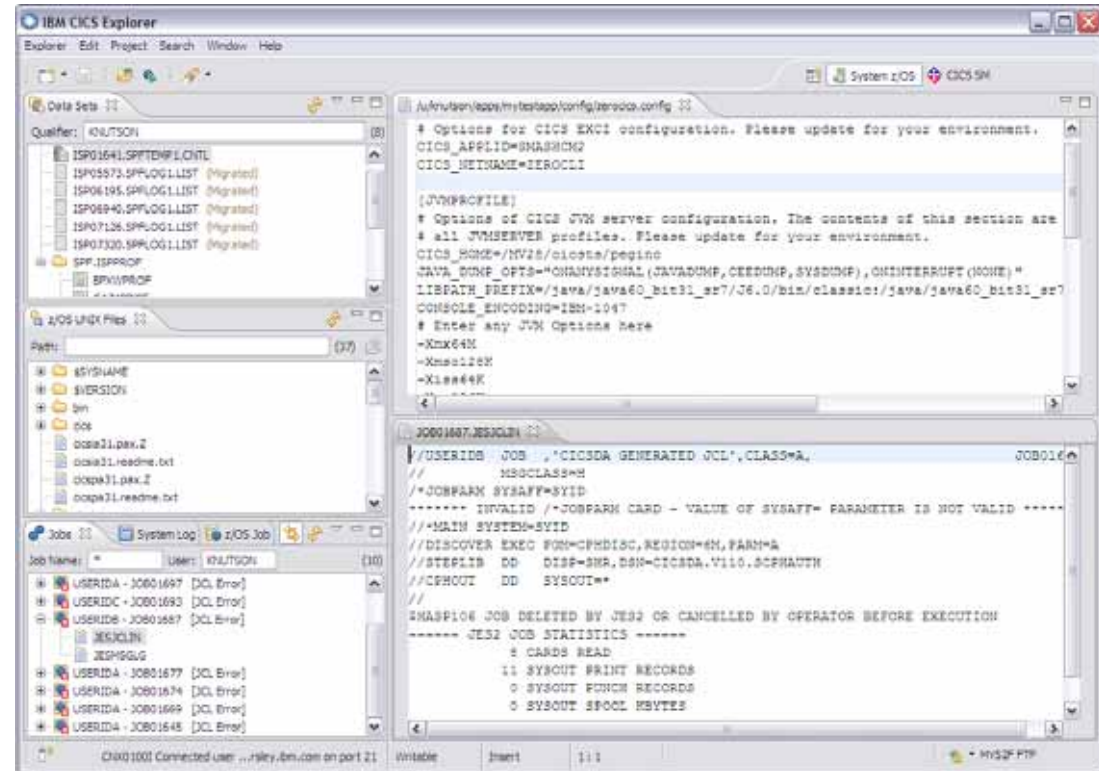
## CICS Explorer helps to reduce development and admin skills

### Problem

- Need to bring CICS technical staff who are new to System z up to speed and productive quickly and avoid the ISPF learning curve and context switching issues

### Solution

- Intuitive navigation and revolutionary integration not only simplifies access to CICS development, administrative, and operations tools, but also enables users to view and edit zOS Datasets, PDS members, and zFS files, and edit and submit JCL, view output and job logs, etc



### Value

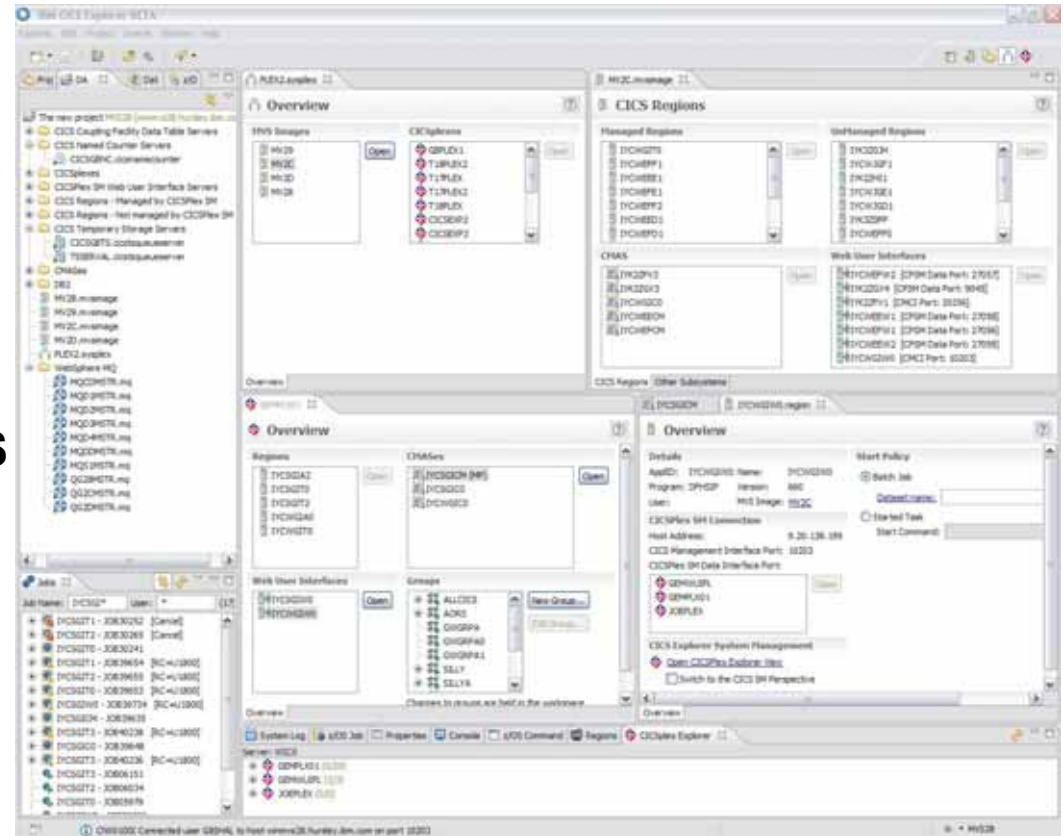
- Experts get the job done faster
- New hires more quickly effective

# Accelerating return on your CICS investments

## *IBM CICS Deployment Assistant for z/OS*



- **New Deployment perspective integrates with CICS Explorer**
- **Discovery and Modelling of CICS systems and applications**
- **Topology Visualization**
- **Automated creation, deployment, customization, and control of CICS regions**
- **Edit files, submit JCL, view output**
- **Simplify tasks, save time, and reduce risk**
- **More info at <http://ibm.com/software/http/cics/deployment/>**
  - ▶ Features and benefits, data sheet, announcement letter ...



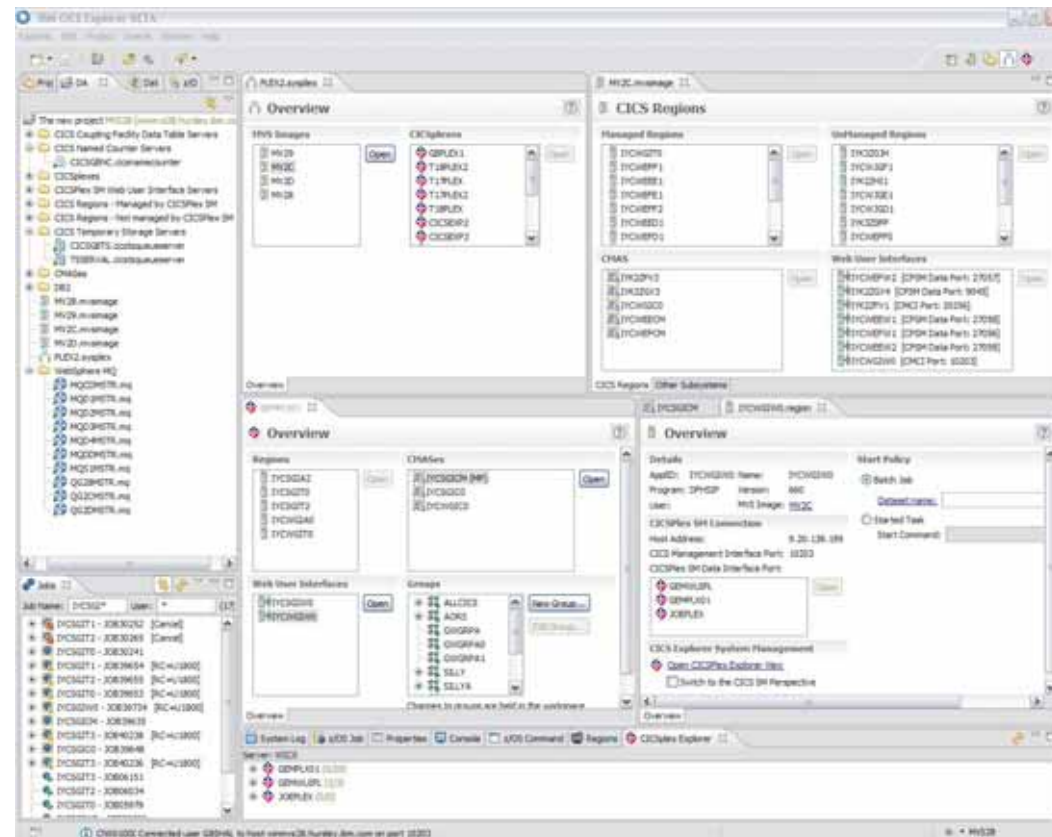
# Accelerating return on your CICS investments

## Problem

- Looking at deploying new business applications that leverage CICS
- In-house System z skills in short supply
- Need to understand, document, and deploy many/complex CICS regions

## Solution

- CICS Deployment Assistant can discover, build model, visualize, and extend CICS TS regions quickly using automation and best practices



## Value

- Increase in user productivity and reduction in skill requirements



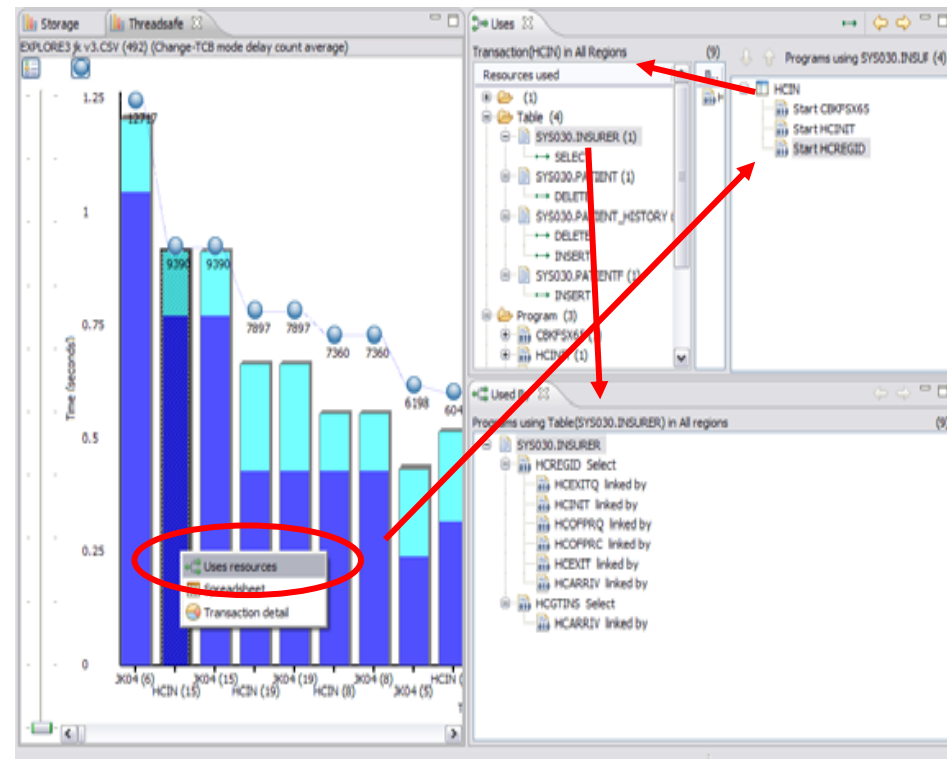
# Optimize CICS transaction performance

## Problem

- Best practice recommends early life-cycle performance analysis, but developers lack easy access to performance metrics

## Solution

- Drill-down into application structure with CICS Interdependency Analyzer integration
- Intuitive views of CICS performance data
- CICS Performance Analyzer perspective delivers task-oriented approach, e.g. Threadsafe Analysis



## Value

- Effective performance analysis saves MIPs and associated hardware and software costs
- Better response times improves customer satisfaction and retention





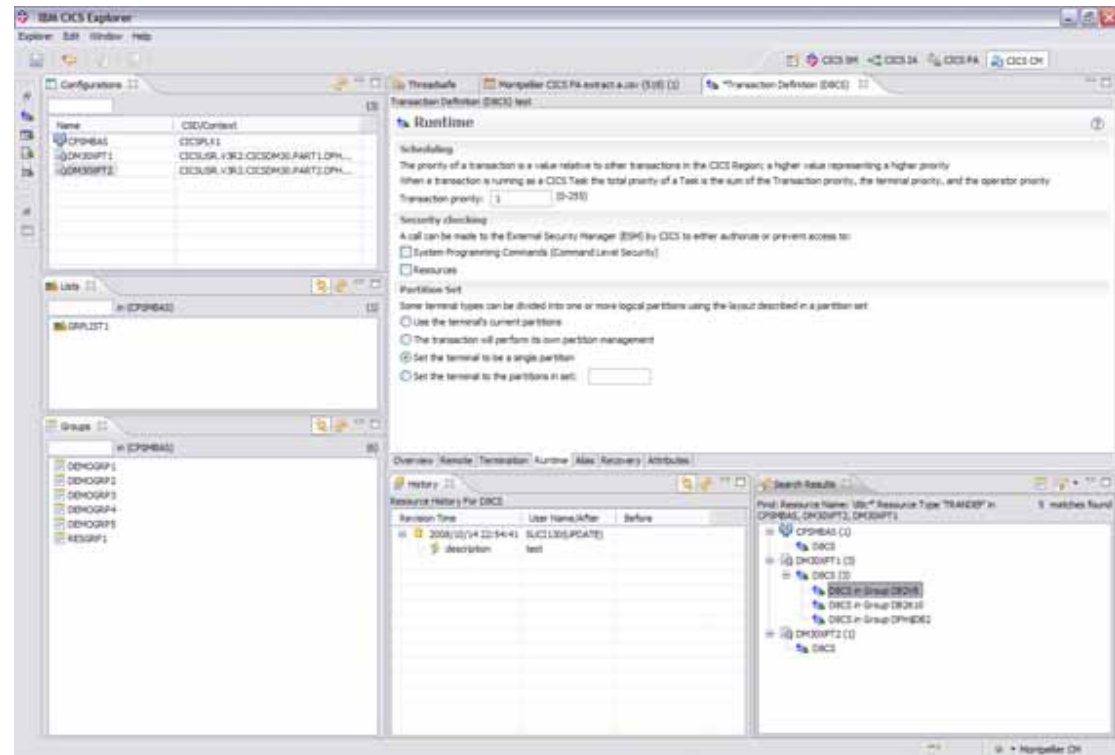
## Manage complex CICS configurations

### Problem

- New staff need to manage complex CICS resource definitions, often using home-grown tooling
- Redundant / duplicate definitions can cause confusion

### Solution

- Smart editors remove need to understand *magic values*
- Powerful search across multiple CSDs and BAS repositories aid cleanup
- CICS IA integration helps find unused resources



### Value

- Reduces risk of downtime due to user errors
- End-to-end accountability and control
- Reduce CICS system administration and tool maintenance costs



## Monitor and respond to business activity

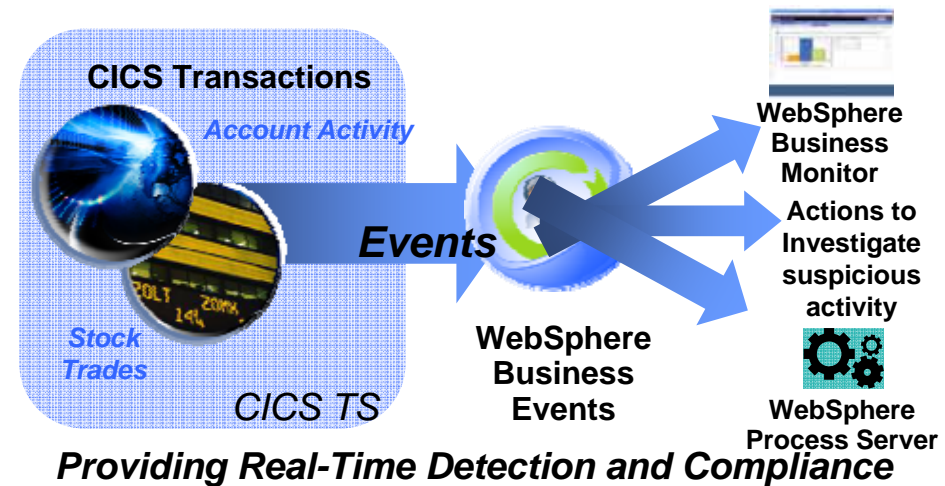
### Problem

- Need timely identification of, and response to, out of line business situations, such as insurance companies needing to improve “prospect to customer” conversion rates

### Solution

- Enable CICS applications to produce business-related events for WBE and be point of integration to BPM portfolio
- CICS IA can help to identify event sources
- Instrument CICS events on a business dashboard
- Designers can instrument & extend the behaviour of applications non-intrusively by defining events using CICS Explorer (CICS TS V4.1 only)
- Business Uses define the involving pattern detection, correlation patterns, and responses using WBE

Capture mainframe event sources for smarter business outcomes



### Value

- Insight into complex business dynamics allows timely response
- Tighter control of business risks
- Reduced risk, cost and time to implement change

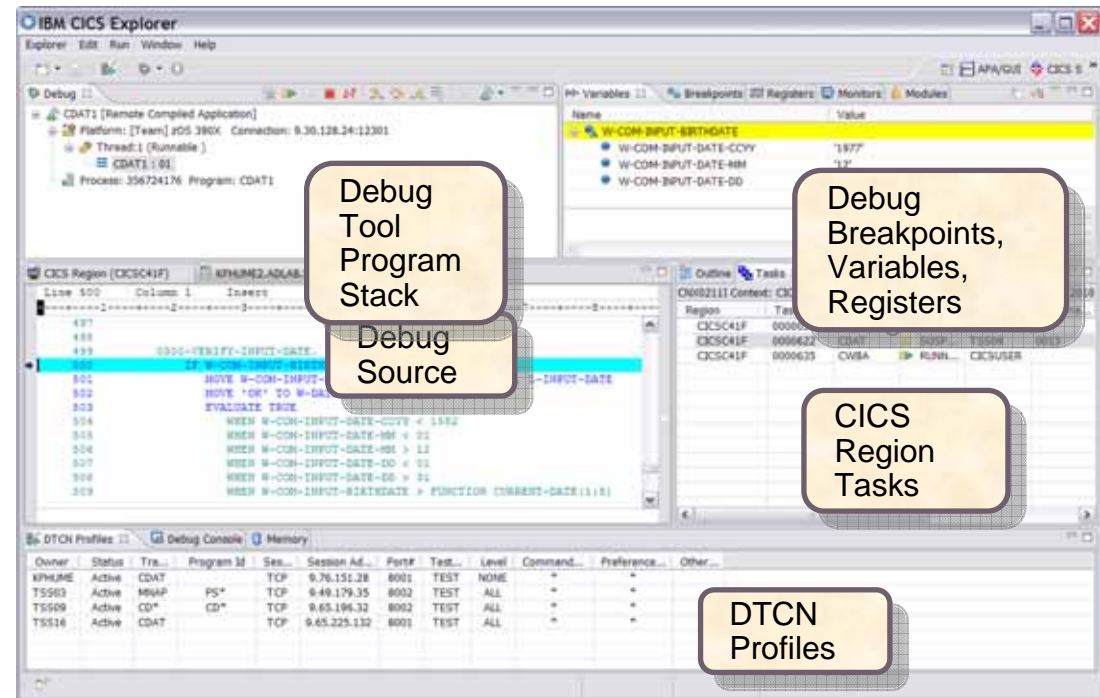
## Debug Tool for z/OS (DT)

### Problem

- Many System z developers are new to that environment and are not proficient with the 3270-based ISPF interface

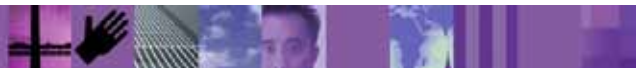
### Solution

- DT provides a complete solution all from within CICS Explorer or Rational Developer for System z that you developers already know and understand



### Value

- DT can help you increase debugging efficiencies and reduce application-development cycle times.



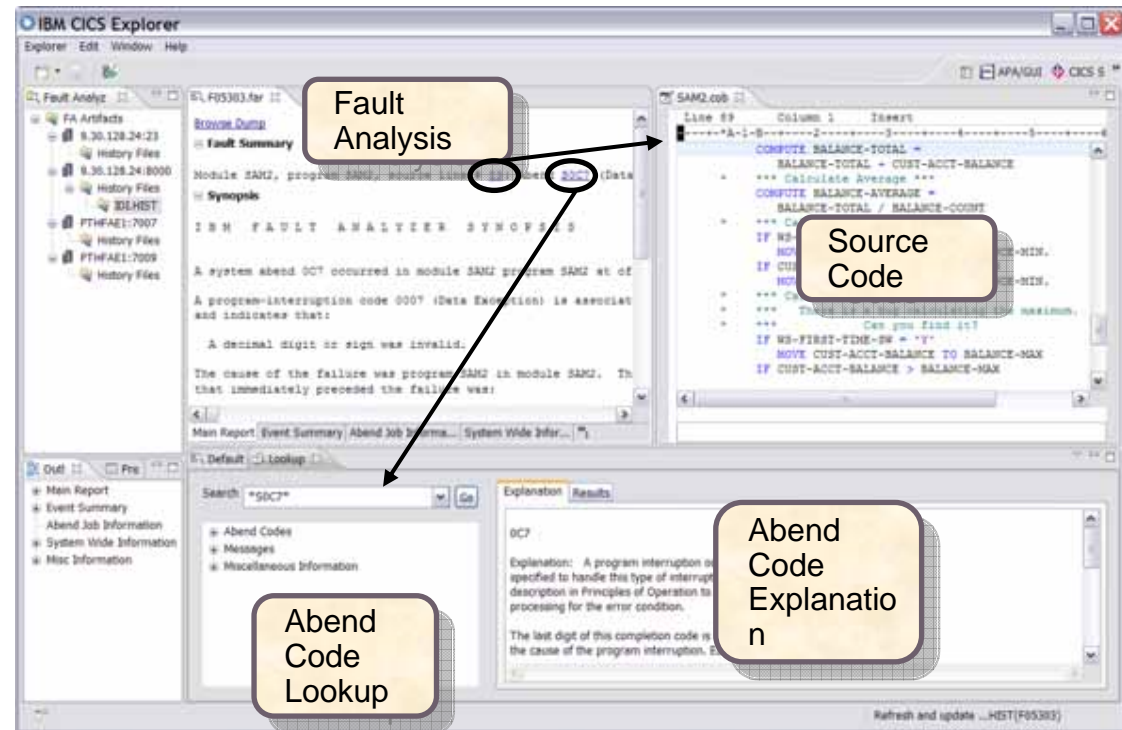
## Fault Analyzer for z/OS (FA)

### Problem

- Your new developers don't have experience to diagnose faults and dumps coming from a wide range of System z programming environments

### Solution

- When an application abend occurs, Fault Analyzer captures and analyzes real-time information about the application and its environment, then generates an analysis report detailing the cause of the failure.



### Value

- The report describes the failure in terms of the application code, so you no longer lose time reviewing cumbersome, low-level system error messages.



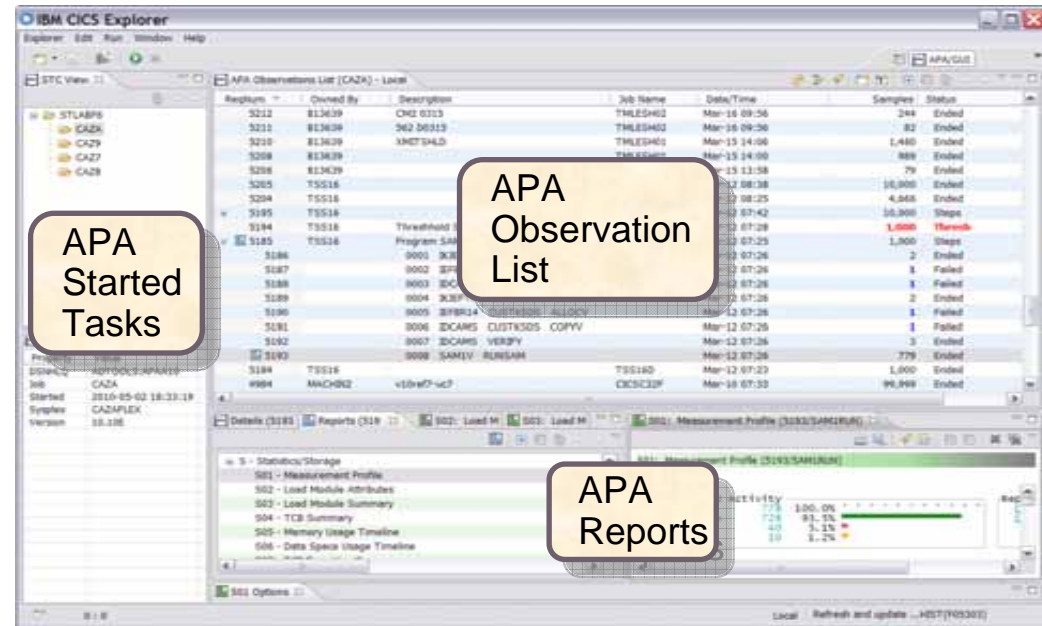
## Fine tune your overall application performance with APA

### Problem

- The complexities of CICS applications often mean that performance problems come to light, not only with CICS, but DB2, IMS, MQ, and across languages or DASD

### Solution

- APA helps programmers identify constraints and improve the entire applications performance, no matter where the problem resides. In addition to drilling down through CICS transactions and tasks, TCB activity can also be analyzed. Baselines can be taken to compare with future analysis runs after changes are made



### Value

- APA provides the responsive and speedy information which is required to assist with application performance resolution, whether implementing thread safe applications, or utilizing other subsystems or languages



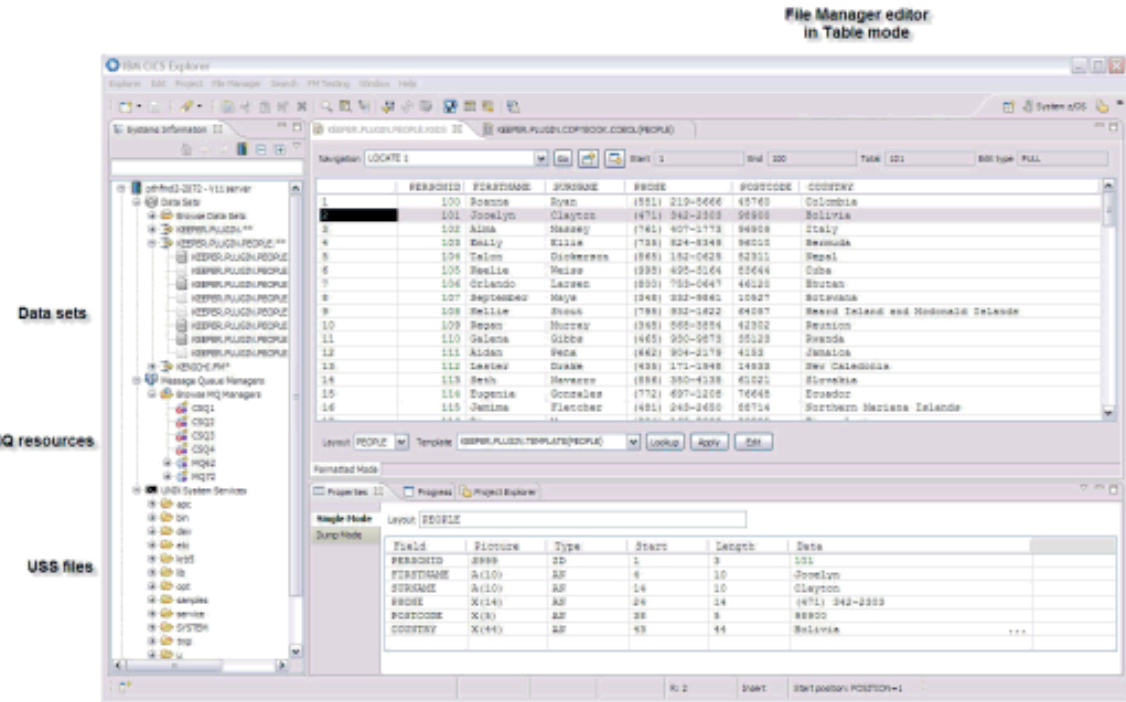
# File Manager for z/OS (FM)

## Problem

- You want to modernise and extend your System z application inventory but it's taking too long to bring your new developers up to speed with the files and databases they need to work with

## Solution

- File Manager identifies the structure of your records and displays and allows manipulation of each field according to its data type



## Value

- Promotes understanding and speeds the development process



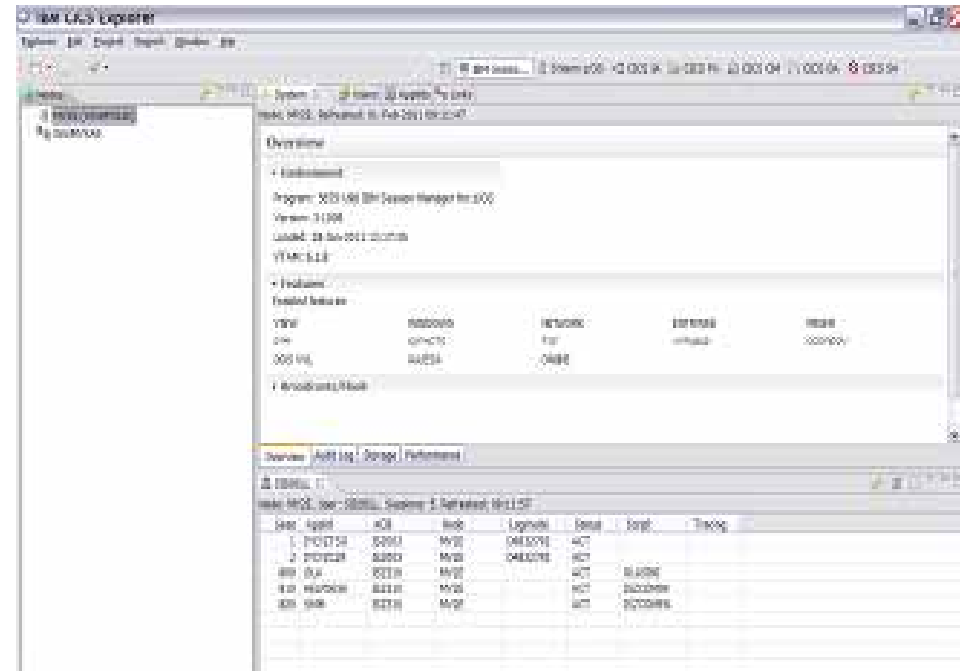
## IBM Session Manager for z/OS

### Problem

- Need to move smoothly and quickly between tasks

### Solution

Session Manager is a VTAM or TCP/IP session manager with highly-available, secure, and user-friendly access to multiple z/OS systems from a single 3270 terminal or equivalent. It gives users a single secure sign-on, and allows controlled access to all of their applications from multiple concurrent virtual sessions using a wide range of tools and facilities.



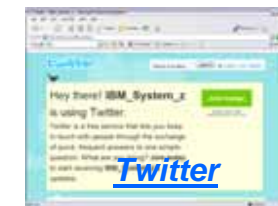
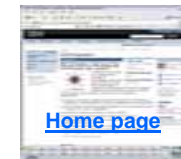
### Value

- Users can access the information they need without having to know where the applications are or what system they run on, helping to reduce system- administration time, providing fast and near-continuous access to a variety of applications while minimizing training requirements.



## CICS Communities

- **[CICS Explorer home page](#)**
  - ▶ Remember this link [ibm.com/cics/explorer](http://ibm.com/cics/explorer)
- **[CICS Explorer Forum](#)**
  - ▶ <http://tinyurl.com/68bndw>
  - ▶ IBM developerWorks forum with FAQs, Links and resources, ISV Contributions, etc. Ask questions, suggest improvements, report problems, chat
- **Twitter**
  - ▶ Subscribe to the [IBM System z channel](#) to get CICS Explorer news flashes
- **CICS Blog**
  - ▶ Comment and opinion at [TheMasterTerminal.com](http://TheMasterTerminal.com)
- **[CICS eNews](#)**
  - ▶ Subscribe for news about CICS and related products
- **YouTube channels**
  - ▶ [CICS Explorer](#) - Videos, demos and other cool stuff
  - ▶ [CICSFluff](#) - Other CICS videos
  - ▶ [IBMPDTOOLS](#) – PD Tools videos





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# CICS Explorer Sample screenshots

*The following screenshots are subject to change, but show current level of available SupportPacs. These are not mock-ups.*



## Index to screenshots

- **CICS Transaction Server**
  - ▶ [Viewing and editing resources](#)
  - ▶ [Events, Bundles, Transaction Tracking, SIT](#)
  - ▶ Transaction Tracking
- [z/OS Explorer](#)
- [CICS Deployment Assistant](#)
- [CICS Interdependency Analyzer](#)
- [CICS Performance Analyzer](#)
- [CICS Configuration Manager](#)
- [CICS Transaction Gateway](#)
- [Problem Determination Tools](#)
  - ▶ Application Performance Analyzer
  - ▶ Fault Analyzer
  - ▶ Debug Tool
  - ▶ File manager
- [WebSphere MQ](#)
- [OMEGAMON XE for CICS](#)
- [Rational Developer for System z](#)



# CICS Explorer

View Systems

View status of tasks

Edit Resource Definitions

The screenshot shows the CICS Explorer application interface. On the left, there is a tree view showing the hierarchy of systems and groups under the server 'IYCYZC23'. The main area is divided into several panels:

- Tasks:** A table showing task details for region TOOLPLX1. Columns include Region, Task ID, Tran ID, Dispatch, User ID, Priority, Class, and Attach. Example rows show tasks like COINL, COIE, and COIE.
- Transactions:** A table showing transaction details for region TOOLPLX1. Columns include Name, Version, Created, Changed, Language, Description, and Status. Example rows include IMPACT9, JOE, and PEPSONE.
- Pipeline Definitions:** A table showing pipeline details for region TOOLPLX1. Columns include Name, Version, Created, Changed, Language, Description, and Status. Example rows include JOE and PEPSONE.
- Program Definitions:** A table showing program details for region TOOLPLX1. Columns include Name, Version, Created, Changed, Language, Description, and Status. Example rows include JOE and PEPSONE.
- Regions:** A table showing region details for region TOOLPLX1. Columns include Region, Job Name, System, and Tasks. Example rows include CICS131, CICS231, CICS331, and CICSWS31.
- Files:** A table showing file details for region TOOLPLX1. Columns include Region, Name, Status, Open Status, Empty St..., I/O Type, Record Le..., and Record F... Example rows include CCSO, CESE, CESO, CINT, COPR, CPLI, CRPO, and CSSL.

Resource and System Groups

Views Program Definitions

Active CICS Systems in the selected PLEX

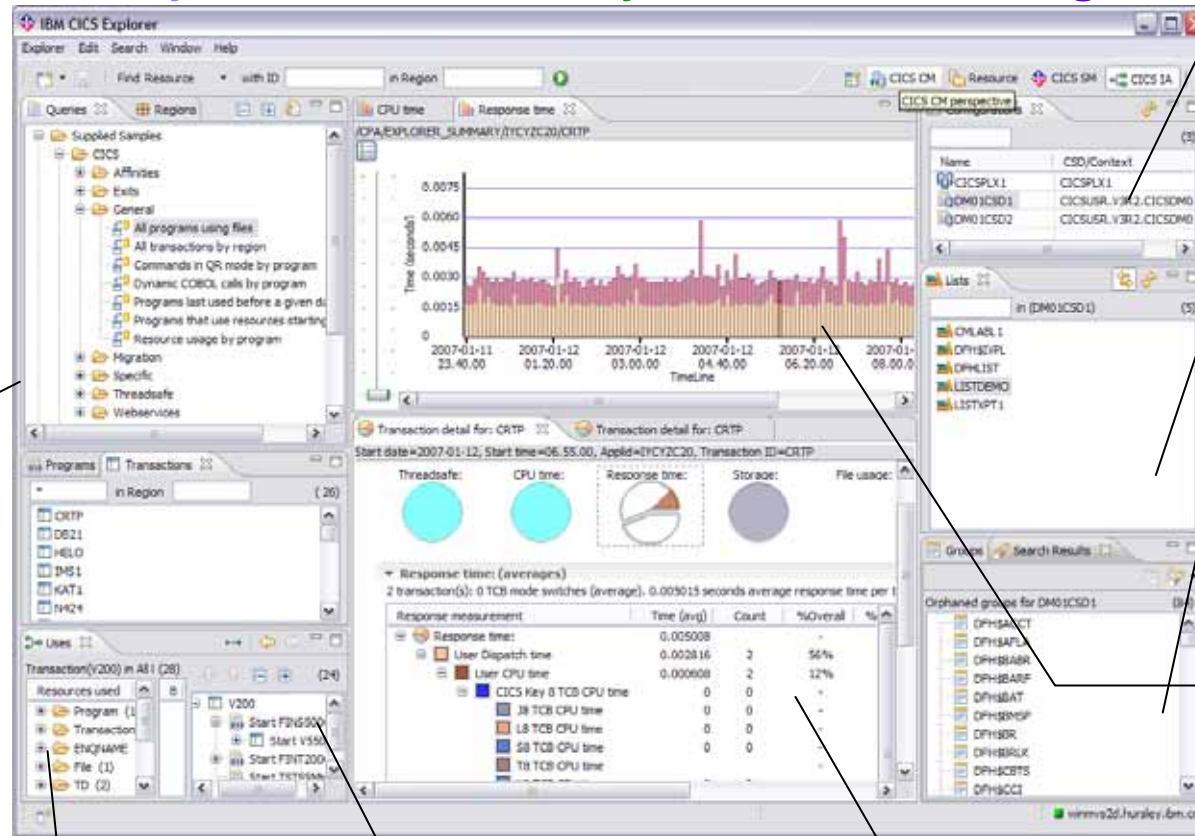
View Queue Information

# CICS Explorer & CICS Tools: Putting it all Together

Interdependency  
Analyzer

Performance  
Analyzer

Configuration  
Manager



Single point of control for CSDs and DREPs

Lists and ResDescs

Search for Orphaned groups

Timeline of response times

Shipped Sample Queries

View tree of resources used

Resources used by a transaction

Drilldown into transaction





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# CICS TS

## Viewing and editing resources



# Welcome Page



CICS CM  
Contributes to  
the CICS  
Explorer  
Welcome Page

Links to CM  
tutorials in the  
embedded help



# CICS Explorer - Program Definition editor - SM

The screenshot shows the IBM CICS Explorer interface. On the left, there are two tree views: 'CICSplex Explorer' showing a hierarchy of CICSplexes and CICS systems, and 'Groups' showing a list of groups. The main area displays a table of program definitions for the scope 'TOOLPLX1, Resource: PROGDEF, 4 records':

Name	Version	Created	Changed	Description
IMPACT9	1	Wed Apr 0...	Wed May ...	Lets chan...
JOE	1	Tue Sep 2...	Thu May 2...	Go on baby
JOE1	1	Thu Jul 19...	Thu May 2...	
PEPSIONE	1	Wed Apr 0...	Wed Apr 0...	And chang...

The right-hand pane shows the 'Program Definition (IMPACT9) Lets change this today' configuration. The 'Overview' tab is active, showing details like Name, Version, Language (COBOL), and various checkboxes for storage and program reuse. The 'Storage' section is greyed out, and the 'Program reuse' section has radio buttons for different reuse policies. The 'User Data' section has three input fields.

**Everything greyed out because ...**

**... it's a 3.1 system that uses the CPSM WUI server that is read only.**

# CICS Explorer - Program Definition editor - CICS CM

Name	Version	Created	Changed	Description	Status
IMPACT9	1	Wed Apr 09 ...	Wed May 28...	Lets change ...	ENABLED
PEPSIONE	1	Wed Apr 09 ...	Wed Apr 09 ...	And change ...	ENABLED
JOE	1	Tue Sep 26 ...	Thu May 29 ...	Go on baby	DISABLED
JOE1	1	Thu Jul 19 1...	Thu May 22 ...		ENABLED

Revision Time	User Name	Attributes
2008/05/17 23:40:59	CICSUSER	UHELPACOPY YES NO RESIDENT YES NO EXECKEY USER CICS
2008/04/25 16:16:30	CICSUSER	
2008/04/24 11:40:25	CICSUSER	
2008/04/23 22:50:04	CICSUSER	
2008/04/23 22:46:29	CICSUSER	

*The history view shows who made changes, when changed, by attribute*

*The editor is input capable (i.e. fields aren't grey) and changes can be made*

*...because same system connected to using CM*

# CICS Explorer - Powerful, context-sensitive resource editors

The screenshot displays the IBM CICS Explorer interface. On the left, a tree view shows the server hierarchy: CICSplex Explorer (Server: IYCYZC23) containing TOOLPLX1 (4/4) and TSTPLEX (9/12). Below this, a 'Groups' pane shows TOOLPLX1 and TSTPLEX. The main workspace is divided into several panes:

- Table Pane:** A table listing resources for scope TOOLPLX1. The table has columns for Name, Version, Created, Changed, Description, and Type.
 

Name	Version	Created	Changed	Description	Type
EXIB	1	Sun May 18 ...	Sun May 18 ...	Input Data s...	EXTRA
EXIN	1	Sun May 18 ...	Sun May 18 ...	EXTRA type ...	EXTRA
EXO	1	Sun May 18 ...	Sun May 18 ...	Extra Output	EXTRA
EXSY	1	Tue May 20 ...	Tue May 20 ...	EXTRA with ...	EXTRA
INDT	1	Sun May 18 ...	Sun May 18 ...	Indirect Queue	INDIRECT
IND2	1	Sun May 18 ...	Sun May 18 ...	Indirect and ...	INDIRECT
INT1	1	Wed May 21...	Wed May 21...	Intra for Ter...	INTRA
RMT1	1	Sun May 18 ...	Wed May 21...	This is Remot...	REMOTE
RMT2	1	Sun May 18 ...	Sun May 18 ...	Remote syst...	EXTRA
TDQD	1	Wed Oct 10 ...	Fri Jan 04 1...	Matthews T...	EXTRA
XTRA	1	Sun May 18 ...	Sun May 18 ...	Extra Queue	EXTRA
- Details Pane:** Shows configuration for 'Transient Data Queue (TDQ) (EXIB) Input Data set read backwards'. It includes fields for Name (EXIB), Description (Input Data set read backwards), Version (1), Created (18-May-2008 23:37:50), and Changed (18-May-2008 23:38:17). It also has sections for 'Data set' (Data set name defined in JCL: FOOBAR), 'Number of Buffers' (Specific value: 1), and 'User Data'.
- History Pane:** Shows 'Resource History For EXIB' with a message: 'Only available with a valid Configuration Manager connection'.
- Bottom Pane:** Contains tabs for Overview, Runtime, Printer, Type, and Attributes. The Overview tab is active.

Two callout boxes provide additional context:

- Left Callout:** "This shows how for a non-CM connection the history view just gracefully says that the function isn't available."
- Right Callout:** "Editors only show applicable attributes and tabs - overview/runtime/printer are all specific for a TDQ of type 'Extra Partition'"

# CICS Explorer - TD Queue resource editors

The image displays three side-by-side screenshots of the CICS Explorer interface, each showing a different type of Transient Data Queue (TDQ) resource editor. Each editor is focused on its specific resource type, providing a clean and relevant set of configuration options.

- Intra partition Overview:** Shows details for 'INT1 Intra for Terminal'. It includes fields for Name, Description, Version, Created, and Changed. The Destination section offers options for File, System ID, or Terminal Name. Transaction Initiation settings include trigger value options and transaction initiation details.
- Remote Overview:** Shows details for 'RMT1 This is Remote'. It includes fields for Name, Description, Version, Created, and Changed. The Remote section explains that the queue is installed locally but located on another CICS system, with options to specify the remote system ID or a connection link name (SYSR). It also includes fields for the remote TDQ name and record size.
- Indirect Overview:** Shows details for 'INDT Indirect Queue'. It includes fields for Name, Description, Version, Created, and Changed. The Indirect section explains that the queue points to another queue known as an Indirect queue, with a field for the Indirect TDQ Name (INME).

A callout box with a green background and black border points to the editors, containing the following text:

**Unlike CEDA or the WUI whose editors show too much information and allow the user to make mistakes, the CICS Explorer editors only show and present what's relevant to the resource type**



# CICS Explorer - No “magic” values - File definition editor

**Operations**

Add option  No

Browse option  No

Delete option  No

Read option  Yes

Update option  No

**Auto journaling**

Journal number  NO (NO, 1-99, blank)

Read operations recorded on journal  None

Synchronous auto journaling for input  No

Rewrite/delete operations recorded on journal  No

Add operations recorded on journal  None

Synchronous auto journaling for output  Yes

*Specifying which attributes to log in a journal for a file is very involved in CEDA and the WUI*

File\_Definition (FC02) Joe's test file

**Runtime**

**Usage**

The kind of operations that can be performed by programs against the file can be controlled to only a subset of allowable CICS functions

- Read Records can be read
- Browse Records can be read sequentially
- Add Records can be added
- Delete Records can be deleted
- Update Records can be updated

**Auto Journal**

CICS journal names are of the form DFHJnn, where nn is in the range 1 through 99

Do not use auto journaling

CICS journal name:

Synchronously auto-journal records for  Input  Output

Operations to be recorded in the journal

- Read only
- Read update
- Rewrite and delete
- Add write operation before the VSAM I/O operation
- Add write operation after the VSAM I/O operation

*Compare again the explorer with the WUI*



## CICS Explorer - No “magic” values - Transaction definition editor

<b>Storage clearance status</b>	<input type="checkbox"/> No
<b>Runaway timeout value</b>	<input type="checkbox"/> SYSTEM
<b>Shutdown run status</b>	<input type="checkbox"/> Enabled

*In CEDA or the WUI the user has to know the “magic values”. DTIMEOUT of a TRANDEF contains values of "0" meaning "No timeout", "SYSTEM" meaning "Use system value" or else a time in milliseconds.*

Transaction Definition (FROG) Maybe a duck

### Termination

**Runaway**  
Time a task can have processor control before it is assumed to be looping and terminated

Use ICVR System Initialization Parameter  
 Do not monitor task for runaway condition  
 Specific Time: [ ] (ms)

**Terminal**

*In CICS Explorer editors, no special values are entered into text fields - everything is done with radio buttons, combos, radios, and other advanced controls*



# CICS Explorer - Editor validation

The screenshot shows the 'Pipeline Definition (PIPELINE) Frog' window. At the top, a red 'X' icon and the text '2 errors detected' are visible. The 'Details' section shows 'Name: PIPELINE Description: Frog', 'Version: 1', 'Created: 09-Oct-2007 15:37:58', and 'Changed: 14-May-2008 20:04:46'. The 'Response Wait' section has a radio button selected for 'Number of seconds: 20p', with a tooltip indicating it is invalid. The 'HFS Details' section has a tooltip for 'Invalid character '\*' entered. Valid characters are A-Z a-z 0-9 . / \_ 10'. The 'User Data' section shows three input fields: '1: EAT', '2: SOME', and '3: TODAY'. A red 'X' icon is also present next to the 'Name of directory' field.

**An advantage of an Eclipse client over a browser/TSO/ISPF interface which is that keystroke by keystroke client validation occurs making the GUI more responsive (no server roundtrips) and less errors get sent down the wire to CICS making it faster.**

**The pipeline definition below has two errors - 20p is not a valid number ...**

**... and the configuration file name has an invalid character entered.**

**Each error field has a **red X** next to it to show it's bad, and hovering over the **red X** bring up a tooltip with the error. All errors can be seen by hovering over the **red X** at the top of the screen.**

## CICS Explorer V1.1 and CICS TS V4.2 – Column sorting

Region ▲	Name	Status	Open Status	Add	Browse	Delete	Read	Update	LSR Pool ID
FVFNT13B	DFHCSD	✓ ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1
FVFNT13B	DFHLRQ	✓ ENABLED	OPEN	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1
FVFNT13B	EYUWREP	✓ ENABLED	OPEN	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1
FVFNT13B	DFHDBFK	✓ ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	0
FVFNT13C	XAD1	UNENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1
FVFNT13C	XAC2	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1
FVFNT13C	XAF1	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1
FVFNT13C	XLOCAL2	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1
FVFNT13C	XAB4	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1
FVFNT13C	XAG1	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1
FVFNT13C	XNEW200	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	1

*Sorting the Region column in the CICS Explorer*





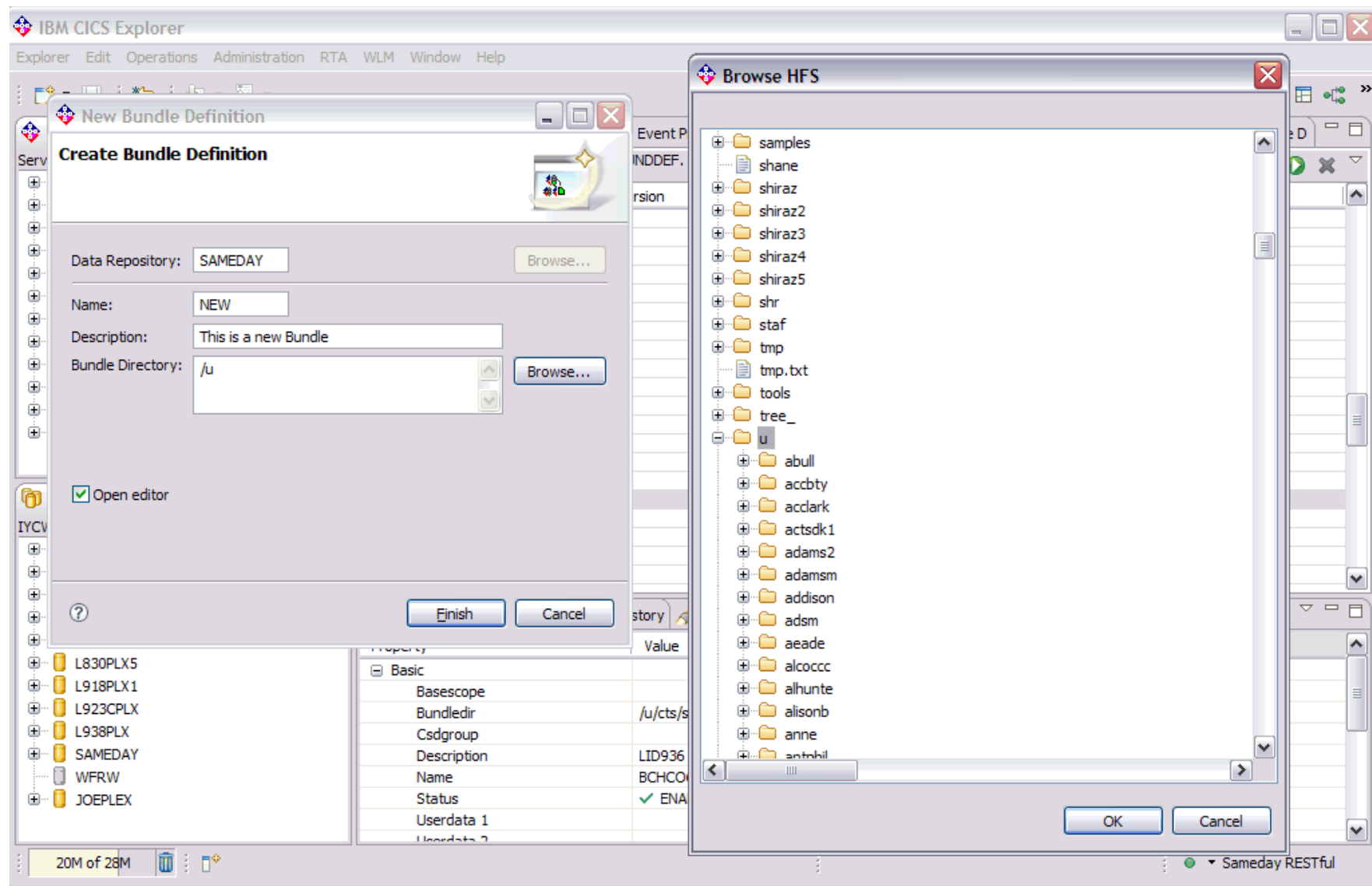
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# CICS TS

## Events, Bundles. Transaction Tracking, SIT



# CICS TS V4.1 Bundle Tooling - Create Bundle





# CICS TS V4.1 Bundle Tooling - Bundle Attributes

The screenshot displays the IBM CICS Explorer interface. The main window shows a list of bundles with columns for Name, Version, Description, and Change Time. The bundle 'BUNDLE' is selected. To the right, the 'Attributes' panel shows properties for the selected bundle, including 'Status' set to 'ENABLED'.

Name	Version	Description	Change Time
rgt	1		08-Dec-2008 17:14:07
testy	1		29-Dec-2008 19:33:57
testy	2		29-Dec-2008 19:33:57
testy	3		29-Dec-2008 19:33:57
testyc	1		29-Dec-2008 19:33:57
testy2	1		29-Dec-2008 19:33:57
testy3	1		29-Dec-2008 19:33:57
ABCDEFGH	1	<>012341	29-Dec-2008 19:33:57
ABUN	1		16-Mar-2009 16:20:14
ACOLS	1		02-Mar-2009 15:14:06
A1	1	this is new	13-Jan-2009 14:21:57
BCHCO61X	1	BCHCO616X	16-Mar-2009 10:07:16
BCHCO616	1	LID936 XMLTRANSFO...	23-Feb-2009 06:04:44
BCHCO616	2	LID936 XMLTRANSFO...	23-Feb-2009 07:26:52
BCHCO616	3	LID936 XMLTRANSFO...	23-Feb-2009 08:05:52
BCHCO617	1	LID936 XMLTRANSFO...	23-Feb-2009 06:25:25
BUNDLE	1		12-Mar-2009 17:27:59
BUN1	1		09-Dec-2008 14:05:59
BUN1	2		16-Jan-2009 14:36:31
BUN1	3		16-Jan-2009 15:04:03
BUN1	4		16-Jan-2009 15:08:28
D23489	1		29-Dec-2008 13:34:22
D23550	1		29-Dec-2008 13:26:27
D23550	2		14-Jan-2009 13:27:42
D23551	1		29-Dec-2008 14:31:46
EXPBUND1	1	Explorer JUnit test	17-Apr-2009 10:48:40
FOO	1		29-Dec-2008 19:33:57
FOO2	1	Explorer testing	17-Apr-2009 09:58:08
HFSTest	1	<>012341	29-Dec-2008 19:33:57
HFSTest	2	<>012341	29-Dec-2008 19:33:57
IJKLMNOP	1	<>012341	29-Dec-2008 19:33:58
JOE	1		18-Mar-2009 23:27:08
JOE	2		18-Mar-2009 23:27:29
JOE	3		18-Mar-2009 23:36:25
JOE1	1		18-Mar-2009 23:57:27
JOE7	1		30-Mar-2009 21:33:34

Property	Value
Basic	
Bascope	
Bundledir	/u/cts/sibus/LID936/bundles/BCHCO617
Csdgroup	
Description	LID936 XMLTRANSFORM - BCHCO617
Name	BCHCO617
Status	✓ ENABLED
Userdata 1	
Userdata 2	
Userdata 3	
Version	1
Definition Signature	
Change Agent	DREPAPI
Change Release	0660
Change Time	23-Feb-2009 06:25:25
Change User ID	CNTESTB
Create Time	23-Feb-2009 06:25:25

# CICS TS V4.1 Bundle Tooling - Customize Bundle

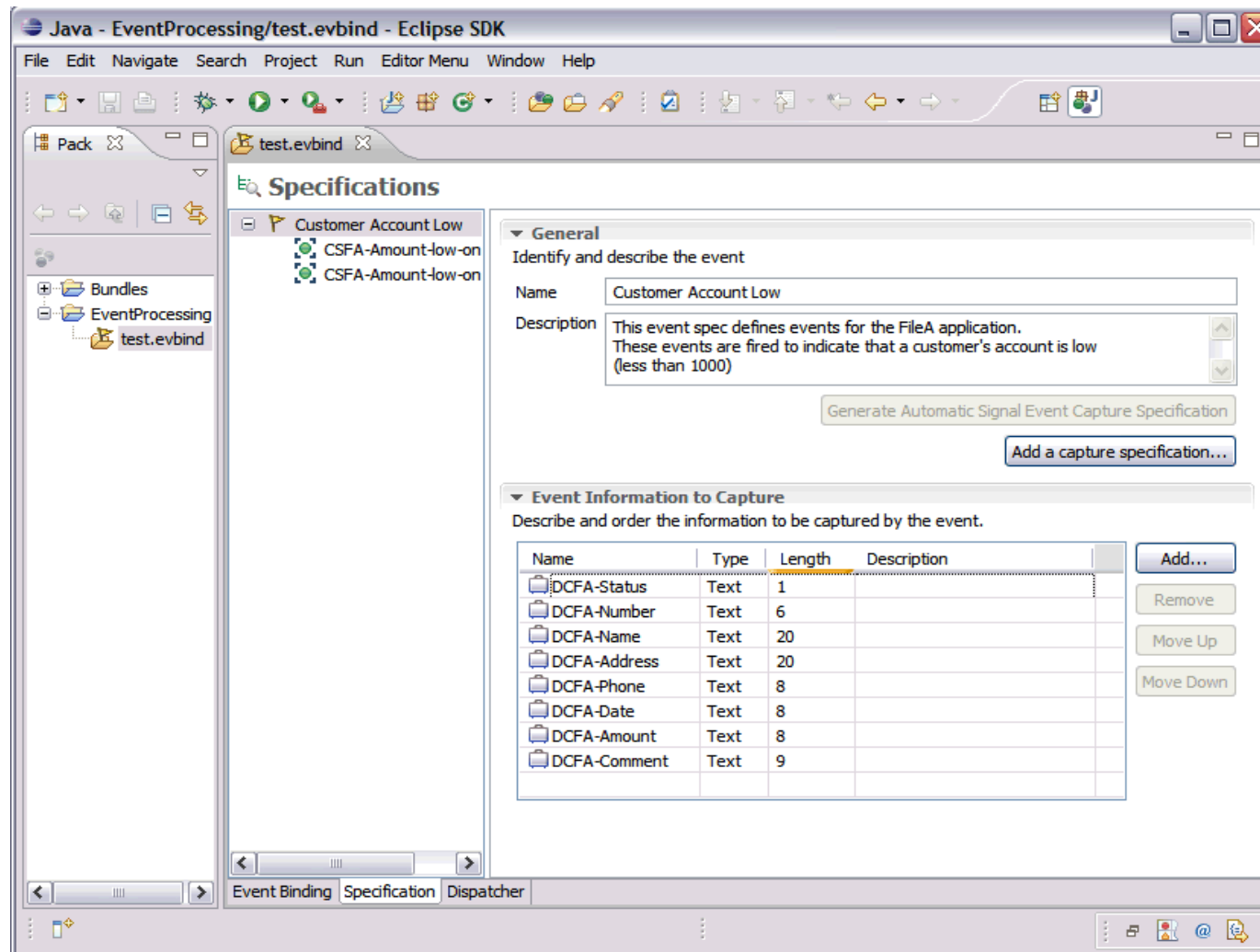
The screenshot displays the IBM CICS Explorer interface. On the left, a tree view shows the server structure under 'IYCWJFCM'. The main area shows a bundle list for 'CNX0211I Scope: SAMEDAY. Resource: BUNDLE'. A dialog box titled 'Customize Columns - BUNDLE' is open, showing a list of available attributes and the current view columns.

Region	Name	Install User ID	Status	Install Time
IYK3ZGC1	GCBUNDLE	CURWENG	✘ DISABLED	20-Apr-2009 09:09:58

**Customize Columns - BUNDLE Dialog:**

- Available attributes:** Basdefnever, Basescope, Bundledir, Change Agent, Change Agent Release, Change Time, Change User ID, CICS Release, Define Source, Define Time, Install Agent, Partcount.
- Current viewer columns:** Region, Name, Status, Install Time, Install User ID.

# CICS TS V4.1 Business Event Tooling



**Event Specification with Name, Description and Event Information to be captured**

## CICS TS V4.1 Business Event Tooling

- Event Capture Specification showing Capture Predicates:
- No Context Predicates selected,
- File name specified as a data predicate along with the field at offset 64 in the FROM data area

The screenshot shows the Eclipse SDK interface for configuring an event capture specification. The main window is titled 'Java - EventProcessing/test.evbind - Eclipse SDK'. The 'Specifications' view is open, showing a tree structure with 'Customer Account Low' and two 'CSFA-Amount-low-on' predicates. The 'Capture Predicates' tab is selected, displaying the following configuration:

**Context Predicates**  
 Define context predicates to filter events. Use the Operator and Value boxes to add a predicate

Context	Operator	Value
Transaction ID	Off	
Current Program	Off	
User ID	Off	
Command Resp	Off	

**Fixed Data Values**  
 Define Predicates for Fixed Length Data Values

Name	Operator	Value
FILE	Equals	FILEA

**Variable Data Values**  
 Define one or more Predicates for Variable Length Data Values

Source	Container	Offset	Length	Operator	Value
FROM		64	4	Less Than	1000

# CICS TS V4.2 Business Event Search

Search

File Search | EP Search

Search string: DFH0XVDS  Case sensitive

Search for resource type: PROGRAM

in context  in event options  in adapters

Ignore predicates with operator "All"

Search for source information:  in application data  in information sources

Variable names  Structure names  File names

Search scope:  Workspace  CICS resources installed in: Not connected

Customize... Search

Searching Event Processing files for "dfh0xvds" - 1 result

- BundleProject
  - CatalogManager.evbind
    - Catalog\_stock\_status\_check
      - Check\_stock\_status\_on\_rewrite
        - Context

# CICS TS V4.2 Business System Events

**▼ Capture Point**  
Select an Application or System capture point.

**Application Capture Point**

- CONVERSE
- DELETE FILE
- DELETEQ TD
- DELETEQ TS
- INVOKE SERVICE
- LINK PROGRAM
- PROGRAM INITIATION
- PUT CONTAINER
- READ
- READNEXT
- READNEXT

Before  After

**System Capture Point**

- DB2 CONNECTION STATUS
- FILE ENABLE STATUS
- FILE OPEN STATUS
- SYSTEM MAXTASKS THRESHOLD
- TRANCLASS ACTIV THRESHOLD
- TRANSACTION ABEND

**▼ Event Options**  
Define predicates for event options.

Name	Operator	Value
TRANSACTION*	Equals <span style="float: right;">▼</span>	EGUI
ABCODE	Equals <span style="float: right;">▼</span>	EXCA

FVFNT13C	DFHLRQ	✓	ENABLED	OPEN	ADDABLE
FVFNT13C		✓	ENABLED	CLOSED	NOTADDA..
FVFNT13C	Open			CLOSED	NOTADDA..
FVFNT13C	Open File			CLOSED	NOTADDA..
FVFNT13C	Close File			CLOSED	NOTADDA..
FVFNT13C	Discard			CLOSED	NOTADDA..
FVFNT13C	Enable			CLOSED	NOTADDA..
FVFNT13C	Disable			CLOSED	NOTADDA..
FVFNT13C	Create System Event			Enable Status	ADDA..
FVFNT13C	XAC1	✓	ENABLED	Open Status	ADDA..
FVFNT13C	XAC2	✓	ENABLED	CLOSED	NOTADDA..



# CICS TS V4.2 Business Events – Adapter editor

■

**Adapter**

**▼ Resource**  
Use a predefined EPADAPTER resource, or use an adapter that you specify here.

Use a predefined EPADAPTER resource

Use an adapter defined here

**▼ Adapter**  
Choose the adapter and settings to emit events.

Adapter: Custom (User Written)

Emits events in any format that you require. A custom EP adapter is a CICS program that you write to provide a combination of formatting and routing of an event that is not supported by the CICS-supplied EP adapters. The custom EP adapter must not carry out any other processing, such as consumption of the event.

Transaction ID:

Program ID:

Data passed to the Custom Adapter

Export Event Specifications...



# CICS TS V4.2 Transaction Tracking

Tasks

CNX0211I Context: T23PLEX, Resource: TASK. 45 records collected at 04-Apr-2011 09:13:45

Region	Task ID	Transacti...	Run Status	User ID	Principal F...	LU Name	Priority	Class Name	Suspend ...	Acti
FVFNT23B	0000043	COIO	SUSPE...	FVFNT23			255	DFHTCL00	0:00:00	4040
FVFNT23B	0000046	COIE	SUSPE...	FVFNT23			255	DFHTCL00	0:00:10	4040
FVFNT23B	0000466	CSMI	SUSPE...	FVFNT23	<ADC		1	DFHTCL00	0:00:04	4040
FVFNT23B	0001504	CWRA	SUSPE...	CICSUSER			1	DFHTCL00	0:00:00	4040

*The task in Tasks view*

Tasks Task Associations

CNX0211I Context: T23PLEX, Resource: TASKASSC. 45 records collected at 04-Apr-2011 09:46:54

Region	Task ID	Start Time	Trans ID	Origin Tra...	Origin Ap...	Origin Us...	Origin Task	Origin
FVFNT23B	0000043	2011-04-04T03:07:35.966991+00:00	COIO	CONL	IYK3Z23B	FVFNT23	0000026	NONE
FVFNT23B	0000046	2011-04-04T03:07:40.718912+00:00	COIE	CONL	IYK3Z23B	FVFNT23	0000026	NONE
FVFNT23B	0000466	2011-04-04T03:27:26.716597+00:00	CSMI	CWXN	IYK3Z23B	FVFNT23	0000063	SOCKE
FVFNT23B	0001504	2011-04-04T03:46:53.004470+00:00	CWRA	CWYN	IYK3Z23B	CICSUSER	0001503	SOCKE

*The task in Task Associations view*

Events Properties Search

Tasks associated with task '0000046' in region 'FVFNT23B' - 3 results

Tasks	Transaction ID	Region	Start Time	Run Status	Suspend Time	Suspend Reason	Prev Hop Count
0000026	CONL	FVFNT23B	2011-04-04T03:07:3...	RUNNING	0:00:00		0
0000043	COIO	FVFNT23B	2011-04-04T03:07:3...	SUSPENDED	0:00:00	USERWAIT	0
0000046	COIE	FVFNT23B	2011-04-04T03:07:4...	SUSPENDED	0:00:08	USERWAIT	0

The results of a search for associated tasks from this task



# CICS TS V4.2 Transaction Tracking

Tasks with Origin IP Address "0.0.0.0" - 39 results

Tasks	Transaction ID	Region	Start Time	Run Status	Suspend Time	Suspend Reason	Prev Hop Count
T23PLEX							
FVFNT23B							
0000026	CONL	FVFNT23B	2011-04-04T03:07:3...	RUNNING	0:00:00		0
0000038	COVG	FVFNT23B	2011-04-04T03:07:3...	SUSPENDED	0:00:11	USERWAIT	0
0000043	COIO	FVFNT23B	2011-04-04T03:07:3...	SUSPENDED	0:00:00	USERWAIT	0
0000046	COIE	FVFNT23B	2011-04-04T03:07:4...	SUSPENDED	0:00:04	USERWAIT	0
FVFNT23C							
FVFNT23D							
FVFNT23E							
FVFNT23F							
FVFNT23G							

*The results of a search for tasks from Origin IP Address*



# View SIT options

The screenshot displays the IBM CICS Explorer interface with the following components:

- Left Panel:** A tree view showing the project structure under 'Server: CPLX', including various CICSOM and CACB resources.
- Center Panel:** A table listing SIT parameters for 'Context: CICS0M29, Resource: TASK'. The table has columns for Region, Task ID, Transaction, Dispatch, User ID, and Terminal ID.
- Right Panel:** Three stacked windows showing 'SIT Parameters' for different views:
  - SIT Parameters (COMBINED):** Shows a list of attributes. The 'Application ID' is highlighted with a red circle and labeled 'Combined view'.
  - SIT Parameters (TABLE):** Shows a table view of attributes. The 'Application ID' is highlighted with a red circle and labeled 'Table view'.
  - SIT Parameters (SYSIN):** Shows a SYSIN view of attributes. The 'Application ID' is highlighted with a red circle and labeled 'SYSIN view'.
- Bottom Panel:** An 'Events' window showing a context of 'CICS0M29, Resource: EVENT' with 0 records collected.
- Context Menu:** A 'Show SIT Parameters' menu is open over the left panel, showing options for 'Combined', 'Console', 'JCL', 'SYSIN', and 'Table'.



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# z/OS Explorer component



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# z/OS Perspective

The screenshot displays the IBM CICS Explorer application window. The interface is divided into several panes:

- Datasets:** A tree view on the left showing a list of datasets under the qualifier 'KNUTSON', including files like ISPO1641.SPFTEMP1.CNTL and various SPFLOG1.LIST files.
- Unix files:** A pane below the datasets showing a directory structure with folders like \$SYSNAME, \$VERSION, bin, and cics, and files like cicspa31.pax.Z and cicspa31.readme.txt.
- Jobs:** A pane at the bottom left showing a list of jobs, including USERIDA, USERIDC, USERIDB, JESJCLIN, and JESMSGG, with their respective job IDs and error messages.
- Editor:** A central pane showing the configuration file `zerocics.config` with various options and JVM profiles.
- Job viewer:** A pane at the bottom right showing the output of job `JOB01687.JESJCLIN`, including JCL code and job statistics.

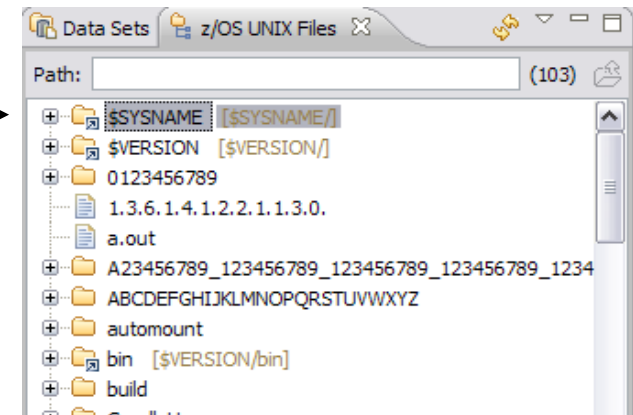
Callouts with green boxes and arrows point to these specific areas:

- Datasets:** Points to the dataset list.
- Unix files:** Points to the file browser.
- Jobs:** Points to the job list.
- Editor:** Points to the configuration file editor.
- Job viewer:** Points to the job output window.
- CTRL-mouse enables hyperlink:** Points to a blue hyperlink in the JCL code: `DSN=CICSDA.V110.SCPHAUTH`.

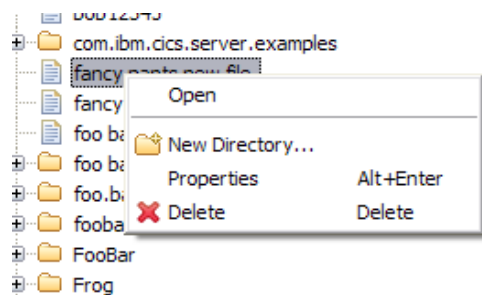
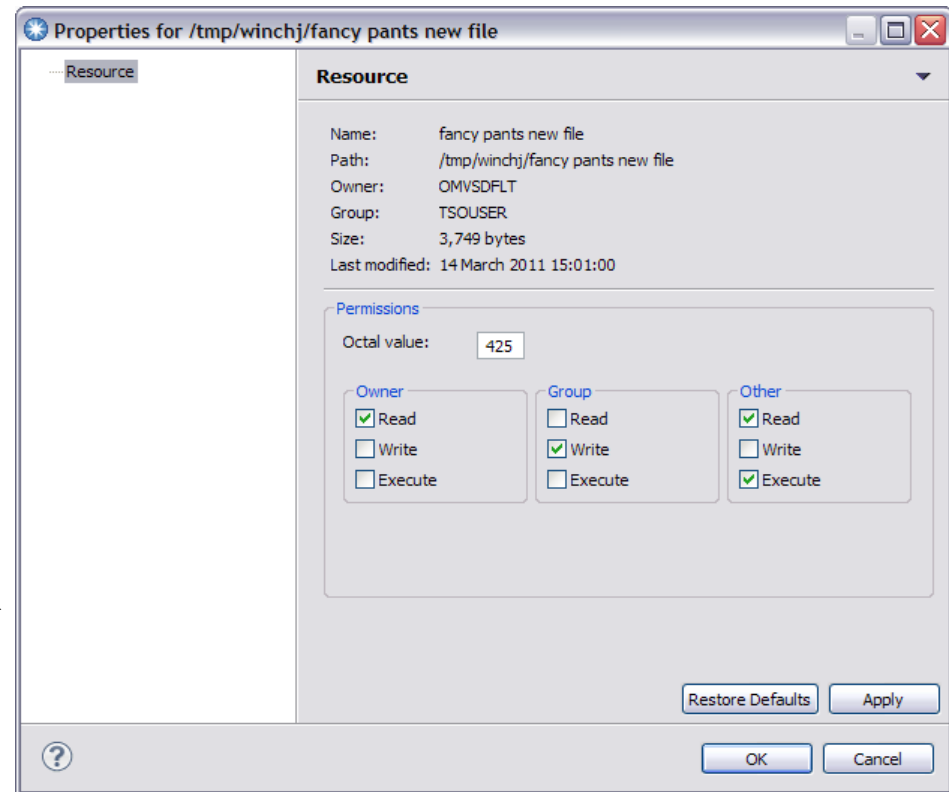


# z/OS - UNIX File System function

- ▶ Support for symbolic links in navigator
- ▶ Properties view shows details
- ▶ Properties pop-up change permissions



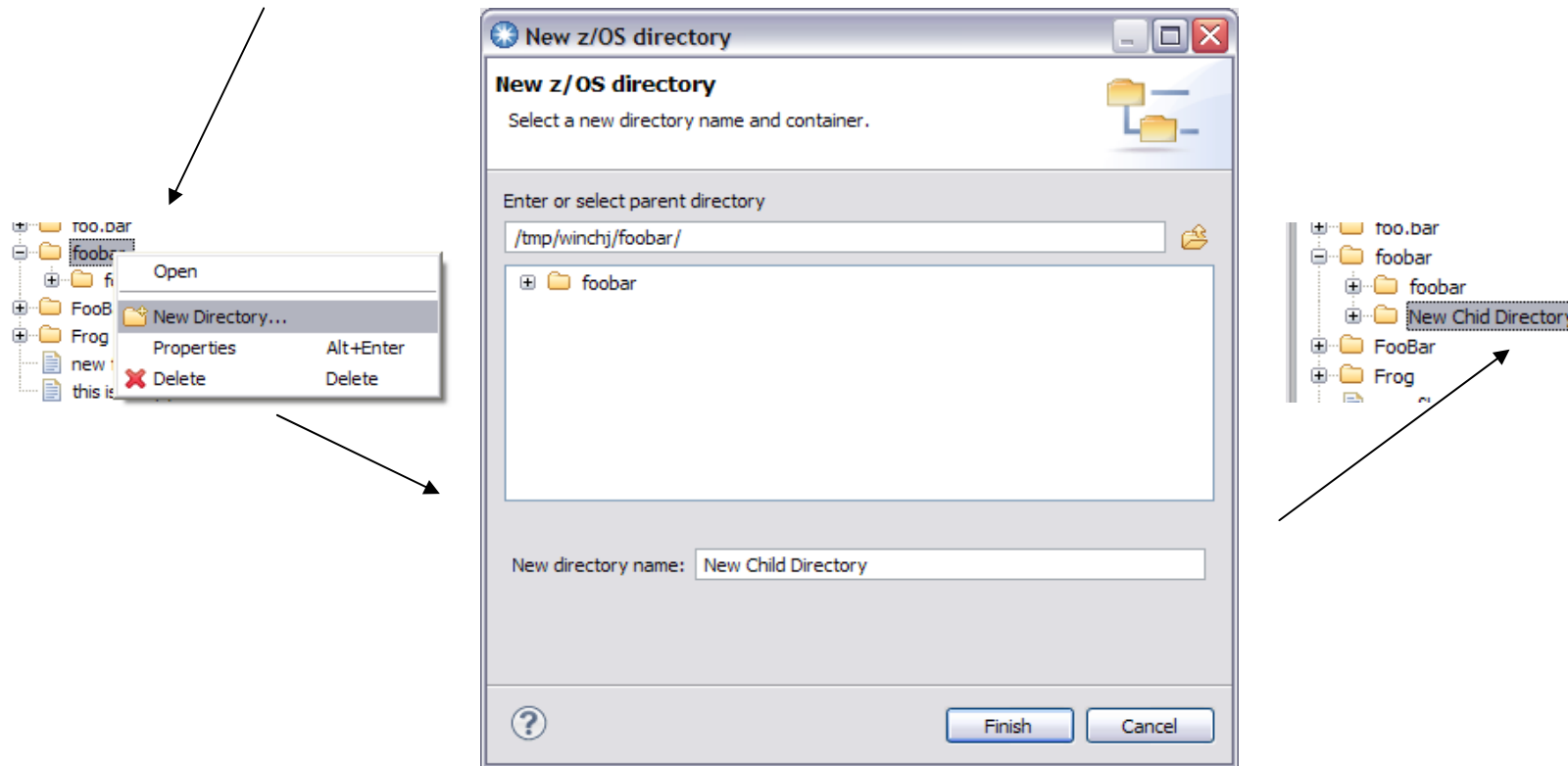
Property	Value
Last modified	13 May 2011 13:49:00
Name	ZOS1R13
Owner - File	1698
Owner - Group	STGRP
Path	/ZOS1R13/
Permission - Group	read, execute
Permission - Other	read, execute
Permission - Owner	read, write, execute
Size	1312
Type	Directory



launches

# z/OS - UNIX File System function

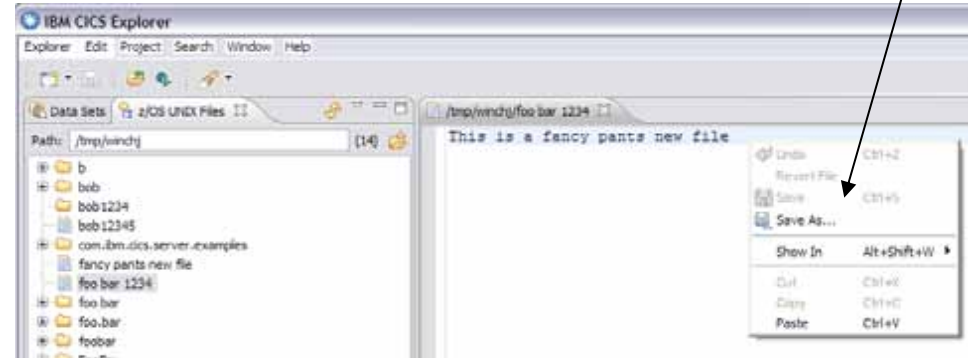
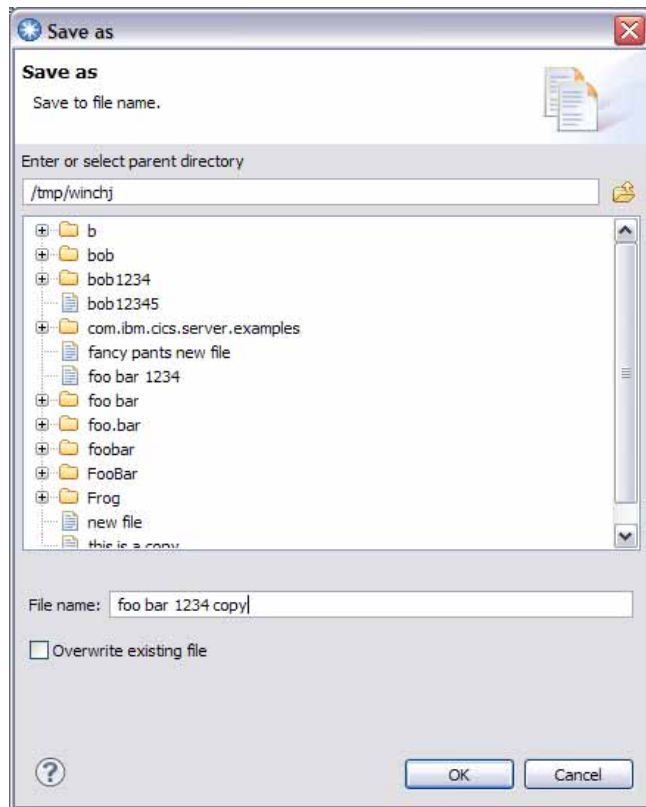
## ▶ New Folder



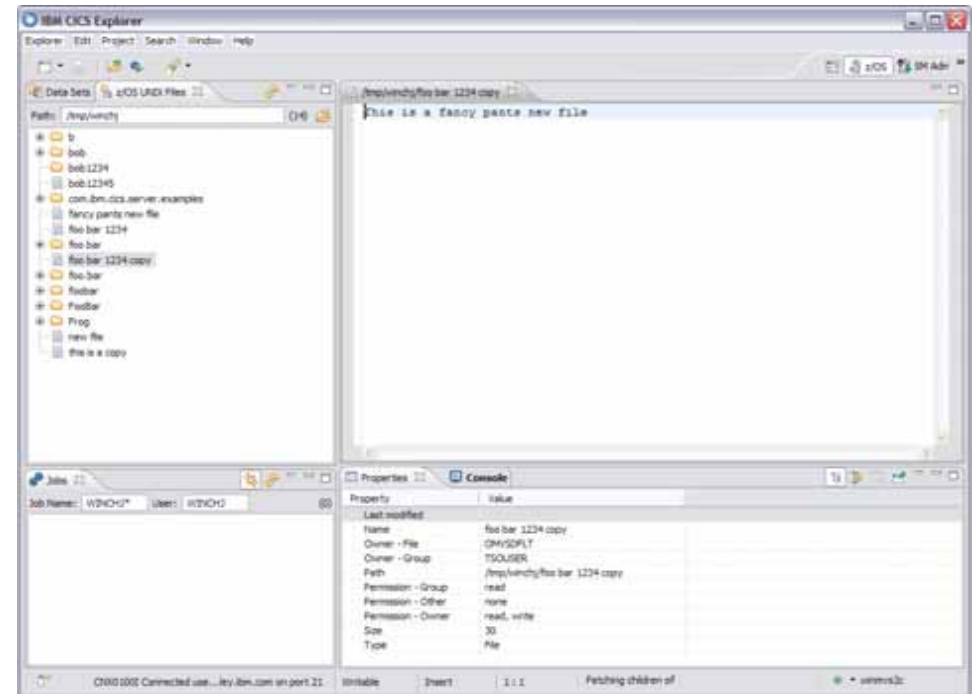
# z/OS - UNIX File System function

## ► File Save As...

Editor popup  
And Menubar Explorer  
Save As...

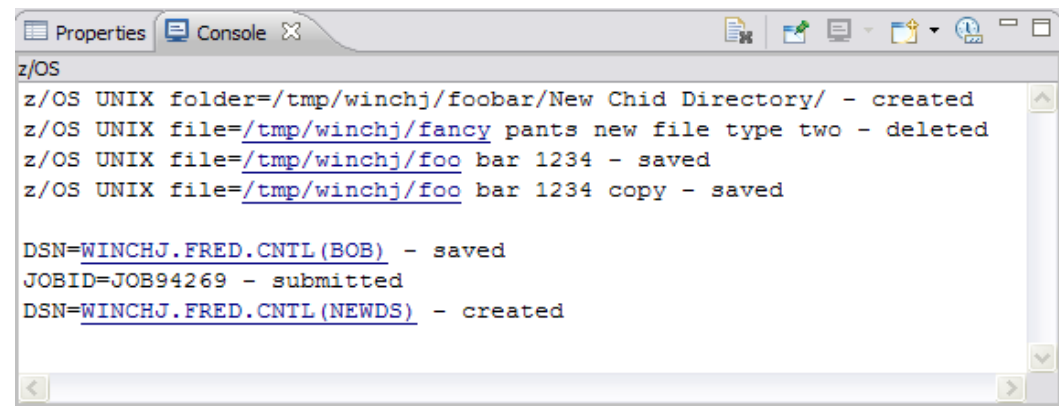
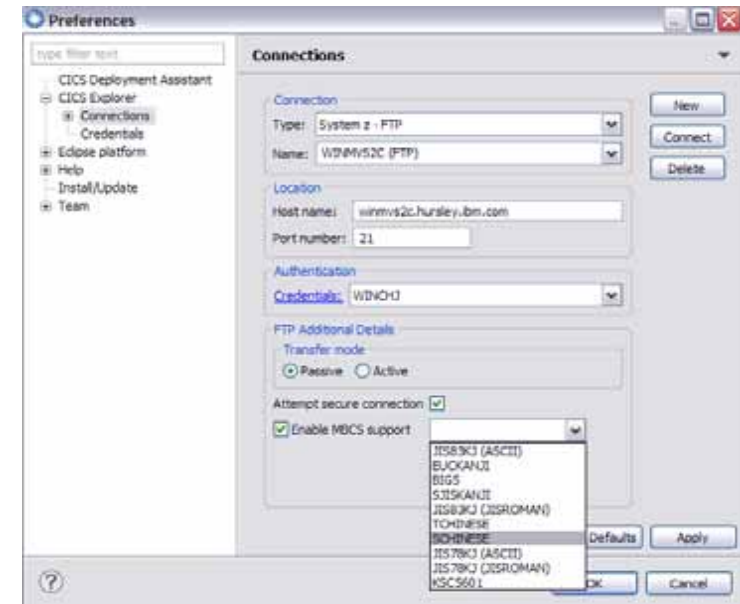
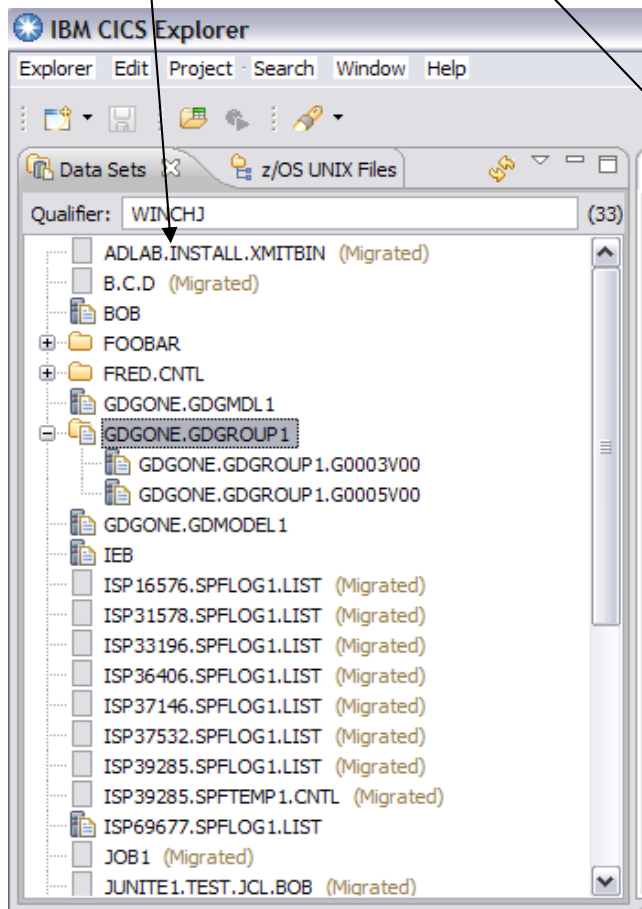


Newly created  
File is opened and  
shown in tree with  
no need to F5 refresh

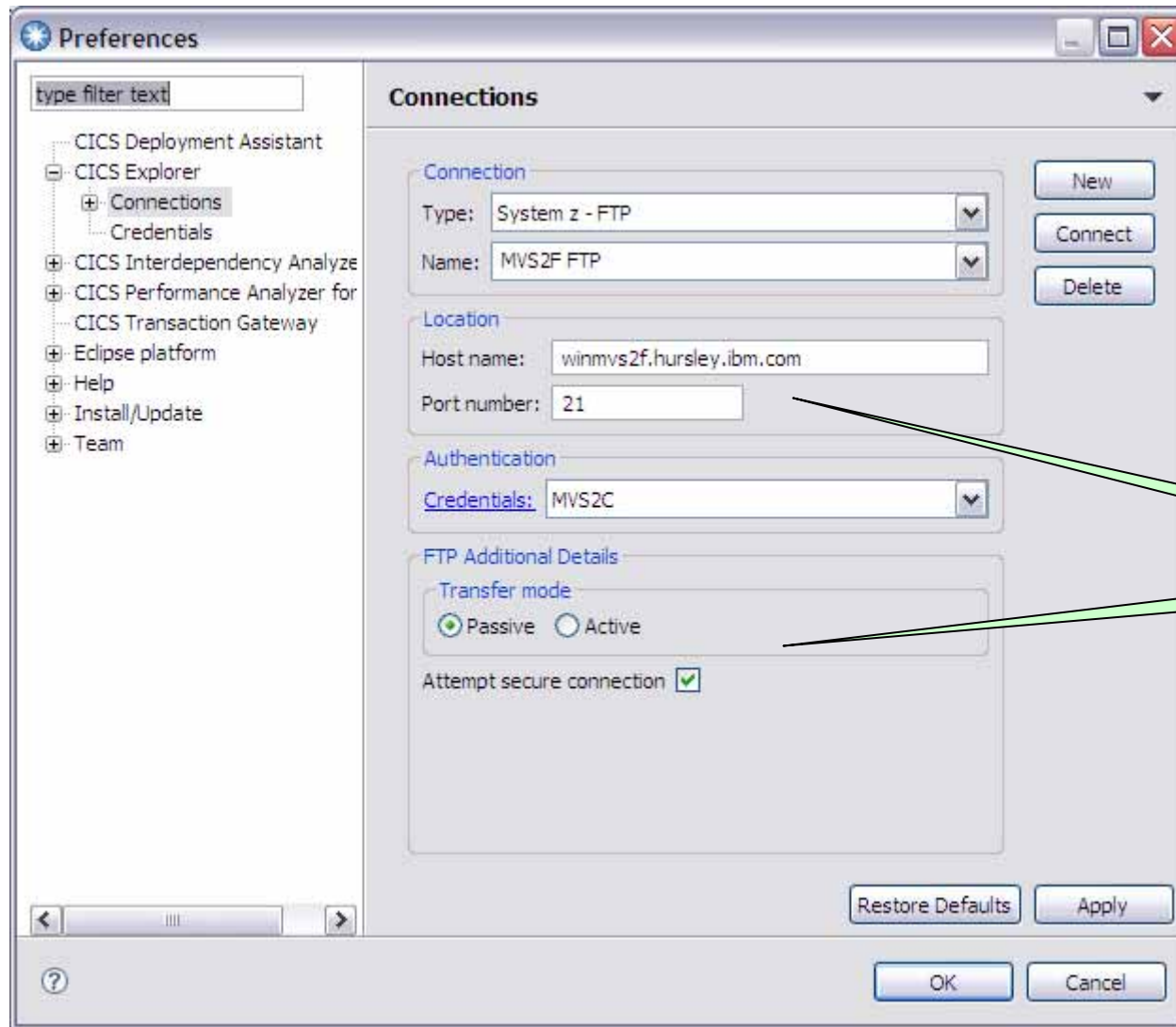


# z/OS Data Sets

- ▶ z/OS Generation Data groups
- ▶ DBCS support
- ▶ Console Hyperlinks



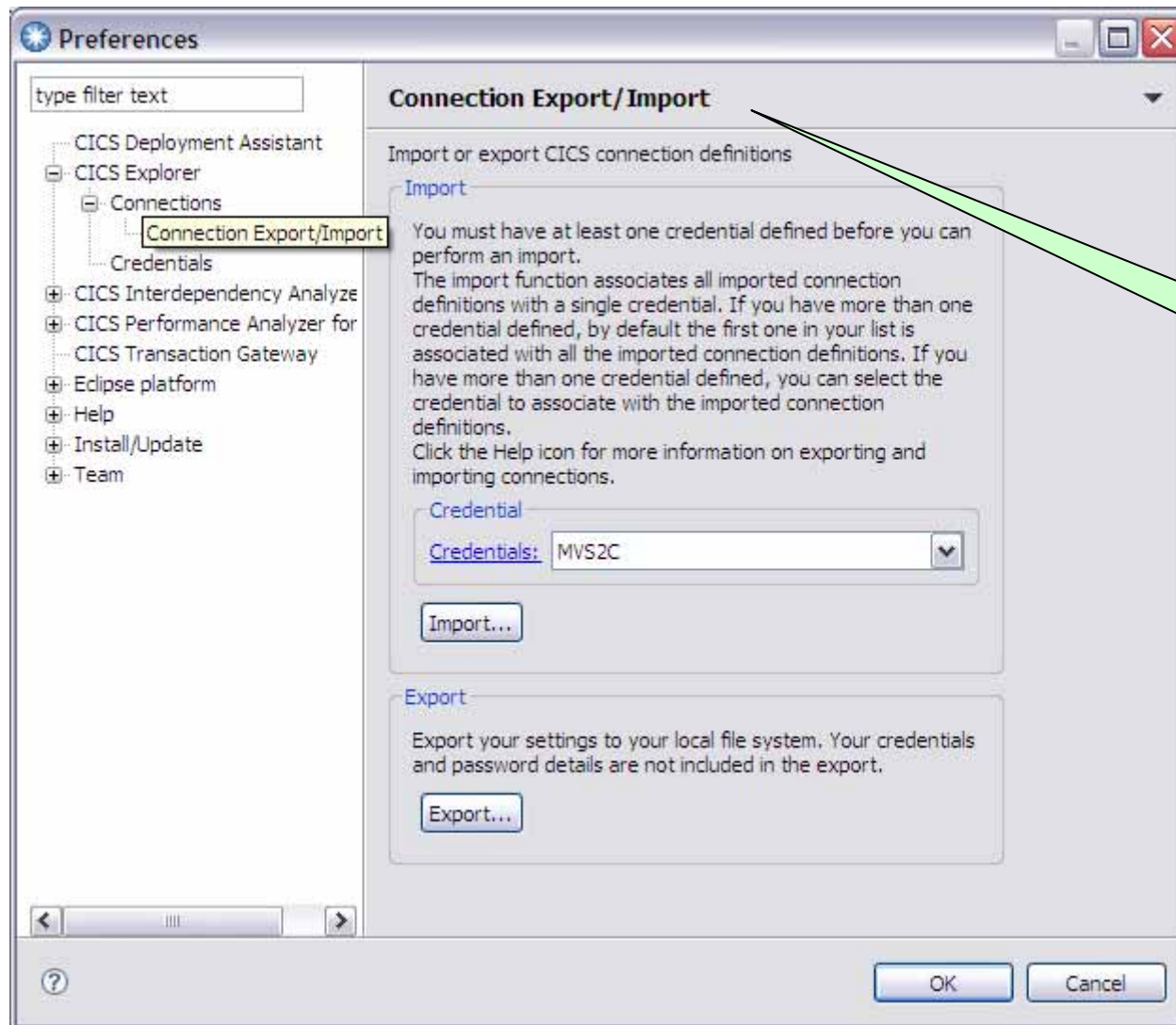
# z/OS Connection



**Secure FTP**



## Connection Export / Import



**Export Connection definitions to xml file for Edit / and Import by team members**





# Host Connections view and Shared Connections

The screenshot displays two overlapping windows from the IBM software interface. The top window, titled 'Host Connections', shows a tree view of connection types including CICS System Management, z/OS, and z/OSMF. A callout box points to this window with the text: **New instance – no connections**.

The bottom window, titled 'Load Connections', is open to the 'Load or Import Connections from File' dialog. It prompts for a file location and offers 'Load (recommended)' or 'Import' options. A callout box points to this dialog with the text: **Load or Import connection definitions from shared repository**.

The bottom window also shows the 'Shared Connections' view, which lists various connection instances such as 'winmvs2e:19989 [KNUTSON\_F]' and '2c (Secure) [KNUTSON\_C]'. A context menu is open over the 'winmvs2e:19989 [KNUTSON\_F]' instance, showing options like 'Connect', 'Open...', 'Delete', and 'Set Credentials'. The 'Set Credentials' option is expanded, showing a list of credential names: 'New Credentials', 'KNUTSON\_F', and 'KNUTSON\_C'. A callout box points to this menu with the text: **Associate user credentials with one or more connections**.

At the bottom of the interface, a status bar shows the connection path: 'ON to...mvs2e.hursley.ibm.com on port 9991' and the user 'Satish Tanna 4.2 CMCI'.



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# CICS Deployment Assistant



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# Discovery – 5 simple steps

**Step 1: New Project**  
 Select a wizard  
 Create a new CICS S

**Step 2: Create CICS Deployment Assistant Project**  
 Specify the location for the project and a connection to discover the MVS Images from

**Step 3: Create CICS Deployment Assistant Project**  
 Specify the location for the project and a connection to discover the MVS Images from

**Step 4: Create CICS Deployment Assistant Project**  
 Specify the location for the project and a connection to discover the MVS Images from

**Step 5: Create CICS Deployment Assistant Project**  
 Specify the location for the project and a connection to discover the MVS Images from

**Final View: DA Projects**  
 MVS2Ca MVS2C [winmvs2c.hursley.ibm.com]

- CICS Coupling Facility Data Table Servers (3)
  - CFSEVRVC\_MV2C.cicscfdatatable
  - DFHCF2C4\_MV2C.cicscfdatatable
  - DFHCF2C6\_MV2C.cicscfdatatable
- CICS Named Counter Servers
- CICSplexes (16)
- CICSplex SM Web User Interface Servers (6)
  - IYCWEEW1.region [CPSM Data Port: 27058]
  - IYCWEEW2.region [CPSM Data Port: 27059]
  - IYCWEFW1.region [CMCI Port: 27066,CPSM]
  - IYCWEFW2.region [CMCI Port: 27067,CPSM]
  - IYCWGIW0.region [CMCI Port: 10203,CPSM]
  - IYK2ZGV4.region [CPSM Data Port: 9045]
- CICS Regions - Managed by CICSplex SM (10)
  - AKATDEMO.region [JTPLEX2]
  - IYCWEED1.region [CICSEXP3]
  - IYCWEEE1.region [CICSEXP3]
  - IYCWEFD1.region [CICSEXP2]
  - IYCWEFE1.region [CICSEXP2]
  - IYCWEFF1.region [CICSEXP2]
  - IYCWEFF2.region [CICSEXP2]
  - IYCWGIT0.region [GEMPLX01]
  - IYCWGIT1.region [GEMPLX01]
  - IYK2ZGV1.region [JTPLEX2]
- CICS Regions - Unmanaged (13)
- CICS Temporary Storage Servers
- CMASeS (4)
  - IYCWEECM.cmas
  - IYCWFCM.cmas
  - IYCWGIC0.cmas
  - IYK2ZGV3.cmas
- DB2 (9)
- WebSphere MQ (4)
  - MQD1MSTR.mq
  - MQDDMSTR.mq
  - QG2CMSTR.mq
  - RQ34MSTR.mq
- MV2C.mvsimage
- PLEX2.sysplex

# Visualization - Sysplex

**Sysplex view shows all MVS images and CICSplexes in the LPAR**

The screenshot shows the CICS Explorer interface with the Sysplex view selected. The left pane shows a tree view of the system components, including CICS Coupling Facility Data Tables, CICS Named Counter Servers, CICSplexes (16), CICSplex SM Web User Interface Servers, CICS Regions - Managed by CICSplex, CICS Regions - Unmanaged, CICS Temporary Storage Servers, CMASes, DB2, WebSphere MQ, and MVS images. The main pane is divided into several sections: MVS Images (showing MV2C), CICSplexes (showing CICSSEXP2, CICSSEXP3, DOH1, DOH2, DUMMY, DUMMY907, and GEMPLX01), CICSplex (showing Groups, Regions, CHASes, and Web User Interface servers), and a console window at the bottom showing system logs and commands.

**CICSplex views shows managed regions and groups, CMASs and WUIs**



# Visualization - CICSplex

**Navigate from CICSplex to Managed region, CMAS, and WUI**

The screenshot displays the IBM CICS Explorer interface with four main panels illustrating navigation:

- Top Left Panel (CICSplex):** Shows a tree view of CICSplex components. The 'Regions' table is highlighted with a red circle around the 'IYCWEFD1' row. The 'CMASes' table is also highlighted with a red circle around the 'IYCWEFCM (MP)' row.
- Top Right Panel (Managed CICS Region):** Shows details for the 'IYCWEFD1' region. It includes fields for Applid, Job, Program, User, DB2, and IMS, along with start policy options like 'Batch Job' and 'Started Task'.
- Bottom Left Panel (CMAS):** Shows details for the 'IYCWEFCM' CMAS, including 'tails' information and start policy options.
- Bottom Right Panel (Web User Interface):** Shows details for the 'IYCWEFW1' WUI, including 'tails' information and start policy options.

Red arrows indicate the navigation path: from the 'IYCWEFD1' region in the top-left panel to the 'Managed CICS Region' in the top-right panel; from the 'IYCWEFCM (MP)' CMAS in the top-left panel to the 'CMAS' panel in the bottom-left panel; and from the 'IYCWEFW1' WUI in the top-left panel to the 'Web User Interface' panel in the bottom-right panel.

# Visualization – MVS image

**Navigate from CICSplex to Managed region, CMAS, and WUI**

The screenshot displays the IBM CICSplex Explorer interface for an MVS image. The main window is titled "MV2C: MVS Image" and shows the "CICS Regions" section. Under "Managed Regions", a table lists applications and their MAS values:

AppID	MAS
AKATDEMO	AKATDEMO
IYCWEED1	IYCWEED1
IYCWEEE1	IYCWEEE1
IYCWEFD1	IYCWEFD1
IYCWEFE1	IYCWEFE1
IYCWEFF1	IYCWEFF1

Below this, the "Web User Interfaces" section shows a table of connections:

AppID	Connection Details
IYCWEEW1	[CPSM Data Port: 27058]
IYCWEEW2	[CPSM Data Port: 27059]
IYCWEFW1	[CMCI Port: 27066,CPSM Data Port: 27056]
IYCWEFW2	[CMCI Port: 27067,CPSM Data Port: 27057]

The "Other Subsystems" section is also visible, containing sub-sections for DB2, WebSphere MQ, Temporary Storage Servers, Named Counter Servers, and Coupling Facility Data Tables.

**Automated SM connection set-up**

**DB2, WMQ, and other CICS sub-systems**



# Visualization – Managed and Unmanaged regions

The screenshot displays two windows from the IBM CICSplex System Management interface. The top window, titled "Managed CICS Region", shows details for a region named IYCWEFF2. It includes fields for Applid, Job, Program, Version, User, MVS Image, DB2, and IMS. The "Start Policy" section is set to "Started Task" with a start command of "s IYCWEFF2". A "CICS to CICS" table lists existing regions: IYCWEFE 1 and IYCWEFF 1. A "Clone CICS Region Wizard" link is visible in the "CICSplex System Management" section.

The bottom window, titled "Unmanaged CICS Region", shows details for a region named IYCWEFFS. It includes fields for Applid, Job, Program, Version, User, MVS Image, DB2, and IMS. The "Start Policy" section is set to "Batch Job". A message states "The CICS Region is not part of a CICSplex." and provides a link to "Add to CICSplex".

**Clone region**

**Add to CICSplex**

# Clone – 3 simple steps

**Clone a CICS region**  
Specify attributes and start policy for your new region, based on those from IYCWEFF2

New CICS Applid: IYCWEFFA  
New CICS Sysid: EFFA  
New MAS Name: IYCWEFFA  
New Description: Region cloned from IYCWEFF2 by CICS DA

Specify the start policy type and value for your new CICS region.

Batch Job  
 Started Task

Data Set:   
Member Name:

**Specify new names**

**New dataset names chosen automatically**

**Cloned region added to model**

**Console view shows all cloning actions and list of outstanding manual tasks**

**Clone a CICS Region**  
Confirm values for the new data sets which will be created on finish

Confirm the values for the new data sets

DD Name	Share	Existing Data set	New Data set
DFHXRMMSG	<input type="checkbox"/>	MQTST.SUBSYS.IYCWEFF2.DFHXRMSG	MQTST.SUBSYS.IYCWEFFA.DFHXRMSG
DFHEJDIR	<input checked="" type="checkbox"/>	MQTST.SUBSYS.IYCWEFF2.DFHEJDIR	MQTST.SUBSYS.IYCWEFFA.DFHEJDIR
DFHGCD	<input type="checkbox"/>	MQTST.SUBSYS.IYCWEFF2.GCD	MQTST.SUBSYS.IYCWEFFA.GCD

**Managed CICS Region**

**Details**  
Appid: IYCWEFFA Job: IYCWEFFA  
Program: DFHSIP Version: 660  
User: MVS Image MV2C  
DB2: MQ  
IMS:

**Start Policy**  
 Batch Job  
 Started Task  
Data set name:  Browse...  
Start Command: s IYCWEFFA  
Start Region Stop Region

**CICS to CICS**

ApplID	MAS

**Groups**

z/OS Command Console

```
Cloning of CICS region IYCWEFF2 to create CICS region IYCWEFFA completed successfully.  
The following data sets were allocated and are ready to be used by the new CICS region:  
MQTST.SUBSYS.IYCWEFFA.DUMPA  
MQTST.SUBSYS.IYCWEFFA.DUMPB  
MQTST.SUBSYS.IYCWEFFA.DFHXRMSG  
MQTST.SUBSYS.IYCWEFFA.GCD  
MQTST.SUBSYS.IYCWEFFA.DFHLRO
```

# z/OS Command Line

**Type in command**

The screenshot shows a z/OS Command Line window with the following content:

```
z/OS Command: da
```

```
20100929 14.36.33.52 MV2C
IEE114I 14.36.33 2010.272 ACTIVITY 786
JOBS      M/S      TS USERS  SYSAS    INITS    ACTIVE/MAX VTAM    OAS
00140    00081    00045    00041    00257    00045/00090  00214
```

The window title bar includes 'z/OS Job', 'System Log', 'z/OS Command Line', 'Console', and 'Properties'. The status bar at the bottom shows 'winmvs2c.hursley.ibm.com on port 10203' and 'MVS2C'.

**Command output shown below**



# Cheat Sheets

The image shows a 'Cheat Sheet Selection' dialog box on the left and two 'Cheat Sheets' windows on the right. The dialog box has two radio buttons: 'Select a cheat sheet from the list:' (selected) and 'Select a cheat sheet from a file:'. Under the first option, there is a tree view with 'CICS Deployment Assistant' expanded to show 'CICSplex SM Setup' and 'Upgrade to CICS TS 4.1 from CICS TS 3.x'. Below the dialog are 'OK' and 'Cancel' buttons.

The top 'Cheat Sheets' window is titled 'CICSplex SM Setup' and contains a tree view with the following items: 'Deploy CICSplex SM', 'Prepare the z/OS System', 'Load CICSplex SM Configuration Dataset', and 'Prepare CICSplex SM'. The 'Prepare the z/OS System' item is selected.

The bottom 'Cheat Sheets' window is titled 'Upgrade to CICS TS 4.1 from CICS TS 3.x' and contains the following content:

- Introduction**
- Review System requirements
- Upgrading CICS: Information Center documentation**
  - Definitive information on upgrading CICS is found in the CICS Information Center.
  - This step will open the Upgrading sections of the CICS Information Center.
  - Note:** You will require access to the internet for the CICS Information Center to be opened.
  - For CICS TS 3.1 Users, Click to open the 'Upgrading from CICS TS 3.1' section of the CICS Information Center
  - For CICS TS 3.2 Users, Click to open the 'Upgrading from CICS TS 3.2' section of the CICS Information Center
- Redefine CICS Local and Global catalogs
- CSD Considerations
- Review SIT**
  - The CICS SIT options/overrides need to be reviewed.
  - If you are upgrading from CICS TS 3.1, remove the redundant MNSUBSYS option if present.
  - If not already removed in a previous task, remove the WebSphere MQ connection program (CSQCPARM or DFHMQPRM) INITPARM option.
  - If you are upgrading from CICS TS 3.1, review the CICS APPLID option. CICS APPLIDs must be unique within the sysplex.
  - If you are upgrading from CICS TS 3.1 and are using the SEC=YES option, then the new SIT options XFHS and XRES should be reviewed as new security checks may occur.
  - Review the JVMPROFILEDIR option. The default JVMPROFILE option has changed, based upon the value of the new CICS\_HOME option.
  - Review the USSHOME option. The directory specified or defaulted by the USSHOME option must be available in the



IBM Software Group

# CICS Interdependency Analyzer



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# CICS Interdependency Analyzer Explorer - the predecessor

## What is CICS IA?

A discovery tool that identifies resource interdependencies in your CICS systems. Automates detection of your CICS runtime relationships and populates data in a DB2® database for off production analysis.

***Now includes a powerful eclipse-based query user interface***

The screenshot shows the CICS Interdependency Analyzer Explorer interface with several annotated components:

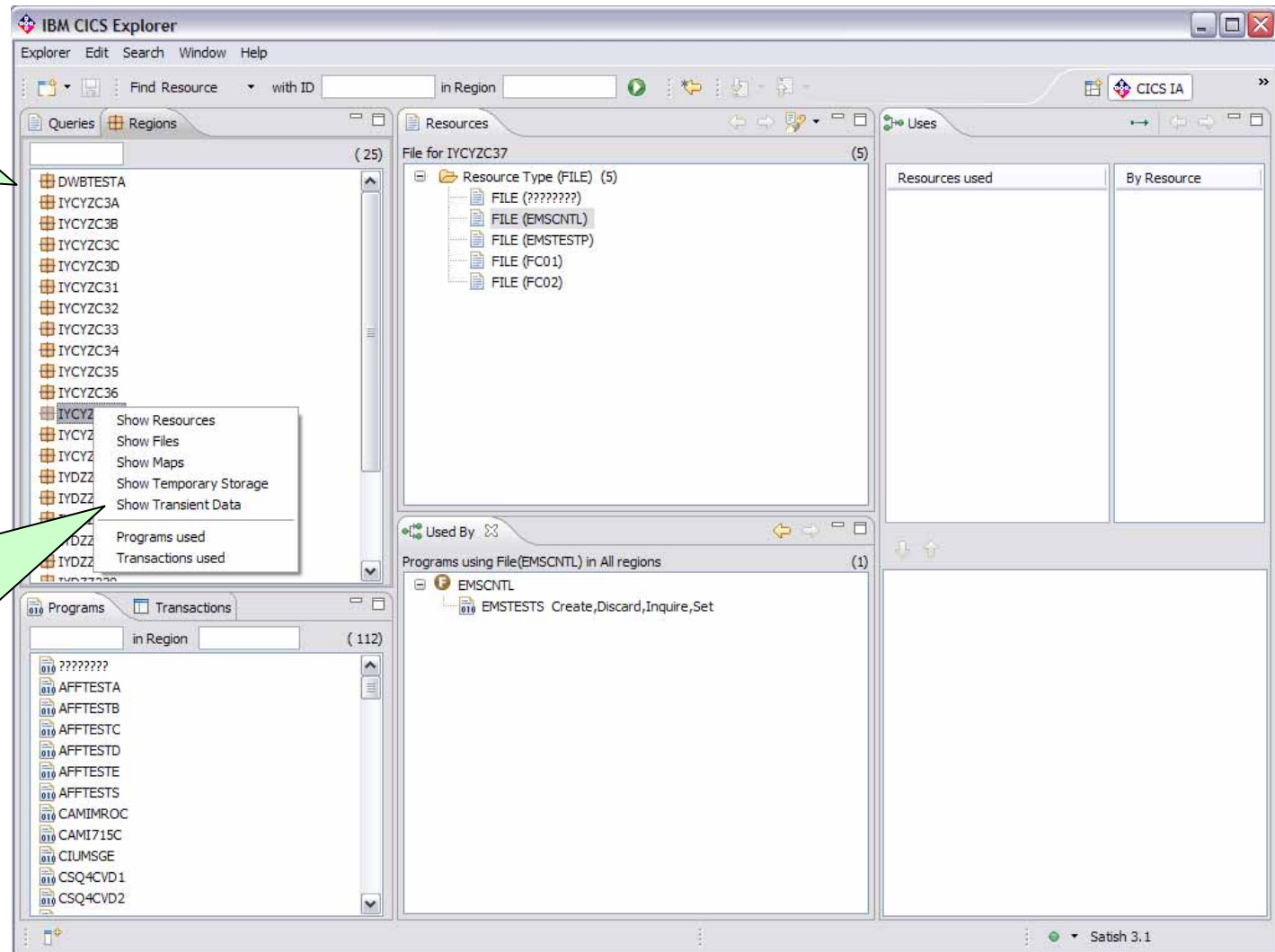
- Top Left:** "Saved query definitions" pointing to the "Queries" tab.
- Top Center:** "List of all Regions" pointing to the "Regions" tab.
- Top Right:** "Breakdown of resources used" pointing to the "Resources" tab.
- Bottom Left:** "List of all Programs" pointing to the "Programs" tab.
- Bottom Center-Left:** "List of all Transactions" pointing to the "Transactions" tab.
- Bottom Center-Right:** "Where is resource used?" pointing to the "Used By" tab.
- Bottom Right:** "Call tree of program execution" pointing to the "Uses" tab.



# CICS Explorer - CICS IA perspective

*Lists regions where the collector has run*

*Lets you do things like see the resources the collector observed and see where they're used.*



# CICS Explorer - CICS IA integration in SM perspective

The screenshot displays the IBM CICS Explorer interface. The main window shows a list of CICS regions under the 'Regions' tab. A search results window is open at the bottom right, showing the results for a query on the DBCS resource. A context menu is visible over the search results, and a pop-up window is also present.

Region	Name	Status	Live Count	Bridge Exit	Deadlock Ti...	Program	Priority	Transaction...	Purgeability	Dumping	Routing
CICSPL11 (2/39)											
CTSADR1	CICSADR1	ENABLED	0	0	0	DISCHR	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CTSADR2	CICSADR2	ENABLED	0	0	0	DISCHR	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CTSADR3	CICSADR3	ENABLED	0	0	0	DPHOCM1	255	DHFTCL00	PURGEABLE	TRANDUMP	STATIC
CICSMD1	CICSMD1	ENABLED	0	0	0	EQACDCHM	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD2	CICSMD2	ENABLED	0	0	0	EQAWCDTP	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD3	CICSMD3	ENABLED	0	0	0	EQAWCDTX	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD4	CICSMD4	ENABLED	0	0	0	OBSA0000	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD5	CICSMD5	ENABLED	0	0	0	OBSA3000	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD6	CICSMD6	ENABLED	0	0	0	OBSA2000	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD7	CICSMD7	ENABLED	0	0	0	OBSA3000	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD8	CICSMD8	ENABLED	0	0	0	OBSA4000	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD9	CICSMD9	ENABLED	0	0	0	OBSA5000	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD10	CICSMD10	ENABLED	0	0	0	DPH4RS	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD11	CICSMD11	ENABLED	0	0	0	DSNBCC0	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD12	CICSMD12	ENABLED	0	0	0	DSNBCC6	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD13	CICSMD13	ENABLED	0	0	0	DSNBCC9	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD14	CICSMD14	ENABLED	0	0	0	DSNBCC3	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD15	CICSMD15	ENABLED	0	0	0	DSNBCC3	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD16	CICSMD16	ENABLED	0	0	0	DPHOCDFG	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD17	CICSMD17	ENABLED	0	0	0	DPHOCUE	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD18	CICSMD18	ENABLED	0	0	0	EVABCR	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD19	CICSMD19	ENABLED	0	0	0	DPHOCJLE	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD20	CICSMD20	ENABLED	0	0	0	EOERR	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD21	CICSMD21	ENABLED	0	30	0	DPH4RS	1	DHFTCL00	PURGEABLE	TRANDUMP	STATIC
CICSMD22	CICSMD22	ENABLED	0	0	0	EZACIC23	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD23	CICSMD23	ENABLED	0	0	0	EZACIC00	255	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD24	CICSMD24	ENABLED	0	0	0	EZACIC22	255	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD25	CICSMD25	ENABLED	0	0	0	DPH4RS	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD26	CICSMD26	ENABLED	0	0	0	CBKCMND5	1	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD27	CICSMD27	ENABLED	0	0	0	EZACIC00	255	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD28	CICSMD28	ENABLED	0	0	0	EZACIC22	255	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC
CICSMD29	CICSMD29	ENABLED	0	0	0	EZACIC00	255	DHFTCL00	NOTPURGEA...	TRANDUMP	STATIC

*The pop-up lets you run the IA query straight from the region and the results are shown in a search results window at the bottom*

*If the IA collector has run in the region - a little decoration is shown in the bottom right hand corner*

# CICS Explorer - CICS IA integration in CICSplex perspective

The list of files in the Explorer - the files actually installed in the region, and their current status.

IA extends the context menu (pop-up) so you can easily see the information that IA has about the usage of the file so the "Used By Programs" and "Used By Transactions" ...

... is available on a live resource and opens the search results at the bottom.

The screenshot shows the IBM CICS Explorer interface. On the left is a tree view of CICS resources. The main area displays a table of files with columns for Name, Status, Open Status, and various permissions. A context menu is open over the file 'HCVISSET', showing options like 'Open', 'Enable', 'Disable', and 'Dependencies'. The 'Dependencies' sub-menu is expanded, showing 'Used By Programs' and 'Used By Transactions'. At the bottom, a pane titled 'Transactions using File(HCVISSET) in Region C1CAB91' displays a list of transactions and their actions.

Name	Status	Open Status	Add	Browse	Delete	Read	Update
C1CAB91.CJUNIT1	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CJUNIT2	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CJUNIT3	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CJUNIT4	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CJUNIT5	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CJUNIT6	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.COMPILE	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CUSTFILE	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.CVRDEMO	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.DPHOMACD	ENABLED	CLOSED	NO	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.DPHHSD	UNENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.DPHDFPK	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.DPHDFPHB	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.DPHDFPMP	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.DPHLRQ	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.EXMPCAT	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.EXMPCCNF	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.EZACONPG	DISABLED	OPEN	NO	NOTBROWSABLE	NOTDELETABLE	READABLE	NOTUPDATABLE
C1CAB91.PMFRSOP	ENABLED	OPEN	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.HCRSGID	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.HCVISSET	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.OISCDM91	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE
C1CAB91.POTVSAM	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	NOTUPDATABLE
C1CAB91.VIDXS06	ENABLED	CLOSED	AD	BROWSABLE	DELETABLE	READABLE	UPDATABLE



# CICS IA

The screenshot shows the IBM CICS Explorer interface. On the left, a tree view shows the CICSplex Explorer structure for server IYCYZC23, including TOOLPLX1 (4/4) and TSTPLEX (11/12) with various CICS resources. The main pane displays a table of resources for the scope CNX0212I. A search filter 'FI\*' is applied to the table. A callout box with a green background and black border points to the search filter with the text 'Use filters to limit scope'. Below the table, the 'Used By' tab is active, showing a list of programs using the selected file (FINAGRSV).

Region	Name	Status	Open Status	Add	Browse	Delete	Read	Update	LSR Pool	Dataset N
CICSC131	FINAGRSV	✓ ENABLED	CLOSED	NOTADDA...	NOTBRO...	NOTDELET...	READABLE	NOTUPDA...	01	CICSTOOL

Programs using File(FINAGRSV) in All regions (12)

- FINA895C Read
- FINA115C Read UPD by,Rewrite
- FINA100C linked by
- FINA100C Endbr,Read
- FINA800C XCTL by
- TSTACTLC Read
- FINA821C Read

**Use filters to limit scope**



# CICS IA

Region	Name	Status	Open Status	Empty Status	I/O Type	Record Length
CICSDM91	CCSO	ENABLED	OPEN	NOTEMPTY	OUTPUT	133
CICSDM91	CCVL	ENABLED	OPEN	NOTEMPTY	OUTPUT	255
CICSDM91	CESE	ENABLED	Open	NOTEMPTY	OUTPUT	164
CICSDM91	CE50	ENABLED		NOTEMPTY	OUTPUT	133
CICSDM91	CSBM	ENABLED	Disable	NOTAPPLIC	INPUT	?
CICSDM91	CSG2	ENABLED	Disable	NOTAPPLIC	INPUT	?
CICSDM91	CSIE	ENABLED	Discard	NOTAPPLIC	INPUT	?
CICSDM91	CPIL	ENABLED		NOTAPPLIC	INPUT	?
CICSDM91	CPHO	ENABLED		NOTAPPLIC	IT	?
CICSDM91	CPHT	ENABLED	OPEN		OUTPUT	133
CICSDM91	COPRL	ENABLED	CLOSED	NOTAPPLIC	INPUT	?
CICSDM91	CPLI	ENABLED	OPEN	NOTEMPTY	OUTPUT	133
CICSDM91	CRPO	ENABLED	OPEN	NOTEMPTY	OUTPUT	133
CICSDM91	CS5L	ENABLED	OPEN	NOTEMPTY	OUTPUT	136
CICSDM91	CSRP	ENABLED	OPEN	NOTEMPTY	REBACK	32767
CICSDM91	FMVC	ENABLED	CLOSED	NOTAPPLIC	INPUT	?
CICSDM91	FMVJ	ENABLED	CLOSED	NOTAPPLIC	OUTPUT	?
CICSDM91	FMVH	ENABLED	OPEN	NOTEMPTY	OUTPUT	?
CICSDM91	TPRM	ENABLED	OPEN	NOTEMPTY	OUTPUT	?
CICSDM91	VIDC	ENABLED	OPEN	NOTEMPTY	OUTPUT	80
CICSDM91	VIDD	ENABLED	OPEN	NOTEMPTY	OUTPUT	133
CICSDM91	VIDE	ENABLED	OPEN	NOTEMPTY	OUTPUT	80

**View the TD Queues for CICSDM91 in CICSPLX1 - select CESE - then see which programs use it**

**then drill down to the application structure**



## CICS IA plug-in - connection

The screenshot shows the 'Preferences' dialog box for the CICS IA plug-in. The 'Connections' tab is active, displaying configuration fields for a connection named 'CICSIA31'. The fields are organized into sections: Connection, Location, Authentication, and DB2. The 'Connection' section includes a dropdown for 'Type' (Interdependency Analyzer) and a dropdown for 'Name' (CICSIA31). The 'Location' section includes text boxes for 'Host name' (winmvs2d.hursley.ibm.com) and 'Port number' (49100). The 'Authentication' section includes a text box for 'User ID' (JAMESE). The 'DB2' section includes text boxes for 'Database Name' (DSN910P2) and 'Schema (Qualifier)' (CICSIA31). On the right side of the dialog, there are buttons for 'New', 'Connect', and 'Delete'. At the bottom, there are buttons for 'Restore Defaults', 'Apply', 'OK', and 'Cancel'. A search filter 'type filter text' is visible at the top left of the dialog.

**Preferences**

type filter text

- [-] CICS Interdependency Analyze
  - [-] Capabilities
  - [-] Connections
- [-] Help
- [-] Install/Update

**Connections**

**Connection**

Type: Interdependency Analyzer

Name: CICSIA31

**Location**

Host name: winmvs2d.hursley.ibm.com

Port number: 49100

**Authentication**

User ID: JAMESE

**DB2**

Database Name: DSN910P2

Schema (Qualifier): CICSIA31

New

Connect

Delete

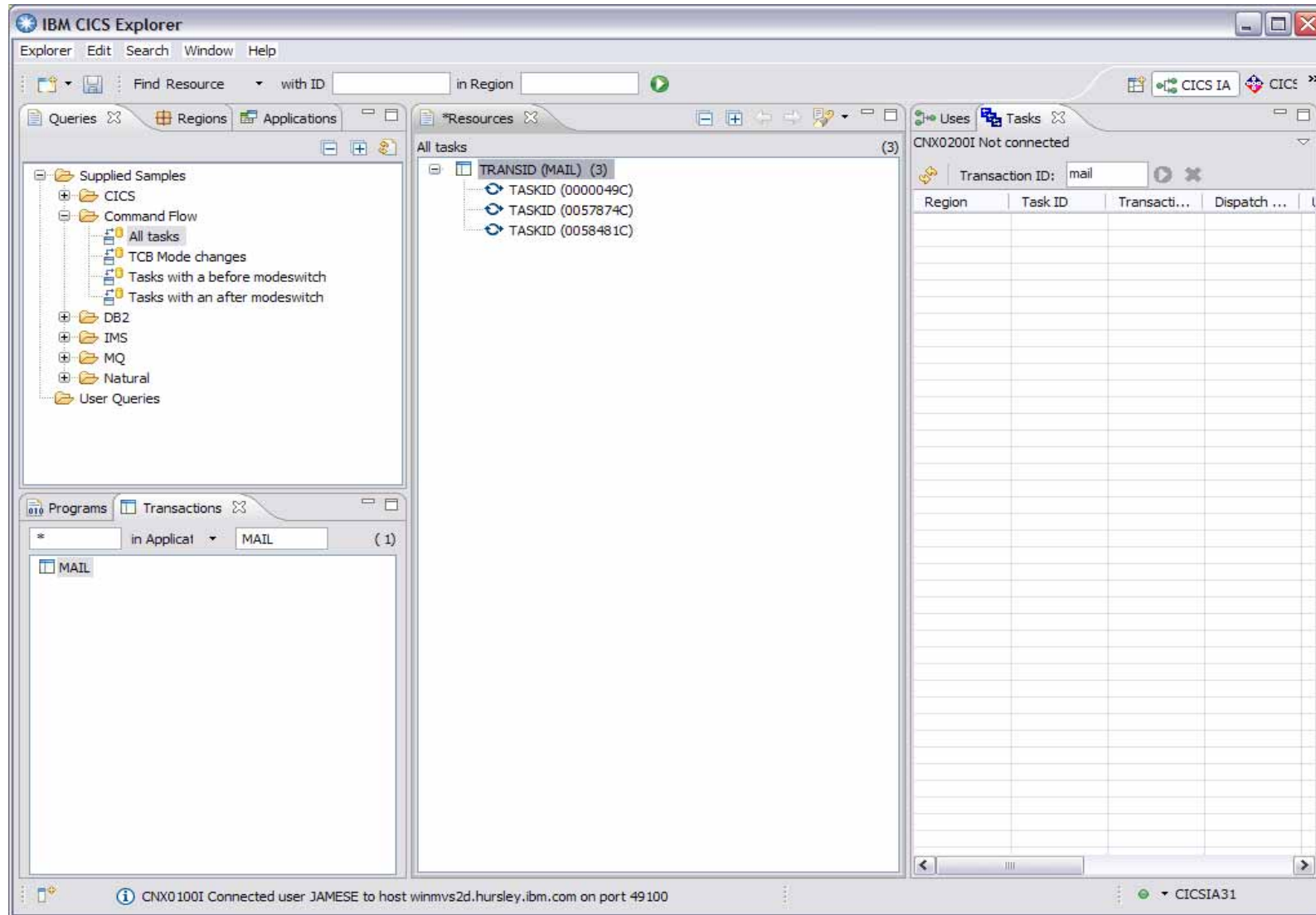
Restore Defaults

Apply

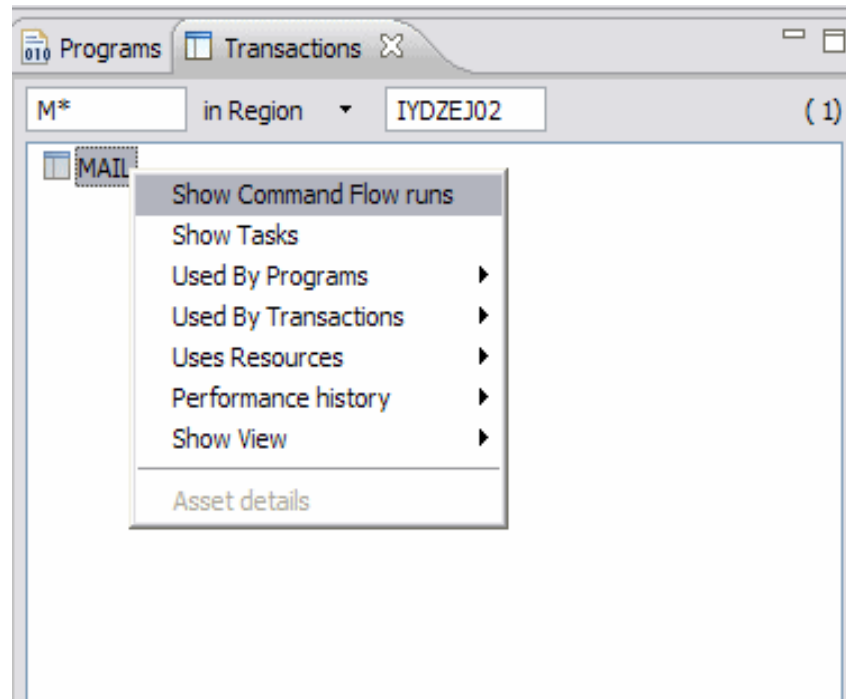
OK

Cancel

# CICS IA plug-in - connection



# CICS IA – Command Flow



# CICS IA – Command Flow

IBM CICS Explorer

Explorer Edit Search Window Help

Find Resource with ID in Region

Queries Regions Applications (4)

- IYDZEJOB
- IYDZEJ02
- IYDZEJ03
- IYDZZ328

Programs Transactions (1)

M\* in Region IYDZEJ02

MAIL

Resources (46)

Command Flow runs for TRANSID (MAIL)

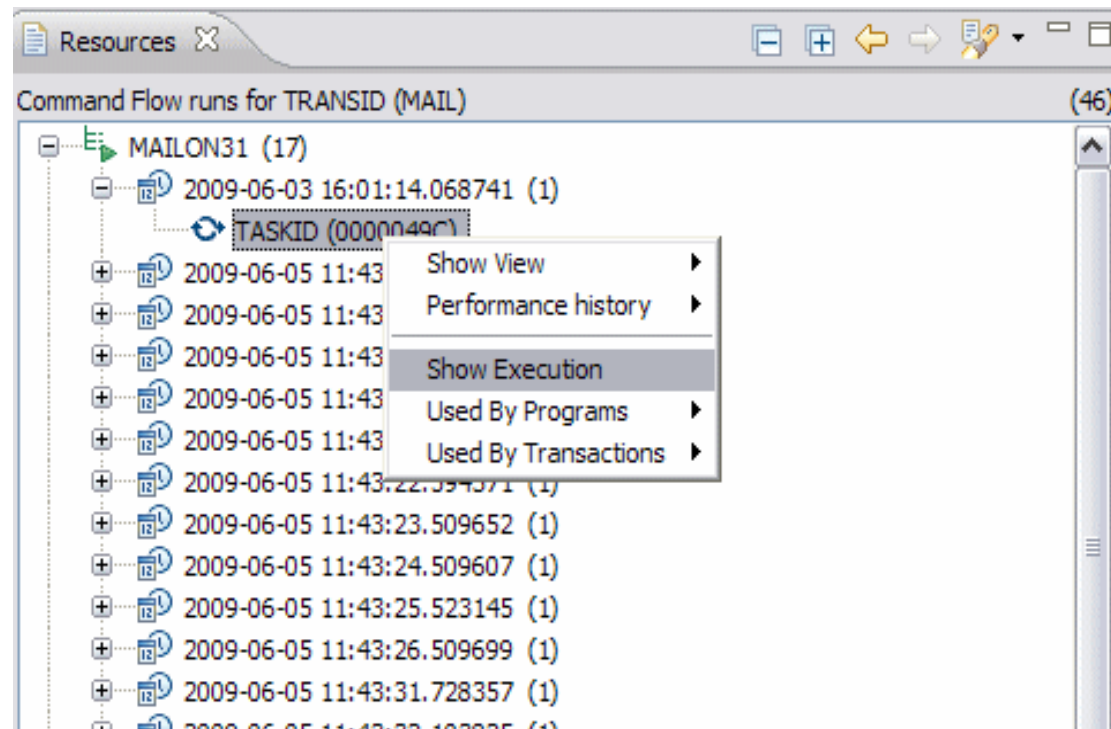
- MAILON31 (17)
  - 2009-06-03 16:01:14.068741 (1)
    - TASKID (0000049C)
  - 2009-06-05 11:43:17.510232 (1)
  - 2009-06-05 11:43:18.800904 (1)
  - 2009-06-05 11:43:19.532092 (1)
  - 2009-06-05 11:43:20.50955 (1)
  - 2009-06-05 11:43:21.90764 (1)
  - 2009-06-05 11:43:22.594371 (1)
  - 2009-06-05 11:43:23.509652 (1)
  - 2009-06-05 11:43:24.509607 (1)
  - 2009-06-05 11:43:25.523145 (1)
  - 2009-06-05 11:43:26.509699 (1)
  - 2009-06-05 11:43:31.728357 (1)
  - 2009-06-05 11:43:32.103825 (1)
  - 2009-06-05 11:43:32.883993 (1)
  - 2009-06-05 11:43:33.722729 (1)
  - 2009-06-05 11:43:35.171807 (1)
  - 2009-06-05 11:43:35.840939 (1)
  - MAILON41 (1)
  - MAIL41QR (27)
  - MAIL41TS (1)
  - 2009-06-04 09:47:31.051835 (1)

Resources used By Resource

REDTOOLS

CNX0100I Connected user JAMESE to host winmvs2f.hursley.ibm.com on port 48001

## CICS IA – Command Flow



# CICS IA – Command Flow

**TCB Modes Used**

- QR (63)
- L8 (24)
- Open
- Close
- Open CSQ4SAMP.MAIL
- Put1 CSQ4SAMP.MAILM
- Put1 CSQ4SAMP.MAILM
- Getmain STORAGE\_ADI
- Ignore
- Deleteq MAILTC55
- Get CSQ4SAMP.MAILM
- Writeq MAILTC55
- Get CSQ4SAMP.MAILM
- Writeq MAILTC55
- Get CSQ4SAMP.MAILM
- Writeq MAILTC55
- Get CSQ4SAMP.MAILM
- Ignore
- Readq MAILTC55
- Readq MAILTC55
- Readq MAILTC55
- Get CSQ4SAMP.MAILM
- Ignore
- Get CSQ4SAMP.MAILM
- Ignore
- Close CSQ4SAMP.MAIL

**TCB Mode Switches**

- QR (6)
- L8 (6)
- QR (6)
- Send CSQ4VD1
- Send CSQ4VD4
- Send CSQ4VD2
- Send CSQ4VD3
- Send CSQ4VD3
- Send

	TCB Mode	Previous TCB Mode
<b>MAIL</b>		
TST4CVD1		
Start of transaction	QR	QR
Getmain STORAGE_ADDRESS=13C04008	QR	QR
Ignore	QR	QR
Assign	QR	QR
Send CSQ4VD0	QR	QR
Receive CSQ4VD0	QR	QR
Open	L8	QR
Close	L8	L8
Open CSQ4SAMP.MAILMGR.JAMESE	L8	L8
Send CSQ4VD1	QR	L8
Receive CSQ4VD1	QR	QR
TST4CVD4		
TST4CVD1		
TST4CVD2		
TST4CVD3		
TST4CVD2		
TST4CVD3		
TST4CVD2		
TST4CVD1		

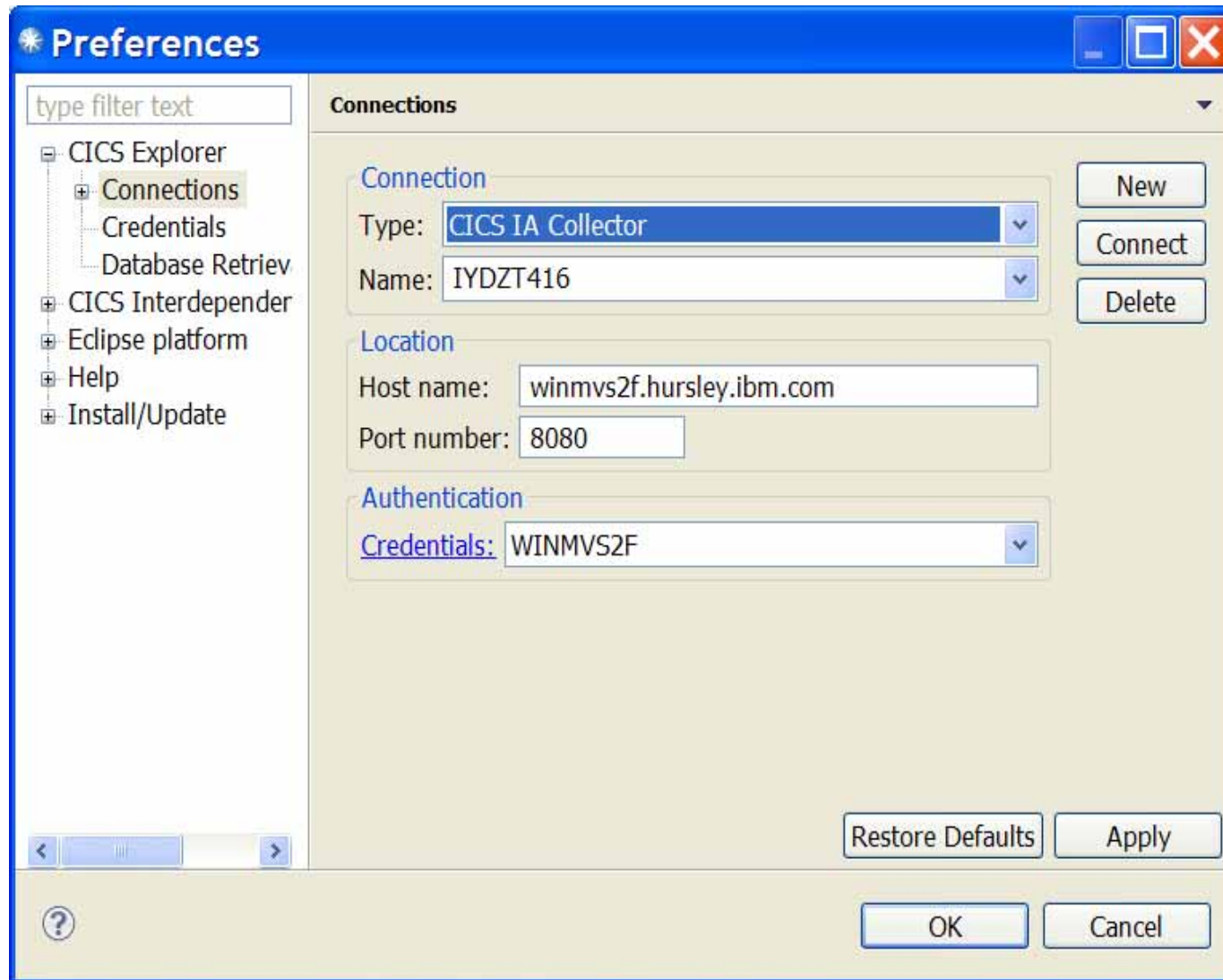
Total commands: 87

© CNX0100I Connected user JAMESE to host winmvs2f.hursley.ibm.com on port 48001

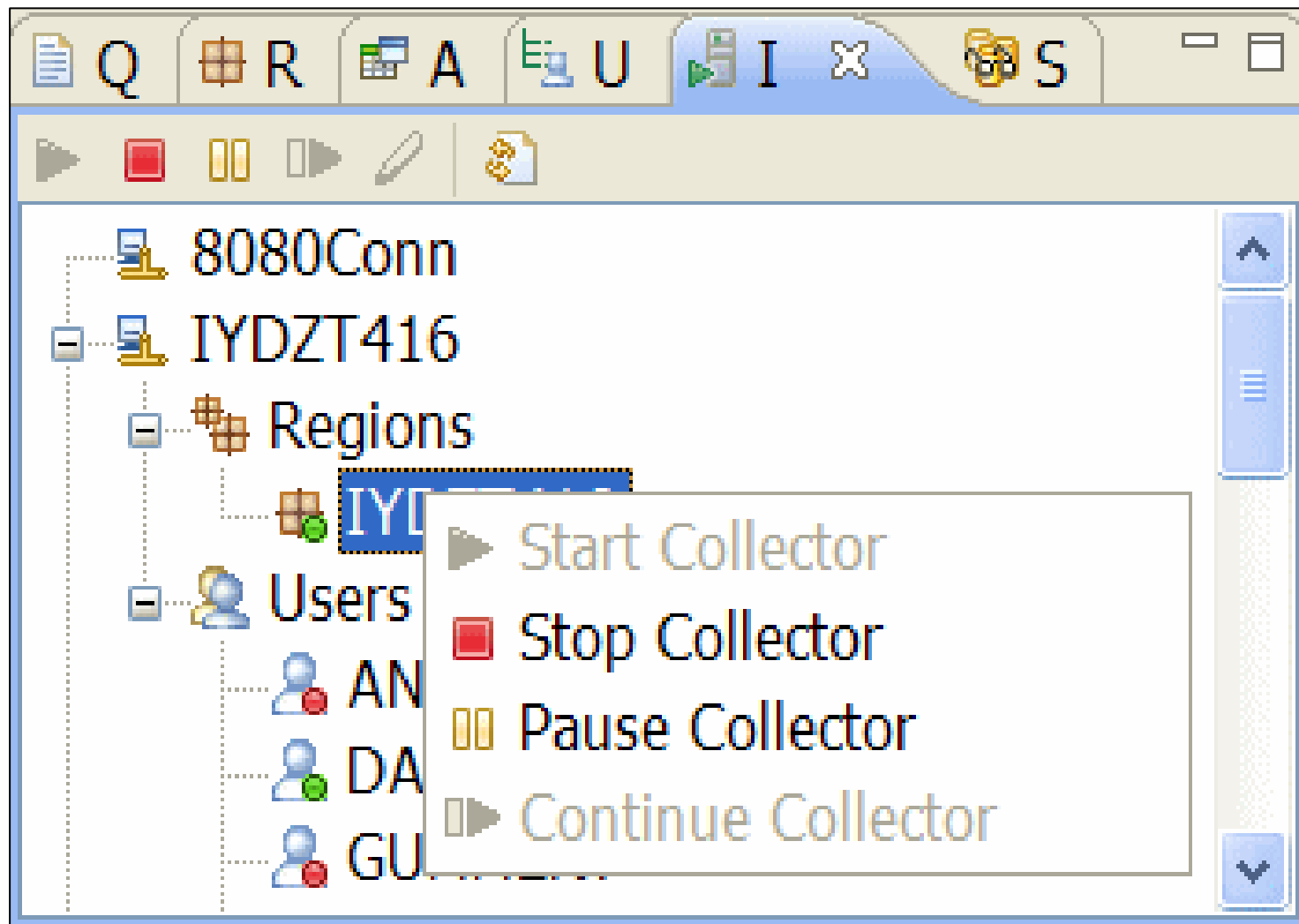
REDTOOLS



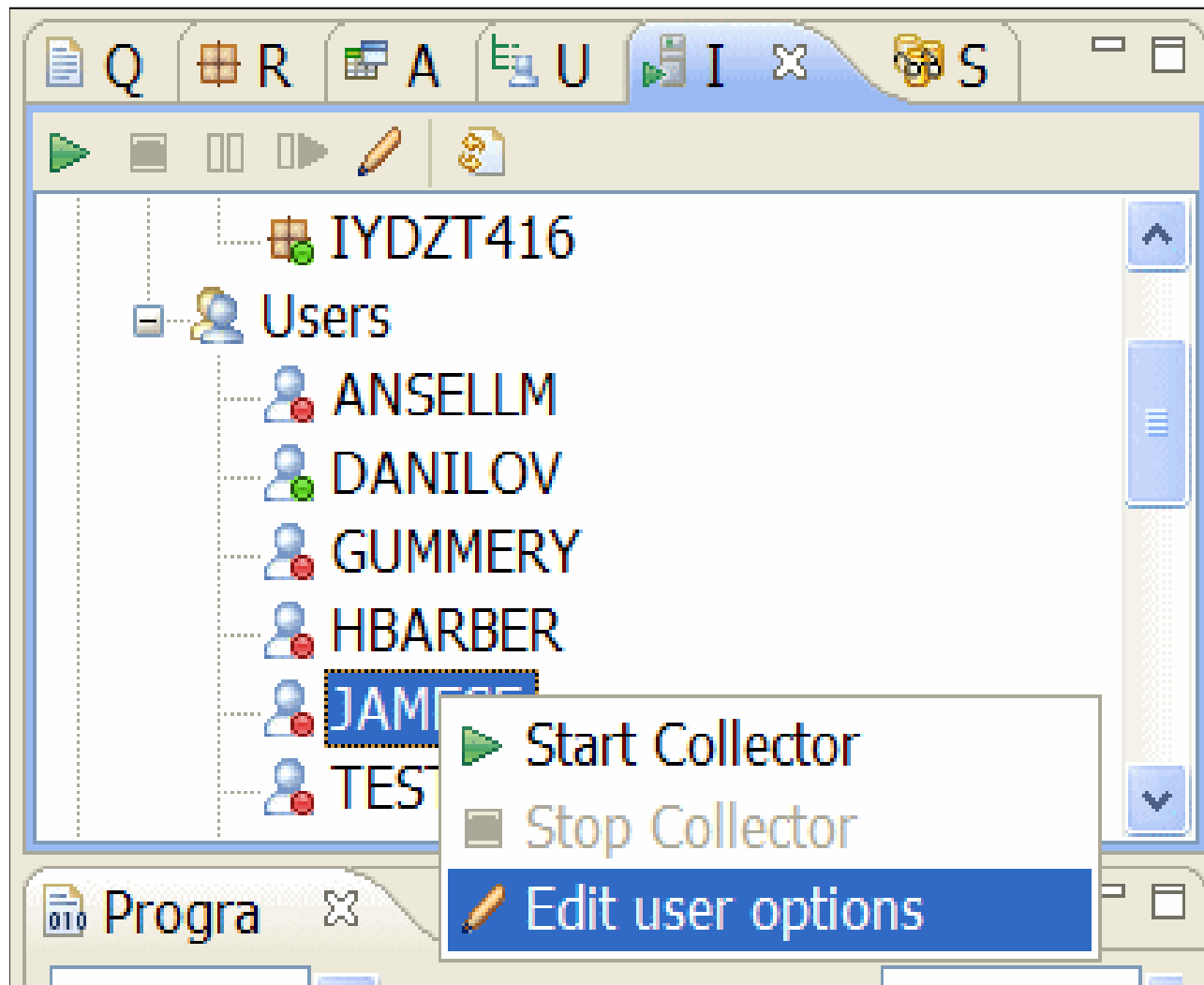
## Operate CICS IA from the Explorer



## Operate CICS IA from the Explorer



## Operate CICS IA from the Explorer



# Operate CICS IA from the Explorer

The screenshot shows the IBM CICS Explorer application window. The title bar reads "IBM CICS Explorer". The menu bar includes "Explorer", "Edit", "Project", "Search", "Window", and "Help". Below the menu bar is a toolbar with icons for "Find", "Filter by ID", "Filter by Region", and "Collection ID". The main workspace is divided into a left-hand tree view and a right-hand table view.

The left-hand tree view shows the following structure:

- z/OS
  - CICS IA
  - CICS SM

The right-hand table view displays the properties for the selected command flow "JAMESE". The table has two columns: "Property" and "Value".

Property	Value
Misc	
Command Flow Options	
Command Flow ID	
Date of last start	
Date of last stop	
User name	JAMESE
Command Flow State	STOPPED
Traced Terminal ID	*
Time of last start	
Time of last stop	
Traced User ID	JAMESE
Journal	
Journal name	CIUMTJNL
Journal copy criteria	LAST
Transaction List	
<b>Transaction 1</b>	<b>MAI*</b>
Transaction 2	
Transaction 3	
Transaction 4	
Transaction 5	
Region Applid List	
Applid 1	IYDZT416
Applid 2	
Applid 3	
Applid 4	

The status bar at the bottom of the window displays the following information:

- CNX0100I Connected user JAMESE...hursley.ibm.com on port 49100
- Fetching children of jameese
- WINMVS2D 32

# CICS Business Events Support

Resources used	By Resource	
<ul style="list-style-type: none"> <li>Program (4)</li> <li>MAPSET (1)                             <ul style="list-style-type: none"> <li>CSQ4VDM (2)</li> </ul> </li> <li>CONDITION (1)</li> <li>Map (5)</li> <li>TEXT (1)</li> <li>Temporary Storage (1)                             <ul style="list-style-type: none"> <li><b>MAIL+TE+ (3)</b></li> </ul> </li> <li>UOW (1)</li> <li>EVENT CS (2)                             <ul style="list-style-type: none"> <li>GET_MESS.                                     <ul style="list-style-type: none"> <li>EMIT</li> </ul> </li> <li>GET_MESSAGE_CAPTURE_SEND (1)                                     <ul style="list-style-type: none"> <li>EMIT</li> </ul> </li> </ul> </li> <li>EVENT (1)                             <ul style="list-style-type: none"> <li>GET_MAIL_MESSAGE (1)</li> </ul> </li> <li>EVENT BINDING (1)                             <ul style="list-style-type: none"> <li>MailEventBinding (1)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>TST4CVD2</li> </ul>	<ul style="list-style-type: none"> <li>IYDZZ428                             <ul style="list-style-type: none"> <li>MAIL                                     <ul style="list-style-type: none"> <li>TST4CVD1   <ul style="list-style-type: none"> <li><b>Link TST4CVD2</b></li> <li>Link TST4CVD3</li> <li>Link TST4CVD4</li> </ul> </li> </ul> </li> </ul> </li> </ul>

Context menu for MAIL+TE+ (3):

- Create Event ▶ DELETEDQ TS
- Used By Programs ▶ READQ TS
- Used By Transactions ▶ WRITEQ TS



## CICS Business Events Support

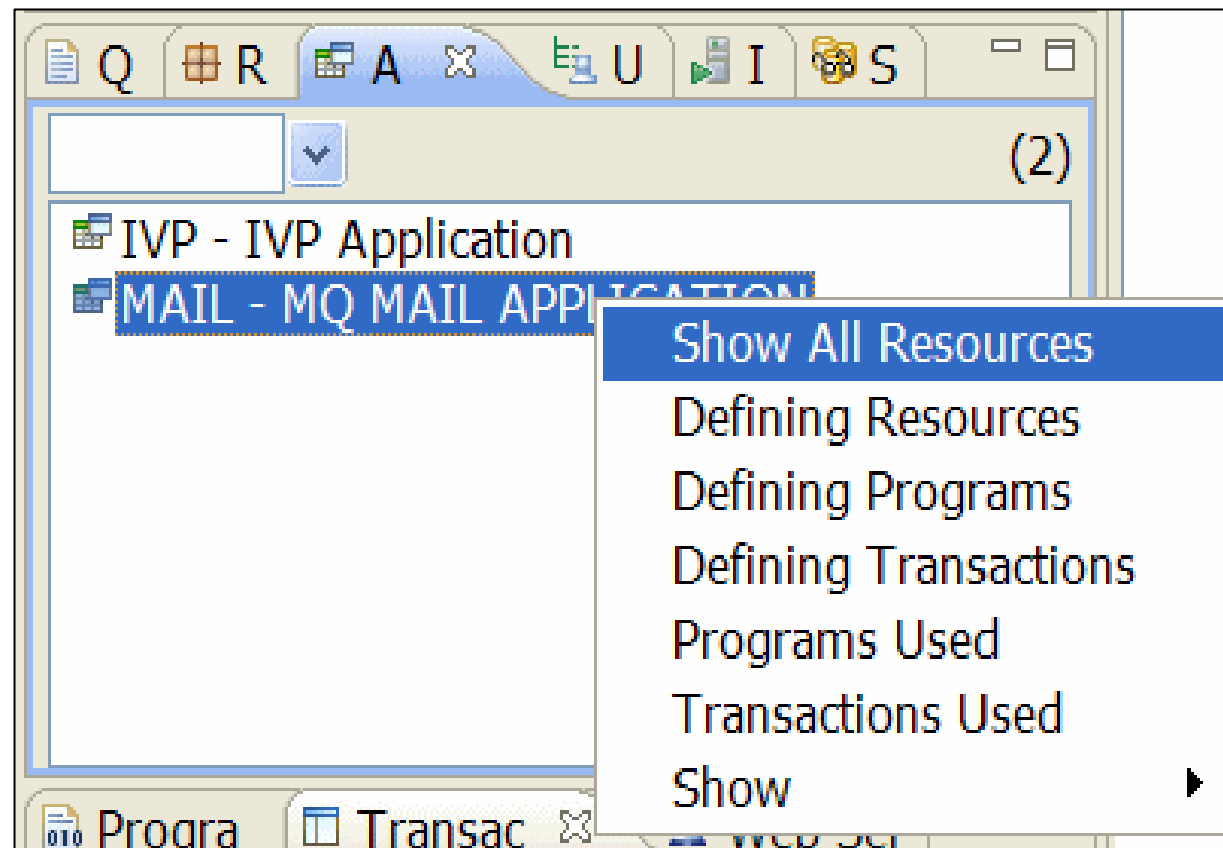
The screenshot shows the IBM Business Events console interface. The main window displays a transaction named "Transaction(MAIL) in All Regions" with 19 instances. Below this, a tree view shows resources used, including a folder "Program (5)" containing three resources: "TST4CVD1 (1)", "TST4CVD2 (1)", and "TST4CVD3 (1)". The "TST4CVD3 (1)" resource is selected, and a context menu is open over it. The menu includes options like "LINK PROGRAM", "PROGRAM INIT", "XCTL", "Create Event", "Used By Programs", "Used By Transactions", "Show Affinities By Type", "Uses Resources", and "Asset details".

Resources used	By Resource
Program (5)	TST4CVD2
+ TST4CVD1 (1)	
+ TST4CVD2 (1)	
+ TST4CVD3 (1)	



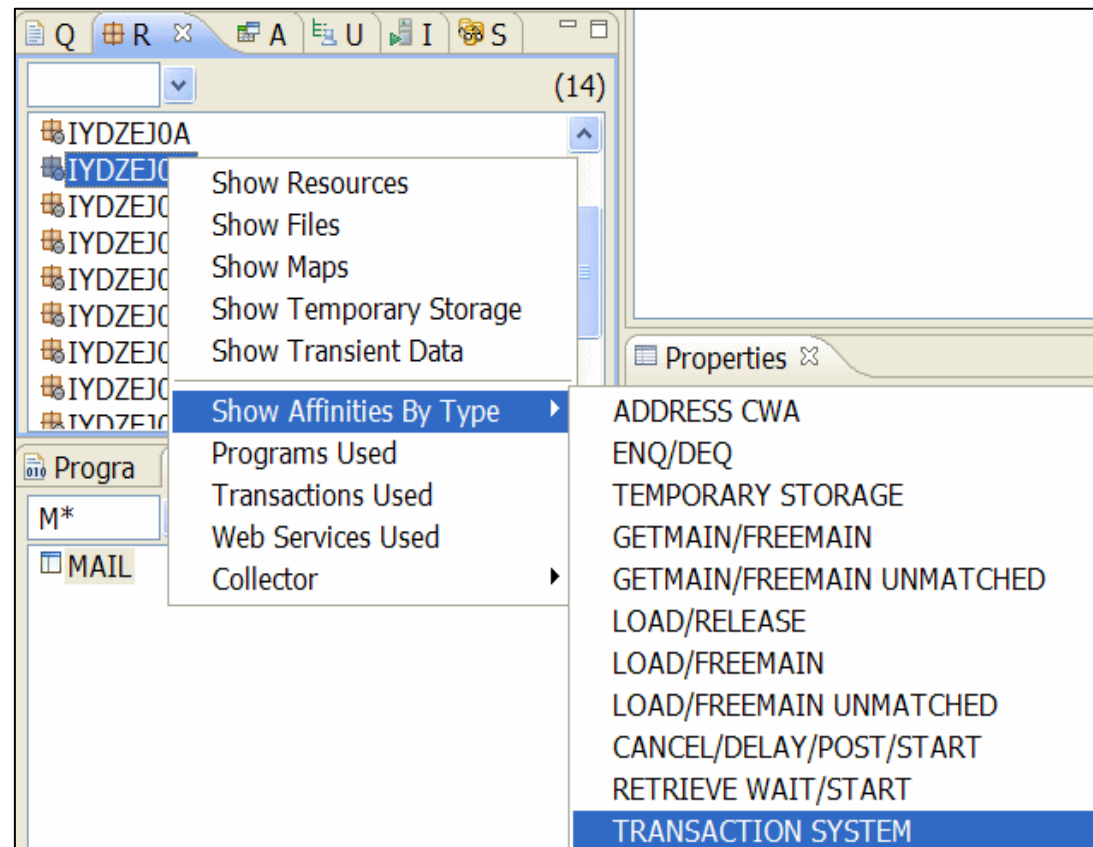
## Enhanced Business Application Analysis

New DB2 Stored Procedure CIUSPAPP enables more Application analysis



## Enhanced Affinity Analysis

### New Affinity Analysis – driven against a region or transaction



# Enhanced Affinity Analysis

Populates a new Affinity View

Affinities x

ENQ/DEQ affinities in region IYCIA329

Resource

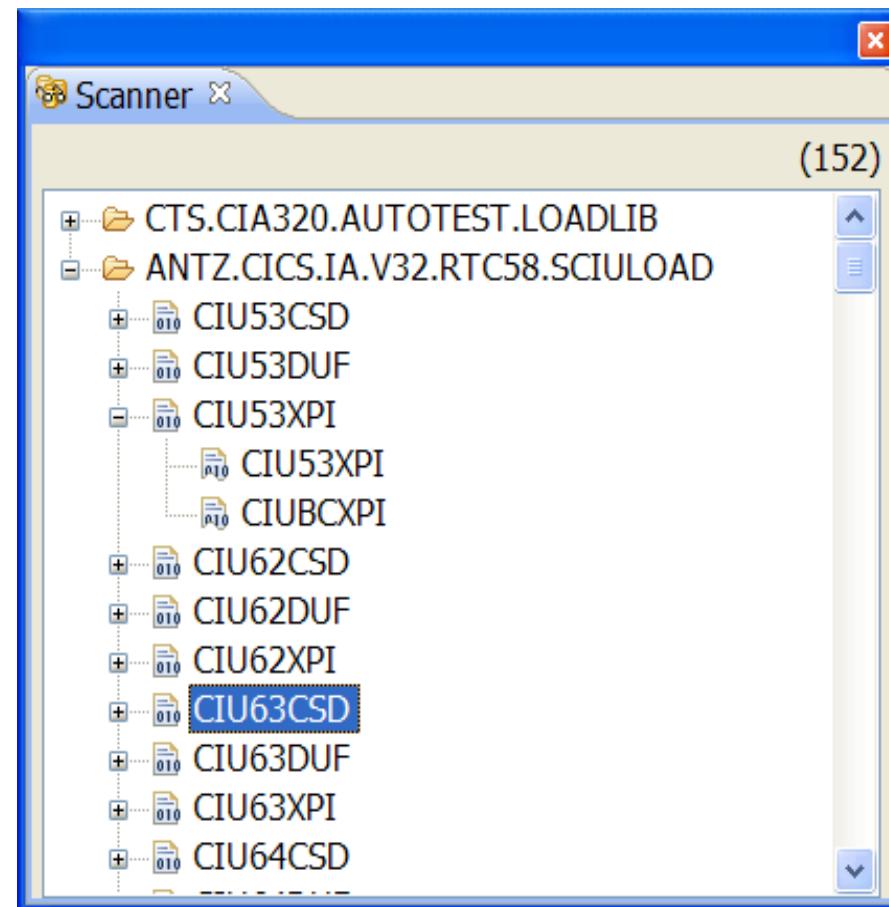
- A(1372A100)
- A(1372A110)
- A\_C\_E\_GHIJKLMNOPQRSTUVWXYZ**
- ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOF

Transaction	Program	Command
<input type="checkbox"/> AFFZ	AFFTESTZ	ENQUEUE
<input type="checkbox"/> AFFZ	AFFTESTZ	DEQUEUE



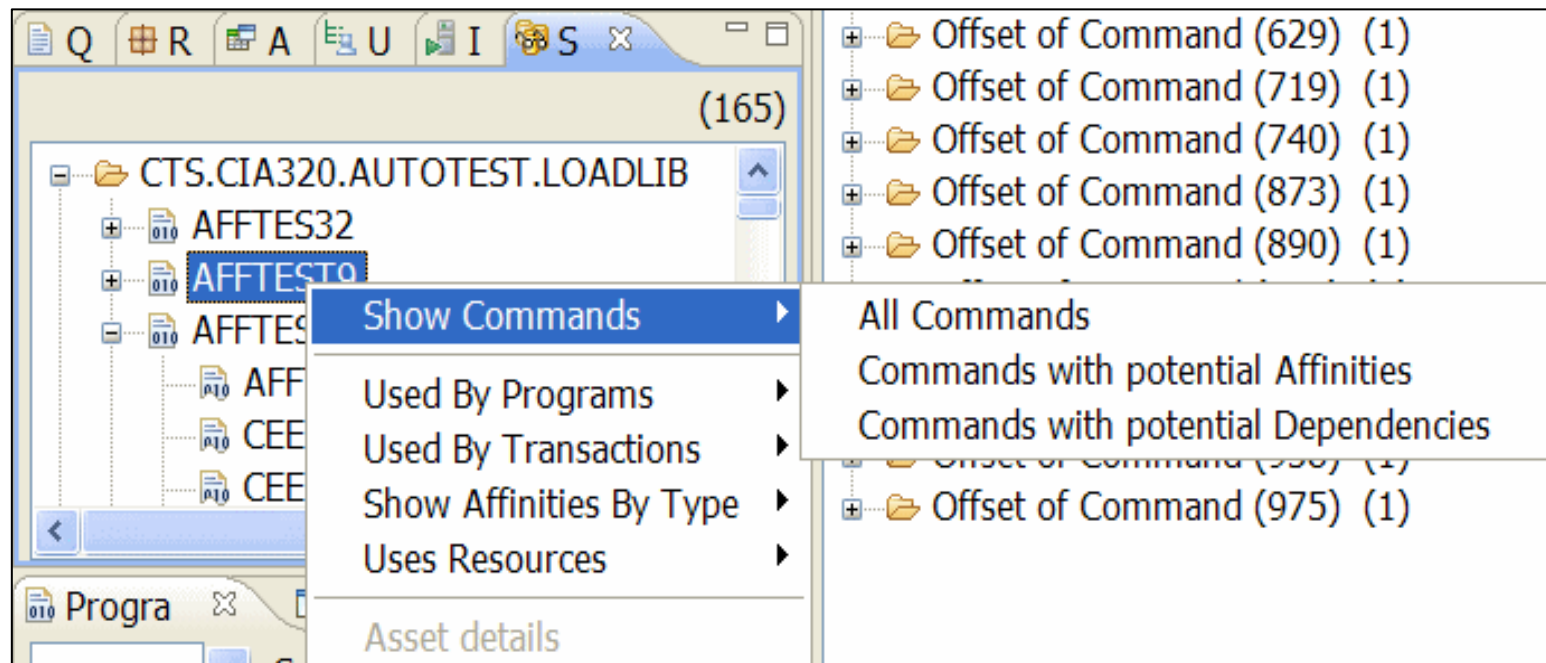
## Load Module Scanner data in the plug-in

- **New View added for the scanner data**



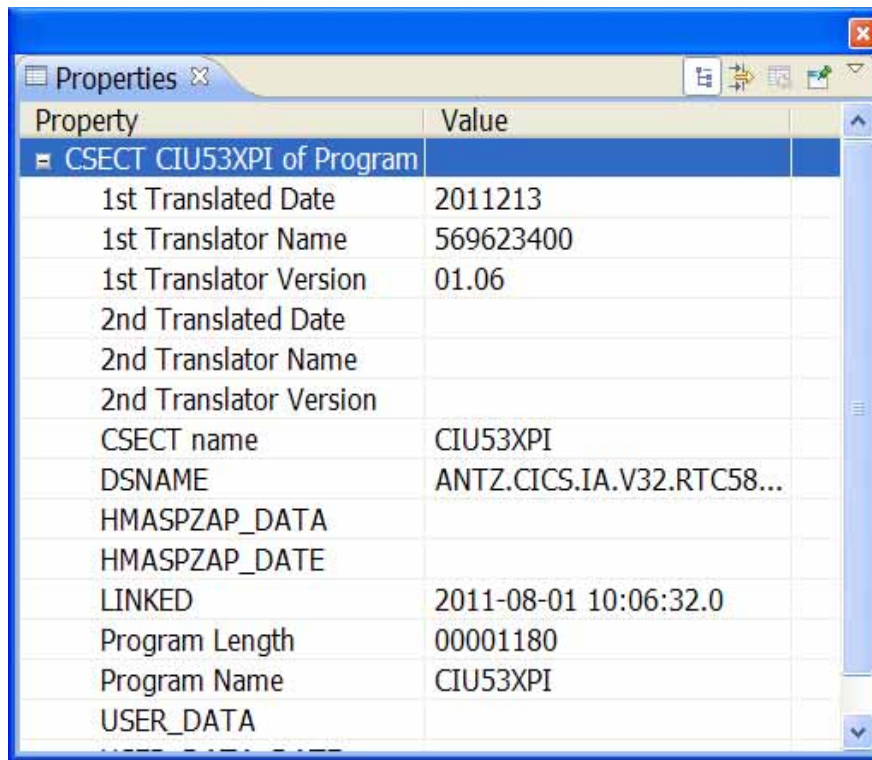
## Load Module Scanner data in the plug-in

- **Right mouse click features**

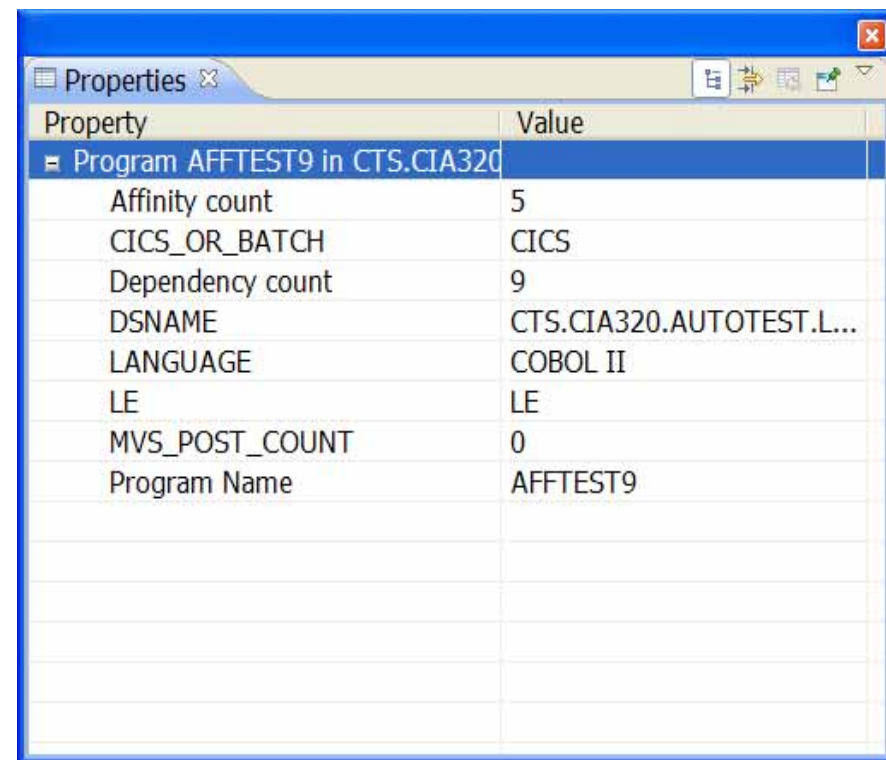


## Load Module Scanner data in the plug-in

- **Properties View populated with CSECT or Program information**



Property	Value
CSECT CIU53XPI of Program	
1st Translated Date	2011213
1st Translator Name	569623400
1st Translator Version	01.06
2nd Translated Date	
2nd Translator Name	
2nd Translator Version	
CSECT name	CIU53XPI
DSNAME	ANTZ.CICS.IA.V32.RTC58...
HMASPZAP_DATA	
HMASPZAP_DATE	
LINKED	2011-08-01 10:06:32.0
Program Length	00001180
Program Name	CIU53XPI
USER_DATA	



Property	Value
Program AFFTEST9 in CTS.CIA320	
Affinity count	5
CICS_OR_BATCH	CICS
Dependency count	9
DSNAME	CTS.CIA320.AUTOTEST.L...
LANGUAGE	COBOL II
LE	LE
MVS_POST_COUNT	0
Program Name	AFFTEST9





IBM Software Group

# CICS Performance Analyzer



# CICS PA - Visualizing the summary data

See extracts of the raw data in the Sheet view

Start date	Start time	Agent	Transaction	Task no.	Regions	...
2008-03-13	14:10:00	PDQWAF	SP13	1	327	...
2008-03-13	14:10:00	HELMEX	SPW2	1	53	...
2008-03-13	14:10:00	PDQCE6	SP23	1	5	...

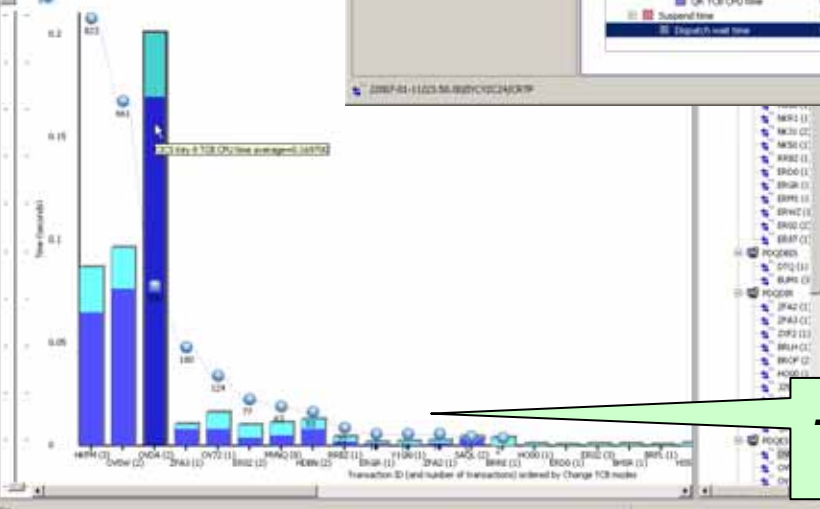
Powerful active outline view speeds selection

Transaction detail for: 2007-01-11, 23:50:00, IYCYZC24, CRTP

Response measurement table:

Response measurement	Time (avg)	Count	%Overall	Subtotal
Response time	0.002937			
User Dispatch time	0.001420	2	66%	66%
User CPU time	0.000612	2	21%	30%
CICS Key 8 TCB CPU time	0	0	-	-
38 TCB CPU time	0	0	-	-
39 TCB CPU time	0	0	-	-
40 TCB CPU time	0	0	-	-
41 TCB CPU time	0	0	-	-
42 TCB CPU time	0	0	-	-
43 TCB CPU time	0	0	-	-
44 TCB CPU time	0	0	-	-
45 TCB CPU time	0	0	-	-
46 TCB CPU time	0	0	-	-
47 TCB CPU time	0	0	-	-
48 TCB CPU time	0	0	-	-
49 TCB CPU time	0	0	-	-
50 TCB CPU time	0	0	-	-
51 TCB CPU time	0	0	-	-
52 TCB CPU time	0	0	-	-
53 TCB CPU time	0	0	-	-
54 TCB CPU time	0	0	-	-
55 TCB CPU time	0	0	-	-
56 TCB CPU time	0	0	-	-
57 TCB CPU time	0	0	-	-
58 TCB CPU time	0	0	-	-
59 TCB CPU time	0	0	-	-
60 TCB CPU time	0	0	-	-
61 TCB CPU time	0	0	-	-
62 TCB CPU time	0	0	-	-
63 TCB CPU time	0	0	-	-
64 TCB CPU time	0	0	-	-
65 TCB CPU time	0	0	-	-
66 TCB CPU time	0	0	-	-
67 TCB CPU time	0	0	-	-
68 TCB CPU time	0	0	-	-
69 TCB CPU time	0	0	-	-
70 TCB CPU time	0	0	-	-
71 TCB CPU time	0	0	-	-
72 TCB CPU time	0	0	-	-
73 TCB CPU time	0	0	-	-
74 TCB CPU time	0	0	-	-
75 TCB CPU time	0	0	-	-
76 TCB CPU time	0	0	-	-
77 TCB CPU time	0	0	-	-
78 TCB CPU time	0	0	-	-
79 TCB CPU time	0	0	-	-
80 TCB CPU time	0	0	-	-
81 TCB CPU time	0	0	-	-
82 TCB CPU time	0	0	-	-
83 TCB CPU time	0	0	-	-
84 TCB CPU time	0	0	-	-
85 TCB CPU time	0	0	-	-
86 TCB CPU time	0	0	-	-
87 TCB CPU time	0	0	-	-
88 TCB CPU time	0	0	-	-
89 TCB CPU time	0	0	-	-
90 TCB CPU time	0	0	-	-
91 TCB CPU time	0	0	-	-
92 TCB CPU time	0	0	-	-
93 TCB CPU time	0	0	-	-
94 TCB CPU time	0	0	-	-
95 TCB CPU time	0	0	-	-
96 TCB CPU time	0	0	-	-
97 TCB CPU time	0	0	-	-
98 TCB CPU time	0	0	-	-
99 TCB CPU time	0	0	-	-
100 TCB CPU time	0	0	-	-
101 TCB CPU time	0	0	-	-
102 TCB CPU time	0	0	-	-
103 TCB CPU time	0	0	-	-
104 TCB CPU time	0	0	-	-
105 TCB CPU time	0	0	-	-
106 TCB CPU time	0	0	-	-
107 TCB CPU time	0	0	-	-
108 TCB CPU time	0	0	-	-
109 TCB CPU time	0	0	-	-
110 TCB CPU time	0	0	-	-
111 TCB CPU time	0	0	-	-
112 TCB CPU time	0	0	-	-
113 TCB CPU time	0	0	-	-
114 TCB CPU time	0	0	-	-
115 TCB CPU time	0	0	-	-
116 TCB CPU time	0	0	-	-
117 TCB CPU time	0	0	-	-
118 TCB CPU time	0	0	-	-
119 TCB CPU time	0	0	-	-
120 TCB CPU time	0	0	-	-
121 TCB CPU time	0	0	-	-
122 TCB CPU time	0	0	-	-
123 TCB CPU time	0	0	-	-
124 TCB CPU time	0	0	-	-
125 TCB CPU time	0	0	-	-
126 TCB CPU time	0	0	-	-
127 TCB CPU time	0	0	-	-
128 TCB CPU time	0	0	-	-
129 TCB CPU time	0	0	-	-
130 TCB CPU time	0	0	-	-
131 TCB CPU time	0	0	-	-
132 TCB CPU time	0	0	-	-
133 TCB CPU time	0	0	-	-
134 TCB CPU time	0	0	-	-
135 TCB CPU time	0	0	-	-
136 TCB CPU time	0	0	-	-
137 TCB CPU time	0	0	-	-
138 TCB CPU time	0	0	-	-
139 TCB CPU time	0	0	-	-
140 TCB CPU time	0	0	-	-
141 TCB CPU time	0	0	-	-
142 TCB CPU time	0	0	-	-
143 TCB CPU time	0	0	-	-
144 TCB CPU time	0	0	-	-
145 TCB CPU time	0	0	-	-
146 TCB CPU time	0	0	-	-
147 TCB CPU time	0	0	-	-
148 TCB CPU time	0	0	-	-
149 TCB CPU time	0	0	-	-
150 TCB CPU time	0	0	-	-

Drill into data files using the explorer view



Flexibility in what you want to see

..or follow Analysis Scenarios like Threadsafe to highlight issues

# CICS PA - Comparison views

**Comparison between "before" and "after" situations**

Start date	Start time	Applid	Tr...	Task ter...	Respons...	Respons...	Dispatch...	User Dis...	User Dis...	User CP...	Suspend...	Suspend...	Dispatch...
2008-03-13	14:10:00...	PDQHP20	HDRN		2	1.308100	2.010900	53	1.307600	54	0.012700	0.000500	54
2008-03-13	14:10:00...	PDQWTC1	HDBN		2	1.309100	2.011800	1	0.001100	2	0.000900	1.308000	2
2008-03-13	14:10:00...	PDQHP20	HKFM		3	0.614500	0.703700	823	0.604500	824	0.087000	0.010000	824
2008-03-13	14:10:00...	PDQWTC1	HKFM		3	0.615400	0.704500	1	0.001200	2	0.000900	0.614300	2
2008-03-13	14:10:00...	PDQDIR	HC00		1	0.002300	0.002300	4	0.000900	5	0.000900	0.001300	5
2008-03-13	14:10:00...	PDQDIR	HC00		1	0.002700	0.002700	1	0.000800	2	0.000600	0.001900	2
2008-03-13	14:10:00...	HELMLOCK	HS50		1	0.038600	0.038600	6	0.001100	7	0.001100	0.037400	7
2008-03-13	14:10:00...	BEERPLUM									0.006500	5.210900	116
2008-03-13	14:10:00...	BEERPLUM									0.111600	4.942000	215
2008-03-13	14:10:00...	BEERPLUM									0.000700	5.077900	6
2008-03-13	14:10:00...	BEERPLUM									0.006200	3.203600	66
2008-03-13	14:10:00...	BEERPLUM									0.000700	3.210300	4
2008-03-13	14:10:00...	BEERPLUM									0.000600	0.267400	2
2008-03-13	14:10:00...	BEERPLUM									0.299800	0.198300	5880
2008-03-13	14:10:00...	PDQHP20	MVWQ		64	0.011200	0.016600	64	0.011200	64	0.011200	0.016600	64
2008-03-13	14:10:00...	HELMLOCK	NK31		11	0.001700	0.023400	11	0.001700	11	0.001700	0.023400	11
2008-03-13	14:10:00...	HELMLOCK	NK50		18	0.003000	0.047600	18	0.003000	18	0.003000	0.047600	18
2008-03-13	14:10:00...	HELMLOCK	NKR1		6	1.524100	1.524100	6	0.001100	7	0.001100	1.522300	7
2008-03-13	14:10:00...	PDQVARI	OV5V		2	0.422400	0.672600	666	0.422400	666	0.096600	0.012300	666
2008-03-13	14:10:00...	PDQVARI	OV72		1	0.043200	0.043200	127	0.043200	128	0.016000	0.003100	128
2008-03-13	14:10:00...	PDQVARI	OV72		2	0.316500	0.555900	304	0.306400	305	0.200800	0.010100	305
2008-03-13	14:10:00...	PDQDIR	OC		1	0.021500	0.021500	1	0.000800	2	0.000700	0.020700	2

# CICS PA - Integration with CICS IA

The screenshot displays the IBM CICS Explorer interface. The left pane shows a tree view with 'Performance history' selected. The main area shows a 'Response time' chart for transaction CRTP, with a peak around 09:40:00 on 2007-01-12. Below the chart is a 'Transaction detail' section for the specific transaction instance. The 'Overview' section includes gauges for Threads, CPU time, Response time, Storage, and File usage. The 'Threads (averages)' table shows the following data:

Thread	Time (avg)	Count	%Overall	%Relative
User CPU time	0.000672	2	100%	100%
Key 8 TCB CPU time	0	0	-	-
38 TCB CPU time	0	0	-	-
48 TCB CPU time	0	0	-	-
58 TCB CPU time	0	0	-	-
68 TCB CPU time	0	0	-	-
78 TCB CPU time	0	0	-	-
88 TCB CPU time	0	0	-	-
CICS Key 9 TCB CPU time	0	0	-	-
99 TCB CPU time	0	0	-	-
L9 TCB CPU time	0	0	-	-
X9 TCB CPU time	0	0	-	-
Miscellaneous TCB CPU time	0	0	-	-
R0 TCB CPU time	0	0	-	-
QR TCB CPU time	0.000672	2	100%	100%

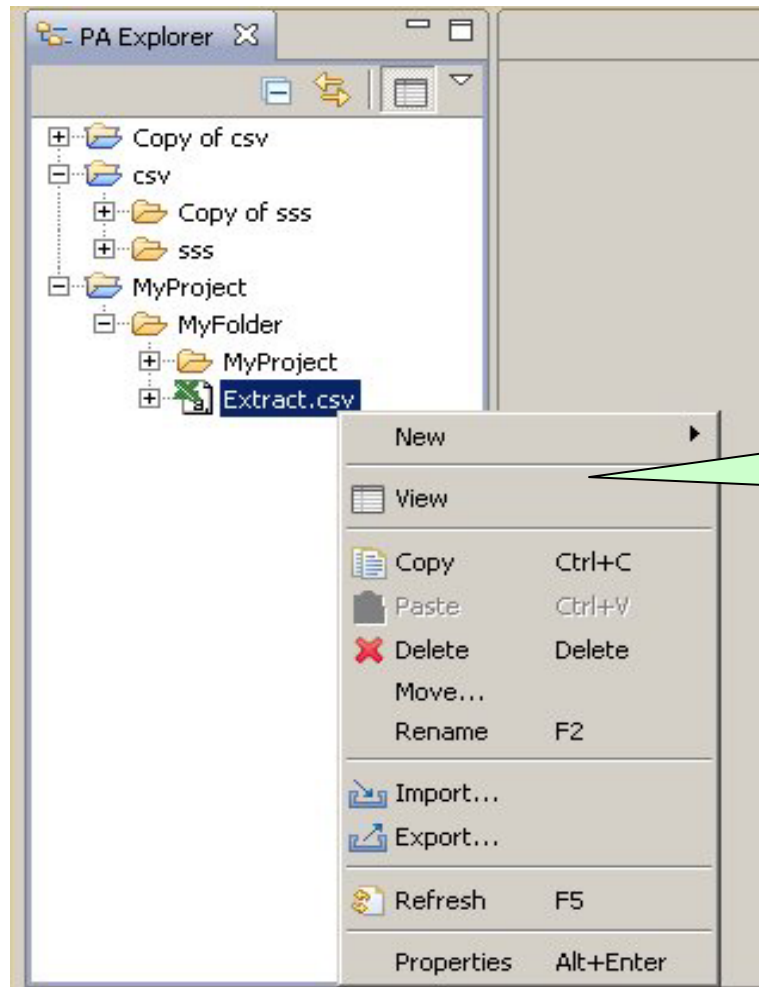
# CICS PA - Integration with SM perspective

The screenshot displays the IBM CICS Explorer interface. On the left, a tree view shows the hierarchy of CICS regions under the server IYCYZC23, including TOOLPLX1 (3/4) and TSTPLEX (11/12). The central pane shows a list of CICS regions with columns for Region, Name, Status, and Use C. The region CICSC231 CRTP is selected, and a context menu is open over it, with 'Performance history' and 'CPU time' options highlighted. On the right, a 'CPU time' chart shows a bar graph of time in seconds over a timeline from 2007-01-11 to 2007-01-12. Below the chart, the 'Transaction detail for: CRTP' is shown, including start date, time, and application. The 'Overview' section displays metrics for Threadsafe, CPU time, Response time, Storage, and File usage.

Region	Name	Status	Use C
CICSC231	CPMI	✓ ENABLED	0
CICSC231	CP55	✓ ENABLED	0
CICSC231	CQPI	✓ ENABLED	0
CICSC231	CQPO	✓ ENABLED	0
CICSC231	CQRY	✓ ENABLED	0
CICSC231	CREA	✓ ENABLED	0
CICSC231	CREC	✓ ENABLED	0
CICSC231	CRMD	✓ ENABLED	0
CICSC231	CRMF	✓ ENABLED	0
CICSC231	CRSQ	✓ ENABLED	1
CICSC231	CRSR	✓ ENABLED	0
CICSC231	CRSY	✓ ENABLED	0
CICSC231	CRTE	✓ ENABLED	0
CICSC231	CRTP	✓ ENABLED	250
CICSC231	CSKP	✓ ENABLED	0
CICSC231	CSMI	✓ ENABLED	0
CICSC231	CSM	✓ ENABLED	0



## CICS PA - Eclipse Project Integration

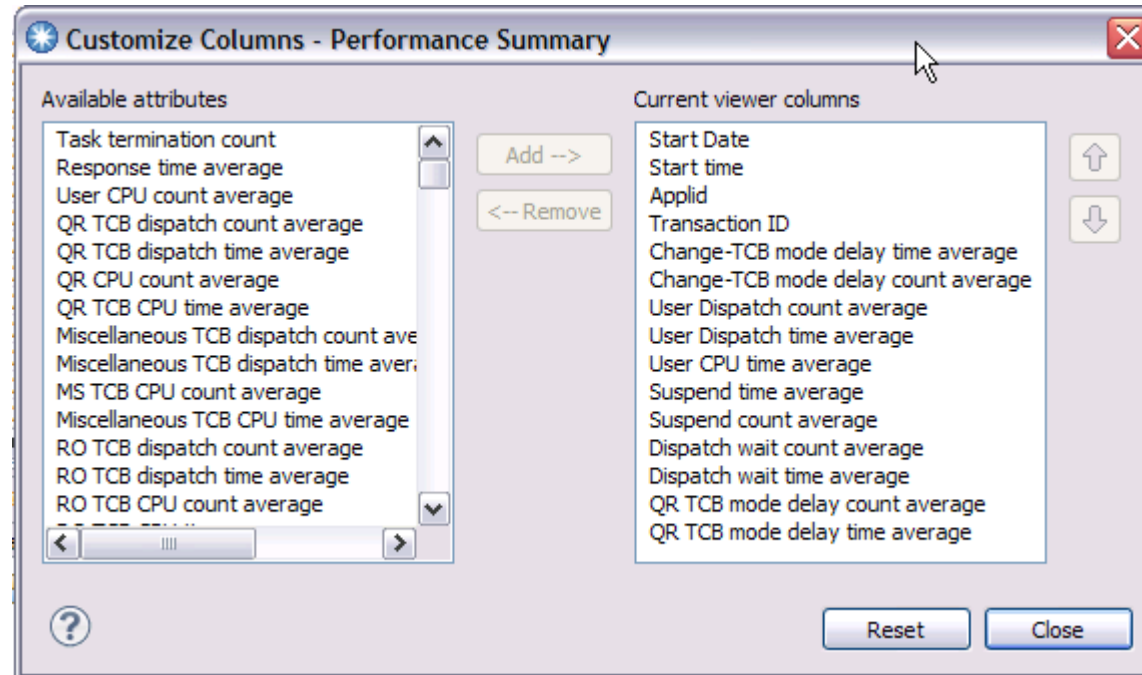
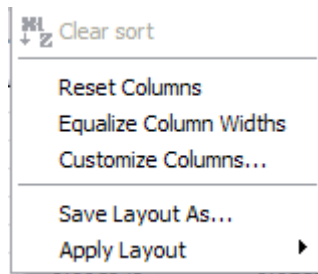


**Conventional Eclipse  
style integration:  
Projects, folders, files,  
add-in editors, etc**



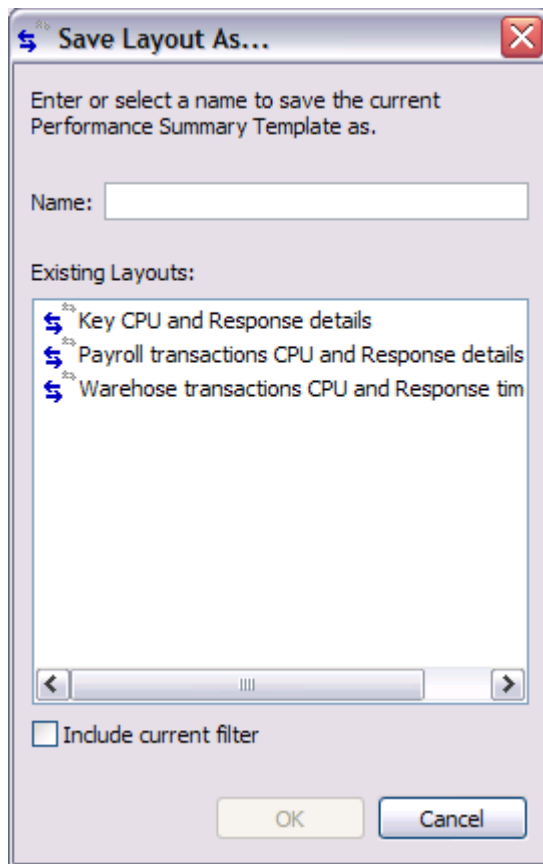


# Customisation options on Sheet view - columns

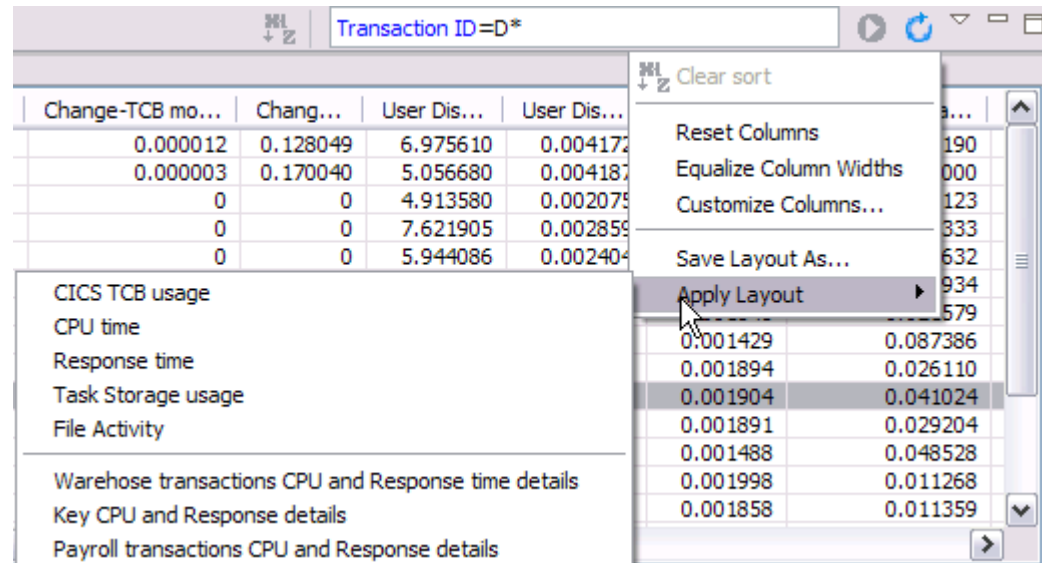


# Customisation options on Sheet view - layouts

## Save Layout



## Apply saved or supplied layout



## Customisation options on Sheet view – data filters

Data filters with content assist – CTRL + SPACE to invoke list of columns

The screenshot shows a performance summary window with a table of data and a dropdown menu for column selection. The table has columns: Start Date, Start time, Applid, Transact..., Change-TCB mo..., and Chang... The dropdown menu lists various performance metrics such as Start Date, Start time, Applid, Transaction ID, User Dispatch count average, User Dispatch time average, User CPU time average, Suspend count average, Suspend time average, Dispatch wait count average, and Dispatch wait time average.

Start Date	Start time	Applid	Transact...	Change-TCB mo...	Chang...				
2010-12-10	12.20.00	IYDZEJ02	DE1	0.000012	0.128046				
2010-12-10	12.20.00	IYDZEJ02	DE20	0.000003	0.170046				
2010-12-10	12.20.00	IYDZEJ02	DE21	0					
2010-12-10	12.25.00	IYDZEJ02	DE1	0					
2010-12-10	12.25.00	IYDZEJ02	DE20	0					
2010-12-10	12.25.00	IYDZEJ02	DE21	0					
2010-12-10	12.25.00	IYDZEJ02	DE22	0					
2010-12-10	12.30.00	IYDZEJ02	DE1	0					
2010-12-10	12.30.00	IYDZEJ02	DE20	0					
2010-12-10	12.30.00	IYDZEJ02	DE21	0	0	6.990050	0.002951	0.001904	0.041024
2010-12-10	12.30.00	IYDZEJ02	DE22	0	0	6.768041	0.002523	0.001891	0.029204
2010-12-10	13.45.00	IYDZEJ02	DE1	0.000008	0.046103	7.387486	0.003033	0.001488	0.048528
2010-12-10	13.45.00	IYDZEJ02	DE20	0.000030	0.080614	5.602687	0.003722	0.001998	0.011268
2010-12-10	13.45.00	IYDZEJ02	DE21	0	0	5.391586	0.002280	0.001858	0.011359

# CICS PA – Supplied and customizable views

**Standard - 160 columns**

Performance Summary (161/161 rows) Start Date: 2011-03-28.

Start ...	Start ti...	Applid	Transa...	Task t...	Respo...	User D...	User D...	User C...	Suspe...	Suspe...	Dispat...	Dispat...	Chang...	Cha	
2011-0...	13.50.00	IYCUZ...	CESF	1	0.0043...	3	0.00...	3	0.0018...	3	0.0000...	2	0.0000...	2	0.00...
2011-0...	13.50.00	IYCUZ...	CFQR	1	1,804....	3	0.00...	3	0.0000...	3	1,804....	2	0.0001...	0	0.00...
2011-0...	13.50.00	IYCUZ...	CFQS	1	1,804....	2	0.0030...	10	0.0016...	10	1,804....	9	0.0013...	2	0.00...
2011-0...	13.50.00	IYCUZ...	CISE	1	1,802....	4	0.0045...	4	0.0007...	4	1,802....	3	0.0048...	2	0.00...
2011-0...	13.50.00	IYCUZ...	CISR	1	1,802....	4	0.0047...	4	0.0008...	4	1,802....	3	0.0185...	2	0.00...
2011-0...	13.50.00	IYCUZ...	CQRY	1	0.0113...	2	0.0002...	2	0.0001...	2	0.0110...	1	0.0000...	0	0.00...
2011-0...	13.50.00	IYCUZ...	CSGM	1	0.0001...	1	0.0001...	1	0.0000...	1	0.0000...	0	0.0000...	0	0.00...
2011-0...	13.50.00	IYCUZ...	CSHC	1	1,799....	35	0.0070...	35	0.0029...	35	1,799....	34	0.0345...	4	0.00...
2011-0...	13.50.00	IYCUZ...	CSNC	1	1,800....	4	0.0125...	4	0.0013...	4	1,800....	4	0.0013...	4	0.00...
2011-0...	13.50.00	IYCUZ...	CSNE	1	1,793....	591	0.1060...	591	0.0875...	591	1,793....	591	0.0875...	591	0.0875...

2011-0...	14.10.00	IYCUZ...	GSXM	0.049309	0.156083	17.212719	0.0679...	17.212...	16.212...	17.212...	16.212...	17.212...	16.212...	17.212...	456
2011-0...	14.10.00	IYCUZ...	GSBS	0.049157	0.158574	17.960334	0.0674...	17.960...	16.960...	17.960...	16.960...	17.960...	16.960...	17.960...	479
2011-0...	14.10.00	IYCUZ...	LSXM	0.048961	0.208714	25.033222	0.071...	25.033...	24.033...	25.033...	24.033...	25.033...	24.033...	25.033...	301
2011-0...	14.10.00	IYCUZ...	HSXM	0.048748	0.202171	23.774038	0.0698...	23.774...	22.774...	23.774...	22.774...	23.774...	22.774...	23.774...	416
2011-0...	14.15.00	IYCUZ...	MSXM	0.048742	1.077336	209.104072	0.0755...	209.10...	208.10...	209.10...	208.10...	209.10...	208.10...	209.10...	884
2011-0...	14.15.00	IYCUZ...	NSXM	0.048731	1.278395	246.939010	0.0751...	246.93...	245.93...	246.93...	245.93...	246.93...	245.93...	246.93...	869
2011-0...	14.15.00	IYCUZ...	ISXM	0.048697	1.220130	239.455224	0.0755...	239.45...	238.45...	239.45...	238.45...	239.45...	238.45...	239.45...	938
2011-0...	14.20.00	IYCUZ...	KSXM	0.048677	1.206948	235.833333	0.0572...	235.83...	216.01...	235.83...	216.01...	235.83...	216.01...	235.83...	829
2011-0...	14.10.00	IYCUZ...	KSXM	0.048661	0.091395	9.335294	0.0643...	9.335...	9.335...	9.335...	9.335...	9.335...	9.335...	9.335...	829
2011-0...	14.15.00	IYCUZ...	OSXM	0.048593	1.108401	216.010856	0.0755...	216.01...	216.01...	216.01...	216.01...	216.01...	216.01...	216.01...	829

**CPU - 13 columns**

**Custom with filter - 8 columns**

Performance Summary (161/161 rows) Performance Summary (16/16 rows) Transaction ID = G\*

Start ...	Start ti...	Applid	Transa...	User CPU ti...	Respons...	User C...	Task te...
2011-0...	14.15.00	IYCUZ...	GHE2	0.000688	0.996979	209.79...	974
2011-0...	14.15.00	IYCUZ...	GSBS	0.047301	1.088540	210.44...	971
2011-0...	14.15.00	IYCUZ...	GTS1	0.004483	1.061744	280.61...	970
2011-0...	14.15.00	IYCUZ...	GSMT	0.003278	1.145060	234.77...	964
2011-0...	14.15.00	IYCUZ...	GSXM	0.048522	1.194520	232.21...	958
2011-0...	14.10.00	IYCUZ...	GHE2	0.000636	0.106942	21.616...	485
2011-0...	14.10.00	IYCUZ...	GSBS	0.049157	0.158574	17.960...	479
2011-0...	14.10.00	IYCUZ...	GTS1	0.004738	0.108555	82.437...	471

# Improved navigation to key reports and alerts

The screenshot displays the IBM CICS Explorer BETA interface. The main window shows a 'Performance Summary' table with columns for Start Date, Start time, Applid, Transact..., Change-TCB mo..., Chang..., User Dis..., User Dis..., User CP..., and Suspend time a... The table lists several transactions for Applid IYDZEJ02. A context menu is open over the row for Transaction ID=DE21, showing options like 'Show View' and 'Detail breakdown'. Below the table, the 'Alerts' section is expanded to show a detailed view for the transaction 'Start Date=2010-12-10, Start time=12.20.00, Applid=IYDZEJ02, Transaction ID=DE21'. This view includes a 'Transaction response time (average)' section with a bar chart showing 'Average Response time 0.007198 seconds' and a legend for 'Average Suspend time', 'Average Dispatch wait time', 'Average User Dispatch time', and 'Average User CPU wait time'. Below this is a 'Performance averages at a glance' section with six circular gauges for 'CICS Response time', 'Suspend time detail', 'CPU time', 'CICS TCB usage', 'Task Storage usage', and 'File Request activity'. At the bottom, a summary line states: '81 transaction(s): 0 TCB mode switches (average). 0.007198 seconds average response time per transaction.'



# Improved navigation to key reports and alerts

The screenshot displays the IBM CICS Explorer BETA interface. The main window shows a 'Performance Summary' for Applid IYDZEJ02 and Resource DE20. Below this, an 'Alerts' section highlights a specific transaction with a response time chart. A context menu is open over the 'Performance Summary' tree, listing options like 'CICS Response time', 'CPU time', 'Task Storage usage', and 'File Request activity'. The bottom of the window shows a Windows taskbar with the system clock at 14:00 on 19/04/2012.

Start Date	Start time	Applid	Transact...	Change-TCB mo...	Chang...	User Dis...	User Dis...	User CP...	Suspend time a...	Sus
2010-12-10	12.20.00	IYDZEJ02	DE20	0.000003	0.170040	5.056680	0.004187	0.002053	0.005000	5
2010-12-10	12.25.00	IYDZEJ02	DE20	0	0	5.944086	0.002404	0.001845	0.023632	5
2010-12-10	12.30.00	IYDZEJ02	DE20	0	0	6.986900	0.002513	0.001894	0.026110	6
2010-12-10	13.45.00	IYDZEJ02	DE20	0.000030	0.080614	5.602687	0.003722	0.001998	0.011268	5
2010-12-10	13.50.00	IYDZEJ02	DE20	0	0	5.672941	0.002494	0.001863	0.166452	5

**Alerts**  
 Start Date=2010-12-10, Start time=12.20.00, Applid=IYDZEJ02, Transaction ID=DE21  
 Start Date=2010-12-10, Start time=12.20.00, Applid=IYDZEJ02, Transaction ID=DE21

**Transaction response time (average)**  
 Average Response time 0.007198 seconds

**Averages at a glance**  
 Suspend time detail, CPU time, CICS TCB usage, Task Storage usage, File Request activity

81 transaction(s): 0 TCB mode switches (average). 0.007198 seconds average response time per transaction.



# Improved navigation to key reports and alerts

The screenshot displays the IBM CICS Explorer BETA interface. The main window shows a 'Performance Summary' for a specific transaction (DE21) on 2010-12-10. It includes a horizontal bar chart for 'Transaction response time (average)' with a value of 0.007198 seconds, and six circular gauges for various performance metrics. Below this, an 'Alerts' section contains a table of critical alerts.

Alert description	Start Date	Start time	Applid	MVS ID	Resource ...	Resource ...	Actua
Maximum active transactions in class reached	2011-10-25	13.30.14	PT83CICS	VIPA	Tclass Name	CSGTCL16	2980
Maximum active transactions in class reached	2011-10-25	13.30.14	PT83CICS	VIPA	Tclass Name	DFHTCL01	114
Maximum active transactions in class reached	2011-10-25	14.30.11	PT83CICS	VIPA	Tclass Name	CSGTCL16	1323
Enqueues waited in ENQ pool - local	2011-10-25	13.30.33	PR87CICS	VIPA	ENQ Pool ID	EXECSTRN	188
Enqueues waited in ENQ pool - local	2011-10-25	13.30.33	PR87CICS	VIPA	ENQ Pool ID	FCFLRECD	60
Enqueues waited in ENQ pool - local	2011-10-25	13.30.33	PR87CICS	VIPA	ENQ Pool ID	FCNSPFCO	85

# Suspend time details

IBM CICS Explorer BETA - C:/cicsexp1110incurr

File Edit Project Search Window Help

Alerts Start Date=2010-12-10, Start time=12.25.00, Applid=IYDZEJ02, Transaction ID=DE21

Start Date=2010-12-10, Start time=12.25.00, Applid=IYDZEJ02, Transaction ID=DE21

Performance averages at a glance

CICS Response time Suspend time detail CPU time CICS TCB usage Task Storage usage File Request activity

Suspend time detail (averages)  
487 transaction(s): 0.023934 average suspend time per transaction.

Suspend time component	Time (avg)	Count (avg)	%Suspend ...	%Relative
Suspend time	0.023934	5	-	-
I/O wait time	0.007912		33%	33%
Transient data I/O wait time	0.001666	1	7%	21%
Journal I/O wait time	0.003085	0	13%	39%
File wait time	0.003162	2	13%	40%
Other wait time	0.008576		36%	36%
First dispatch delay time	0.008533	1	36%	100%
Local enqueue delay time	0.000043	0	-	-
Uncaptured wait time	0.007446		31%	31%

Restrict tree nodes to those applicable to visible chart.  
 Exclude zero or indeterminate values in tree

IZE0100I Connected user STANN....demopkg.ibm.com on port 4462

DemoMVS - CICS PA

12:22 Thursday 19/04/2012



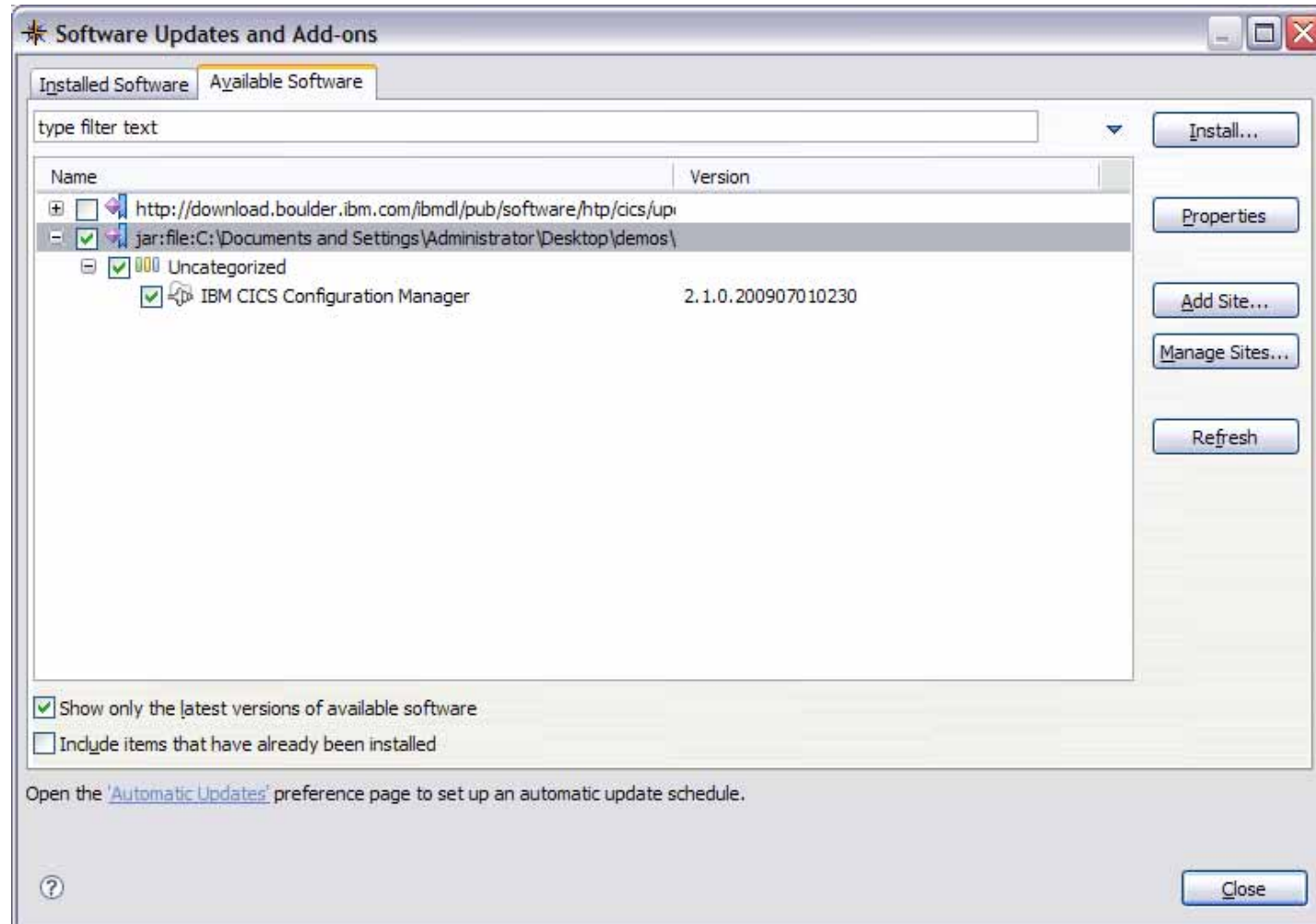
IBM Software Group

# CICS Configuration Manager



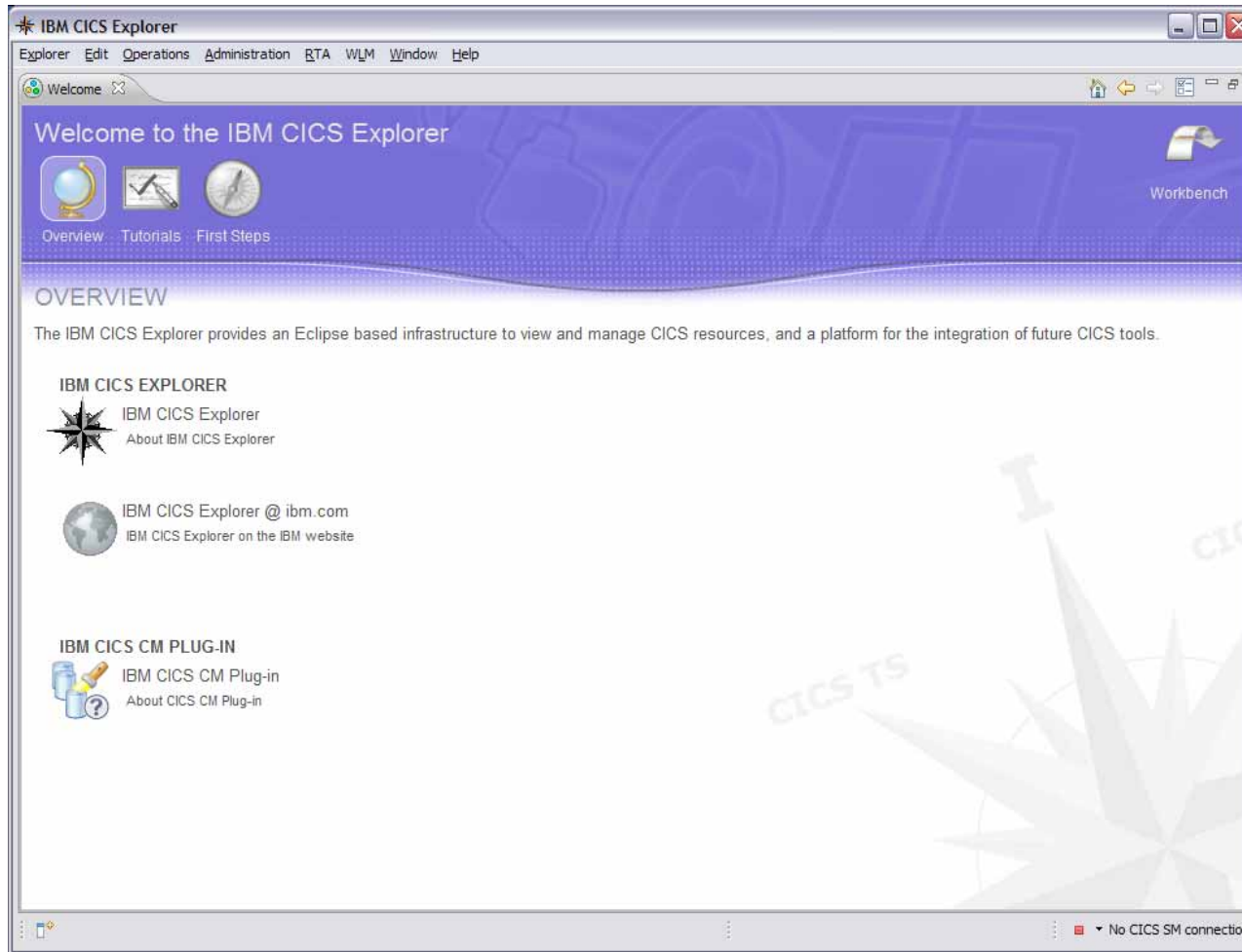
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# Installation



CICS CM Explorer plug-in installs through the update site mechanism in the CICS Explorer

# Welcome Page



CICS CM  
Contributes to  
the CICS  
Explorer  
Welcome Page

Links to CM  
tutorials in the  
embedded help



## Defining a Connection

**Connections**

**Connection**

Type: Configuration Manager

Name: CM 2.1 Connection

**Location**

Host name: WINMVS2E.HURSLEY.IBM.COM

Port number: 8990

**Authentication**

User ID: KAT

Password: ●●●

⚠ Saved passwords are stored on your computer in a file that is difficult, but not impossible, for an intruder to read.

**CICS Connection**

Name	Type

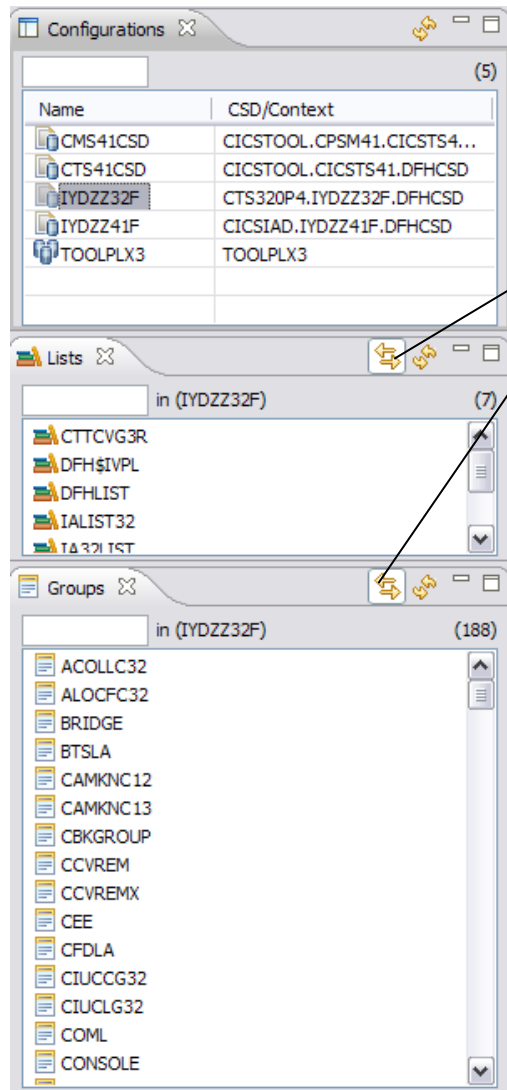
Buttons: New, Connect, Delete, Restore Defaults, Apply, OK, Cancel

Use the Connections Preference page to define a connection of type “Configuration Manager”





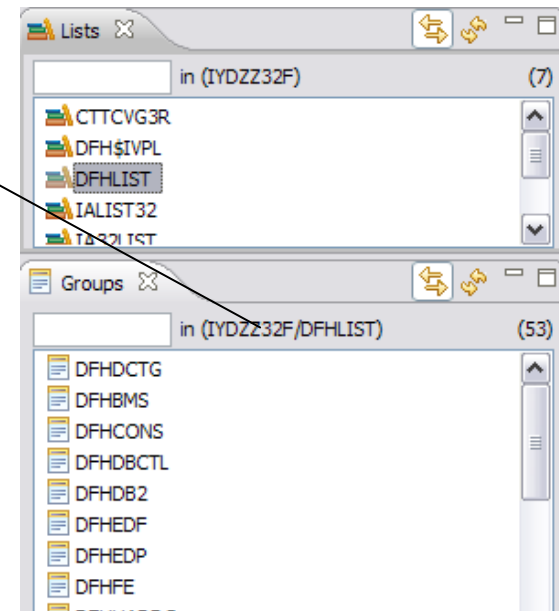
# CM - Configurations, Lists, Groups



Views display configurations, lists and groups

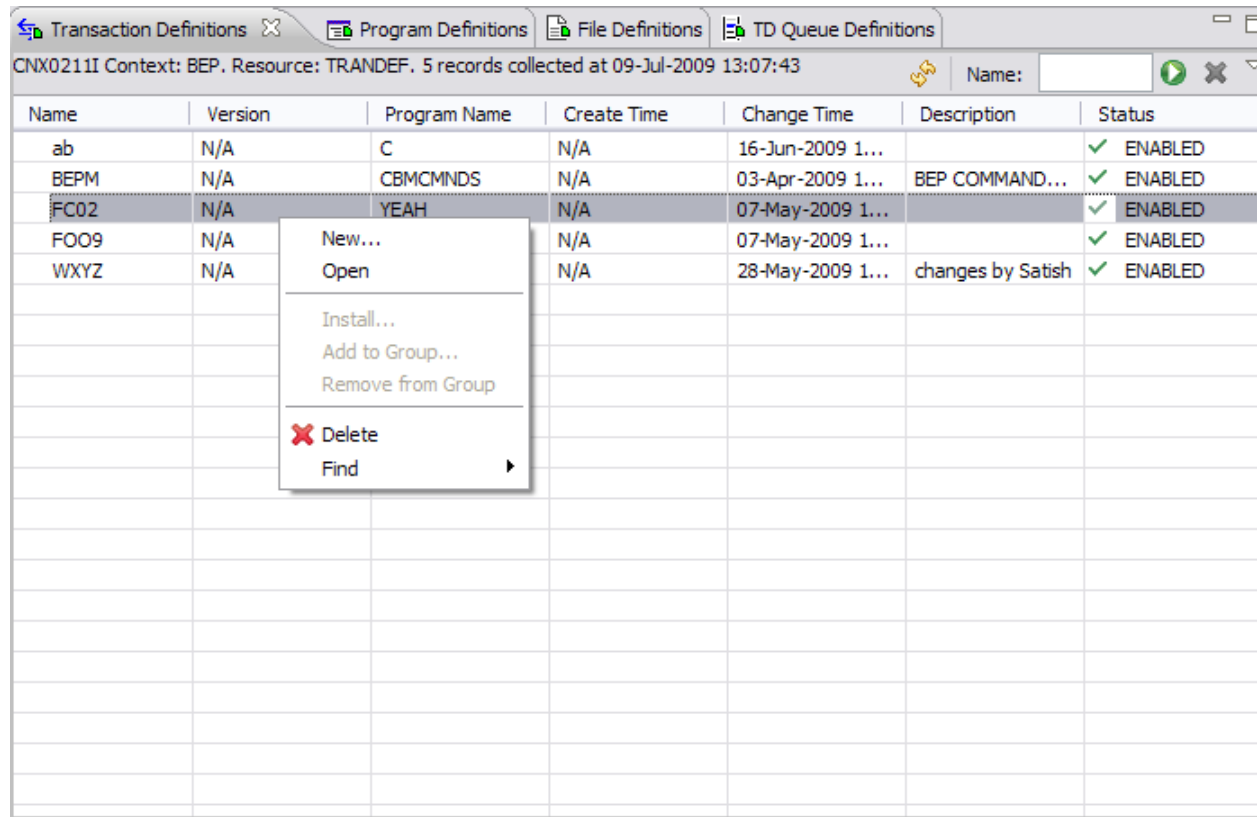
Linked to selection – the lists and groups are displayed for the currently selected configuration. Can be toggled on and off.

Groups can also be displayed for the currently selected list





## CM - Creating, editing and deleting a resource definition



Name	Version	Program Name	Create Time	Change Time	Description	Status
ab	N/A	C	N/A	16-Jun-2009 1...		✓ ENABLED
BEPM	N/A	CBMCMNDS	N/A	03-Apr-2009 1...	BEP COMMAND...	✓ ENABLED
FC02	N/A	YEAH	N/A	07-May-2009 1...		✓ ENABLED
FOO9	N/A		N/A	07-May-2009 1...		✓ ENABLED
WXYZ	N/A		N/A	28-May-2009 1...	changes by Satish	✓ ENABLED

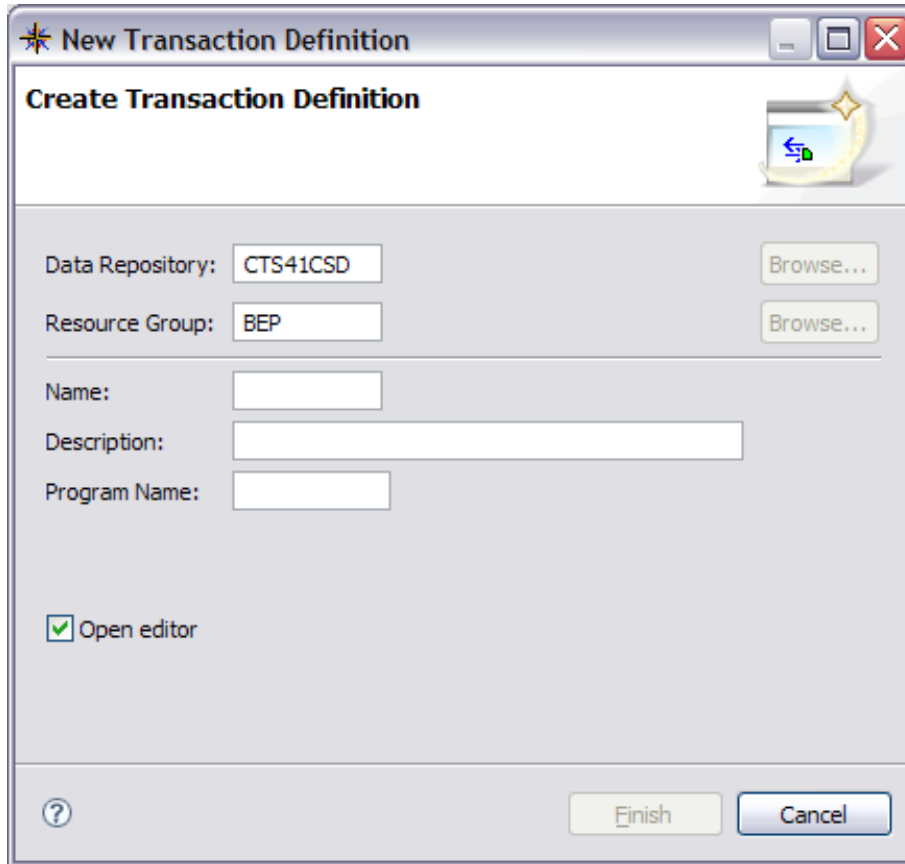
Can open a creation wizard from different paths.

Within a definitional view select the “New...” menu.

Select a group and select an option from the “New...” menu.



## CM - Creating, editing and deleting a resource definition



**New Transaction Definition**

**Create Transaction Definition**

Data Repository: CTS41CSD

Resource Group: BEP

Name:

Description:

Program Name:

Open editor

Different resource types have slightly different creation wizards.

Only the basic attributes need to be entered at this point. Others are defaulted.



## CM - Creating, editing and deleting a resource definition

The screenshot shows a window titled "Transaction Definition (DEMO)" with a tab labeled "Overview". The window contains several sections for configuring a transaction:

- Basic:** Name: DEMO, Description: (empty), Version: (empty), Created: (empty),  Enabled, Changed: 09-Jul-2009 13:15:05
- Details:** Initial Program: FOO, Profile: DFHCICST, Task Work Area Size: 0
- Storage:**  Clear task-lifetime storage on release to protect sensitive data,  Task life-time storage can be located above 16MB Line,  Isolate user-key task-lifetime storage from other tasks' user-key programs,  Obtain task storage in CICS-key
- User Data:** 1: (empty), 2: (empty), 3: (empty)

At the bottom of the window, there are tabs for Overview, Remote, Termination, Runtime, Alias, Recovery, and Attributes. The Overview tab is currently selected.

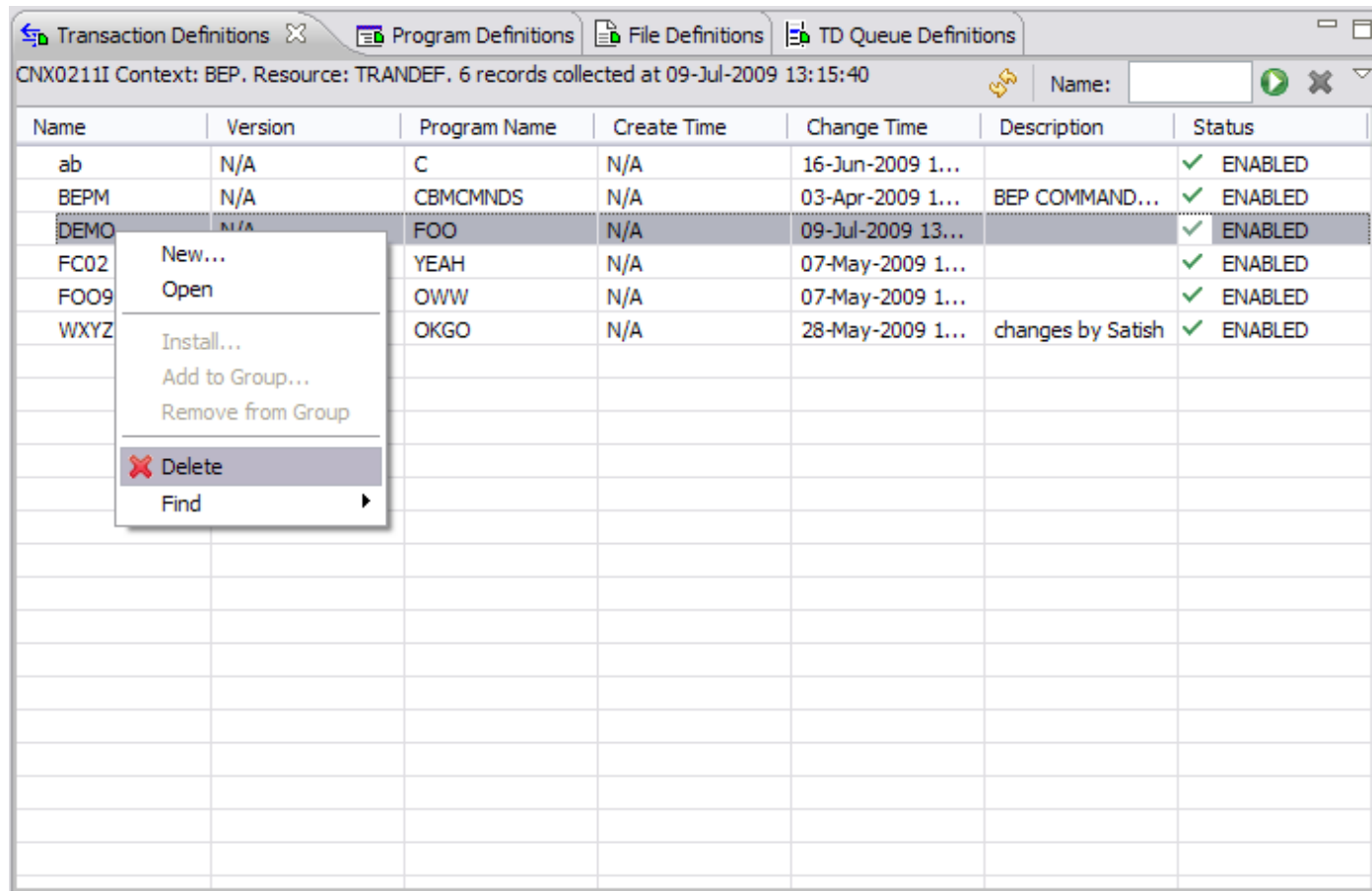
Once create completes the resource is opened in an editor, where further changes can be made.

The resource has been created at this point.

These editors are the same as those used for the CICS Explorer, they inherit the validation and embedded help framework.



## CM - Creating, editing and deleting a resource definition



Transaction Definitions | Program Definitions | File Definitions | TD Queue Definitions

CNX0211I Context: BEP. Resource: TRANDEF. 6 records collected at 09-Jul-2009 13:15:40

Name	Version	Program Name	Create Time	Change Time	Description	Status
ab	N/A	C	N/A	16-Jun-2009 1...		✓ ENABLED
BEPM	N/A	CBMCMNDS	N/A	03-Apr-2009 1...	BEP COMMAND...	✓ ENABLED
DEMO	N/A	FOO	N/A	09-Jul-2009 13...		✓ ENABLED
FC02		YEAH	N/A	07-May-2009 1...		✓ ENABLED
FO09		OWW	N/A	07-May-2009 1...		✓ ENABLED
WXYZ		OKGO	N/A	28-May-2009 1...	changes by Satish	✓ ENABLED

Context Menu:

- New...
- Open
- Install...
- Add to Group...
- Remove from Group
- Delete**
- Find

To delete a resource select “Delete” from the context menu.



## CM - History

Displays change history for a Configuration, Group or Definition, by selection.

History

Resource History for BEP from 2009/04/09 13:07:41 to latest entry

Revision Time	Resource Name/After	Resource Type/Before	Group	User Name	Command	Change P...	Scheme
2009/07/09 13:43:41	FOO9	TRANDEF	BEP	CICSUSER	UPDATE		
2009/07/09 13:43:20	ab	TRANDEF	BEP	CICSUSER	UPDATE		
2009/07/09 13:18:35	DEMO	TRANDEF	BEP	CICSUSER	DELETE		
2009/07/09 13:15:28	DEMO	TRANDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:14:18	J2864758	JVMSVDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:14:16	J2864758	JVMSVDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:14:12	J2859383	MQCONDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:14:11	J2859383	MQCONDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:14:07	J2854398	WEBSVDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:14:06	J2854398	WEBSVDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:13:57	J2843974	URIMPDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:13:55	J2843974	URIMPDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:13:47	J2834201	TSMDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:13:45	J2834201	TSMDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:13:37	J2824069	TRNCLDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:13:35	J2824069	TRNCLDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:13:27	J195	TERMDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:13:25	J195	TERMDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:13:17	J080	TDQDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:13:15	J080	TDQDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:13:07	J141	TDQDEF	BEP	CICSUSER	DELETE		
2009/07/09 05:13:05	J141	TDQDEF	BEP	CICSUSER	CREATE		
2009/07/09 05:12:57	J228	TDODEF	BEP	CICSUSER	DELETE		

# CM - History

Display by date groupings

Resource History for FOO9 from earliest to latest entry

Revision Time	Resource Name/After	Resource Type/Before	Group	User Name	Command	Change P...	Scheme
Today							
2009/07/09 13:43	FOO9	TRANDEF	BEP	CICSUSER	UPDATE		
Older Than This Month							
2009/05/07 17:52	FOO9	TRANDEF	BEP	CICSUSER	CREATE		

Sort by columns by clicking on column header

Resource History for BEP from 2009/04/09 13:07:41 to latest entry

Revision Time	Resource Name/...	Resource Type/Before	Group	User Name	Command	Change P...	Sch
2009/05/27 09:31:41	A	ATOMDEF	BEP	CICSUSER	DELETE		
2009/05/27 09:31:37	A	ATOMDEF	BEP	CICSUSER	CREATE		
2009/07/09 13:18:35	DEMO	TRANDEF	BEP	CICSUSER	DELETE		
2009/07/09 13:15:28	DEMO	TRANDEF	BEP	CICSUSER	CREATE		
2009/05/07 17:53:37	FC02	TRANDEF	BEP	CICSUSER	CREATE		
2009/07/09 13:43:41	FOO9	TRANDEF	BEP	CICSUSER	UPDATE		
2009/05/07 17:53:19	FOO9	TRANDEF	BEP	CICSUSER	CREATE		
2009/05/18 14:40:28	FOOOO	TCPDEF	BEP	CICSUSER	CREATE		
2009/06/05 15:27:20	J000	CONNDEF	BEP	CICSUSER	DELETE		

## CM - History

### Maximise entries for changed attributes

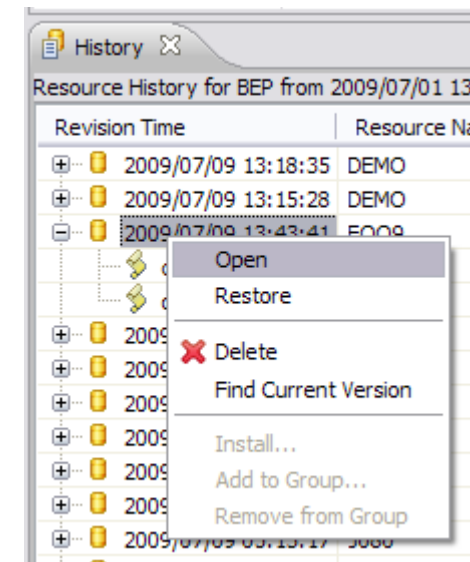
Revision Time	Resource Name/After	Resource Type/Before	Group	User Name	Command	Change P...	Scheme
2009/07/09 13:18:35	DEMO	TRANDEF	BEP	CICSUSER	DELETE		
2009/07/09 13:15:28	DEMO	TRANDEF	BEP	CICSUSER	CREATE		
2009/07/09 13:43:41	FOO9	TRANDEF	BEP	CICSUSER	UPDATE		
	changeAgentRel: 0660	8890					
	description	Changed					
2009/07/07 23:09:39	J055	CONNDEF	BEP	CICSUSER	DELETE		

Other options available:

Open in an editor (in read only mode)

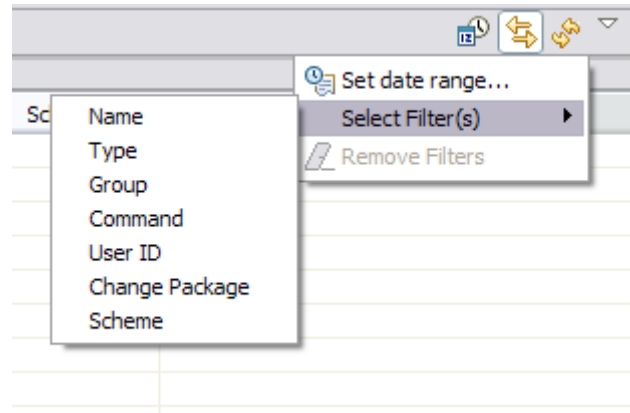
Restore – can restore certain entries. Changes the value in the current version. Recreates this resource if it has been deleted.

Find current version



## CM - History

Select Filters to apply to history entries



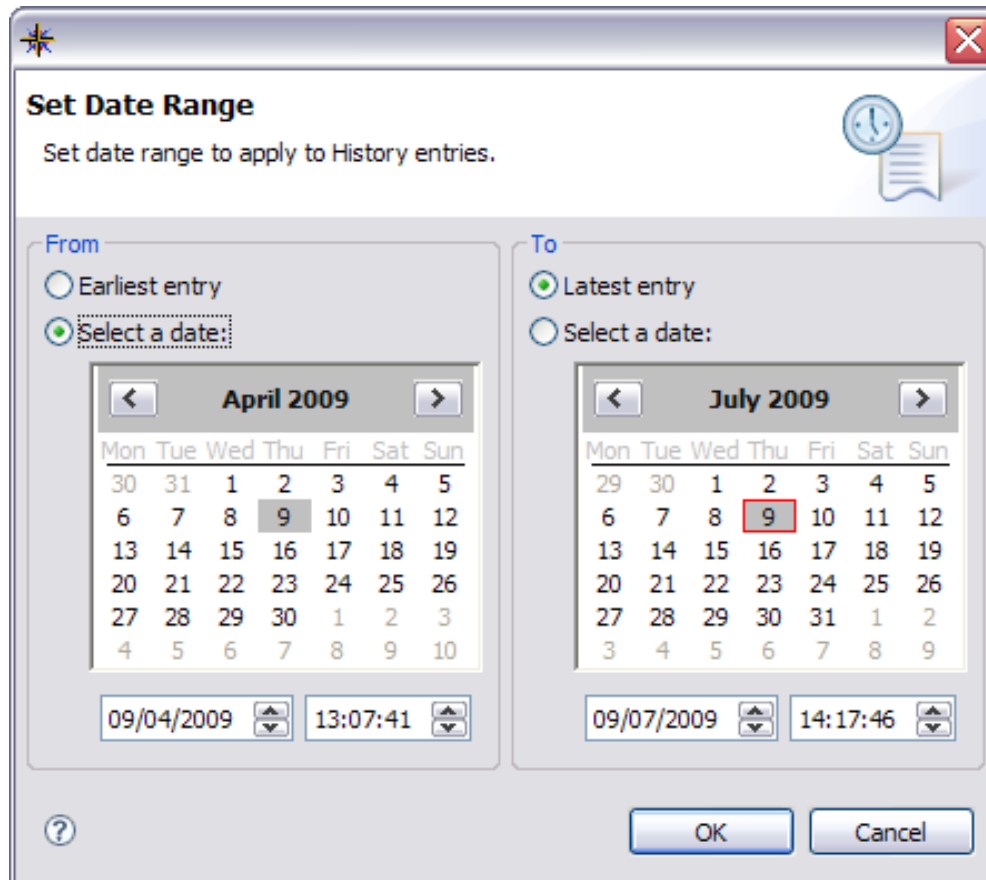
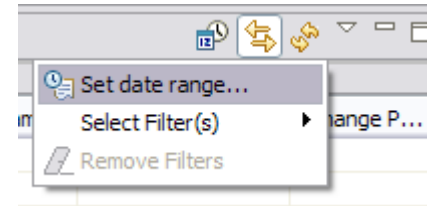
Once filters have been selected you can populate the values, choose “equals” or “not equals” and apply the filters

A screenshot of the CM History tool showing a table of history entries. The table has columns for Revision Time, Resource Name/After, Resource Type/Before, Group, User Name, Command, and Change P... The table contains one entry: 2009/07/09 13:15:28, DEMO, TRANDEF, BEP, CICSUSER, CREATE. The Command field is set to DELETE and the Name field is set to DEMO.

Revision Time	Resource Name/After	Resource Type/Before	Group	User Name	Command	Change P...
2009/07/09 13:15:28	DEMO	TRANDEF	BEP	CICSUSER	CREATE	

## CM - History

Set Date range to apply to history entries



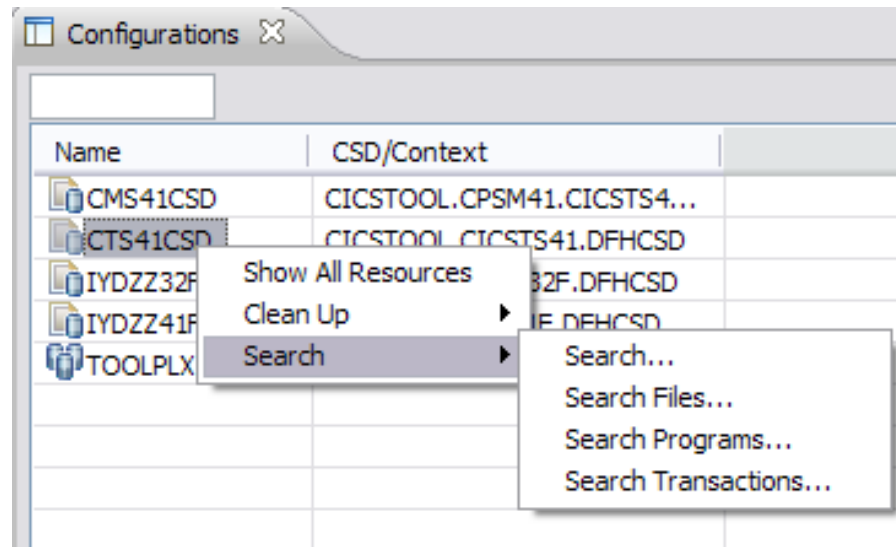
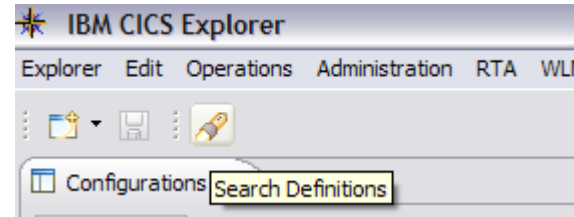
Select the range using the dialog box

This range will then be used to limit the results displayed to changes within these times



# CM - Searching

You can drive the search dialog from the toolbar

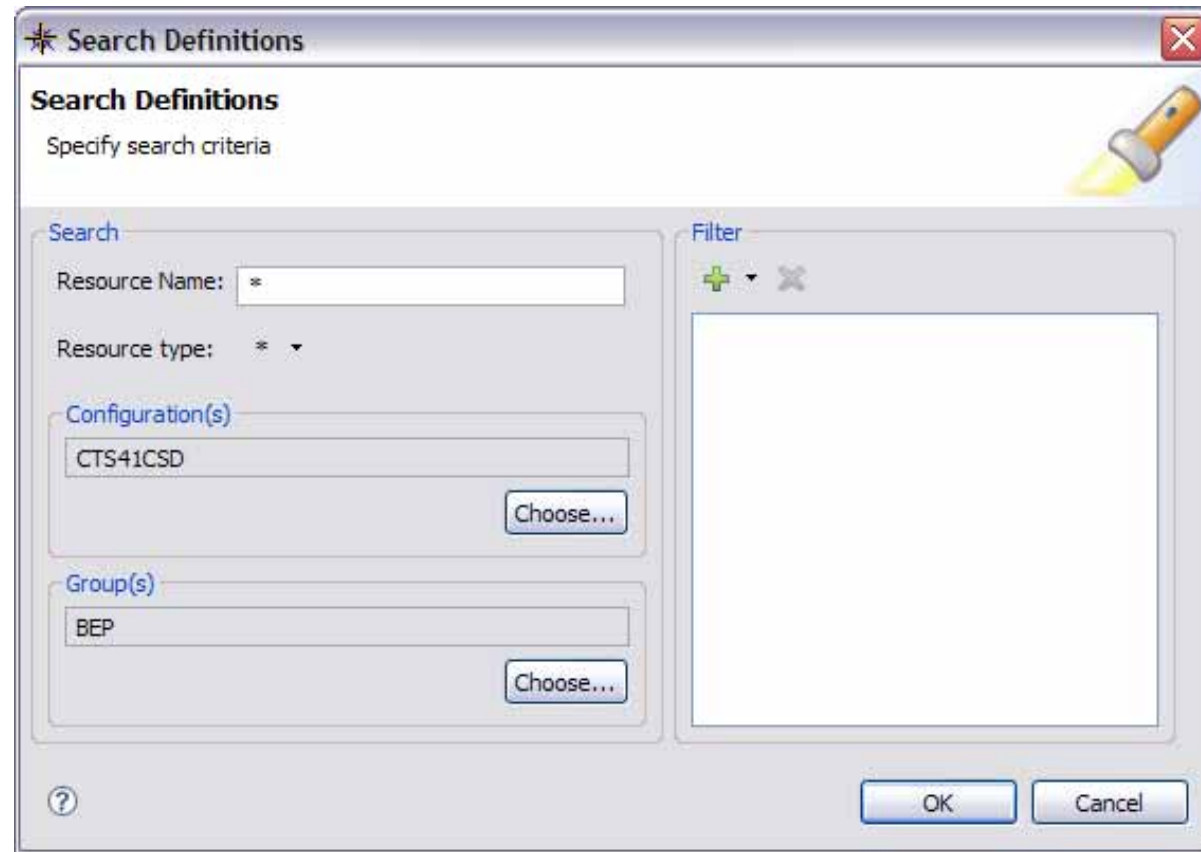


Or from one of the search options on a configuration or group

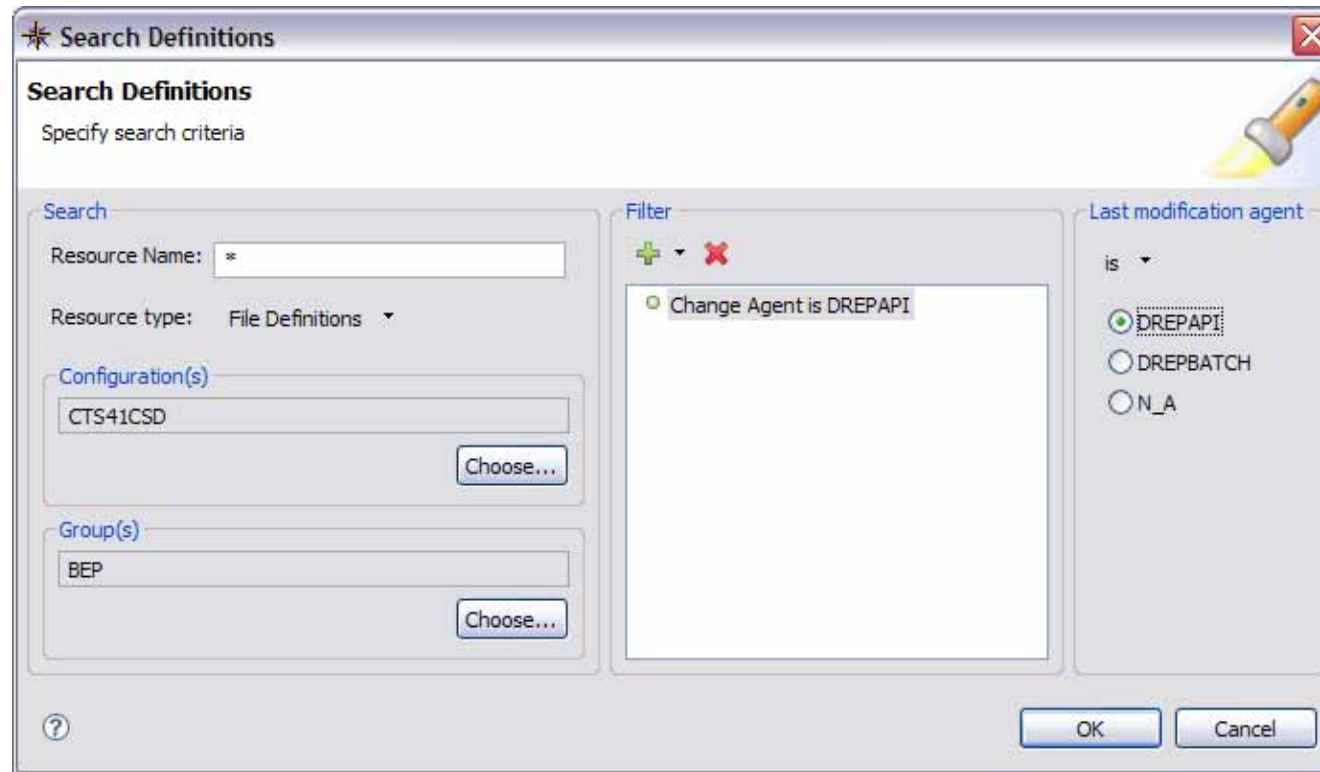


## CM - Searching

From the search dialog you can specify name, type, configurations(s) and groups within a particular configuration



## CM - Searching

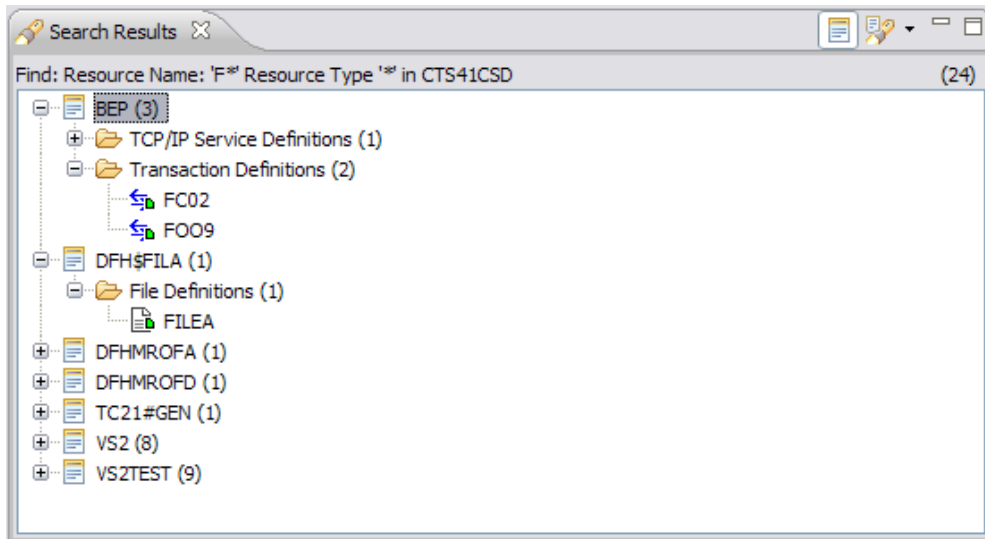
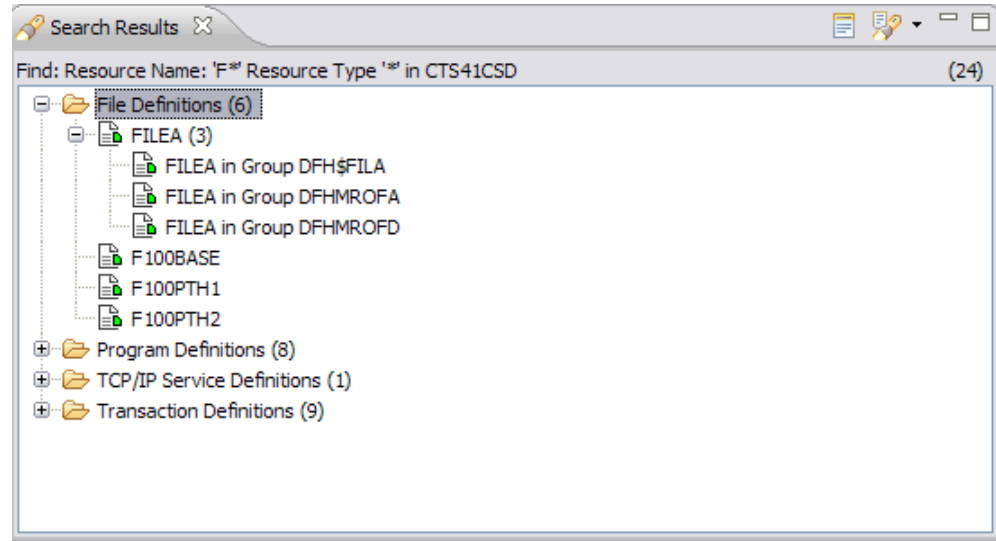


If a resource type is specified further filtering can be done on attribute values



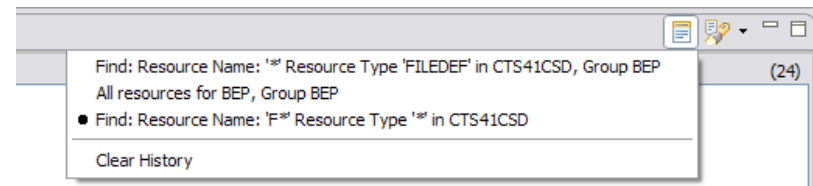
# CM - Searching

Results are displayed in the Search results view

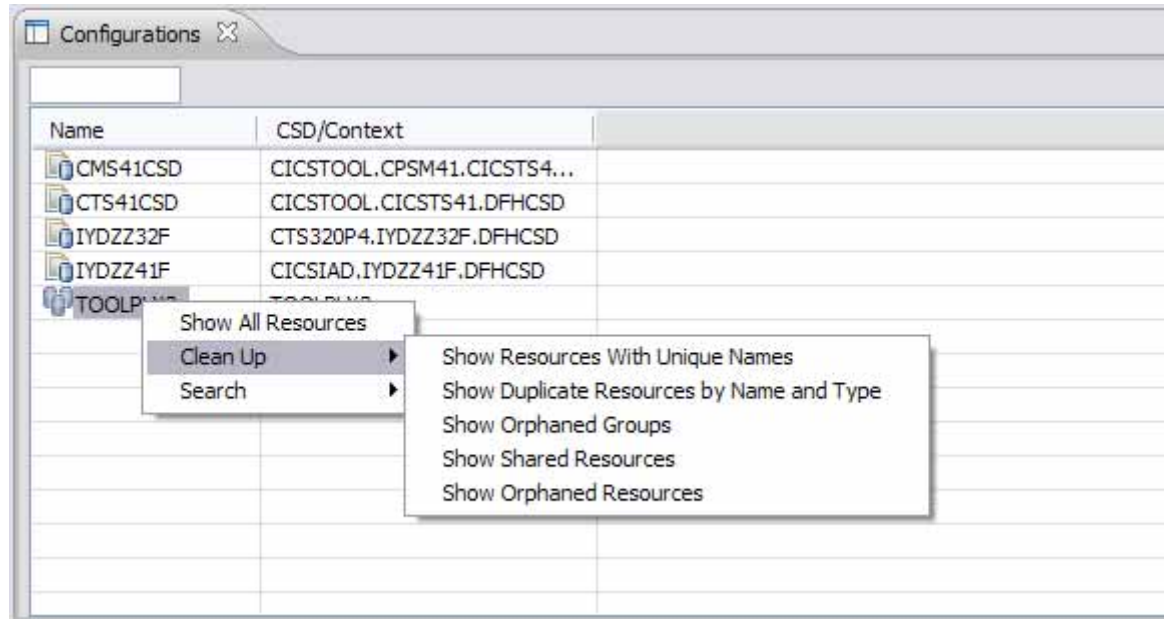


Results can be arranged by group

Result history

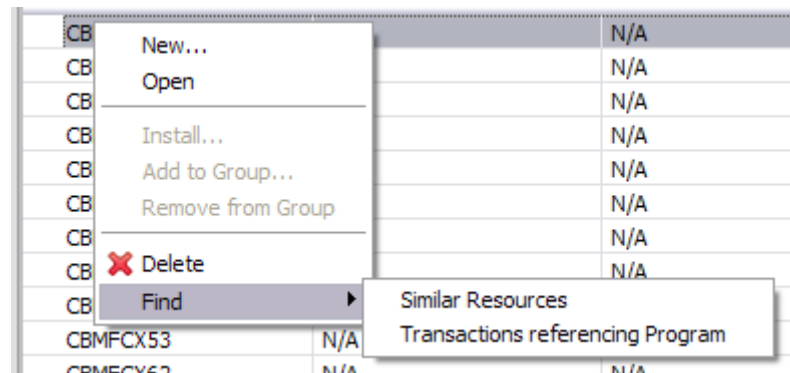


# CM - Clean Up – Specific Searches



Some searches to aid in resource and CSD clean up have been provided

Some specific searches on certain resource types:  
LSRPool  
Program



## CM - Operational Definitions

The screenshot shows the 'Preferences' dialog box with the 'Connections' tab selected. The dialog has a sidebar on the left with a search filter and a tree view containing 'Capabilities', 'Connections', 'Help', and 'Install/Update'. The main area is divided into sections: 'Connection', 'Location', 'Authentication', and 'CICS Connection'. The 'Connection' section has dropdowns for 'Type' (Configuration Manager) and 'Name' (CM 2.1 Connection). The 'Location' section has text boxes for 'Host name' (WINMVS2E.HURSLEY.IBM.COM) and 'Port number' (8990). The 'Authentication' section has text boxes for 'User ID' (KAT) and 'Password' (masked with dots). A warning icon and text state: 'Saved passwords are stored on your computer in a file that is difficult, but not impossible, for an intruder to read.' The 'CICS Connection' section contains a table with two rows: '4.1 Connection' (checked) and 'Old data connection to 4.1' (unchecked). Buttons for 'New', 'Connect', 'Delete', 'Restore Defaults', 'Apply', 'OK', and 'Cancel' are visible.

Name	Type
<input checked="" type="checkbox"/> 4.1 Connection	CICS Management Interface
<input type="checkbox"/> Old data connection to 4.1	CICSplex SM Data Interface

You can associate a CMCI or a CPSM Data connection with your CM connection, to allow management of operational resources alongside use of CM





# CM - Operational Definitions

The screenshot displays the 'Operational Definitions' window in IBM CM. It features several tabs: 'Transaction Definitions', 'Program Definitions', 'File Definitions', and 'TD Queue Definitions'. The main area is divided into two panes. The top pane, titled 'CNX0211I Context: BEP, Resource: FILEDEF, 4 records collected at 09-Jul-2009 14:48:19', shows a table of transaction definitions. The bottom pane, titled 'CNX0211I Context: TOOLPL...', shows a table of program definitions. A context menu is open over the 'ASILLY' transaction entry, listing options: 'New...', 'Open', 'Install...', 'Add to Group...', 'Remove from Group', 'Delete', and 'Find'. The 'Install...' option is highlighted.

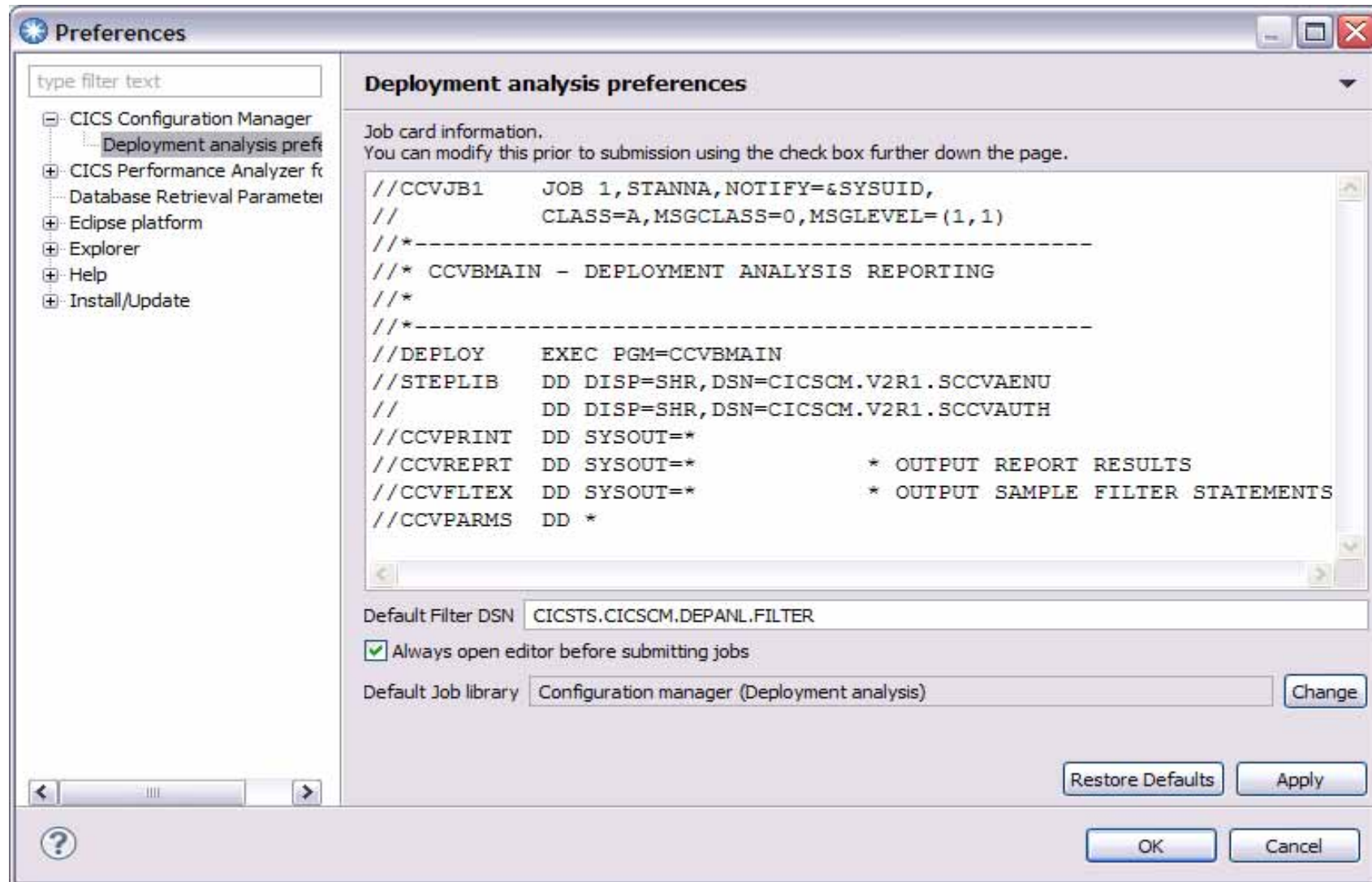
Name	Version	Create Time	Change Time	De:
ASILLY	1	N/A	01-Jul-2009 12:49:58	fdkj
FC02		N/A	08-May-2009 09:10:52	
TESTDIS		N/A	11-May-2009 12:20:05	
UNITTEST		N/A	11-May-2009 17:10:33	

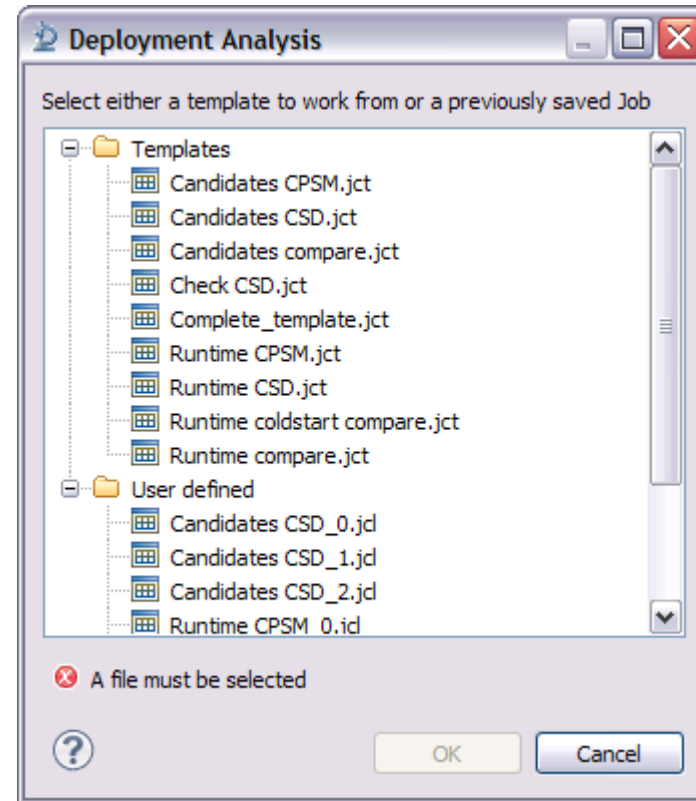
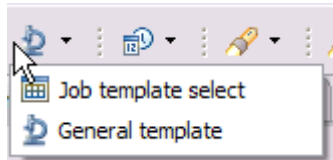
Region	Name	✓	ENABLED	CLOSED	ADDABLE	BROWSE	DELETE	READ
CICSC141	ACCTFIL				ADDABLE	NOTBROW...	DELETABLE	READABLE
CICSC141	ACCTFIL@	✓	ENABLED	CLOSED	ADDABLE	NOTBROW...	DELETABLE	READABLE
CICSC141	ACCTNAM	✓	ENABLED	OPEN	NOTADDA...	BROWSABLE	NOTDELET...	READABLE
CICSC141	ACCUNTD	✓	ENABLED	OPEN	NOTADDA...	NOTBROW...	NOTDELET...	READABLE
CICSC141	ACINUSE	✓	ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE
CICSC141	BRQFILOD	✓	ENABLED	CLOSED	ADDABLE	NOTBROW...	NOTDELET...	READABLE
CICSC141	CIUCNTL	✓	ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE
CICSC141	CIUINT1	✓	ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE
CICSC141	CIUINT2	✓	ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE

This enables you to manage any regions connected to the WUI server and install CICSplex SM definitions into those regions

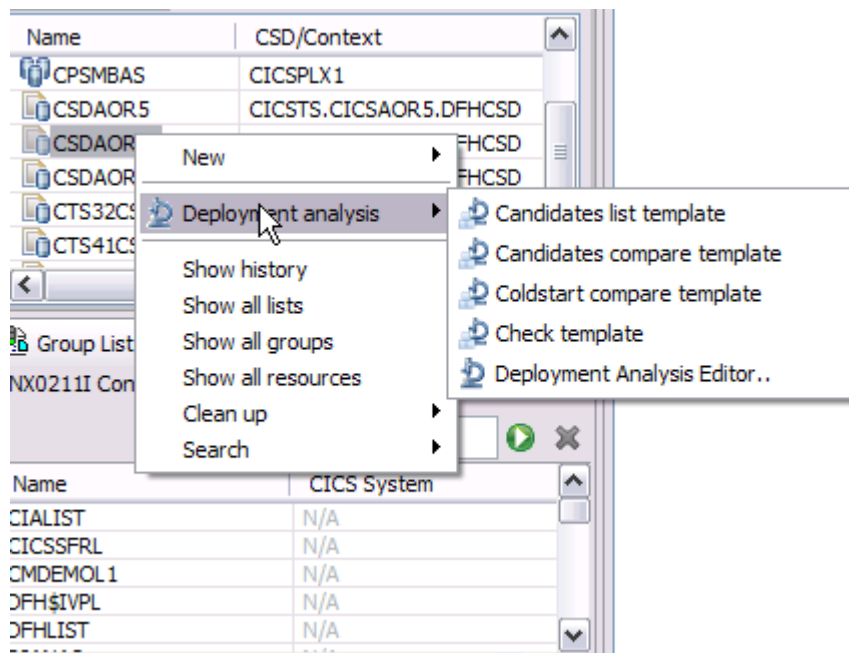
## Deployment Analysis preferences



# Deployment Analysis - supplied job templates



## Deployment Analysis – template options based on context



## Deployment Analysis – JCL template for Cold Start Analysis

```

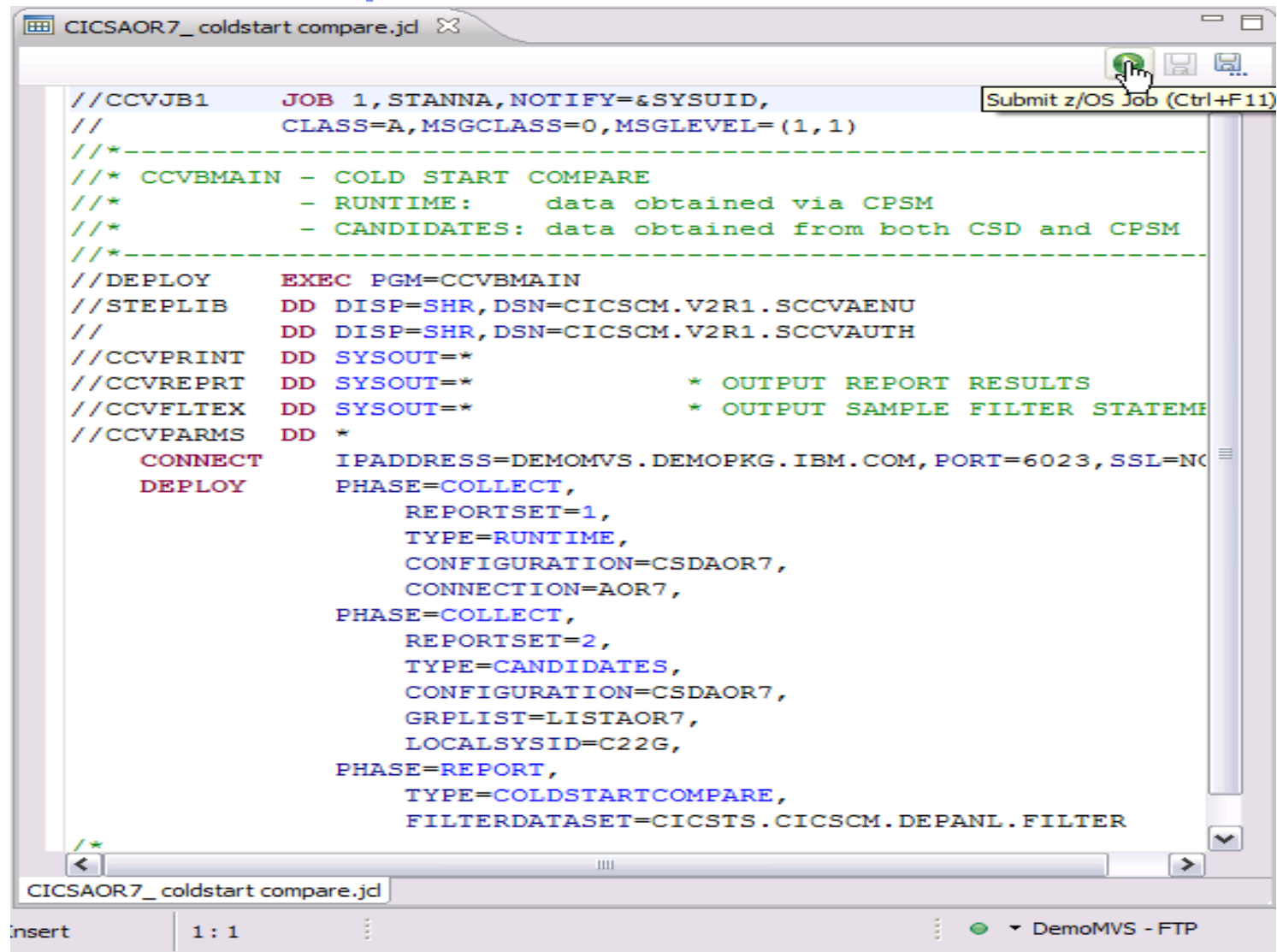
//CCVJB1      JOB 1,STANNA,NOTIFY=&SYSUID,
//            CLASS=A,MSGCLASS=0,MSGLEVEL=(1,1)
//*-----
//* CCVBMMAIN - COLD START COMPARE
//*           - RUNTIME:      data obtained via CPSM
//*           - CANDIDATES:  data obtained from both CSD and CPSM
//*-----
//DEPLOY      EXEC PGM=CCVBMMAIN
//STEPLIB     DD DISP=SHR,DSN=CICSCM.V2R1.SCCVAENU
//            DD DISP=SHR,DSN=CICSCM.V2R1.SCCVAUTH
//CCVPRINT    DD SYSOUT=*
//CCVREPR    DD SYSOUT=*          * OUTPUT REPORT RESULTS
//CCVFLTEX    DD SYSOUT=*          * OUTPUT SAMPLE FILTER STATEME
//CCVPARMS    DD *
//            CONNECT IPADDRESS=DEMOMVS.DEMOPKG.IBM.COM,PORT=6023,SSL=NO
//            DEPLOY  PHASE=COLLECT,
//                    REPORTSET=1,
//                    TYPE=RUNTIME,
//                    CONFIGURATION=<Config-name for a context>,
//                    SCOPE=<CICS region to be used as scope>,
//                    PHASE=COLLECT,
//                    REPORTSET=2,
//                    TYPE=CANDIDATES,
//                    CONFIGURATION=<Config-name for a CPSM context>,
//                    SCOPE=<CICS region to be used as scope>,
//                    PHASE=COLLECT,
//                    REPORTSET=2,
//                    TYPE=CANDIDATES,
//                    CONFIGURATION=CSDAOR7,
//                    GRPLIST=<1st CSD-List name>.

```

Runtime coldstart compare\_6.jd

Insert | 20 : 25 | DemoMVS - FTP

## Deployment Analysis – specify required details and submit - FTP connection required



```
//CCVJB1      JOB 1,STANNA,NOTIFY=&SYSUID,
//           CLASS=A,MSGCLASS=0,MSGLEVEL=(1,1)
//*-----*
//* CCVBM    - COLD START COMPARE
//*          - RUNTIME:      data obtained via CPSM
//*          - CANDIDATES:  data obtained from both CSD and CPSM
//*-----*
//DEPLOY     EXEC PGM=CCVBM
//STEPLIB    DD DISP=SHR,DSN=CICSCM.V2R1.SCCVAENU
//           DD DISP=SHR,DSN=CICSCM.V2R1.SCCVAUTH
//CCVPRINT   DD SYSOUT=*
//CCVREPR    DD SYSOUT=*                * OUTPUT REPORT RESULTS
//CCVFLTEX   DD SYSOUT=*                * OUTPUT SAMPLE FILTER STATEME
//CCVPARMS   DD *
//           CONNECT IPADDRESS=DEMOMVS.DEMOPKG.IBM.COM,PORT=6023,SSL=NO
//           DEPLOY  PHASE=COLLECT,
//                   REPORTSET=1,
//                   TYPE=RUNTIME,
//                   CONFIGURATION=CSDAOR7,
//                   CONNECTION=AOR7,
//                   PHASE=COLLECT,
//                   REPORTSET=2,
//                   TYPE=CANDIDATES,
//                   CONFIGURATION=CSDAOR7,
//                   GRPLIST=LISTAOR7,
//                   LOCALSYSID=C22G,
//                   PHASE=REPORT,
//                   TYPE=COLDSTARTCOMPARE,
//                   FILTERDATASET=CICSTS.CICSCM.DEPANL.FILTER
//*
```

Submit z/OS Job (Ctrl+F11)

CICSAOR7\_coldstart compare.jcl

1 : 1

DemoMVS - FTP



# Deployment Analysis – review job output in z/OS Job view

## - FTP connection required

IBM CICS Explorer BETA - C:/cicsexp1110incurr

File Edit Project Operations Definitions Search Window Help

History Properties z/OS Job

Job ID: JOB00709 Name: CCVJB1 User: STANNA Status: OUTPUT

```

GRPLIST=LISTAOR7,
LOCALSYSID=C22G,
PHASE=REPORT,
TYPE=COLDSTARTCOMPARE,
FILTERDATASET=CICSTS.CICSCM.DEPANL.FILTER

***End of Section***
12012/04/18 08:07 CICS Configuration Manager V2.1 Page 2
Batch Utility

CICS Deployment Analysis Report
Cold Start Compare Report
Data Sources
    
```

----- Target Region -----										
ID	Date	Time	Records	CollectionType	ReportSet	SMFID	Context	Scope	APPLID	SYS
01	2012/04/18	08:07	4177	RUNTIME-CCM	1	MVSA			CICSACB7	AOR

----- CCM Server -----				
Region	APPLID	SYSID	CTSVRM	CCM
CICSCM	CICSCM	CCM1	0420	021

----- Target Region -----										
ID	Date	Time	Records	CollectionType	ReportSet	SMFID	Context	Scope	APPLID	SYS
02	2012/04/18	08:07	1522	CANDIDATES-CSD	2	MVSA				C22

----- CCM Server -----				
Region	APPLID	SYSID	CTSVRM	CCM
CICSCM	CICSCM	CCM1	0420	021

DemoMVS - FTP

start | InfoP... | 6:28:... | Mail ... | 4 Fi... | Dallas | CICS... | Micro... | IBM ... | EN | Microsoft PowerPoint - [CICS CM V2.1.1 T3 v1.ppt] | 14:09 Wednesday 18/04/2012

# Deployment Analysis – search available in output view

The screenshot shows the IBM CICS Explorer BETA interface. The main window displays a deployment analysis report for Job ID: JOB00709, Name: CCVJB1, User: STANNA, Status: OUTPUT. The report includes a table of definitions and a list of matched definitions.

The **Find/Replace** dialog box is open, showing the following settings:

- Find: CSQ
- Replace with: (empty)
- Direction:  Forward,  Backward
- Scope:  All,  Selected lines
- Options:
  - Case sensitive,  Wrap search
  - Whole word,  Incremental
  - Regular expressions
- Buttons: Find, Replace/Find, Replace, Replace All, Close

The report table below shows the following data:

Report Item	ID	Name	Type	Group	List or RESDESC	Co.	Deploy	Checksum	Type
1	01	ADNMANF0	FILE	ADNPCRGP	N/A	0007	Defined state	LOC	ENA
2	01	DSQPNLE	FILE	QMF610E	N/A	0007	Runtime state	LOC	UNE
3	01	DSQUCFRM	FILE	QMF610E	N/A	0007	Defined state	LOC	ENA
4	01	CSQAVICM	PROGRAM	DFHMQ	N/A	0006	Source mismatch	LOC	ENA
5	01	CSQCBE30	PROGRAM	DFHMQ	N/A	0006	Source mismatch	LOC	ENA
6	01	CSQCBP10	PROGRAM	DFHMQ	N/A	0006	Source mismatch	LOC	ENA
7	01	CSQCDSC	PROGRAM	DFHMQ	N/A	0006	Source mismatch	LOC	ENA
8	01	CSQCDSP	PROGRAM	DFHMQ	N/A	0006	Source mismatch	LOC	ENA
9	01	CSQCQCON	PROGRAM	DFHMQ	N/A	0006	Source mismatch	LOC	ENA

# Change Package Lifecycle management – new Change Packages view

The screenshot displays the IBM CICS Explorer BETA interface. The main window title is "IBM CICS Explorer BETA - C:/cicexp1110incurr". The interface is divided into several panes:

- Packages Pane:** Shows a table of packages with columns for Package, Last Action, Changenumber, and Description.
 

Package	Last Action	Changenumber	Description
DEVZTEST	MIGRATE	2012/04/18 07:13:36.05	Package to migrate
00000001	READY	2012/04/18 05:31:21.81	Migrate resources fr
00000002	MIGRATE	2012/02/13 08:24:08.77	Migrate from AOR6
00000003	CREATE	2012/04/03 19:30:22.18	Migrate from CSD to
- Group List Definitions Pane:** Shows a table of group list definitions for context CSDAOR6.
 

Name	CICS System
CIALIST	N/A
CICSSFRL	N/A
CMDEMOL1	N/A
DFH\$IVPL	N/A
DFHLIST	N/A
DIANAS	N/A
DIANAT	N/A
- Resource Group Definitions Pane:** Shows a table of resource group definitions for context CSDAOR6.
 

Name	CICS System
GENA	N/A
GENASAD	N/A
GENASAF	N/A
GENASAP	N/A
GENASAT	N/A
GENASA2	N/A
- History Pane:** Displays a table titled "Resource History for GENASA2 from earliest to latest entry".
 

Revision	Time	Resource Name/After	Resource Type/Before	Group	User Name	Cc
+	2012/03/18 16:47:47	TEST	TRANDEF	GENASA2	DDS1964	DEL
+	2012/01/26 14:53:34	TEST	TRANDEF	GENASA2	DNET409	UPI
+	2012/01/26 08:43:46	TEST	TRANDEF	GENASA2	DNET409	UPI
+	2012/01/26 08:42:55	TEST	TRANDEF	GENASA2	DNET409	UPI
+	2012/01/24 20:42:44	TEST	TRANDEF	GENASA2	DNET409	CRI
+	2012/01/24 20:42:19	DB1S	DB2CDEF	GENASA2	DNET409	UPI
+	2012/01/24 20:41:48	DB1SLU2	DB2EDEF	GENASA2	DNET409	CO
+	2012/01/24 20:40:28	DB1S	DB2CDEF	GENASA2	DNET409	CO

The bottom status bar shows the user is connected to the host "demo.mvs.demopkg.ibm.com" on port 6023. The system tray includes the start button, taskbar, and system clock showing 14:35 on Wednesday, 18/04/2012.

# Change Package Lifecycle management – Add resources to Package

IBM CICS Explorer BETA - C:/cicexp1110incurr

File Edit Project Operations Definitions Search Window Help

Configurations Change Packages

Packages	Last Action	Changetime	Description
DEV2TEST	MIGRATE	2012/04/18 07:13:36.05	Package to migrate
00000001	READY	2012/04/18 05:31:21.81	Migrate resources fr
00000002	MIGRATE	2012/02/13 08:24:08.77	Migrate from AOR6
00000003	CREATE	2012/04/03 19:30:22.18	Migrate from CSD to

Transaction Definitions Program Definitions File Definitions TD Queue Definitions

CNX0211I Context: GENASAF. Resource: FILEDEF. 2 records collected at 18-Apr-2012 14:37:49

Name	Version	Create Time	Change Time	Description	Status
KSDSCUST	0	13-Dec-2011 12...	13-Dec-2011 12...		✓ ENABLED
KSDSP		13-Dec-2011 12...	28-Feb-2012 08...		✓ ENABLED

Group List Definitions

CNX0211I Context: CSDAOR6. Resource: CSDLIST. 24 records collected at 18

Name	CICS System
CTALIST	N/A
CICSSFRL	N/A
CMDEMOL1	N/A
DFH\$IVPL	N/A
DFHLIST	N/A
DIANAS	N/A
DIANAT	N/A

Resource Group Definitions

CNX0211I Context: CSDAOR6. Resource: CSDGROUP. 6 records collected at :

Name	CICS System
GENA	N/A
GENASAD	N/A
GENASAF	N/A
GENASAP	N/A
GENASAT	N/A
GENASA2	N/A

History Properties

Resource History for KSDSPOLY from e

Revision Time	Resource	Source Type/Before	Group	User Name	Code
2012/02/28 08:51:57	KSDSPOLY	FILEDEF	GENASAF	DNET409	UPI

DemoMVS - CICS CM

start

InfoP... 6:57:... Mail ... 4 Fi... 2 P... CICS... Micro... IBM ... EN 100% 14:38 Wednesday 18/04/2012

# Change Package Lifecycle management – double click on Package to open

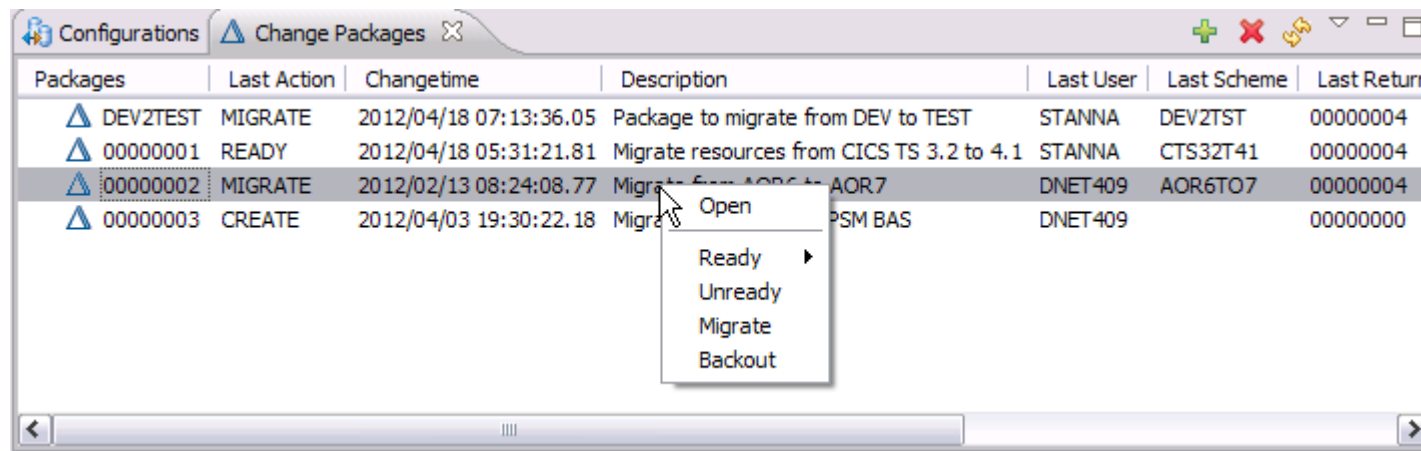
The screenshot displays the IBM CICS Explorer BETA interface. The main window is titled "Change Package (DEV2TEST)". On the left, there are several panels: "Configurations" showing a list of packages, "Group List Definitions" showing a list of CICS systems, and "Resource Group Definitions" showing a list of resource groups. The central pane shows the "Migration Scheme" and "Resources" for the selected change package. The "Resources" section is expanded, showing a table of resources.

Resources	Ready State	Group	Configuration	Remove
Program Definition (1)				
ZACCTQ	Ready	CICSSFRG	CTS32CSD	
Resource Description Definition (1)				
TESTLIST	Ready		CTS32CSD	

The bottom status bar shows the user is connected to the host "demomvs.demopkg.ibm.com" on port 6023. The system tray at the bottom right shows the time as 14:41 on Wednesday, 18/04/2012, and the battery level is at 100%.



## Change Package Lifecycle management – actions available on Package



The screenshot shows a software interface window titled 'Configurations' with a sub-tab 'Change Packages'. It displays a table of packages with columns for Packages, Last Action, Chargetime, Description, Last User, Last Scheme, and Last Return. A context menu is open over the package '00000002', showing options: Open, Ready, Unready, Migrate, and Backout.

Packages	Last Action	Chargetime	Description	Last User	Last Scheme	Last Return
DEV2TEST	MIGRATE	2012/04/18 07:13:36.05	Package to migrate from DEV to TEST	STANNA	DEV2TST	00000004
00000001	READY	2012/04/18 05:31:21.81	Migrate resources from CICS TS 3.2 to 4.1	STANNA	CTS32T41	00000004
00000002	MIGRATE	2012/02/13 08:24:08.77	Migrate from AOR6 to AOR7	DNET409	AOR6TO7	00000004
00000003	CREATE	2012/04/03 19:30:22.18	Migrate from PSM BAS	DNET409		00000000



# Change Package Lifecycle management – History view

**Change Package (DEV2TEST)**

**Migration Scheme**  
 Select one or more package-scheme combinations to view the history.  
 DEV2TEST:DEV2TST (2012/04/19 08:15:38.27)

**Resources**  
 Add and remove definition resources from this Change Package.

Scheme	API Command	Timestamp	Userid	Return Code	Reason Code
DEV2TST	MIGRATE	2012/04/19 08:15:38.27	STANNA	00000004	00040024
DEV2TST	READY	2012/04/19 08:15:29.04	STANNA	00000004	001100AC
DEV2TST	BACKOUT	2012/04/19 08:14:55.23	STANNA	00000000	00000000
DEV2TST	MIGRATE	2012/04/18 07:13:36.05	STANNA	00000004	00040024
DEV2TST	READY	2012/04/18 07:13:18.38	STANNA	00000000	00000000

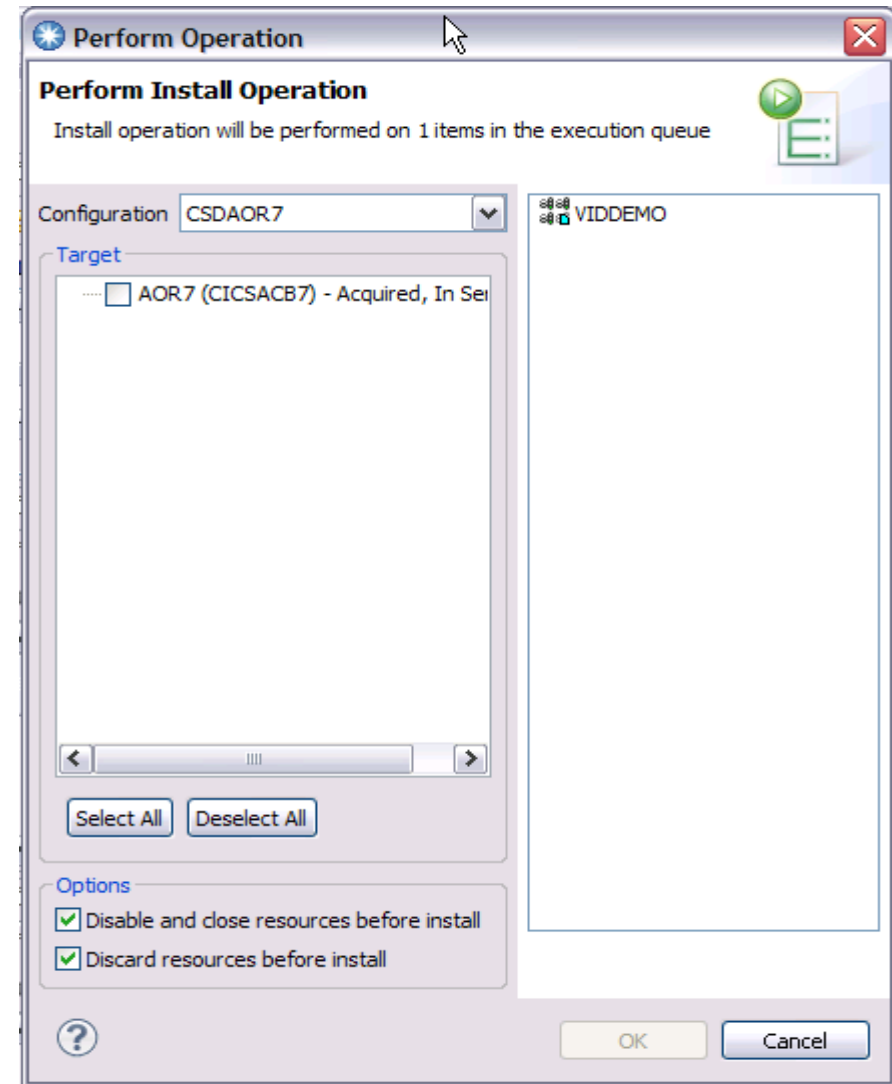
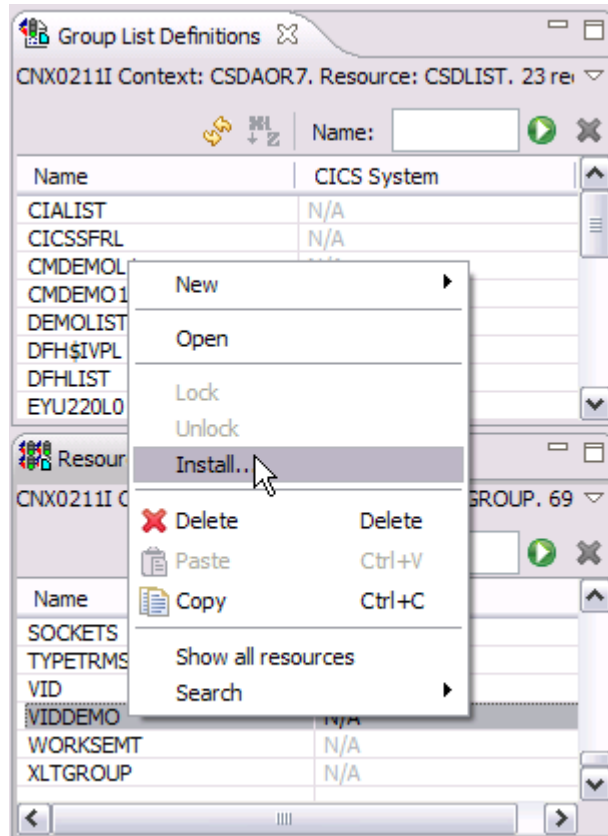
**Resource History for GENASAP from**

Revision	Time	Resource
1	2012/01/24 20:36:50	LGAC

1 IZE0100I Connected user STANNA to host demomvs.demopkg.ibm.com on port 6023

14:22 Thursday 19/04/2012

# Improved Install function for CSD resources including Groups





IBM Software Group

# CICS Transaction Gateway



# CICS TG in CICS Explorer

The screenshot displays the IBM CICS Explorer interface. The main window shows a list of Gateway daemons under the scope 'DUMMY907'. The table below represents the data shown in the main window.

Name	Status	Version	GatewayID	Netname	UpTime	Health	MaxPl...	InUse...	Hostname	TCP	Clients
CTGRED1	RUNNING	7.2.0.0	MV24.CTGRED1	RED1EXCI	3 days 18:09:30	100	250	0	WINMVS24	4148	0
CTGRED2	RUNNING	7.2.0.0	MV24.CTGRED2	RED2EXCI	3 days 17:57:52	100	250	0	WINMVS24	4150	0
ANS720	RUNNING	7.2.0.0	SMITHSON.GATEWAY	CTGEXCI	17 days 21:07:30	100	250	0	WINMVS24	6483	0
ANS720A	RUNNING	7.2.0.0	SMITHSON.CTG720A	CTGEXCI	17 days 21:07:49	100	250	0	WINMVS24	6485	0
ANS710	RUNNING	7.1.0.0	-	-Generic-	14 days 22:53:25	100	250	0	WINMVS24	6486	0
ANS710A	RUNNING	7.1.0.0	710A	-Generic-	17 days 21:07:45	100	250	0	WINMVS24	6487	0
CTGBLU1	RUNNING	7.2.0.0	MV24.CTGBLU1	-Generic-	3 days 17:57:57	100	250	0	WINMVS24	4149	0
CTGBLU2	RUNNING	7.2.0.0	MV24.CTGBLU2	BLU2EXCI	3 days 17:58:13	100	250	0	WINMVS24	4151	0

The Properties window for the selected gateway daemon (CTGRED1) shows the following details:

Property	Value
Gateway daemon	
Default	IY24CTGU
GatewayID	MV24.CTGRED1
Health	100
InUsePipes	0
MaxPipes	250
Name	CTGRED1
Netname	RED1EXCI
Platform	z/OS
Status	RUNNING
UpTime	3 days 18:09:30
Version	7.2.0.0
Network details	
Clients	0
Hostname	WINMVS24
SSL	-
TCP	4148

CICS Explorer SupportPac: <http://www-01.ibm.com/support/docview.wss?rs=9&context=SSGMJ2&dc=D400&uid=swg24022354>

# CICS TG - Built-in Gateway and Connection testing

The screenshot displays the IBM CICS Explorer interface. On the left, a tree view shows the project structure under 'CICS TG Explorer' for context 'IPCTG24U', including 'Blue 1', 'CTG Red 2', 'PW1', 'MV24', and 'CTG Blue 2 (CTGBLU2) (0/1)'. The main area is divided into three panes:

- Gateway daemons:** A table listing gateway daemons. A context menu is open over the 'CTGBLU2' entry, showing options: 'Open', 'Delete', and 'Test Gateway connection'. A yellow callout labeled 'Testing daemon' points to this menu.
- CICS connections:** A table listing CICS connections. A context menu is open over the 'IPCTG24U' entry, showing options: 'Open', 'Delete', and 'Test CICS connection'. A yellow callout labeled 'Testing Connection' points to this menu.
- Console:** A text area showing the output of a connection test: 'Attempting to open connection to Gateway daemon using host winmva24.hursley.ibm.com on port 4,151' followed by 'Success: Opened connection to winmva24.hursley.ibm.com on port 4,151'.



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# RDz

A horizontal decorative banner with a purple background, featuring a series of colorful squares (cyan, green, yellow, red) and various icons including a globe, a person's face, and a grid of dots.

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# Rational Developer for System z

The screenshot displays the 'Enterprise Service Tools - ADMICSEditor' interface. On the left, a 'Navigator' pane shows a project tree with folders like 'Flows', 'Generation', and 'Source'. A yellow callout points to this area, labeling it as the 'CICS TS Explorer Region tree'. The main window is the 'Resource Definition Editor', which includes a 'Resource Definition' section with a 'Target' field set to 'Region: NQA17C01'. Below this is a table of resources:

Selection	Resource Name	Resource Type	Description	State
<input checked="" type="checkbox"/>	SFMFlow	SFMFlow	testSFM	Enable only
<input checked="" type="checkbox"/>	SFMPIPE	Pipeline	SFM pipeline	Enable only
<input checked="" type="checkbox"/>	FLOWPROC	ProcessType	Stock flow process	Edited
<input checked="" type="checkbox"/>	STOCKPLO		Stock flow program	Edited
<input checked="" type="checkbox"/>	STPL		Stock flow	Edited

A yellow callout points to this table, labeling it as 'CICS TS Explorer Resource types' and listing: programs, transactions, files, and RPL list. At the bottom, a 'Properties' pane shows a 'Programs' tab with a list of programs and their status:

Name	Status
ACCTCHAN	ENABLED
ACCTTEST	ENABLED
ADMCRRDR	ENABLED
ADNCRDS	ENABLED
ADNTMSGH	ENABLED
BACEDALP	ENABLED
BACEDAP	ENABLED
BALABGP	ENABLED
BAWYMQ	ENABLED
BAWYMQP	ENABLED
BA1DPLP	ENABLED
CBCEBUG	ENABLED
CHANNELLE	ENABLED

A yellow callout points to this list, labeling it as 'CICS TS Explorer program list'. The bottom status bar shows 'start', 'testing', 'Jim Hollings...', 'Enterprise...', 'RDzV7.1...', 'ADM tech...', '39:29 - AT...', 'Session A...', '100%', and '10:14 PM'.



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# PD Tools



# Debug Tool

The screenshot displays the IBM CICS Explorer interface with several key components:

- Debug Tool Program Stack:** Located in the top-left pane, it shows the application context: CDAT1 [Remote Compiled Application], Platform: [Team] zOS 390X, Connection: 9.30.128.24:12301, Thread:1 (Runnable), CDAT1 : 01, and Process: 356724176 Program: CDAT1.
- Debug Breakpoints, Variables, Registers:** The top-right pane shows a list of variables:
 

Name	Value
W-COM-INPUT-BIRTHDATE	
W-COM-INPUT-DATE-CCYY	'1977'
W-COM-INPUT-DATE-MM	'12'
W-COM-INPUT-DATE-DD	
- Debug Source:** The bottom-left pane shows the source code for the program. Line 500 is highlighted:
 

```

500 IF W-COM-INPUT-BIRTHDATE NUMERIC
501 MOVE W-COM-INPUT-BIRTHDATE TO COM-INPUT-DATE, L-INPUT-DATE
502 MOVE 'OK' TO W-DATE-VALID-SW
503 EVALUATE TRUE
504     WHEN W-COM-INPUT-DATE-CCYY < 1582
505     WHEN W-COM-INPUT-DATE-MM < 01
506     WHEN W-COM-INPUT-DATE-MM > 12
507     WHEN W-COM-INPUT-DATE-DD < 01
508     WHEN W-COM-INPUT-DATE-DD > 31
509     WHEN W-COM-INPUT-BIRTHDATE > FUNCTION CURRENT-DATE(1:8)
            
```
- CICS Region Tasks:** The bottom-right pane displays a table of tasks for the CICS41F region:
 

Region	Task ID	Transac...	Dispatch...	User ID	Termina...
CICSC41F	0000038	CSKL	SUSP...	CICPROD	
CICSC41F	0000622	CDAT	SUSP...	TSS09	0013
CICSC41F	0000635	CWBA	RUNN...	CICSUSER	
- DTCN Profiles:** The bottom-most pane shows a table of DTCN profiles:
 

Owner	Status	Tra...	Program Id	Ses...	Session Ad...	Port#	Test...	Level	Command...	Preference...	Other...
KPHUME	Active	CDAT		TCP	9.76.151.28	8001	TEST	NONE	*	*	
TSS03	Active	MNAP	PS*	TCP	9.49.179.35	8002	TEST	ALL	*	*	
TSS09	Active	CD*	CD*	TCP	9.65.196.32	8002	TEST	ALL	*	*	
TSS16	Active	CDAT		TCP	9.65.225.132	8001	TEST	ALL	*	*	

# Fault Analyzer

The screenshot displays the IBM CICS Explorer interface with three main components highlighted by callouts:

- Fault Analysis:** Located in the top-left pane, it shows a tree view of artifacts and a detailed report for 'F05303.far'. The report includes a 'Fault Summary' and a 'Synopsis' section. A callout box labeled 'Fault Analysis' points to the synopsis text.
- Source Code:** Located in the top-right pane, it displays the source code for 'SAM2.cob'. A callout box labeled 'Source Code' points to a specific line of code: `COMPUTE BALANCE-AVERAGE = BALANCE-TOTAL / BALANCE-COUNT`.
- Abend Code Lookup:** Located in the bottom-right pane, it shows a search for '\*S0C7\*' and a detailed explanation of the '0C7' abend code. A callout box labeled 'Abend Code Explanation' points to the explanation text.

Additional callouts include 'Abend Code Lookup' pointing to the search input field and 'Source Code' pointing to the code editor.



# Application Performance Analyzer

The screenshot displays the IBM CICS Explorer interface with the Application Performance Analyzer (APA) component. The main window shows the 'APA Observations List (CAZA) - Local' table, which lists various system tasks and their performance metrics. A callout box labeled 'APA Observation List' points to this table. On the left, the 'STC View' shows a tree structure with folders for CAZA, CAZ9, CAZ7, and CAZ8. A callout box labeled 'APA Started Tasks' points to this view. Below the STC View, the 'STC Properties' window shows details for the selected task, including DSNHLQ (ADTOOLS.APAA10), Job (CAZA), Started time (2010-05-02 18:33:19), Sysplex (CAZAPLEX), and Version (10.10E). At the bottom, the 'APA Reports' section is visible, showing a 'Measurement Profile (5193/SAM1RUN)' with a bar chart for 'Overall CPU Activity'. The chart shows CPU Active at 93.5%, WAIT at 5.1%, and Queued at 1.2%. A callout box labeled 'APA Reports' points to this section.

ReqNum	Owned By	Description	Job Name	Date/Time	Samples	Status
5212	B13639	CM2 0315	TMLESH02	Mar-16 09:56	244	Ended
5211	B13639	562 D0315	TMLESH02	Mar-16 09:56	82	Ended
5210	B13639	XMITSHLD	TMLESH01	Mar-15 14:06	1,480	Ended
5208	B13639		TMLESH01	Mar-15 14:00	989	Ended
5206	B13639			Mar-15 13:58	79	Ended
5205	TSS16			Mar-12 08:38	10,000	Ended
5204	TSS16		TSS16CT	Mar-12 08:25	4,666	Ended
5195	TSS16		TSS16A	Mar-12 07:42	10,000	Steps
5194	TSS16	Threshold SAM2 > 20 sec CPU	SAM2Z	Mar-12 07:28	1,000	Thresh
5185	TSS16	Program SAM1	SAM1RUN	Mar-12 07:25	1,000	Steps
5186		0001 IKJEFT01 CUSTKSDS CHECKV		Mar-12 07:26	2	Ended
5187		0002 IEFBR14 CUSTKSDS ALLOCV		Mar-12 07:26	1	Failed
5188		0003 IDCAMS CUSTKSDS COPYV		Mar-12 07:26	1	Failed
5189		0004 IKJEFT01 CUSTKSDS CHECKV		Mar-12 07:26	2	Ended
5190		0005 IEFBR14 CUSTKSDS ALLOCV		Mar-12 07:26	1	Failed
5191		0006 IDCAMS CUSTKSDS COPYV		Mar-12 07:26	1	Failed
5192		0007 IDCAMS VERIFY		Mar-12 07:26	3	Ended
5193		0008 SAM1V RUNSAM		Mar-12 07:26	779	Ended
5184	TSS16		TSS16D	Mar-12 07:23	1,000	Ended
4984	MACHIN2	v10ref7-uc7	CICSC32F	Mar-10 07:33	99,999	Ended

# File Manager

File Manager editor  
in Table mode

**Data sets**

**MQ resources**

**USS files**

PERSONID	FIRSTNAME	SURNAME	PHONE	POSTCODE	COUNTRY	
1	100	Roscoe	Ryan	1551 213-8444	48768	Colombia
2	101	Jocelyn	Clayton	1471 343-3333	98988	Bolivia
3	102	Aina	Maasey	1741 407-3173	84888	Italy
4	103	Dolly	Killa	1738 824-8348	94000	Benode
5	104	Talon	Dickerson	1845 192-0428	52321	Spain
6	105	Realla	Medes	1895 495-8264	88444	Cuba
7	106	Orlando	Larson	1855 724-6447	44228	Burton
8	107	September	Kaya	1248 332-8840	10827	Botswana
9	108	Belle	Shaw	1788 832-3422	84887	Spain, Ireland and Netherlands Islands
10	109	Proton	Murray	1845 505-3334	42332	Reunion
11	110	Galena	Gibbs	1465 930-8878	55228	Sweden
12	111	Aidan	Beck	1442 804-2178	4233	Jamaica
13	112	Destee	Dixon	1438 171-3348	14888	New Caledonia
14	113	Beth	Morgan	1888 380-4338	83321	Burkina
15	114	Eugenia	Conzelan	1772 497-3288	16448	Ecuador
16	115	Jantina	Flecker	1481 243-8488	88714	Northern Mariana Islands

Field	Source	Type	Start	Length	Date
PERSONID	8888	SP	1	8	NO
FIRSTNAME	A(10)	SP	9	10	Jocelyn
SURNAME	A(10)	SP	19	10	Clayton
PHONE	X(14)	SP	29	14	1471 343-3333
POSTCODE	X(8)	SP	38	8	98988
COUNTRY	X(4)	SP	43	4	Bolivia

File Manager editor  
Single mode



# Workload Simulator

The screenshot displays the IBM Workload Simulator interface, divided into two main panes. The left pane, titled "Project View", shows a hierarchical tree structure. The "TEST3" folder is selected and highlighted in yellow. Under "TEST3", there is a "Test Case" folder containing a "CASE3" item. A context menu is open over "CASE3", listing actions: Open, New Test Case, Edit STL, Notes, Translate, UTBL, View, and Delete. The right pane, titled "CASE3", shows the "Test case overview" for the selected case. It contains two sections: "Test case information" and "Other information".

**Test case information**

Name:

Description:

**Other information**

Type:

Notes flag:

UTLB counts:

At the bottom of the left pane, there is an "Outline" tab with the text "An outline is not available."

# Example of DT, FA, and APA in CICS Explorer

The screenshot displays the IBM CICS Explorer interface with several key components highlighted:

- Debug Tool Views:** Located at the top left, it shows the application structure for SAM1 [Remote Compiled Application], including threads and process information.
- Variables:** A table in the top center shows the current values of variables:
 

Name	Value
BALANCE-TOTAL	+00000000.00
CUST-ACCT-BALANCE	+00000067.68
- Breakpoints:** A list on the top right shows active breakpoints for Entry [SAM2] and three statements within the ADTOOLS.ADLAB.SYSDEBUG(SAM1) and (SAM2) modules.
- Source Code:** The main window displays the source code for ADTOOLS.ADLAB.SYSDEBUG(SAM2), with line 89 highlighted:
 

```

            85 MOVE 'CALCULATING BALANCE STATS' TO WS-PROGRAM-ST
            86 *** Increment Record Count ***
            87 ADD +1 TO BALANCE-COUNT
            88 *** Add this customer's BALANCE to the grand total
            89 COMPUTE BALANCE-TOTAL =
            90     BALANCE-TOTAL + CUST-ACCT-BALANCE
            91 *** Calculate Average ***
            92 COMPUTE BALANCE-AVERAGE =
            93     BALANCE-TOTAL / BALANCE-COUNT
            94 *** Calculate Minimum ***
            95 IF WS-FIRST-TIME-SW = 'Y'
            96     MOVE CUST-ACCT-BALANCE TO BALANCE-MIN.
            97 IF CUST-ACCT-BALANCE < BALANCE-MIN
            98     MOVE CUST-ACCT-BALANCE TO BALANCE-MIN.
            
```
- Fault Analyzer Analysis:** The right pane shows a fault summary for an abend at line 89:
 

Module SAM2, program SAM2, source line # 89: Abend SOC7 (Data Exception)

**Synopsis**

IBM FAULT ANALYZER SYNOPSIS

A system abend 0C7 occurred in module SAM2 program SAM2 at offset X'39A

A program-interruption code 0007 (Data Exception) is associated with the abend and indicates that:

A decimal digit or sign was invalid.
- APA Reports:** The bottom left pane shows a list of reports, including:
  - S - Statistics/Storage
  - S01 - Measurement Profile
  - S02 - Load Module Attributes
  - S03 - Load Module Summary
  - S04 - TCB Summary
  - S05 - Memory Usage Timeline
- APA Report:** The bottom right pane displays the details for the S01 report:
 

S01: Measurement Profile (5193/SAM1RUN)

Overall CPU Activity

Category	Count	Percentage
Samples	778	100.0%
CPU Active	728	93.5%
WAIT	40	5.1%
Queued	10	1.2%

Reports: C01, C02, C03, C07, W01, W02



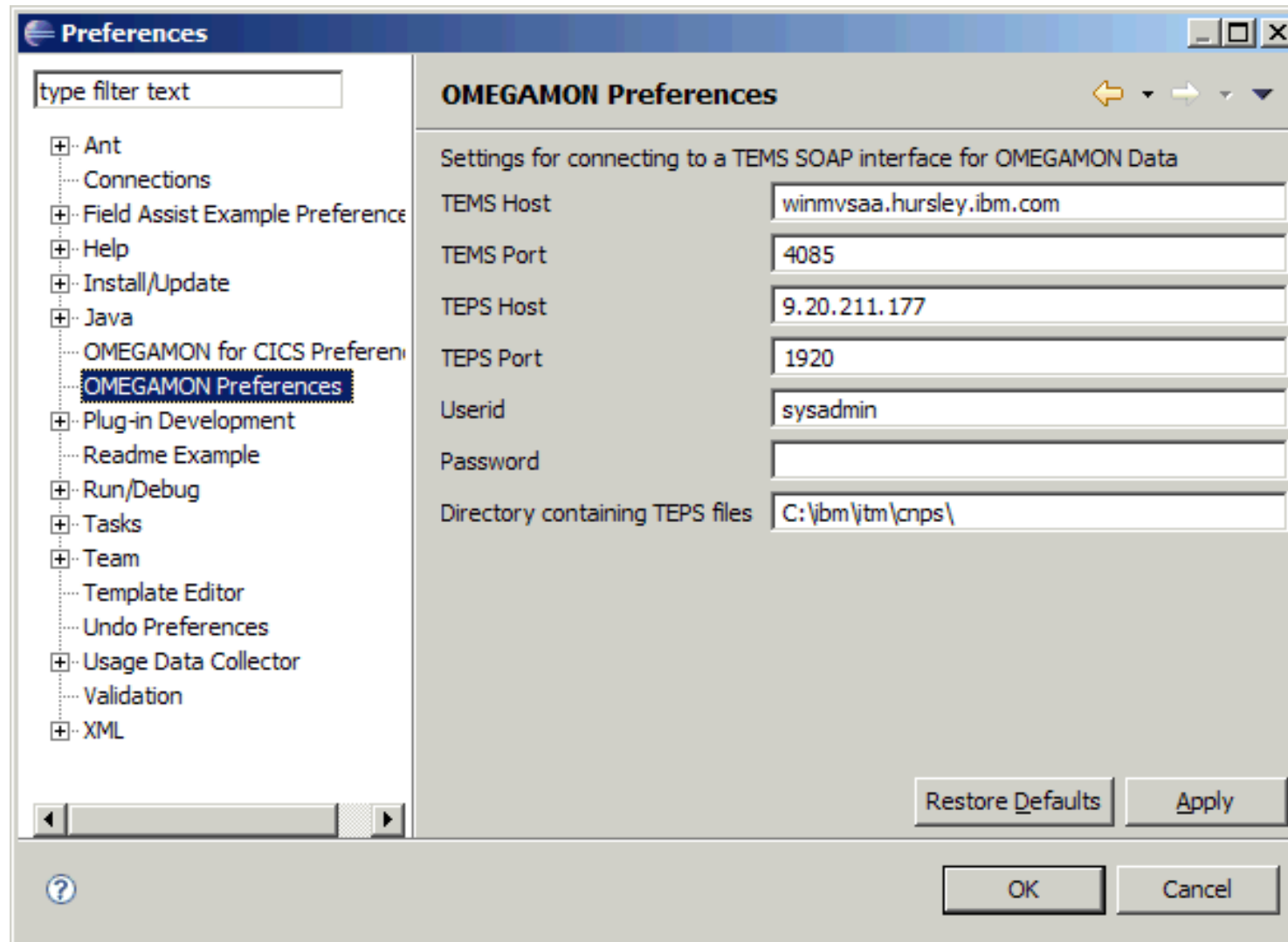
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# OMEGAMON XE for CICS



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# OMEGAMON Preferences



# OMEGAMON - Tree expanded with Transaction analysis and situations

The screenshot displays the OMEGAMON Na interface within the Eclipse Platform. The left pane shows a tree view of various analysis categories, with 'CICSplex\_Transaction\_Analysis' selected. The main area contains two data tables.

**Table 1: Transaction Analysis Data**

Origin_Node	System_ID	CICS_Name	Transaction_ID	Task_Number	Termid	CICS_SYSIDNT	User_ID
MV2C.WUIJT4A	MV2C	WUIJT4A	CSOL	00004	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00005	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00006	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSTP	00008	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CONL	00019	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00020	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSHQ	00022	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSNE	00024	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CISR	00025	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CISE	00026	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	COVG	00028	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	COIO	00181	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	COIE	00182	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	COVA	00273	n/a	JT4A	JT1

**Table 2: OMEG Situation View Data**

HSITNAME	HNODE	ATOMIZE	HGBLTMTMP	HLCLTMTMP	HORIGINNODE	PATHNAME	TYPE	HC
Crypto_Service_...	WALKER:CMS		109022016002...	109022016002...	MVSAA:MVA...		0	
Crypto_Internal...	WALKER:CMS		109022016002...	109022016002...	MVSAA:MVA...		0	
Sysplex_DASD_...	WALKER:CMS		109022016095...	109022016095...	MVSAA:MVS:SY...		0	

# OMEGAMON Tree collapsed with Transaction analysis and situations

The screenshot displays the CICS SM - Eclipse Platform interface. On the left, the OMEGAMON Na tree is collapsed, showing a hierarchy from Enterprise down to z/OS. The main area is divided into two tables.

**OMEG Table View**

Origin_Node	System_ID	CICS_Name	Transaction_ID	Task_Number	Termid	CICS_SYSIDNT	User_ID
MV2C.WUIJT4A	MV2C	WUIJT4A	CSOL	00004	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00005	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00006	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSTP	00008	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CONL	00019	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00020	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSHQ	00022	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CSNE	00024	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CISR	00025	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	CISE	00026	n/a	JT4A	n/a
MV2C.WUIJT4A	MV2C	WUIJT4A	COVG	00028	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	COIO	00181	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	COIE	00182	n/a	JT4A	JT1
MV2C.WUIJT4A	MV2C	WUIJT4A	COVA	00273	n/a	JT4A	JT1

**OMEG Situation View**

HSITNAME	HNODE	ATOMIZE	HGBLTMSTMP	HLCLTMSTMP	HORIGINNODE	PATHNAME	TYPE	HC
Crypto_Service_...	WALKER:CMS		109022016002...	109022016002...	MVSAA:MVA:...		0	
Crypto_Internal...	WALKER:CMS		109022016002...	109022016002...	MVSAA:MVA:...		0	
Sysplex_DASD_...	WALKER:CMS		109022016095...	109022016095...	MVSAA:MVS:SY...		0	



# OMEGAMON - Explorer and OMEGAMON transactions with region

CICS SM - Eclipse Platform

File Edit Navigate Search Project Operations Administration Field Assist Run AD Window Help

CICSplex Explorer Groups OMEGAMON Navigat

Server: IYK3ZJT4

Tasks Connections Terminals Files Transactions

CNX0211I Scope: IYK3ZJT4. Resource: TASK. 6 records collected at 27-Feb-2009 10:47:25

Region	Task ID	Transaction ID	Run Status	User ID	Terminal ID	LU Name	Priority	Class Name	Suspend Time
IYK3ZJT4	0000019	CONL	RUNNING	JT1			255	DFHTCL00	0000:00:00
IYK3ZJT4	0000028	COVG	SUSPEN...	JT1			255	DFHTCL00	0000:00:14
IYK3ZJT4	0000181	COI0	SUSPEN...	JT1			255	DFHTCL00	0000:00:00
IYK3ZJT4	0000182	COIE	SUSPEN...	JT1			255	DFHTCL00	0000:00:08
IYK3ZJT4	0000273	COVA	SUSPEN...	JT1			150	DFHTCL00	0000:00:00
IYK3ZJT4	0000295	COVP	SUSPEN...	JT1			75	DFHTCL00	0000:00:00

Regions

CNX0211I Scope: IYK3ZJT4. Resource: CICSRGN. 1 records collected at 27-Feb-2009 10:47:25

Region	Job Name	MVS System ID	Task Count	CICS Status	Release	Total CPU	Page In Count	Page Out Co...	I/O Count
IYK3ZJT4	WUIJT4A	MV2C	6	ACTIVE	0650	0000:01:38....	1576	13543	12984

Events Properties Error Log Console OMEG Situation View OMEG Table View

Origin_Node	System_ID	CICS_Name	Transaction_ID	Task_Number	Termid	CICS_SYSIDNT	User_ID	Statu
MV2C.WUIJT4A	MV2C	WUIJT4A	CSOL	00004	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00005	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00006	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSTP	00008	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CONL	00019	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00020	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSHQ	00022	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSNE	00024	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CISR	00025	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CISE	00026	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COVG	00028	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COI0	00181	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COIE	00182	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COVA	00273	n/a	JT4A	JT1	Activ

Default WUI server from EYUDREP initialization

Ctrl Contrib (Bottom) JT Systems

# OMEGAMON - Explorer and OMEGAMON transactions

CICS SM - Eclipse Platform

File Edit Navigate Search Project Operations Administration Field Assist Run AD Window Help

Open Editor

CICSplex Explorer Groups OMEGAMON Navigat

Server: IYK3ZJT4

JTPLEX2 (1/1)

IYK3ZJT4 (IYK3ZJT4)

Regions Tasks Connections Terminals Files Transactions

CNX0211I Scope: IYK3ZJT4. Resource: TASK. 6 records collected at 26-Feb-2009 18:26:52

Region	Task ID	Transaction ID	Run Status	User ID	Terminal ID	LU Name	Priority	Class Name	Suspend Time
IYK3ZJT4	0000019	CONL	▶ RUNNING	JT1			255	DFHTCL00	0000:00:00
IYK3ZJT4	0000028	COVG	▢ SUSPEN...	JT1			255	DFHTCL00	0000:00:05
IYK3ZJT4	0000181	COIO	▢ SUSPEN...	JT1			255	DFHTCL00	0000:00:00
IYK3ZJT4	0000182	COIE	▢ SUSPEN...	JT1			255	DFHTCL00	0000:00:00
IYK3ZJT4	0000187	COVA	▢ SUSPEN...	JT1			150	DFHTCL00	0000:00:00
IYK3ZJT4	0000219	COVP	▢ SUSPEN...	JT1			75	DFHTCL00	0000:00:00

Events Properties Error Log Console OMEG Situation View OMEG Table View

Origin_Node	System_ID	CICS_Name	Transaction_ID	Task_Number	Termid	CICS_SYSIDNT	User_ID	Statu
MV2C.WUIJT4A	MV2C	WUIJT4A	CSOL	00004	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00005	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00006	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSTP	00008	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CONL	00019	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSSY	00020	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSHQ	00022	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CSNE	00024	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CISR	00025	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	CISE	00026	n/a	JT4A	n/a	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COVG	00028	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COIO	00181	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COIE	00182	n/a	JT4A	JT1	Activ
MV2C.WUIJT4A	MV2C	WUIJT4A	COVA	00187	n/a	JT4A	JT1	Activ

Ctrl Contrib (Bottom) JT Systems



IBM Software Group

# WebSphere MQ



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# MQ Explorer within CICS Explorer

**Custom perspective**

The screenshot displays the IBM CICS Explorer interface with the MQ Explorer perspective. The interface includes a left-hand tree view, a top toolbar, and several data panels. A yellow callout box labeled 'Custom perspective' points to the tree view. Red circles and arrows highlight specific elements: 'QJ2F' in the MQ Connections table, 'CICS01.INITQ' in the MQ Initiation Queues table, and 'CICS01.INITQ' in the Queues table.

**MQ Connections Table:**

Region	Name	Connectst	Mqname	Mqmgr	Mqrelease	Mqginitq	Tasks
REDDEV41	MQC	CONNECTED	QJ2F	QJ2F	0701	CICS01.INITQ	

**MQ Initiation Queues Table:**

Region	Initqname
REDDEV41	CICS01.INITQ

**MQ Connection Statistics Table:**

Region	Name	Connection Status	Mqconnect	Mqginitq	Mqgtasks
REDDEV41	QJ2F	CONNECTED	MQC	CICS01.INITQ	1

**Queues Table:**

Queue name	Queue type	QSG disposit...	Open inp...	Open out...	Current que...	Max queue depth	Pu
CICS01.INITQ	Local	Queue mana...	1	0	0	100	All
CSQ4SAMP.B1.MODEL	Model	Queue mana...				999999999	All
CSQ4SAMP.B2.INQUIRY	Local	Queue mana...	0	0	0	999999999	All
CSQ4SAMP.B2.OUTPUT.ALIAS	Alias	Queue mana...					All
CSQ4SAMP.B2.REPLY.1	Local	Queue mana...	0	0	0	999999999	All
CSQ4SAMP.B2.REPLY.2	Local	Queue mana...	0	0	0	999999999	All



# MQ Explorer within CICS Explorer

The screenshot displays the IBM CICS Explorer application. The left-hand pane shows the 'MQ Explorer - Navigator' tree structure, including 'Queue Managers', 'Queues', 'Channels', 'Client Connections', 'Listeners', 'Process Definitions', 'Namelists', 'Authentication Information', 'Storage Classes', 'QM\_joe on 'brahms.hursley.ibm.com(30'', 'Queue Manager Clusters', and 'JMS Administered Objects'. The main pane shows the 'MQ Explorer' view with a 'CICS01.INITQ - Status' dialog box open. The dialog displays the following information:

Queue Manager Name: QIZF Queue Name: CICS01.INITQ

Queue status for the queue "CICS01.INITQ":

Queue name	CICS01.INITQ
Current queue depth	0
Open input count	1
Open output count	0
Uncommitted messages	No
QSG disposition	Queue manager

Queue handle status for the queue "CICS01.INITQ":

V ID	ASID	PSB name	PST ID	Transaction ID	Task number
ID[] XA_GTRID[] XA_BQUAL[]	0077			CKTI	0000032

Scheme: Standard for Queue Handle Status - z/OS  
Last updated: 17:25:18

Below the dialog, a table lists queue information:

Queue name	Queue type	QSG disposit...	Open inp...	Open out...	Current que...	max queue depn
CICS01.INITQ	Local	Queue mana...	1	0	0	100
CSQ4SAMP.B1.MODEL	Model	Queue mana...				999999999
CSQ4SAMP.B2.INQUIRY	Local	Queue mana...	0	0	0	999999999
CSQ4SAMP.B2.OUTPUT_ALIAS	Alias	Queue mana...				
CSQ4SAMP.B2.REPLY.1	Local	Queue mana...	0	0	0	999999999

Scheme: Standard for Queues - z/OS  
Last updated: 17:25:18

At the bottom of the window, a status bar indicates: 'CNX0100I Connected user KNOTSON to host WINMVS2F.hursley.ibm.com on port 8005' and 'Redbook CMCI'.