

Presentation Objectives

- What is CICS Explorer?
- Why use CICS Explorer?
- Installation and Configuration
- CICS Explorer Workspace Logistics
- Deployment Considerations
- Hypothetical Deployment Example
- Basic Navigation
- Summary

What is CICS Explorer?



IBM (YouTube.com)

New Face CICS - The CICS Explorer

IBM has "No plans to make this a chargeable product"

New graphical tooling interface for CICS

- Eclipse Based
- Connects to CICS via the CICSPlex Web User Interface (WUI) System Task
- Utilizes the existing CICSPlex RACF Security rules
- Provides:
 - A scalable/intuitive way to manage your CICS environment
 - The ability to create customizable task-oriented views
 - Single view of CICS tools
 - Rich set of CICS views

CICS Releases and Availability

- CICS TS V3.1 (Free IBM SupportPac PTFs Required)
- CICS TS V3.2 (Free IBM SupportPac PTF Required)
- CICS TS V4.1 and Beyond (Free orderable component)

Why use CICS Explorer?

Capabilities

- User friendly
 - Easy to find what you are looking for
 - You are able to dynamically/easily/quickly manipulate your screen, so that you are only a few clicks away from the information, you REALLY want to see at any given time
- Expandable, via Plug-ins
 - For Shops that have CICS Tools, Explorer provides an integrated view
 - Even for Shops without CICS Tools, Explorer provides an integrated view of their CICS Environment
- CICS Explorer can be used to perform many, but not ALL Administration Functions, when connecting to a CICS TS v4.x Region, via a CMCI (CICS Management Client Interface) Connection

IBM Direction

- IBM has made a significant commitment to Explorer
 - New releases GA approximately every 90 days
 - IBM has setup an Explorer Forum, for users to comment and request enhancements
 CICS Explorer forum
 - From a Changing workforce perspective, IBM feels that Explorer will help shorten the learning curve for new IT Professionals

- IBM CICS Explorer Download Site and Options
 - http://www-01.ibm.com/software/htp/cics/explorer/download/
 - You will see downloads for the following

Since Explorer is Eclipse based anyone could build a Plug-in for it

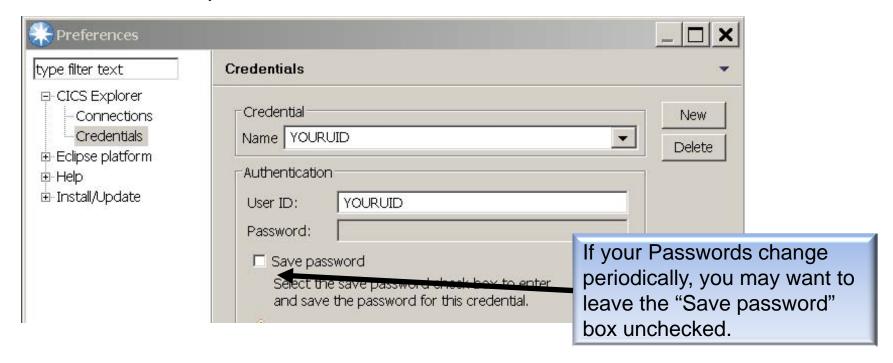
For Linux/Windows:

- Base CICS Explorer
- CICS CM Plug-in (Configuration Manager)
- CICS DA Plug-in (Deployment Assistant)
- CICS IA Plug-in (Interdependency Analyzer)
- CICS PA Plug-in (Performance Analyzer)
- IBM Session Manager Plug-in
- CICS Transaction Gateway Plug-in

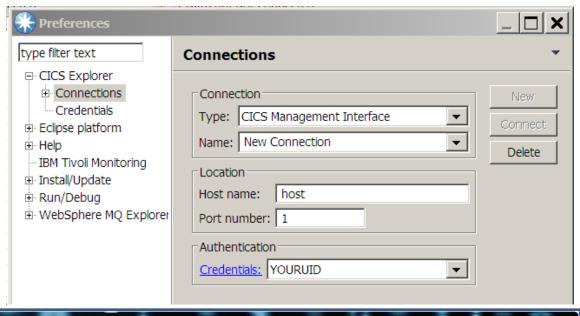
Other Downloads		
Description	Link	
File Manager SupportPac CN0M	<u>Link to</u> <u>SupportPac</u>	
SupportPac CS1Q: CICS Explorer and WebSphere MQ Explorer integration	<u>Link to</u> <u>SupportPac</u>	
OMEGAMON XE for CICS plug-in	Link to OPAL	
Debug Tool SupportPac CN0D	<u>Link to</u> <u>SupportPac</u>	
Fault Analyzer SupportPac CN0F	<u>Link to</u> <u>SupportPac</u>	
Application Performance Analyzer SupportPac CN0A	<u>Link to</u> <u>SupportPac</u>	

After the Base and appropriate Plug-ins are installed you can connect to Any/All of the above

- Setting up CICS Explorer Credentials
 - The README file details the steps
 - Credentials contain user information that will be used by Connections
 - This is an example of a Credential:



- Setting up CICS Explorer Connections
 - You will have a Choice of three Connection Types
 - System z FTP (Required for the System z/OS Perspective)
 - CICS Management Interface (CMCI) Connection, Admin CICS WUI v4.1+
 - CICSPlex SM Data Interface (Read Only Connection)
 - This is an example of a CMCI Connection definition:
 - Name: Can be changed to anything you want
 - Host name: TCP/IP host name of your CICSPlex SM WUI server or your stand-alone CICS region
 - Port number: CMCI port configured for your WUI Server
 - Credentials dropdown: Point to any Credential you created



- CICSPlex WUI Connections
 - You connect via Explorer as a WUI User
 - Authentication takes place just as if you were logged onto the WUI
 - The Same Security rules apply
 - Explorer "respects" WUI Parms such as DEFAULTWARNCNT
 - CICS Explorer will not let you exceed DEFAULTWARNCT. You will see the following in the Lower Left-hand corner of the screen:



 CICS Explorer will not display any information (ex: Terminal Details) till you filter to a result set that is smaller than the WUI DEFAULTWARNCT

- Starting Explorer for the first time
 - The workbench starts and the Welcome View is displayed



Click on an icon to go to the desired Explorer target

You can re-open the Welcome View at any time by Selecting

Help > Welcome

From the workbench menu bar.

Note: A CICS
Explorer Workspace
is Created the first
time you launch
Explorer

CICS Explorer Workspace Logistics

- What is the CICS Explorer Workspace?
 - As with a traditional Eclipse workbench, CICS Explorer stores all user specific information in the users CICS Explorer Workspace.
 - The user specific information includes:
 - Credentials

- Connections
- etc.

Last display

- CICS Event

Processing Projects

- Default Location: "C:\Documents And Settings\username\.cicsexplorer"
- You can have more than one instance of Explorer running concurrently.
 - Each instance must have its own workspace.
 - Example to start a new instance from a command line
 - Change to the directory folder cicsexplorer.exe is installed in
 - Type the following command:

cicsexplorer.exe -data "C:\Documents And Settings\username\.cicsexplorer2" Note: This starts the new instance using a new .cicsexplorer2 workspace

Deployment Considerations

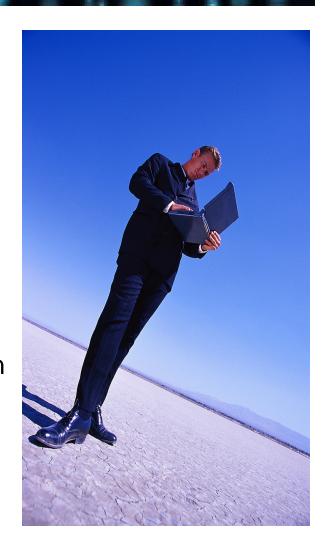
- Intended Users
 - Number of users
 - Current WUI Users
 - User Type (Administrators, Read Only, Mixed)
 - Will certain groups use Plug-ins?
 - User Support
- Upgrade Administration
 - Frequency (New Releases Every 90 Days)
 - Upgrade method
 - Full Replacement
 - Automatic Update
 - Archive Site File
 - Plug-in Upgrades





Deployment Considerations

- Installation Specific Audit Requirements
 - Change Control
 - Processes and Procedures
 - Service Level Agreements
- Workspace Administration
 - Backup
 - Recovery
 - Connection Administration
 - CICS Event Processing Project Administration



Intended Users

- Migrate the Current WUI users (1,000+) to CICS Explorer
- User Types Include:
 - System Programmers
 - Operators

- Application Developers
- Offshore Personnel
- Some User Types will use appropriate Plug-ins
- Note: Not all users will have an IBMLINK ID or PC Admin Rights

Upgrade Administration

 Due to Release Frequency, Installation Audit Requirements, and Plugin upgrade considerations, the Archive Site File Upgrade Method is chosen

Note: This example is intended to highlight issues that MIGHT arise, with a given deployment method. Much will depend on Installation Specific factors.

- Installation Specific Audit Requirements
 - Strict Change Control guidelines must be adhered to, for all Deployment and Upgrade activities.
 - The CICS Explorer SLA availability target is 24x7/365
- Workspace Administration Criteria
 - Provide workspace Backup and Recovery
 - Provide Central control for Connection Administration
 - CICS Event Processing Project Administration is not currently an issue

- Option One Local on Each User Workstation
 - Each user has an individual copy installed on their workstation

Advantages

Fastest connect time

- No Central Administration
 - No control of Local user versions
 - Connections must be managed by each user
 - No control of Plug-ins
 - No central method for upgrades or fixes
 - Problematic user support
- IBMLINK ID or Central download point Required
- No Central support for CICS Explorer Workspace backup/restoral

- Option Two Shared Network Drive
 - Installed/Accessed from a Shared Network Drive

Advantages

- Partial Central Administration
 - Version
 - Updates
 - Plug-ins
- No need for a central download point

- Due to installation specific Network Architecture, Connection time is approx 2 hours
- Response time, after connect severely degraded
- No Central Connection Admin
- No Central support for CICS Explorer Workspace backup/restoral
- Security level available unacceptable
- Instance for offshore staff would require unique administration
- Subject to Shared Drive Failure

- Option Three Linux
 - Installed on z/Linux, utilizing z/VM

Advantages

- Full Central Administration
 - Version
- Updates
- Plug-ins
 - Connections
- No need for a central download point
- Central support for CICS Explorer Workspace backup/restoral

- Workstation client required
- Currently not supported by IBM
 - The Base CICS explorer package contains compiled intel platform Linux code. It's not distributed as purely Java. It can't be used for Linux on zSeries w/o modifying it in a method currently not supported by IBM

- Option Four Streamed Isolated Environment
 - Runs in an isolated environment like a tunnel, between the user workstation and the Citrix servers. The app is not physically installed in the Citrix server but it runs and grabs the necessary files (such as registry keys, DLLs,etc) as it needs them. Screen updates and user keystrokes are sent back and forth via the isolated environment.

Advantages

- Partial Central Administration
 - Version
 - Updates
 - Plug-ins
- No need for a central download point

- No Central Connection Admin
- Connection time a minute and a half
- No Central support for CICS Explorer Workspace backup/restoral
- Unstable
 - Multiple errors encountered while testing this option

- Option Five Citrix Server
 - Installed on a Network (Citrix) Server

Advantages

- Full Central Administration
 - Version
- Updates
- Plug-ins Connections
- No need for a central download point
- Central support for CICS Explorer Workspace backup/restoral
- Response time (after connection) mirrors Local Workstation option
- Highly Secure
- Server supported by the Citrix Group
- Ability to Leverage Citrix Scripting

- Workstation client required
- Connection time 45 seconds

Citrix Server Deployment Diagram

Citrix One

SysProg (Primary)

Citrix Four

SysProg (Backup)

Citrix Two

- Oper A (Primary)
- Oper B (Backup)

Citrix Five

- Oper A (Backup)
- Oper B (Primary)

Citrix Three

- Dev A (Primary)
- Dev B (Backup)
- Dev C (Backup)

Citrix Six

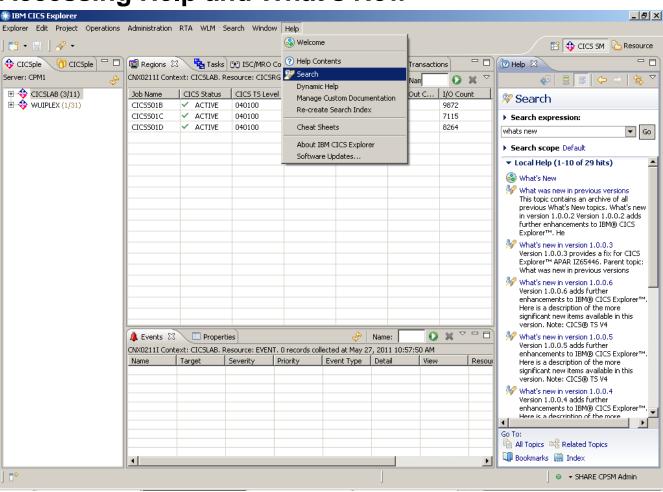
- Dev A (Backup)
- Dev B (Primary)
- Dev C (Primary)

Citrix Scripting – CICS Explorer Workspace Administration

- A "Master" workspace, containing all the Connections and starting credentials is uploaded to each Server
- Each time a user logs on, Citrix Logon scripting checks for:
 - The users workspace. If none is found, the "Master" is copied to the users directory
 - A "Newer" (Date/Time) "Master" workspace. If the "Master" is newer than the users workspace, the
 users workspace will be replaced with a copy of the new "Master"

Basic Navigation (Help and What's New)

Accessing Help and What's New

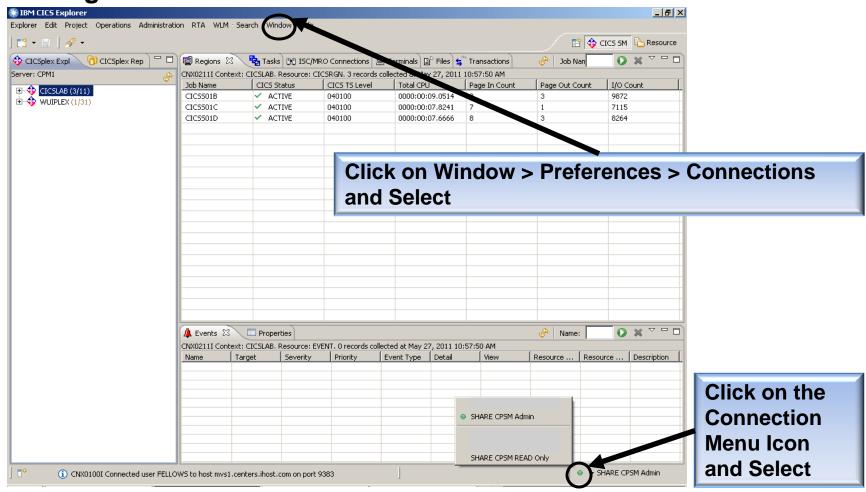


The frequency of New CICS Explorer Releases makes the Internal Help function a great (UTD) information source.

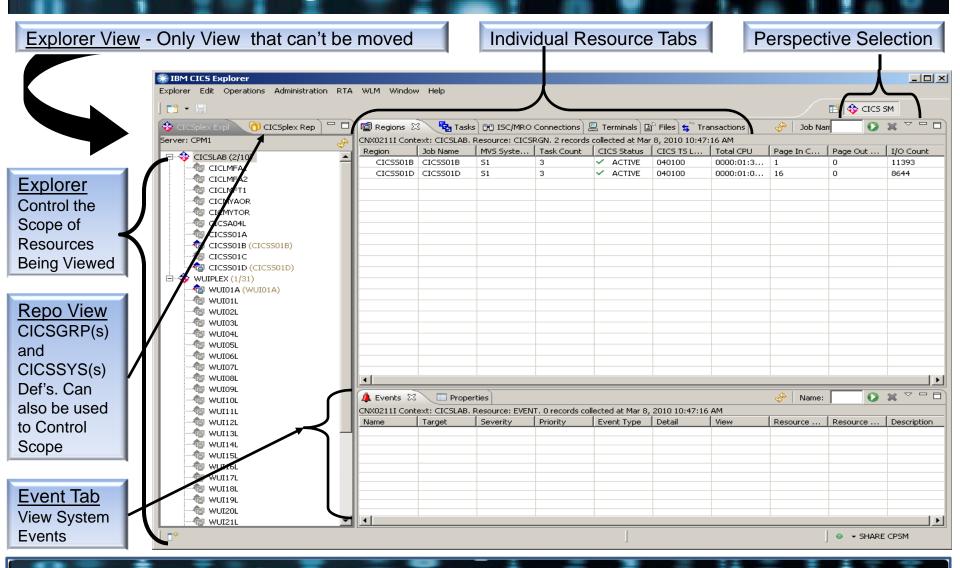
Each New Release includes a "What's New" section, detailing new functionality

Basic Navigation (Connections Menu)

Accessing the Connections Menu



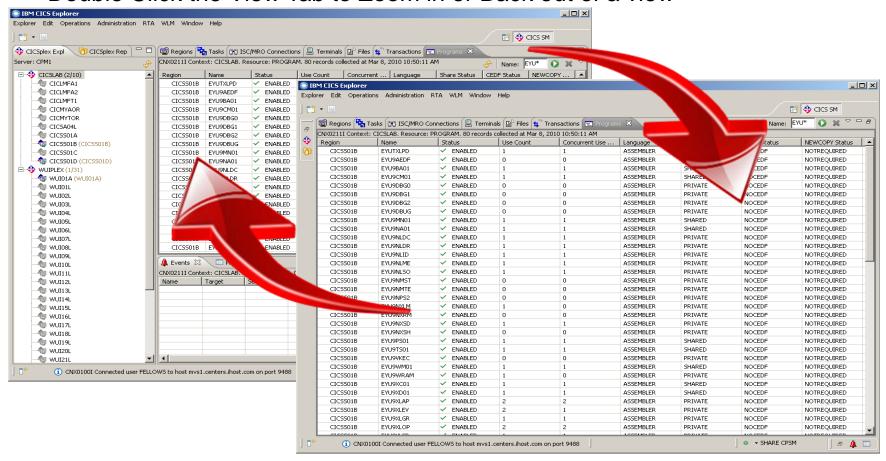
Basic Navigation (Default Perspective)



Basic Navigation (Zoom in and Out)

Zoom In/Out of a View

Double Click the View Tab to Zoom in or Back out of a view



Basic Navigation (Manipulating a View)

Resizing a View

Float the Cursor over the inside edge of the view until it changes to a Double-Ended arrow.

Drag the edge to the desired size

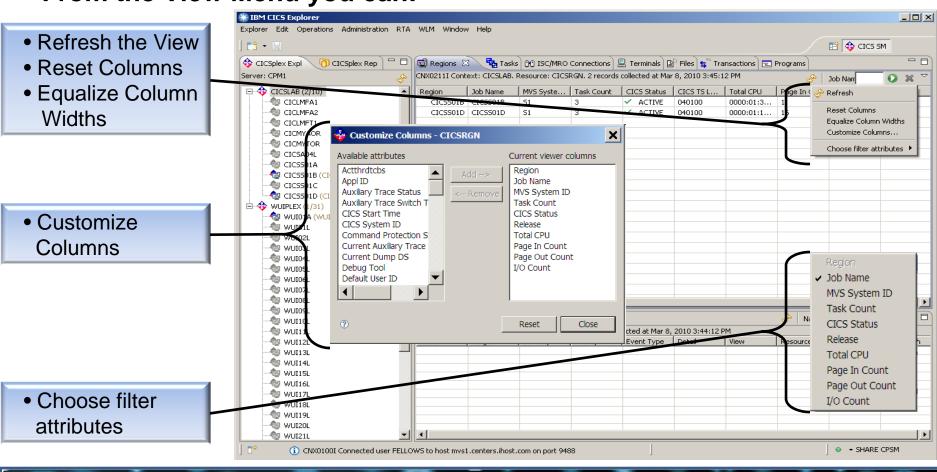
Moving a View

- Position the Cursor on the Tab of the View you want to move
- Drag it to the area of the screen you want to position it in.
 - Your cursor will change to one of the following, indicating where the screen will be positioned.

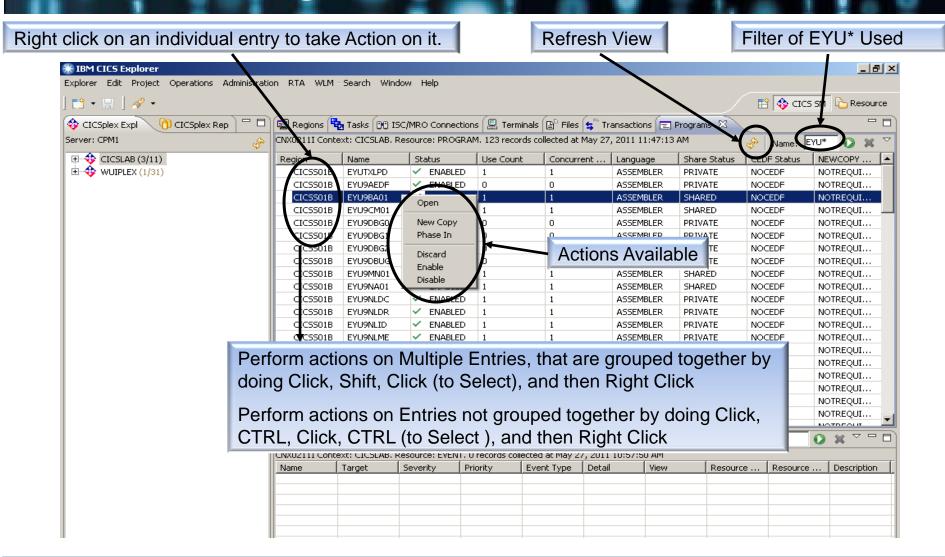
[Cursor	Where the View will be moved
	1	Position above the Current View (the View that is underneath the cursor)
	1	Position Below the Current View
	→	Position to the Right of the Current View
	←	Position to the Left of the Current View
	合	Stack: The View is stacked as a Tab in the Current View
	0	Restricted: Can't be positioned in Current Area
	⊞	Open a New Window. Drag outside the workbench to position in a new window. Note: Click on the New Window and Drag Back to position it back

Basic Navigation (Working with Columns)

- Move Column Click on Column and Drag to the Desired Location
- From the View Menu you can:



Basic Navigation (Operations Tasks)



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