



An introduction to the CICS Explorer™

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Important Disclaimer

The following General Statement of Direction was included in the z/VSE 5.1 preview announcement letter dated 12th April 2011:

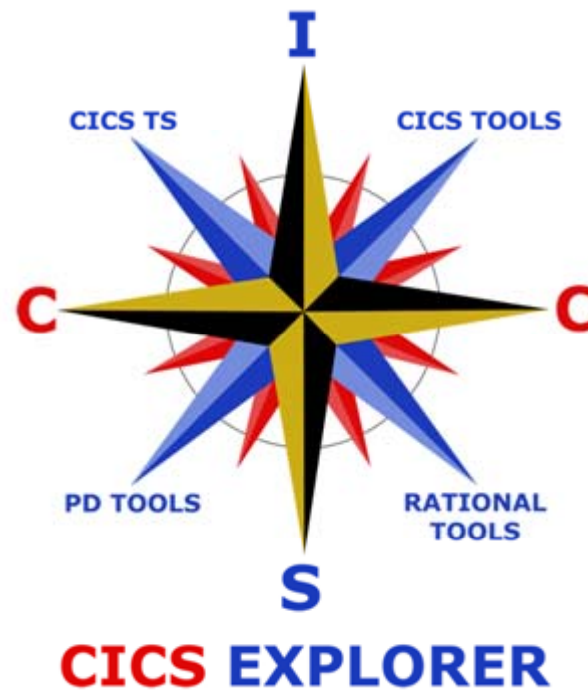
IBM intends to provide CICS Explorer™ capabilities for CICS TS for VSE/ESA, to deliver additional value.

Note: All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

The information contained in this presentation is based on the functionality of the CICS Explorer™ product that is supplied for use with CICS TS for z/OS 4.1, and as such, is not to be taken as an announcement of function and capability for a version of the CICS Explorer™ that may be made available to run with CICS TS for VSE/ESA.

Agenda

- What is the CICS Explorer™?
- A simple CICS Explorer™ session



What is the CICS Explorer™?

- The CICS Explorer™ is a PC and Linux desktop program that provides a scalable and intuitive way to manage one or more CICS TS for z/OS regions (c.f. Partitions) through a single GUI.
- It is not installed on a PC like a normal product, it is a series of files, which includes the `cicsexplorer.exe`, hence a server installation with remote execution is also possible.
- The region may be stand-alone or part of collection within a CICSplex, or even within a collection of CICSplexes.
- CICSplex provides a single-image view of a set of connected CICS regions and requires CICSplex Systems Manager (CPSM), which is a standard component of CICS TS for z/OS.

What is the CICS Explorer™?

- It is based on the Eclipse Rich Client Platform (RCP).
- It is extensible via a Java-based SDK, which can be used to create plug-ins.
- Many useful z/OS plug-ins are available, for example, to the CICS Performance Analyzer, Omegamon XE and the CICS Interdependency Analyzer.

What is the CICS Explorer™?

The screenshot shows the IBM CICS Explorer product page. At the top, there's a navigation bar with the IBM logo, a search bar, and location links for 'United States' and 'United Kingdom'. Below this is a secondary navigation bar with links for 'Home', 'Solutions', 'Services', 'Products', 'Support & downloads', and 'My IBM'. A welcome message for 'MICHAEL POIL' is visible.

The main content area is titled 'CICS Explorer' and includes a breadcrumb trail: 'Software > Host Transaction Processing > CICS family > CICS-Transaction Server >'. A prominent banner from Redbooks reads 'Extend the CICS Explorer: A better way to manage your CICS' with a 'Download Redbook' link.

On the left, there's a sidebar with 'CICS Explorer' links (Features and benefits, System requirements, Library, News) and 'IBM Software products' with a 'Find products' button and a search box.

The main text area has an 'Overview' section titled 'IBM CICS Explorer - New Face of CICS. Integration point for CICS tooling with rich CICS views, data, methods.' It includes a 'Click here to get CICS Explorer Free Product Download' button and a paragraph about accelerating knowledge transfer. A bulleted list of features follows, such as 'Common, intuitive, Eclipse-based environment' and 'Task-oriented views'. A 'View features and benefits' link is provided.

Below the overview is a 'Redbook' section with a link to 'An Introduction to CICS Explorer'.

The right sidebar, 'We're here to help', offers 'Request a quote', 'E-mail IBM', and contact information: 'Or call us at: 877-426-3774' and 'Priority code: 109HH03W'. It also lists 'CICS Explorer additional downloads' (Demo, Podcast series, Download) and 'Highlights' (Poster, Announced).

How does it connect?

- For a stand-alone region, CICS TS for z/OS has the System Managed Single Server (SMSS) interface to avoid the need for the full CPSM configuration, which has a Web User Interface (WUI) connection.
- The stand-alone region contains a TCPIP SERVICE with a port number that is different to any other TCPIP SERVICE definitions.
- The CICS Explorer™ is configured with the appropriate IP address or host name, a port number and a z/OS userid and password for security.

Using the CICS Explorer™

- The following slides show a small amount of the potential of the CICS Explorer™ to extract and display data.
- The Redbook IBM CICS Explorer SG24-7778 has much more detail on how to use the interface in chapter 5, as well as detailed information on plug-ins etc.

A Simple CICS Explorer™ Session - start the exe

The screenshot displays the IBM CICS Explorer application window. The main interface is partially obscured by a 'Signon' dialog box. The dialog box is titled 'Signon' and contains the following elements:

- CICS Management Interface: MVS20**
- User ID:** POILMIK
- Password:** [masked with dots]
- Save password
- Warning: Saved passwords are stored on your computer in a file that is difficult, but not impossible, for an intruder to read.
- Buttons: OK, Cancel

The background interface shows the CICS Explorer window with the following components:

- Menu Bar:** Explorer, Edit, Project, Operations, Administration, RTA, WLM, Search, Window, Help
- Toolbar:** CICS SM, CICSplex Explorer, CICSplex Repositories, Regions, Tasks, ISC/MRO Connections, Terminals, Files, Transactions, TD Queues, Transaction Definitions, File Definitions
- Table 1 (Regions):**

Region	Name	Status	Open Status	Add	Browse	Delete	Read	Update	LSR Pool ID	DS Name
- Table 2 (Events):**

Name	Target	Severity	Priority	Event Type	Detail	View	Resource Type	Resource Name	Description
- Status Bar:** Connecting ... [IYCKZCDU], CNX0102I Connecting ...

A Simple CICS Explorer™ Session - select Region

The screenshot displays the IBM CICS Explorer application window. The main area shows a table of CICS regions. The selected region is IYCKZCDU, which is currently ACTIVE. Below the table, an event log shows a warning message: 'CNX0221W Resource type 'Event' (EVENT) unsupported'.

Regions Table:

Region	Job Name	MVS System ID	Task Count	CICS Status	CICS TS Level	Total CPU	Page In Count	Page Out Count	I/O Count
IYCKZCDU	COMKZCDU	MV20	4	✓ ACTIVE	040100	0000:00:32.5...	0	0	179705

Events Table:

Name	Target	Severity	Priority	Event Type	Detail	View	Resource Type	Resource Name	Description
CNX0221W		Warning		Event	Resource type 'Event' (EVENT) unsupported				

Status Bar: CNX0100I Connected user POILMIK to host winmvs20.hursley.ibm.com on port 11490 | IYCKZCDU

A Simple CICS Explorer™ Session- select Tasks

The screenshot shows the IBM CICS Explorer application window. The main pane displays a table of tasks for the context 'IYCKZCDU'. The table has the following data:

Region	Task ID	Transaction ID	Dispatch Status	User ID	Terminal ID	LU Name	Priority	Class Name	Suspend Time
IYCKZCDU	0000074	CEMT	SUSPENDED	CICSUSER			255	DFHTCL00	0:30:26
IYCKZCDU	0000217	CEDA	SUSPENDED	CICSUSER			1	DFHTCL00	0:36:52
IYCKZCDU	0000480	STAT	SUSPENDED	CICSUSER			1	DFHTCL00	0:30:14
IYCKZCDU	0000621	CWWU	RUNNING	CICSUSER			1	DFHTCL00	0:00:00

Below the table, the 'Events' pane shows a message: 'CNX0221W Resource type 'Event' (EVENT) unsupported'. The status bar at the bottom indicates 'CNX0100I Connected user POILMIK to host winmvs20.hursley.ibm.com on port 11490' and the current context is 'IYCKZCDU'.

A Simple CICS Explorer™ Session - right click

The screenshot displays the IBM CICS Explorer application window. The main area shows a table of tasks for region IYCKZCDU. A context menu is open over the row with Task ID 00004000, showing options: Open, Search, and Purge.

Region	Task ID	Transaction ID	Dispatch Status	User ID	Terminal ID	LU Name	Priority	Class Name	Suspend Time
IYCKZCDU	0000074	CEMT	SUSPENDED	CICSUSER			255	DFHTCL00	0:30:26
IYCKZCDU	0000217	CEDA	SUSPENDED	CICSUSER			1	DFHTCL00	0:36:52
IYCKZCDU	00004000	STAT	SUSPENDED	CICSUSER			1	DFHTCL00	0:30:14
IYCKZCDU	00006000	WWU	RUNNING	CICSUSER			1	DFHTCL00	0:00:00

Below the task list, the Events pane shows a message: "CNX0221W Resource type 'Event' (EVENT) unsupported".

Name	Target	Severity	Priority	Event Type	Detail	View	Resource Type	Resource Name	Description

A Simple CICS Explorer™ Session - open

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

- Left Pane:** Shows the server hierarchy: Server: CICS > IYCKZCDU (1/1).
- Top Center Pane:** Displays a table of tasks for the selected context. The table has columns for Region, Task ID, Transacti..., Dispatch..., and User ID.
- Bottom Center Pane:** Shows an error message: "CNX0221W Resource type 'Event' (EVENT) unsupported". Below the message is a table with columns for Name, Target, Severity, Priority, and Event Type.
- Right Pane:** Displays the "Attributes" for the selected task (0000480). It lists various system attributes and their values.

Task List Table:

Region	Task ID	Transacti...	Dispatch ...	User ID
IYCKZCDU	0000074	CEMT	SUSPE...	CICSUSER
IYCKZCDU	0000217	CEDA	SUSPE...	CICSUSER
IYCKZCDU	0000480	STAT	SUSPE...	CICSUSER
IYCKZCDU	0000621	CWWU	RUNNI...	CICSUSER

Attributes Table:

Correuow	C7C2C9C2D4C9E8C14BC9E8C3D2E3C3F1F7926A3E7F906E
CPU Time	0000:00:00.000000
Currentprog	DFHOSTAT
DB2 Conwt	0000:00:00.000000
DB2 Plan	
DB2 Rdyqw	0000:00:00.000000
DB2 Reqct	0
DB2 Wait	0000:00:00.000000
Dettrantype	NONE
Dfhchnl 329	0
Dfhsock 292	0
Dfhsock 293	0
Dfhstor 033	0
Dfhstor 087	0
Dfhstor 106	0
Dfhstor 108	0
Dfhstor 116	0
Dfhstor 119	0
Dfhstor 122	0
Dfhstor 139	0
Dfhstor 142	0
Dfhstor 143	0
Dfhstor 160	0
Dfhstor 161	0
Dfhstor 162	0
Dfhstor 252	0
Dhcrect	0
Dhinstct	0
Dhretct	0
Dhsetct	0

Error Log Table:

Name	Target	Severity	Priority	Event Type

At the bottom of the window, a status bar shows: "CNX0100I Connected user POILMIK to host winmvs20.hursley.ibm.com on port 11490" and the current context "IYCKZCDU".

A Simple CICS Explorer™ Session - open

The screenshot displays the IBM CICS Explorer application window. The main pane shows a list of resources for the context CNX0211I. The 'Terminal (TC17)' window is open, displaying the 'Attributes' for the selected resource.

Resources List:

Region	Name	Network ...	Acquire S...	Service St
IYCKZCDU	PLOW		NOTAPPLIC	✓ INSR
IYCKZCDU	RACH		NOTAPPLIC	✓ INSR
IYCKZCDU	RADL		NOTAPPLIC	✓ INSR
IYCKZCDU	RMEH		NOTAPPLIC	✓ INSR
IYCKZCDU	ROBE		NOTAPPLIC	✓ INSR
IYCKZCDU	ROBI		NOTAPPLIC	✓ INSR
IYCKZCDU	SWAL		NOTAPPLIC	✓ INSR
IYCKZCDU	TC09	IYCKTC09	ACQUIRED	✓ INSR
IYCKZCDU	TC11	IYCKTC11	ACQUIRED	✓ INSR
IYCKZCDU	TC15	IYCKTC15	ACQUIRED	✓ INSR
IYCKZCDU	TC17	IYCKTC17	ACQUIRED	✓ INSR
IYCKZCDU	WARD		NOTAPPLIC	✓ INSR
IYCKZCDU	WRIG		NOTAPPLIC	✓ INSR
IYCKZCDU	040A	IYA1040A	RELEASED	✓ INSR
IYCKZCDU	040B	IYA1040B	RELEASED	✓ INSR
IYCKZCDU	040C	IYA1040C	RELEASED	✓ INSR
IYCKZCDU	040D	IYA1040D	RELEASED	✓ INSR
IYCKZCDU	040E	IYA1040E	RELEASED	✓ INSR

Event Log:

CNX0221W Resource type 'Event' (EVENT) unsupported

Name	Target	Severity	Priority	Event Type

Terminal (TC17) Attributes:

Property	Value
Accessmethod	VTAM
Acquire Status	ACQUIRED
Altpageht	0
Altpagewd	0
Altprinter	
Altprtcopyst	NOALTPRTCOPY
Altscrnht	0
Altscrnwd	0
Altsuffix	
Aplkybdst	NOAPLKYBD
Apltextst	APLTEXT
Ascii	NOTAPPLIC
ATI Status	ATI
Audalarmst	AUDALARM
Autoconnect	NONAUTOCONN
Backtransst	BACKTRANS
CICS Release	E660
Colorst	COLOR
Console	
Copyst	NOCOPY
Correlid	
Datastream	DS3270
Defpageht	24
Defpagewd	80
Defscrnht	24
Defscrnwd	80
Device	T3277R
Discreqst	DISCREQ

System status: CNX0100I Connected user POILMIK to host winmvs20.hursley.ibm.com on port 11490

A Simple CICS Explorer™ Session - select Files

IBM CICS Explorer

Explorer Edit Project Operations Administration RTA WLM Search Window Help

CICSplex Explorer CICSplex Repositories

Server: CICS

Regions Tasks ISC/MRO Connections Terminals Files Transactions TD Queues Transaction Definitions File Definitions

CNX0211I Context: IYCKZCDU. Resource: LOCFILE. 13 records collected at 04-Apr-2011 13:23:23

Region	Name	Status	Open Status	Add	Browse	Delete	Read	Update	LSR Pool ID	DS Name
IYCKZCDU	DFHBARF	✓ ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	TCOM.CICS...
IYCKZCDU	DFHCMACD	✓ ENABLED	CLOSED	NOTADDABLE	NOTBROWS...	NOTDELETA...	READABLE	NOTUPDATA...	1	
IYCKZCDU	DFHCSD	✓ ENABLED	OPEN	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	0	COMS.CICS...
IYCKZCDU	DFHDBFK	✓ ENABLED	CLOSED	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	0	
IYCKZCDU	DFHLRQ	✓ ENABLED	OPEN	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	TCOM.IYCKZ...
IYCKZCDU	FILEA	✓ ENABLED	OPEN	ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	TCOM.IYCKZ...
IYCKZCDU	FILEARLS	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	
IYCKZCDU	FILEERLS	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	
IYCKZCDU	FILERRLS	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	
IYCKZCDU	RFSDIR 1	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	RFSDIR 1
IYCKZCDU	RFSDIR 2	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	TCOM.FP02...
IYCKZCDU	RFSPPOOL 1	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	RFSPPOOL 1
IYCKZCDU	RFSPPOOL 2	✓ ENABLED		ADDABLE	BROWSABLE	DELETABLE	READABLE	UPDATABLE	1	TCOM.FP02...

Events Properties Error Log

CNX0221W Resource type 'Event' (EVENT) unsupported

Name	Target	Severity	Priority	Event Type	Detail	View	Resource Type	Resource Name	Description

▼ IYCKZCDU

A Simple CICS Explorer™ Session - open

The screenshot displays the IBM CICS Explorer application window. The main area shows a table of resources for the context CNX0211I. The table includes columns for Region, Name, Status, Open Status, and Add. The resource FILEA is highlighted. Below the table, there is an 'Events' panel showing a warning message: 'CNX0221W Resource type 'Event' (EVENT) unsupported'. On the right side, the 'Attributes' panel is open, displaying a list of properties and their values for the selected resource.

Region	Name	Status	Open Status	Add
IYCKZCDU	DFHBARF	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	DFHCMACD	✓ ENABLED	CLOSED	NOTADDA...
IYCKZCDU	DFHCSD	✓ ENABLED	OPEN	ADDABLE
IYCKZCDU	DFHDBFK	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	DFHLRQ	✓ ENABLED	OPEN	ADDABLE
IYCKZCDU	FILEA	✓ ENABLED	OPEN	ADDABLE
IYCKZCDU	FILEARLS	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	FILEERLS	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	FILERRLS	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	RFSDIR1	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	RFSDIR2	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	RFSPPOOL1	✓ ENABLED	CLOSED	ADDABLE
IYCKZCDU	RFSPPOOL2	✓ ENABLED	CLOSED	ADDABLE

Property	Value
Basic	
BDAM	
Resource Signature	
Statistics	
Active String Count	0
Add Count	0
Browse Count	310
Browse Update Count	0
Data Operation Count	1
Index Operation Count	1
Local Delete Count	0
Peak String Wait Count	0
Read Count	2
Read Update Count	0
RIS Timeout Count	0
String Wait Count	0
Total String Wait Count	0
Update Count	0

Events: CNX0221W Resource type 'Event' (EVENT) unsupported

Events Table:

Name	Target	Severity	Priority	Event Type

Status bar: CNX0100I Connected user POILMIK to host winmvs20.hursley.ibm.com on port 11490

Any Questions ?

References

<http://www-01.ibm.com/software/htp/cics/explorer/>

www.redbooks.ibm.com/redbooks/pdfs/sg247778.pdf